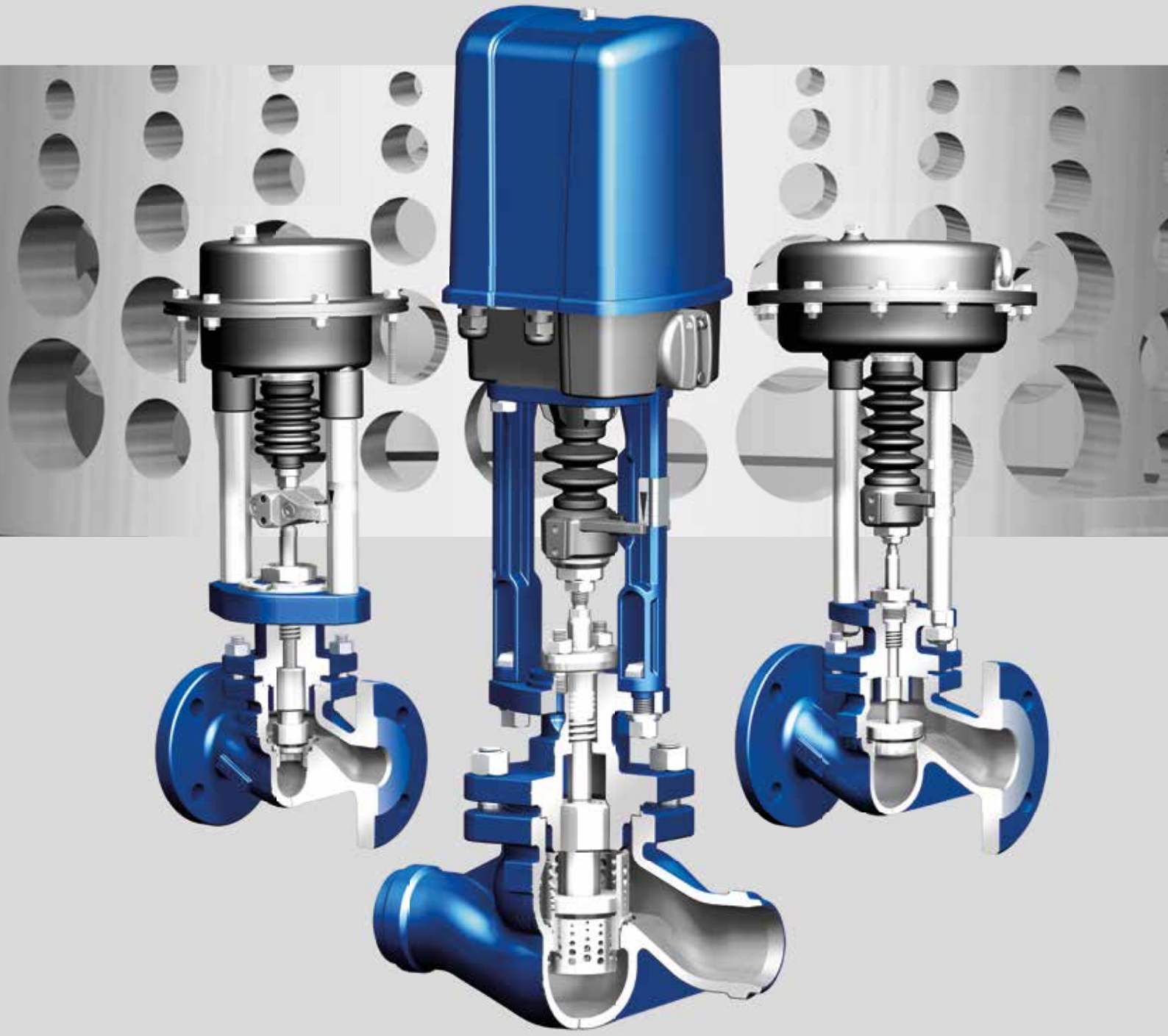
Pricelist 2020

INDUSTRY + BUILDING TECHNOLOGY



ARI ARMATUREN

ZEDOX®

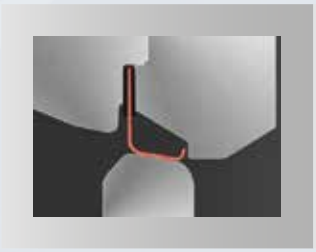
New from ARI!

The *double* offset high performance valve with metallic sealing:
Butt-weld ends up to DN 1600
Double flanged design up to DN 1200
Wafer type version up to DN 800

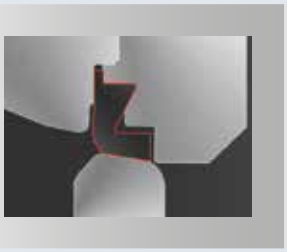
Your economical alternative – meets *high* requirements!

The *double* offset seal principle of the ZEDOX® (the rotating shaft is offset twice) reduces the angle at which the valve disc comes into contact with the seat compared to centric butterfly valves – thus relieving the stress on the metal seal when opening. Benefits for you:

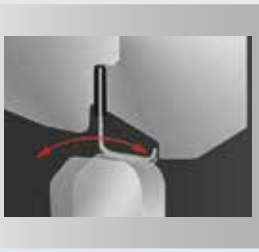
- Maximum reliability, even for application with high requirements (reliably tight at temperatures from -40°C to +260°C, PN 10 to PN 40 and ANSI Class 150)
- Long life thanks to reduced contact pressure between the disc and the metal sealing ring (only minimal frictional pressure)
- Highest energy efficiency due to flow-optimised mounted valve disc
- Longer service life due to protection of the seat ring against negative flow influences
- Perfect handling due to low torques
- Safe shaft sealing (option: TA-Luft)



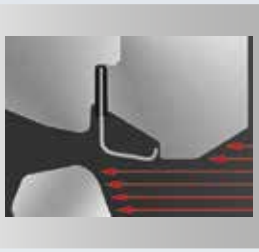
Tight closure up to +260°C thanks to metal sealing ring.



Tight closure up to +180°C thanks to PTFE-sealing ring.



Only minimal frictional pressure thanks to reduced contact pressure between the disc and the metal sealing ring.



Extended service life because the metal sealing ring is protected against negative flow effects.

Further Information on page 130

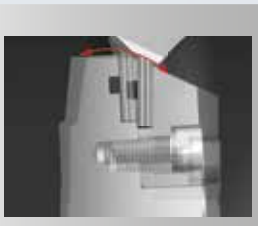
ZETRIX®

The *triple* offset, metal seated process valve:
New with butt-weld ends up to DN 600.
Double flanged design now up to DN 1200!
New fully lugged version up to DN 600/Class 600 (PN63/100).

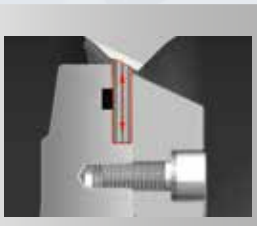
Reliably tight – even in *harsh* industrial environments!

The *triple* offset seal principle of the ZETRIX® (the rotating shaft of the disc is offset both from the centre line of the disc seat and body seal and from the pipe's centre line; the seat's axis of rotation is also asymmetrically disposed to the pipe axis) ensures a reliably tight seal even in harsh industrial environments.

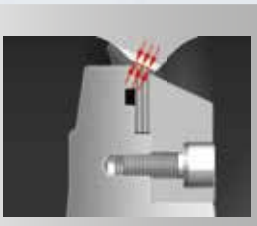
- Maximum closing force with minimum effort (triple offset disc design)
- „The "smart" sealing ring (uniform closing force, the ring is self-aligning and free-floating on the sealing surface)
- With a wide range of additional safety options
- Body acc. to EN 12516, ASME B16.34 and API 609
- Tight metal shut-off, bi-directional leakage rate A (zero leakage)
- Reliably tight at temperatures from -60°C to +450°C, PN 10 to PN 40 and ANSI Class 150



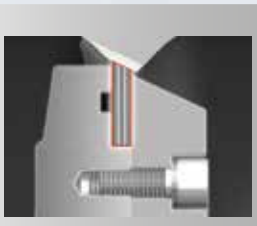
Triple offset design guarantees a frictionless rotary movement of the sealing ring into the seat.



Self-aligning sealing ring facilitates thermal compensation and ensures tightness regardless of temperature variations.



The ZETRIX® process valve seals according to the area seating principle; the required contact pressure is applied via the actuator, which can be switched off as a function of the torque.



Lamellar structure made of stainless steel and graphite lends additional elasticity to the sealing ring. Double sealing mechanism in the form of a special, spiral-wound gasket made from a heat-resistant elastic material.

Further Information on page 134

STEVI®
Expert control

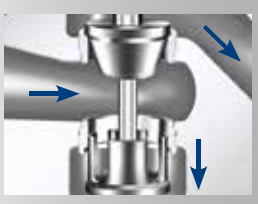
STEVI® Pro:
The high-performance control valve for critical applications (Series 470/471)

Stainless steel type now also with bellows seal (BR 471)!

…Control valve technologies for control

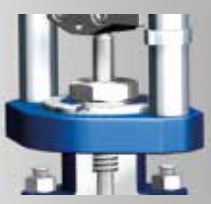
- More than forty years experience in the development and sale of advanced control valve technologies
- Your strong service partner – with 15 branches and sales partners in more than 60 countries worldwide
- A sharp focus on our customers, competent advice and short delivery times
- All ARI products are developed in keeping with the very latest design standards, tested under the most rigorous conditions at our in-house experimental facilities, manufactured with the highest possible precision and subjected to continuous in-process quality controls

Optional pressure balancing plug reduces the required actuator forces and enables increased efficiency.



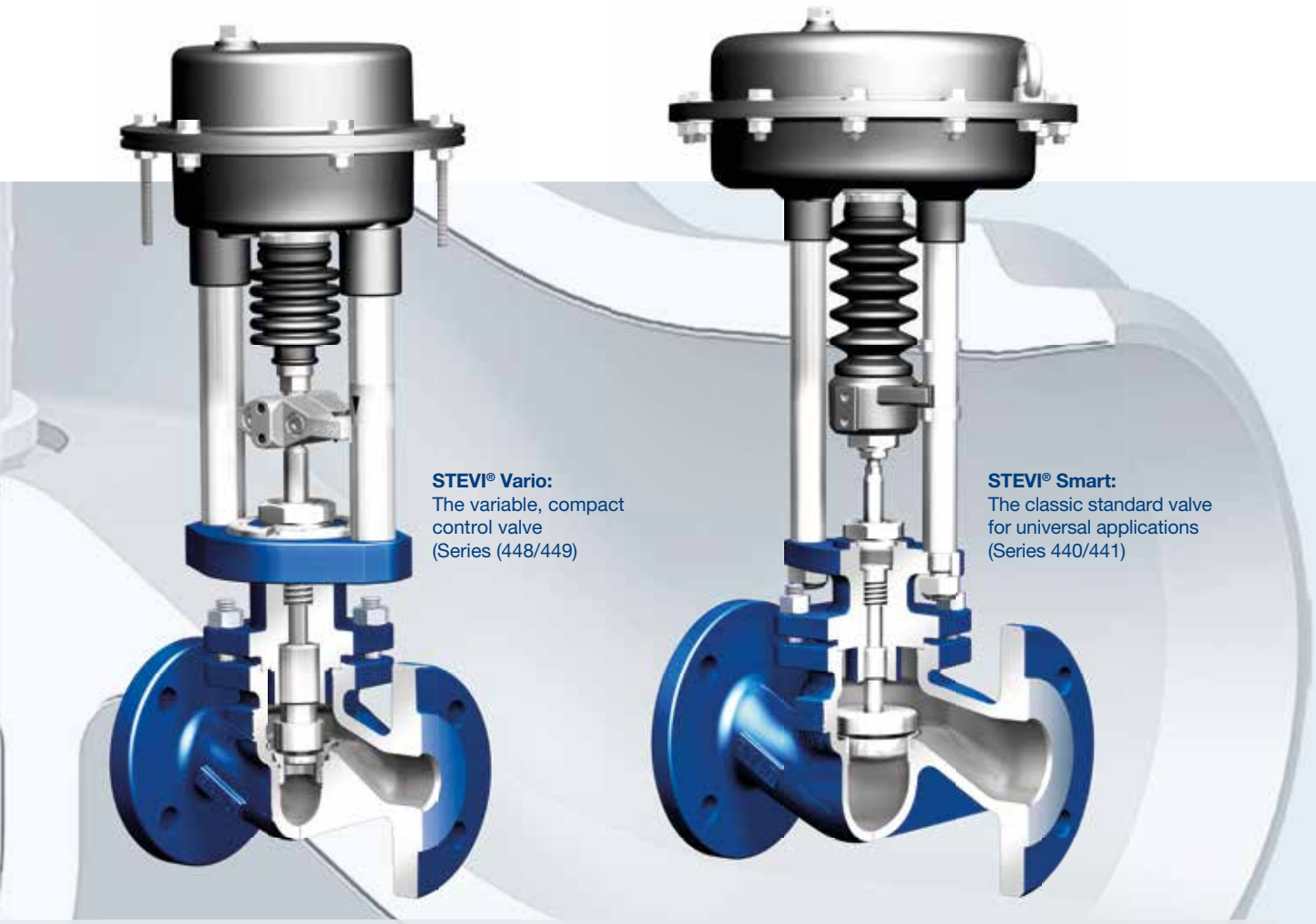
Variable: diverting plug.

Stable shaft guiding for precision and durability.



Rotatable upper part for optimum handling.

Further Information on page 4



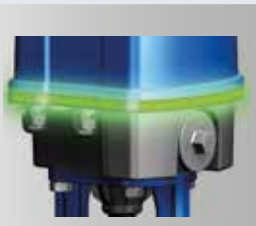
STEVI® Vario:
The variable, compact control valve
(Series (448/449)

STEVI® Smart:
The classic standard valve for universal applications
(Series 440/441)

- Comprehensive design know-how, for example through ARI-myValve®, our user-friendly sizing software
- ARI products are manufactured at three different locations – all of them in Germany. Benefit for you: quality "Made in Germany" – certified acc. to DIN ISO 9001. Numerous product approvals, e.g. Det Norske Veritas and Lloyd's Register Quality Assurance
- High degree of vertical integration for flexibility, speed and professionalism
- What sets us apart: all valves and all electric and pneumatic actuators are developed and manufactured in-house. We make it as simple as possible for you to order – by recommending valve-actuator combinations tailored to your individual needs

Safe even under exacting conditions (blow-out proof stem / shaft guided plug).

High performance due to double guiding (V-port plug).

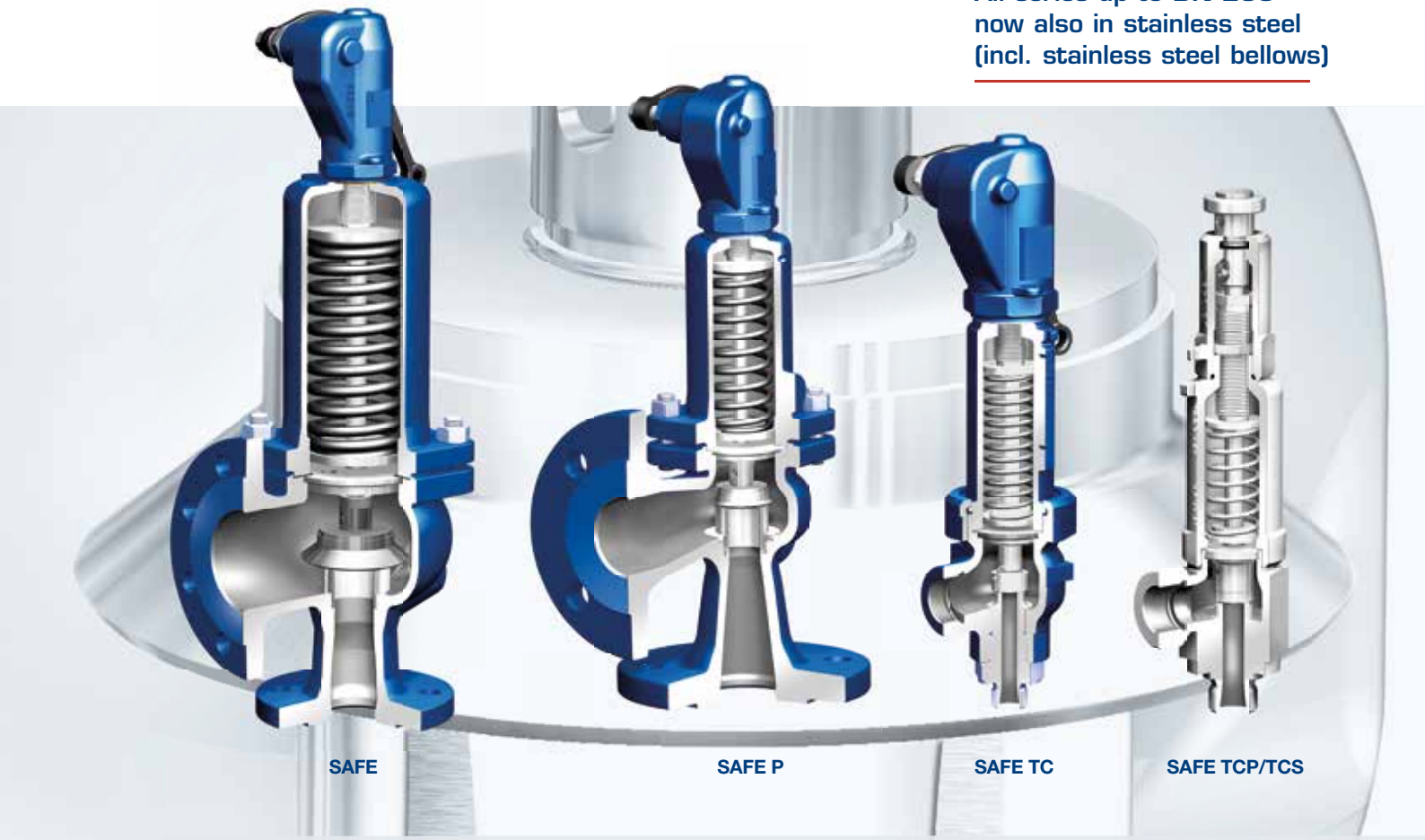


PREMIO Plus 2G - Now optionally available with LED status display!
Your benefit: The display reports normal operation, maintenance and possible malfunctions in a way that is well visible (360° circumference).
New: BLDC motor for significantly reduced power consumption

SAFE

Safety valves SAFE with „SHR“ premium soft seal.
Up to + 220° C. Now also in DN 200 and DN 250.

All series up to DN 250 now also in stainless steel (incl. stainless steel bellows)



Steam-/Hot Water-Resistance (SHR):

- Suitable for SAFE and SAFE SN (Semi Nozzle)
- Even more economical with extended lifetime (optimal leak-proof technology)
- Type test approved acc. to VdTÜV 100 (TÜV Nord)
- Ideal for steam and hot water generators
- acc. to DIN EN 12953 (TRD 421) e.g. shell boilers or district heating

Greater Efficiency:

- Extended size range: now DN 15-250
- Suitable for chemical applications: can be upgraded with rupture disc, stainless steel bellows seal and proximity switch

Greater Reliability:

- Type test approved acc. to VdTÜV
- ASME certification from the U.S. National Board

SHR: Now for steam and hot water up to +220°C! Zero leakage – in combination with the innovative premium soft seal

SAFE Combi C: The combination with a changeover valve. Maintenance costs reduced to a minimum because there is no need to shut down the plant for servicing.

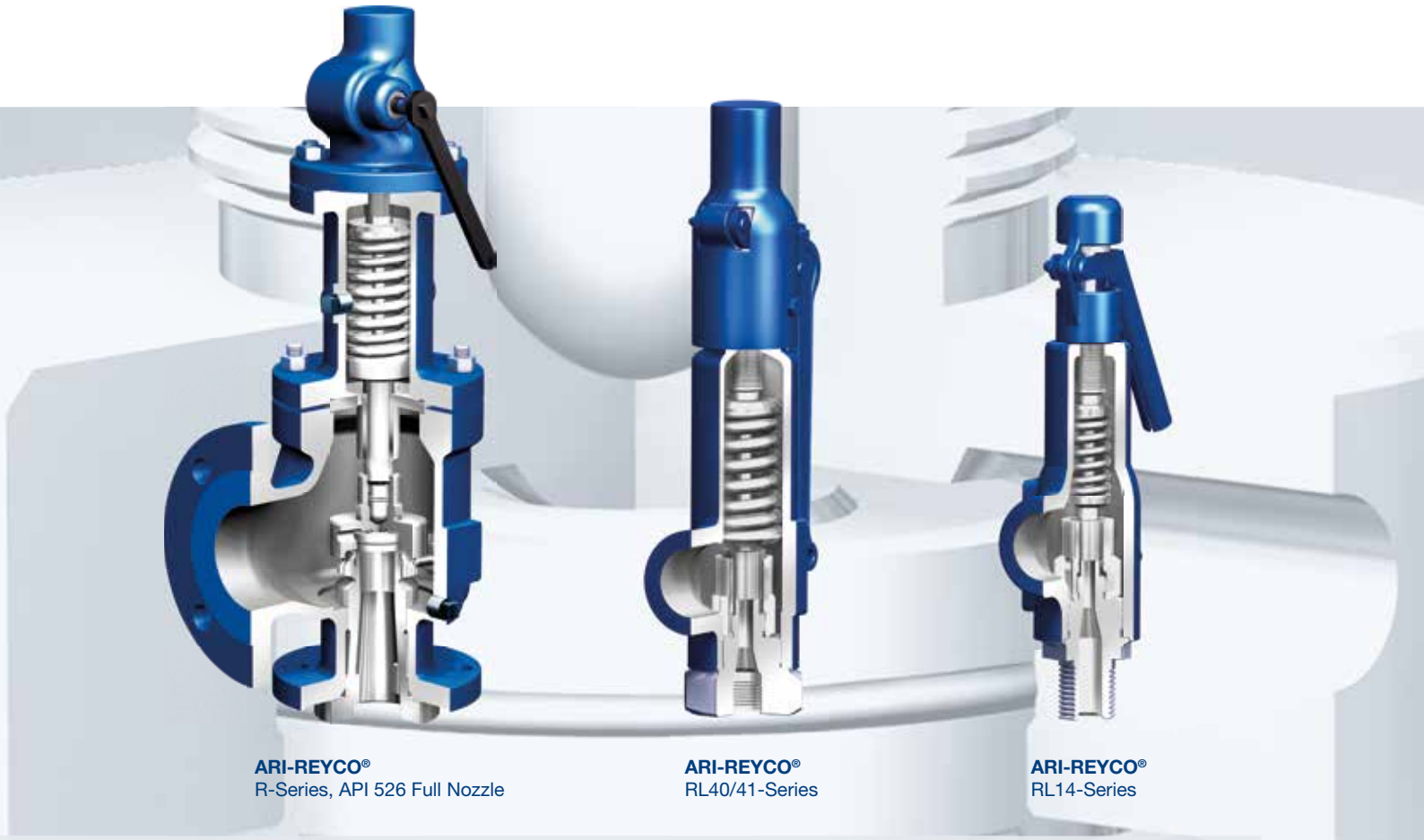
SAFE Combi R: The combination with a rupture disc. Zero leakage (allows the use of media which tend to harden or become sticky in contact with the atmosphere – protection against corrosion)

Two-fold safety: stainless steel bellows with separate balanced piston as standard

Further Information on page 158

ARI-REYCO®

Accurate response, flip-over plug, optimal plug guiding – up to 6000 psi (414 bar)



ARI-REYCO®
R-Series, API 526 Full Nozzle

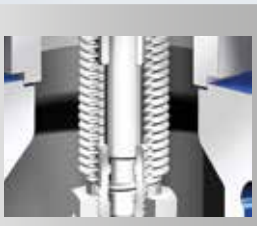
ARI-REYCO®
RL40/41-Series

ARI-REYCO®
RL14-Series

Customer friendliness through API 526 design
Optimum handling, e.g. due to flip-over plug

- Powerful: suitable for oil and gas processing (ARI-REYCO®)
- Simple handling: easy to service due to the flip-over plug (double sided sealing system)
- Durable: increased service life due to the corrosion-resistant bellows seals made of standard Inconel 625; the bellows also provides backpressure compensation as standard Flexible: Optionally available in Monel, Duplex, Super Duplex or Hastelloy
- Reliable and durable: precise repeatability of the set pressure and increased service life due to the accurately guided nozzle (nozzle thread close to the seat)
- Identical trim irrespective of the medium (steam, gases, liquids)

Nozzle guided close to the seat – for a more accurate response. Flip-over plug – double sided sealing system assures simple handling, easy servicing and a longer service life.



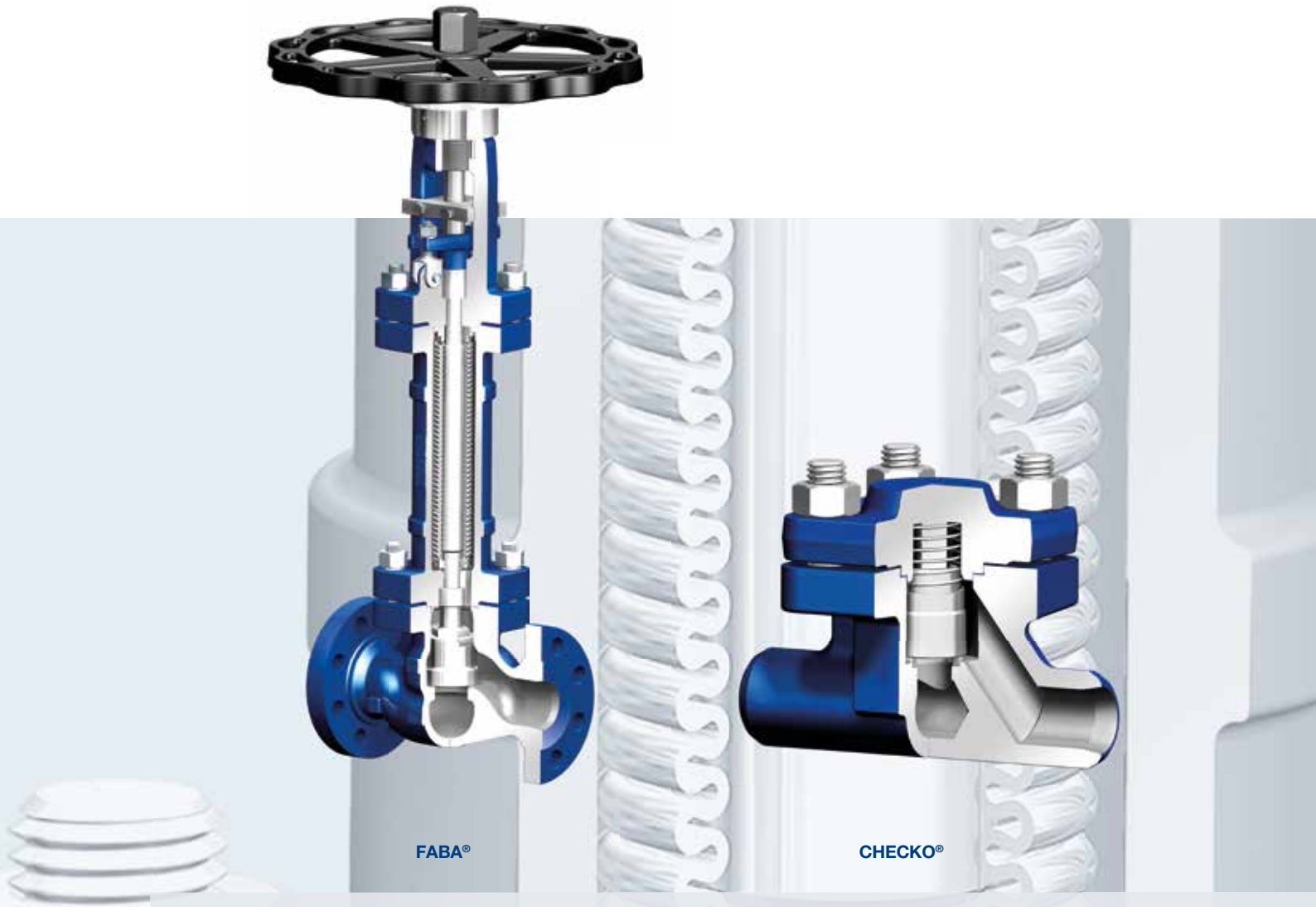
Bellows available as a retrofit option. Bellows seals made of standard Inconel 625.

More options with different flange connections up to ANSI 2500 are available. Can also be supplied with butt or socket weld ends.

Further Information on page 168

FABA® / CHECKO®

The medium pressure range in PN 63-160



FABA® Supra PN 63-160 — For use in medium-pressure systems up to 160 bar!

Even safer to use …

- … due to the balancing plug (optional from DN 65)

Reliably tight – even in harsh industrial environments …

- … due to the bellows seal
- … due to the serrated seal
- … due to the gland packing and gland seal stuffing box

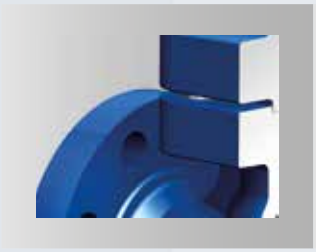
Design: DIN/EN

Materials: Cast steel, forged steel, heat resistant steel

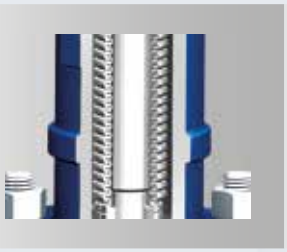
Nominal diameter: DN 10-100

Nominal pressure: PN 63-160

Connection types: Flanges, butt weld ends



Suitable for harsh industrial environments – body, bellows housing and upper part made of 1.7357 (heat resistant steel)



Durable – extra-long, modified, pressure resistant bellows design (positioned outside the medium)

Gland packing / gland seal stuffing box provides an additional stem seal

Further Information on page 104

STOBU® / SF

The medium pressure range in PN 63-160

STOBU®

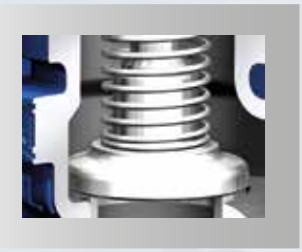
SF strainer

STOBU® PN 63-160

The stop valve alternative
Variable, durable, “Two-in-One”!

- Easy to service because the gland packing can be replaced in a few simple steps
- Optimal handling because the gland seal stuffing box allows easy tightening
- Permanently leak-proof due to burnished stem and chambered bonnet seal
- Durable due to bonnet top with threaded bush
- Easy to service due to pivot mounted bolts fixed to the bonnet
- Completely leak-proof due to ideal plug / seat hardness gradient
- Durable due to plug / seat surface with stellited finish
- Two-fold safety due to double sealing mechanism – new: now up to DN 100!
- Optimal handling due to non-rising handwheel

Optimal handling: Non-rising handwheel (PN 63-160)

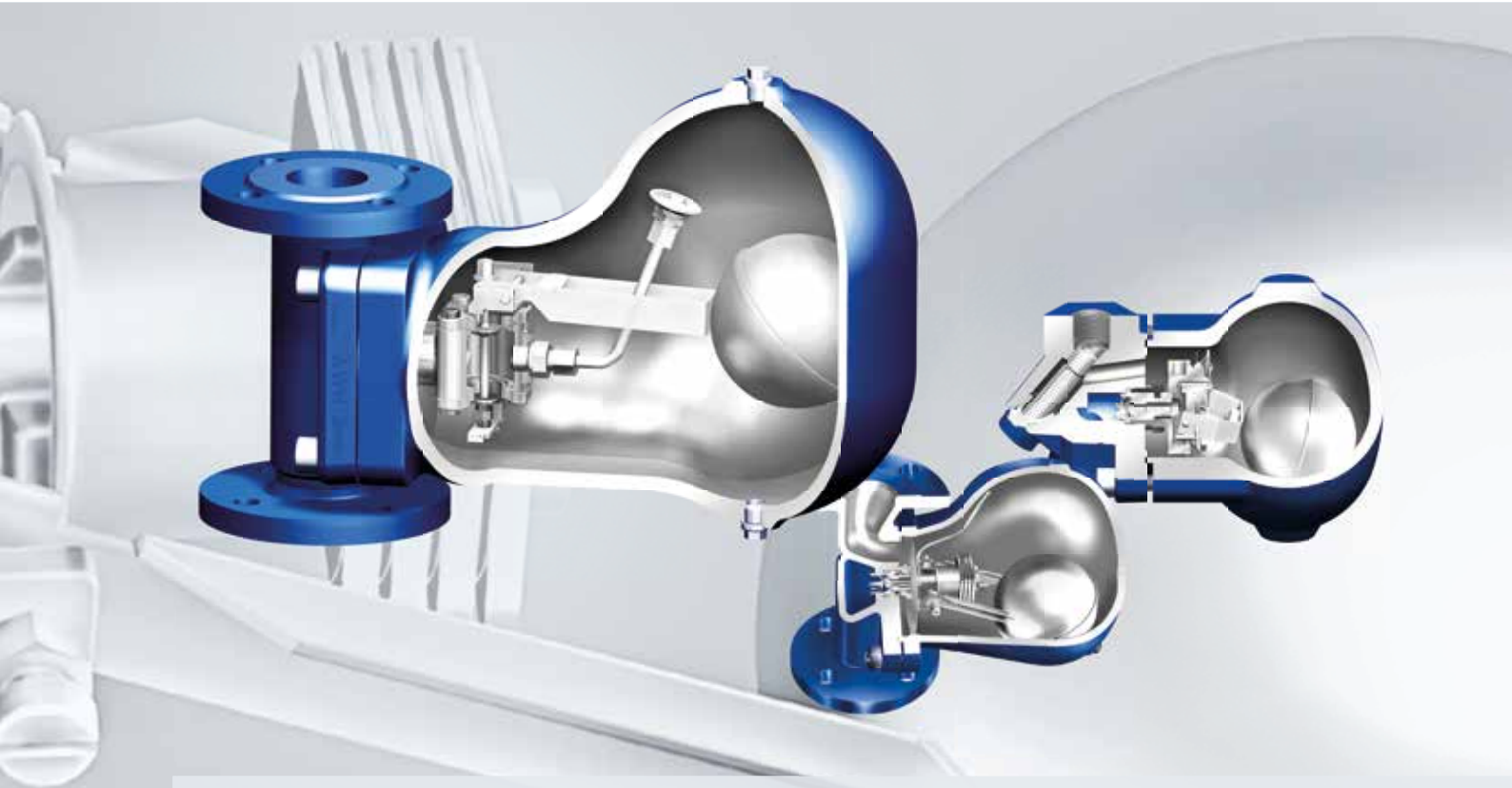


Maximum cost effectiveness: “Two-in-One” (screw-down non-return plug with resetting spring provides additional function as a check valve with shut-off feature)

Diversity: Option of electric or pneumatic actuators

Further Information on page 112

CONA® S
Ball float steam trap

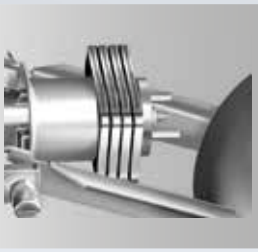


CONA® S/SC
Ball float steam trap

For major fluctuations in pressure and volume – instant discharge with no temperature loss!
For discharge of condensate at boiling temperature.

- High performance: Instant discharge of condensate with no temperature loss permits backpressure-free condensate removal, even with extreme fluctuations of pressure and volume
- Integral back-flow protection as standard for high performance and economy. Benefit for you: Extremely economical because there is no need for a separate check valve in line
- Controller with automatic air venting / liquid drainage also incorporated as standard for high performance and economy

Double-seat version for high performance and optimised lever forces as well as integrated air venting via the diaphragm valve.

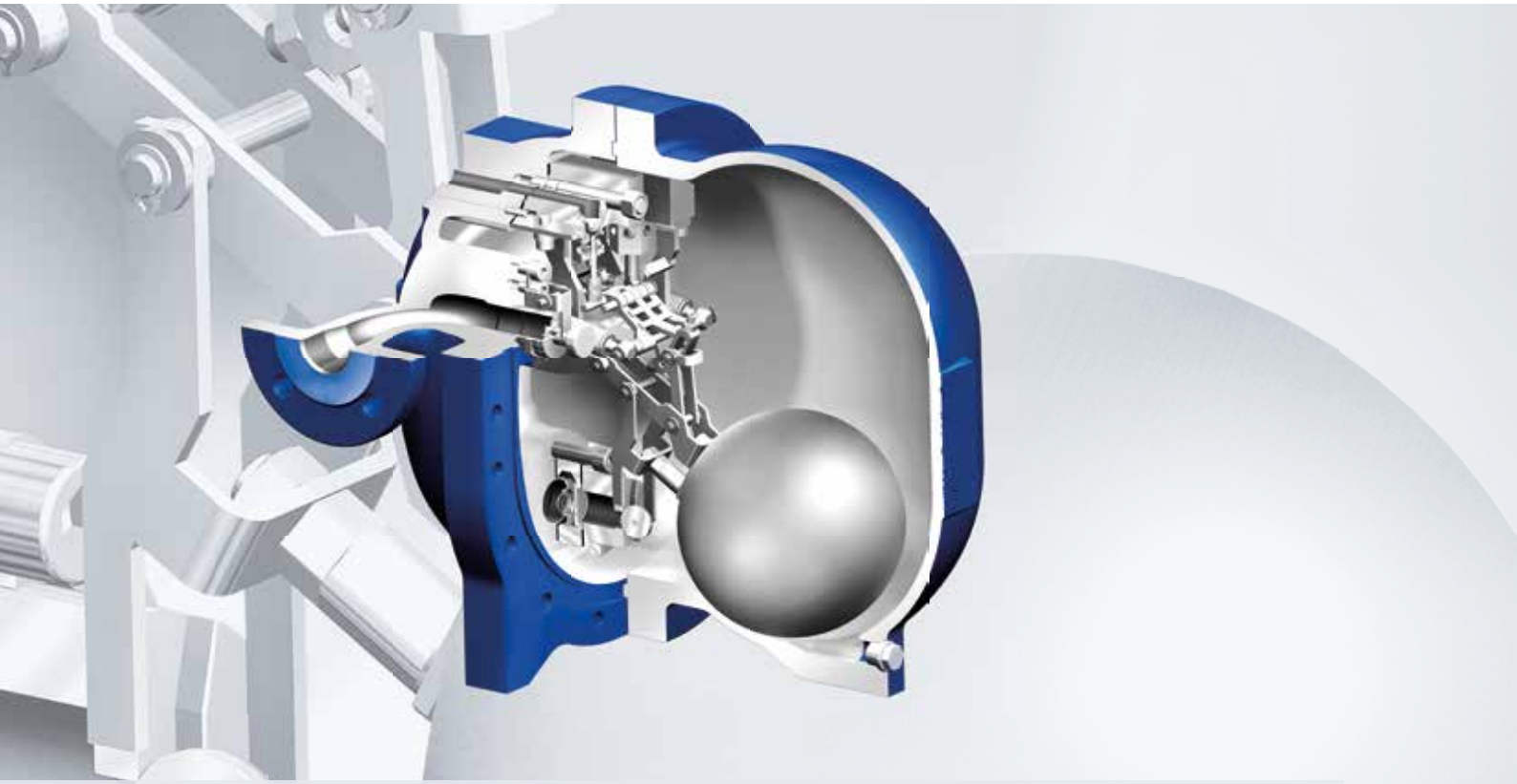


Rapid system start-up due to thermostatic control element (liquid drainage)!

Integral back-flow protection as standard for high performance and economy. Benefit for you: no need for a separate check valve in line!

Further Information on page 185

CONA® P
Pump trap



CONA® P
Pump trap

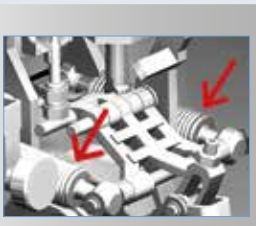
For continuous control of steam users without problems under negative pressure conditions (back-pressure downstream of the trap ≥ inlet pressure upstream of the trap).

Operates as a conventional ball float steam trap if the pressure difference is positive. In case of higher backpressure it works automatically as a condensate pump. Prevents condensate from backing up in the heat exchanger if the pressure difference is negative.

- Economical and flexible: “Two-in-One” principle unites all the functionality of a traditional float trap and a condensate pump in ONE item – ideal when space is restricted (compact design).
- Versatile: applicable for all loads
- High performance: large displacement

Steam trap mechanism has a shut-off element with a rolling ball for reliable closure of the feed pipe

Steam trap / pump switching mechanism. Valves have a marginal seat for reliable closure of the vented and motive steam pipes



High-endurance Inconel springs prevent malfunctions

Further Information on page 190

CONLIFT®
Mechanical condensate pump

Now also in nodular iron and stainless steel!

CONLIFT®
Mechanical condensate pump

Versatile – energy efficient – for condensate collection and return

- Economical and energy efficient because the pump is operated purely mechanically under steam or gas pressure (ideal for use in potentially explosive atmosphere)
- Condensate can be removed under any conditions (from vacuum to high temperatures), ensuring safety and flexibility
- Economical through maximum energy recovery (condensates can be pumped up to boiling temperature)
- Powerful pump with a high delivery rate
- Low filling head means greater planning flexibility
- Cost-effective due to minimal maintenance required
- Only one control unit is used for all nominal diameters, resulting in easy handling

Extended life due to double guided motive steam valve with marginal seat – for reliable closure of the motive steam pipe

Extended life due to spring-operated air vent valve with marginal seat – for reliable closure of the vented pipe

Low inlet into the feed pipe – to prevent steam from entering

Further Information on page 191

CONA® All-in-One

Compact condensate discharge in a multi-valving system!
In DIN face-to-face dimensions!

CONA® B
All-in-One

CONA® All-in-One

Compact condensate discharge in a multi-valving system!

Patented – The integrated system comprises a steam trap, stop valve, strainer, check valve and drain valve! Up to 80% reduction in pipe connections. Now also with DIN face-to-face dimensions!

- Economical due to integrated stop valves (eliminates two stop valves) – patented design (DE 10 2006 041 132)
- Variable, modular design guarantees extremely easy servicing due to replacement of the controller without disturbing the pipework, conversion to other steam trap types simply by dismantling the cap and controller (also without removing the steam trap from the pipework), conversion of the integrated valves by replacing the valve bonnet!
- Economical through time and cost savings because piping is reduced to a minimum (the number of pipe connections can be reduced from as many as twelve to just one or two)

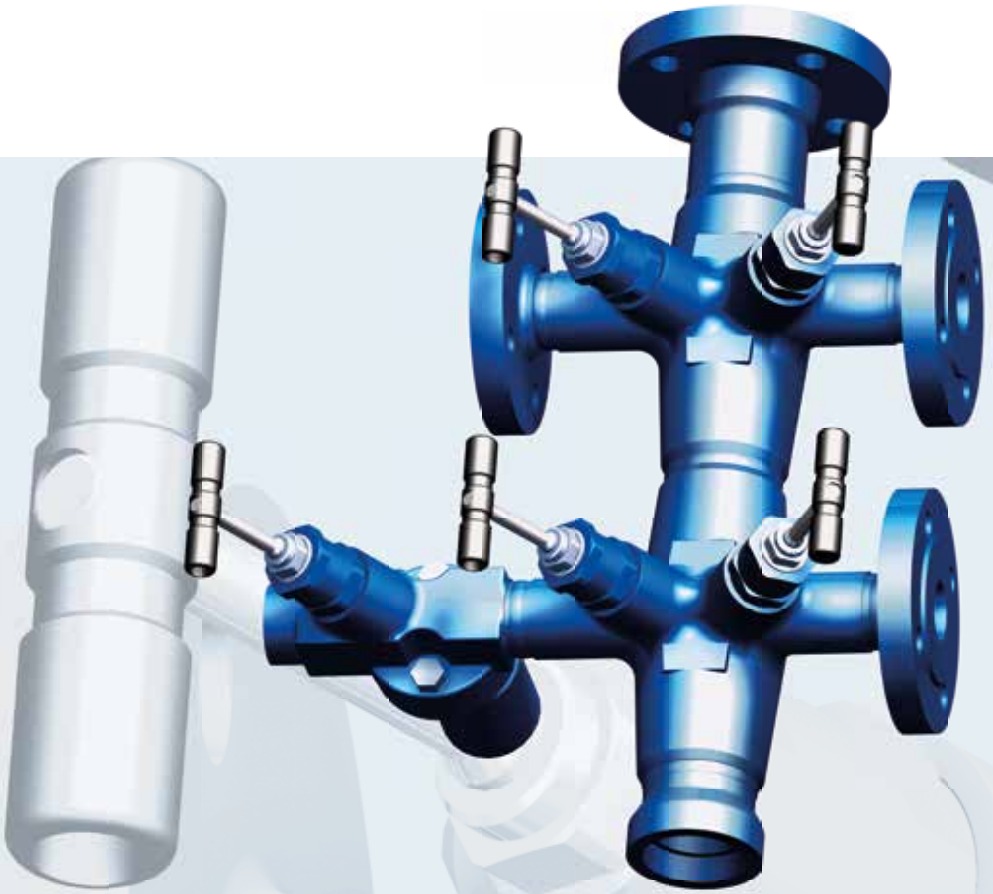
CONA® M All-in-One

CONA® TD All-in-One

CONA® SC All-in-One

Further Information on page 196

CODI®
Collector / Distributor



CODI®
Collector / Distributor

Collects and distributes condensate, steam and fluids (minimal welding, reduced assembly time, rapid start-up)!

- Flexibility through design: compact, variable modular components (choose from 2, 4, 6, 8, 10, 12, 14, 16 or 18 ready-integrated stop valves)! All functional parts are replaceable without removing the manifold!

Bellows seal type on request

- Two-fold safety due to integral stop valves with double sealing mechanism when the valve is fully open!
- Economical: optimum on-site handling and durability (forged steel and metal seal ...)
- Dual function: collector or distributor
- Optional: manifold complete with steam traps
- Vertical or horizontal mounting
- Variable gap between modular components
- Optional insulating jacket provides added plant safety and saves energy

Further Information on page 202

ARI-STEVI® Pro

DVGW-GAS type approval on request [5)]

Pneumatic actuated control valve in straight through form

Body: EN-JS1049 / 1.0619+N / 1.4581

Trim: Body in EN-JS1049 / 1.0619+N: X20Cr13+QT (1.4021+QT)
Body in 1.4581: X6CrNiMoTi17-12-2 (1.4571)

Stem sealing: Spring loaded PTFE-V-ring unit -10 ...+220°C
Further designs up to +450°C acc. to data sheet

Flow characteristic: Equal percentage or linear

Rangeability: 50 : 1

Actuators: ARI-DP single acting pneumatic actuators

Action: Spring closes / opens the seat on air failure

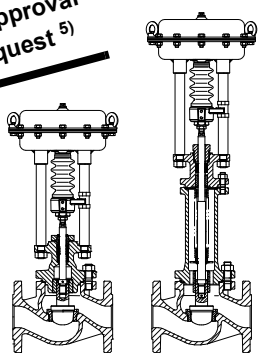


Fig. ...470....1 Fig. ...471....1
ARI-DP

Closing pressures for standard Kvs-values

Nominal diameter							DN	15	20	25	32	40	50	65	80	100	125	150
Kvs - values			Standard					4	6,3	10	16	25	40	63	100	160	250	400
			Reduced Miniature Kvs-values see Special design					2,5/1,6 1	4/ 2,5 1,6/1	6,3/4 2,5/1,6/ 1	10 6,3	16 10	25 16	40 25	63 40	100 63	160 100	250 160
DP32	Spring closes	0,4-1,2	Air supply press. min. (bar)	1,4	Closing press. (bar)			25,8	16,8	12,6	7,1	3,8	2,1					
	Spring opens			1,4				25,8	16,8	12,6	7,1	3,8	2,1					
				6				40	40	40	40	40	40	34	22,3	14,1		
Fig. No.	23.470....1	PN16/25		EN-JS1049				1.805,-	1.837,-	1.859,-	2.031,-	2.067,-	2.126,-	2.897,-	3.185,-	4.090,-		
	35.470....1	PN25/40		1.0619+N				2.077,-	2.099,-	2.136,-	2.358,-	2.435,-	2.563,-	3.519,-	3.933,-	4.643,-		
	55.470....1	PN40		1.4581				2.572,-	2.628,-	2.694,-	3.067,-	3.502,-	3.860,-	5.197,-	6.185,-	8.338,-		
DP33	Spring closes	0,2-1,0	Air supply press. min. (bar)	1,2	Closing press. (bar)			18,6 [c)]	11,9 [c)]	8,8 [c)]	4,8 [c)]	2,3 [a)]	1,1 [a)]					
		0,4-1,2		1,4				40 [c)]	31 [c)]	23,7 [c)]	14 [c)]	8,3 [a)]	4,9 [a)]	2,6 [a)]	1,4			
	Spring opens			1,4				40 [d)]	31 [d)]	23,7 [d)]	14 [d)]	8,3 [d)]	4,9 [d)]	2,6 [d)]	1,4 [d)]			
				6					40 [d)]	40 [d)]	40 [d)]	40 [d)]	40 [a)]	40 [a)]	36,4	23,2		
Fig. No.	23.470....1	PN16/25		EN-JS1049				2.039,-	2.071,-	2.093,-	2.265,-	2.301,-	2.360,-	3.131,-	3.419,-	4.324,-		
	35.470....1	PN25/40		1.0619+N				2.311,-	2.333,-	2.370,-	2.592,-	2.669,-	2.797,-	3.753,-	4.167,-	4.877,-		
	55.470....1	PN40		1.4581				2.806,-	2.862,-	2.928,-	3.301,-	3.736,-	4.094,-	5.431,-	6.419,-	8.572,-		
DP34	Spring closes	0,2-1,0	Air supply press. min. (bar)	1,2	Closing press. (bar)							8,3 [e)]	5 [e)]	2,6 [e)]	1,5			
		0,4-1,2		1,4								20,4 [d)]	12,7 [d)]	7,2 [d)]	4,5	2,7	1,6	1
	Spring opens			1,4								20,4 [e)]	12,7 [e)]	7,2 [e)]	4,5	2,7	1,6	1
				6								40 [e)]	40 [e)]	40 [e)]	40	40	30,6	21,2
Fig. No.	23.470....1	PN16/25		EN-JS1049								3.205,-	3.264,-	4.035,-	4.323,-	5.228,-	7.228,-	8.551,-
	35.470....1	PN25/40		1.0619+N								3.573,-	3.701,-	4.657,-	5.071,-	5.781,-	8.893,-	10.697,-
	55.470....1	PN40		1.4581								4.640,-	4.998,-	6.335,-	7.323,-	9.476,-	11.279,-	14.232,-
DP34 T	Spring closes	0,2-1,0	Air supply press. min. (bar)	1,5	Closing press. (bar)											1)	1,2	
		0,4-1,2		1,7													3,8	2,5
	Spring opens			1,5													5	3,4
				6													40	40
Fig. No.	23.470....1	PN16/25		EN-JS1049													10.104,-	11.427,-
	35.470....1	PN25/40		1.0619+N													11.769,-	13.573,-
	55.470....1	PN40		1.4581													14.155,-	17.108,-
DP34 Tri	Spring closes	0,2-1,0	Air supply press. min. (bar)	1,5	Closing press. (bar)											1)	2,5 [a)]	1,6 [a)]
		0,4-1,2		1,7													6,3 [a)]	4,3 [a)]
Fig. No.	23.470....1	PN16/25		EN-JS1049													14.392,-	15.715,-
	35.470....1	PN25/40		1.0619+N													16.057,-	17.861,-
	55.470....1	PN40		1.4581													18.443,-	21.396,-
DP35	Spring closes	1,8-3,8	Air supply press. min. (bar)	4,3	Closing press. (bar)											1)	40	40
	Spring opens			1,5													12,7 [b)]	8,7 [b)]
				4													40 [b)]	40 [b)]
Fig. No.	23.470....1	PN16/25		EN-JS1049													on request	
	35.470....1	PN25/40		1.0619+N														
	55.470....1	PN40		1.4581														

Additional performance for further closing pressures / additional performance

Fig. 470/471 - ARI-DP

Action: Spring closes the seat on air failure

Closing pressures for standard Kvs-values

Nominal diameter						DN	15	20	25	32	40	50	65	80	100	125	150
Kvs - values				Standard			4	6.3	10	16	25	40	63	100	160	250	400
				Reduced			2,5/1,6 1	4/2,5 1,6/1	6,3/4 2,5/1,6/ 1	10 6,3	16 10	25 16	40 25	63 40	100 63	160 100	250 160
DP32	Spring range (bar)	0,8-2,4	Air supply pressure min. (bar)	2,7	Closing press.	bar	40	40	31,4	18,7	11,3	6,9	3,8	2,2	1,2		
					Add. performance		37,-	37,-	37,-	37,-	37,-	37,-	37,-	37,-	37,-		
		1,5-2,9		3,2	Closing press.	bar			40	39							
					Add. performance				50,-	50,-							
		2,0-3,8		4,1	Closing press.	bar				40							
					Add. performance					174,-							
DP33		0,8-2,4		2,7	Closing press.	bar		40 a)	40 a)	32,5 a)	20,2	12,6	7,2	4,5	2,7		
					Add. performance			65,-	65,-	65,-	65,-	65,-	65,-	65,-	65,-		
		(1,7-2,7) 1,5-3,0		(3,1) 3,3	Closing press.	bar				(40 a))	40	26,1	15,2	9,8	6,1		
					Add. performance					69,-	69,-	69,-	69,-	69,-	69,-		
		2,0-4,0		4,5	Closing press.	bar						35,7	20,9	13,6	8,5		
					Add. performance							140,-	140,-	140,-	140,-		
DP34		0,8-2,4		2,7	Closing press.	bar					40 b)	28,2 b)	16,5 b)	10,6	6,6	4,1	2,7
					Add. performance						174,-	174,-	174,-	174,-	174,-	174,-	174,-
		1,5-3,0 (2,1-3,0)		3,3	Closing press.	bar						(40 a))	(40 a))	(30,5)	(19,4)	8,5	5,8
					Add. performance							192,-	192,-	192,-	192,-	192,-	192,-
		2,0-4,0		4,5	Closing press.	bar										11,7	8
					Add. performance											532,-	532,-
		2,4-3,6		4,0	Closing press.	bar								35,1	22,4		
					Add. performance									532,-	532,-		
DP34 T		0,8-2,4		2,9	Closing press.[1)]	bar										8,8	6
					Add. performance											228,-	228,-
		1,5-3,0		3,5	Closing press.[1)]	bar										17,7	12,2
					Add. performance											386,-	386,-
		2,0-4,0		4,5	Closing press.[1)]	bar										24	16,6
					Add. performance											1.068,-	1.068,-
DP34Tri		0,8-2,4		2,9	Closing press.[1)]	bar										13,9	9,5
					Add. performance											296,-	296,-
		1,5-3,0		3,5	Closing press.[1)]	bar										27,1	18,8
					Add. performance											417,-	417,-
		2,0-4,0		4,5	Closing press.[1)]	bar										36,6	25,4
					Add. performance											1.386,-	1.386,-

Additional performance for special design and accessories of actuators
see pages 54 to 58

Larger nominal diameters on page 22

Special flange drillings by agreement (refer to page 220)

[1)] DN125 and 150 with PTFE or graphite packing

[2)] Standard for body in 1.4581

[3)] Available from Kvs 1,0 upwards

[4)] DN15-100: Closing pressures see extra data sheet
DN125-150: Closing pressures on request

[5)] Design acc. to data sheet ARI-STEVI® 470-G / 471-G

Special design													
	Stem-/bellows unit Fig. 23./35.471	714,-	714,-	801,-	801,-	836,-	836,-	860,-	934,-	996,-	1.094,-	1.192,-
	Stem-/bellows unit Fig. 55.471	830,-	830,-	926,-	926,-	1.014,-	1.014,-	1.304,-	1.706,-	1.931,-	2.651,-	2.651,-
	Trim X6CrNiMoTi17-12-2 (1.4571) [2)]	123,-	152,-	166,-	191,-	241,-	267,-	423,-	530,-	962,-	1.298,-	1.612,-
	Parabol. plug with PTFE-soft seal max. 200 °C [3)]	328,-	328,-	328,-	328,-	340,-	358,-	484,-	548,-	714,-	888,-	1.032,-
	Miniature-Kvs-values 0,1-0,16-0,25-0,4-0,63 (only equal percentage)	145,-	145,-	145,-								
	Pressure balanced plug max. 200 °C					566,-	661,-	661,-	856,-	1.226,-	1.585,-	2.534,-
	Hard facing seat and plug [3)]	592,-	592,-	592,-	649,-	711,-	819,-	968,-	1.123,-	1.421,-	1.963,-	2.591,-
	Perforated plug (reduced Kvs-values) [3)]	192,-	192,-	192,-	192,-	257,-	257,-	342,-	419,-	532,-	743,-	1.009,-
	V-port-plug							229,-	280,-	357,-	496,-	672,-
	Increased tightness on seat, leakage class IV-S1 [4)]	77,-	77,-	156,-	156,-	156,-	156,-	312,-	389,-	468,-	468,-	468,-
	Type approval (DVGW-GAS) acc.to DIN EN 13611 (EN-JS1049 and 1.0619+N) [5)]	174,-	179,-	185,-	217,-	240,-	274,-	456,-	538,-	730,-	966,-	1.187,-

Air supply pressure: max 6 bar (ARI-DP34Tri: 5 bar) a) 5 bar b) 4,5 bar c) 4 bar d) 3,5 bar e) 3 bar

ARI-STEVI® Pro

Pneumatic actuated control valve in straight through form

Body: 1.0619+N
Type of connection: Butt weld ends DIN EN 12627
Face-to-face dimension: ETE 73 acc. to DIN EN 12982
Trim: X20Cr13+QT (1.4021+QT)
Stem sealing: Spring loaded PTFE-V-ring unit -10 ...+220°C
Further designs up to +450°C acc. to data sheet
Flow characteristic: Equal percentage or linear
Rangeability: 50 : 1
Actuators: ARI-DP single acting pneumatic actuators
Action: Spring closes / opens the seat on air failure

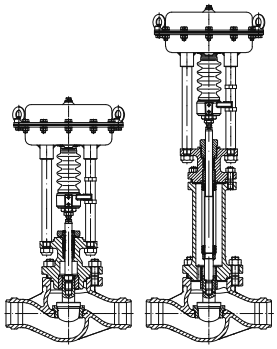


Fig. ...470....4 Fig. ...471....4
ARI-DP

Closing pressures for standard Kvs-values

Nominal diameter						DN	25	40	50	80	100	150
Kvs - values		Standard					10	25	40	100	160	400
		Reduced Miniature Kvs-values see Special design					6,3/4 2,5/1,6/1	16 10	25 16	63 40	100 63	250 160
DP32	Spring closes	0,4-1,2	Air supply press. min. (bar)	1,4	Closing press. (bar)		12,6	3,8	2,1			
	Spring opens			1,4			12,6	3,8	2,1			
				6			40	40	40	22,3	14,1	
Fig. No.	35.470....4	PN40		1.0619+N			2.136,-	2.435,-	2.563,-	3.933,-	4.643,-	
DP33	Spring closes	0,2-1,0	Air supply press. min. (bar)	1,2	Closing press. (bar)		8,8 c)	2,3 a)	1,1 a)			
		0,4-1,2		1,4			23,7 c)	8,3 a)	4,9 a)	1,4		
	Spring opens			1,4			23,7 d)	8,3 d)	4,9 d)	1,4 d)		
				6			40 d)	40 d)	40 a)	36,4	23,2	
Fig. No.	35.470....4	PN40		1.0619+N			2.370,-	2.669,-	2.797,-	4.167,-	4.877,-	
DP34	Spring closes	0,2-1,0	Air supply press. min. (bar)	1,2	Closing press. (bar)			8,3 e)	5 e)	1,5		
		0,4-1,2		1,4				20,4 d)	12,7 d)	4,5	2,7	1
	Spring opens			1,4				20,4 e)	12,7 e)	4,5	2,7	1
				6				40 e)	40 e)	40	40	21,2
Fig. No.	35.470....4	PN40		1.0619+N				3.573,-	3.701,-	5.071,-	5.781,-	10.379,-
DP34T	Spring closes	0,2-1,0	Air supply press. min. (bar)	1,5	Closing press. (bar)							
		0,4-1,2		1,7							1)	2,5
	Spring opens			1,5								3,4
				6								40
Fig. No.	35.470....4	PN40		1.0619+N								13.255,-
DP34Tri	Spring closes	0,2-1,0	Air supply press. min. (bar)	1,5	Closing press. (bar)						1)	1,6 a)
		0,4-1,2		1,7								4,3 a)
Fig. No.	35.470....4	PN40		1.0619+N								17.543,-
DP35	Spring closes	1,8-3,8	Air supply press. min. (bar)	4,3	Closing press. (bar)							40
	Spring opens			1,5							1)	8,7 b)
				4								40 b)
Fig. No.	35.470....4	PN40		1.0619+N								on request

Additional performance for further closing pressures / additional performance

Fig. 470/471 - ARI-DP

Action: Spring closes the seat on air failure

Closing pressures for standard Kvs-values

Nominal diameter							DN	25	40	50	80	100	150
Kvs - values					Standard			10	25	40	100	160	400
					Reduced			6,3/4 2,5/1,6/1	16 10	25 16	63 40	100 63	250 160
DP32	Spring range (bar)	0,8-2,4	Air supply pressure min. (bar)	2,7	Closing press.	bar		31,4	11,3	6,9	2,2	1,2	
					Add. performance			37,-	37,-	37,-	37,-	37,-	
		1,5-2,9		3,2	Closing press.	bar		40					
					Add. performance			50,-					
		2,0-3,8		4,1	Closing press.	bar							
					Add. performance								
DP33		0,8-2,4		2,7	Closing press.	bar		40 a)	20,2	12,6	4,5	2,7	
					Add. performance			65,-	65,-	65,-	65,-	65,-	
		(1,7-2,7) 1,5-3,0		(3,1) 3,3	Closing press.	bar			40	26,1	9,8	6,1	
					Add. performance				69,-	69,-	69,-	69,-	
		2,0-4,0		4,5	Closing press.	bar				35,7	13,6	8,5	
					Add. performance					140,-	140,-	140,-	
DP34		0,8-2,4		2,7	Closing press.	bar			40 b)	28,2 b)	10,6	6,6	2,7
					Add. performance				174,-	174,-	174,-	174,-	174,-
		1,5-3,0 (2,1-3,0)		3,3	Closing press.	bar				(40 a))	(30,5)	(19,4)	5,8
					Add. performance					192,-	192,-	192,-	192,-
		2,0-4,0		4,5	Closing press.	bar							8
					Add. performance								532,-
		2,4-3,6		4,0	Closing press.	bar					35,1	22,4	
					Add. performance						532,-	532,-	
DP34 T		0,8-2,4		2,9	Closing press. 1)	bar							6
					Add. performance								228,-
		1,5-3,0		3,5	Closing press. 1)	bar							12,2
					Add. performance								386,-
		2,0-4,0		4,5	Closing press. 1)	bar							16,6
					Add. performance								1.068,-
DP34Tri		0,8-2,4		2,9	Closing press. 1)	bar							9,5
					Add. performance								296,-
		1,5-3,0		3,5	Closing press. 1)	bar							18,8
					Add. performance								417,-
		2,0-4,0		4,5	Closing press. 1)	bar							25,4
					Add. performance								1.386,-

Additional performance for special design and accessories of actuators see pages 54 to 58

Special flange drillings by agreement (refer to page 220)

1) DN150 with PTFE or graphite packing

2) Available from Kvs 1,0 upwards

3) Closing pressures on request

Special design						
Stem-/bellows unit Fig. 35.471	801,-	836,-	836,-	934,-	996,-	1.192,-
Trim X6CrNiMoTi17-12-2 (1.4571)	166,-	241,-	267,-	530,-	962,-	1.612,-
Parabol. plug with PTFE-soft seal max. 200 °C 2)	328,-	340,-	358,-	548,-	714,-	1.032,-
Miniature-Kvs-values 0,1-0,16-0,25-0,4-0,63 (only equal percentage)	145,-					
Pressure balanced plug max. 200 °C		566,-	661,-	856,-	1.226,-	2.534,-
Hard facing seat and plug 2)	592,-	711,-	819,-	1.123,-	1.421,-	2.591,-
Perforated plug (reduced Kvs-values) 2)	192,-	257,-	257,-	419,-	532,-	1.009,-
V-port-plug				280,-	357,-	672,-
Shoed ends	on request					
Increased tightness on seat, leakage class IV-S1 3)	156,-	156,-	156,-	389,-	468,-	468,-

Air supply pressure: max 6 bar (ARI-DP34Tri: 5 bar) a) 5 bar b) 4,5 bar c) 4 bar d) 3,5 bar e) 3 bar

ARI-STEVI® Pro

Electric actuated control valve in straight through form

DVGW-GAS type approval on request 4)

Body: EN-JS1049 / 1.0619+N / 1.4581

Trim: Body in EN-JS1049 / 1.0619+N: X20Cr13+QT (1.4021+QT)
Body in 1.4581: X6CrNiMoTi17-12-2 (1.4571)

Stem sealing: Spring loaded PTFE-V-ring unit -10 ...+220 °C
Further designs up to +450°C acc. to data sheet

Flow characteristic: Equal percentage or linear

Rangeability: 50 : 1

Actuators: ARI-PREMIO®
Optional: ARI-PREMIO®-Plus 2G

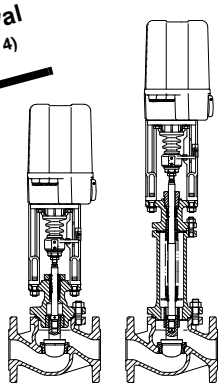


Fig. ...470....1 Fig. ...471....1
ARI-PREMIO®

Closing pressures for standard Kvs-values

Nominal diameter				DN	15	20	25	32	40	50	65	80	100	125	150
Kvs - values		Standard			4	6,3	10	16	25	40	63	100	160	250	400
		Reduced Miniature Kvs-values see Special design			2,5/1,6/1	4/2,5/1,6/1	6,3/4/2,5/1,6/1	10 6,3	16 10	25 16	40 25	63 40	100 63	160 100	250 160
PREMIO® 2,2 kN (230V)		Closing pressure		bar	40	40	35,9	21,6	13,2	8,1	4,5	2,7	1,5		
		Operating time		s	53	53	53	53	79	79	79	79	79		
Fig. No.	23.470....1	PN16/25	EN-JS1049		2.193,-	2.225,-	2.247,-	2.419,-	2.455,-	2.514,-	3.285,-	3.573,-	4.478,-		
	35.470....1	PN25/40	1.0619+N		2.465,-	2.487,-	2.524,-	2.746,-	2.823,-	2.951,-	3.907,-	4.321,-	5.031,-		
	55.470....1	PN40	1.4581		2.960,-	3.016,-	3.082,-	3.455,-	3.890,-	4.248,-	5.585,-	6.573,-	8.726,-		
PREMIO® 5 kN (100-240V)		Closing pressure		bar			40	40	34,6	21,9	12,7	8,2	5	3,1	2
		Operating time		s			53	53	79	79	79	79	79	132	132
Fig. No.	23.470....1	PN16/25	EN-JS1049				2.542,-	2.714,-	2.750,-	2.809,-	3.580,-	3.868,-	4.773,-	6.773,-	8.096,-
	35.470....1	PN25/40	1.0619+N				2.819,-	3.041,-	3.118,-	3.246,-	4.202,-	4.616,-	5.326,-	8.438,-	10.242,-
	55.470....1	PN40	1.4581				3.377,-	3.750,-	4.185,-	4.543,-	5.880,-	6.868,-	9.021,-	10.824,-	13.777,-
PREMIO® 12 kN (100-240V)		Closing pressure		bar					40	40	33,3	21,8	13,8	8,7	5,9
		Operating time		s					79	79	79	79	79	132	132
Fig. No.	23.470....1	PN16/25	EN-JS1049						3.272,-	3.331,-	4.102,-	4.390,-	5.295,-	7.295,-	8.618,-
	35.470....1	PN25/40	1.0619+N						3.640,-	3.768,-	4.724,-	5.138,-	5.848,-	8.960,-	10.764,-
	55.470....1	PN40	1.4581						4.707,-	5.065,-	6.402,-	7.390,-	9.543,-	11.346,-	14.299,-
PREMIO® 15 kN (100-240V)		Closing pressure		bar							40	27,7	17,6	11,1	7,6
		Operating time		s							79	79	79	132	132
Fig. No.	23.470....1	PN16/25	EN-JS1049								4.314,-	4.602,-	5.507,-	7.507,-	8.830,-
	35.470....1	PN25/40	1.0619+N								4.936,-	5.350,-	6.060,-	9.172,-	10.976,-
	55.470....1	PN40	1.4581								6.614,-	7.602,-	9.755,-	11.558,-	14.511,-
PREMIO® 25 kN (100-240V)		Closing pressure		bar								40	30,1	19,2	13,2
		Operating time		s								79	79	132	132
Fig. No.	23.470....1	PN16/25	EN-JS1049									5.456,-	6.361,-	8.361,-	9.684,-
	35.470....1	PN25/40	1.0619+N									6.204,-	6.914,-	10.026,-	11.830,-
	55.470....1	PN40	1.4581									8.456,-	10.609,-	12.412,-	15.365,-

Special design					Additional performance										
Nominal diameter				DN	15	20	25	32	40	50	65	80	100	125	150
Stem-/bellows unit Fig. 23./35.471					714,-	714,-	801,-	801,-	836,-	836,-	860,-	934,-	996,-	1.094,-	1.192,-
Stem-/bellows unit Fig. 55.471					830,-	830,-	926,-	926,-	1.014,-	1.014,-	1.304,-	1.706,-	1.931,-	2.651,-	2.651,-
Trim X6CrNiMoTi17-12-2 (1.4571) 1)					123,-	152,-	166,-	191,-	241,-	267,-	423,-	530,-	962,-	1.298,-	1.612,-
Parabolic plug with PTFE-soft seal max. 200 °C 2)					328,-	328,-	328,-	328,-	340,-	358,-	484,-	548,-	714,-	888,-	1.032,-
Miniature-Kvs-values 0,1-0,16-0,25-0,4-0,63 (only equal percentage)					145,-	145,-	145,-								
Pressure balanced plug max. 200 °C									566,-	661,-	661,-	856,-	1.226,-	1.585,-	2.534,-
Hard facing seat and plug 2)					592,-	592,-	592,-	649,-	711,-	819,-	968,-	1.123,-	1.421,-	1.963,-	2.591,-
Perforated plug (reduced Kvs-value) 2)					192,-	192,-	192,-	192,-	257,-	257,-	342,-	419,-	532,-	743,-	1.009,-
V-port-plug											229,-	280,-	357,-	496,-	672,-
Increased tightness on seat, leakage class IV-S1 3)					77,-	77,-	156,-	156,-	156,-	156,-	312,-	389,-	468,-	468,-	468,-
Type approval (DVGW-GAS) acc.to DIN EN 13611 (EN-JS1049 and 1.0619+N) 4)					174,-	179,-	185,-	217,-	240,-	274,-	456,-	538,-	730,-	966,-	1.187,-

Supply voltages, add. performance for special design and accessories of actuators - see page 60 and 61

Larger nominal diameters on page 23

Special flange drillings by agreement (refer to page 220)

1) Standard for body in 1.4581

2) Available from Kvs 1,0 upwards.

3) DN15-100: Closing pressures see extra data sheet
DN125-150: Closing pressures on request

4) Design acc. to data sheet ARI-STEVI® 470-G / 471-G

ARI-STEVI® Pro

Electric actuated control valve in straight through form

Body: 1.0619+N
Type of connection: Butt weld ends DIN EN 12627
Face-to-face dimension: ETE 73 acc. to DIN EN 12982
Trim: X20Cr13+QT (1.4021+QT)
Stem sealing: Spring loaded PTFE-V-ring unit -10 ...+220 °C
Further designs up to +450°C acc. to data sheet
Flow characteristic: Equal percentage or linear
Rangeability: 50 : 1
Actuators: ARI-PREMIO®
Optional: ARI-PREMIO®-Plus 2G

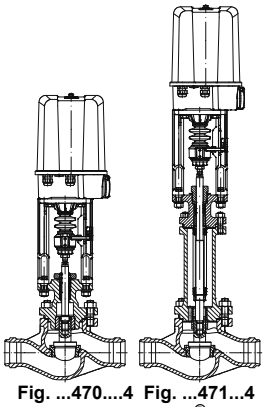


Fig. ...470....4 Fig. ...471...4
ARI-PREMIO®

Closing pressures for standard Kvs-values

Nominal diameter				**DN**	**25**	**40**	**50**	**80**	**100**	**150**
Kvs - values	**Standard**				**10**	**25**	**40**	**100**	**160**	**400**
	Reduced Miniature Kvs-values see Special design				**6,3/4/2,5/1,6/1**	**16 10**	**25 16**	**63 40**	**100 63**	**250 160**
PREMIO® 2,2 kN (230V)	Closing pressure			bar	35,9	13,2	8,1	2,7	1,5	
	Operating time			s	53	79	79	79	79	
Fig. No. 35.470....4	PN40		1.0619+N		2.524,-	2.823,-	2.951,-	4.321,-	5.031,-	
PREMIO® 5 kN (100-240V)	Closing pressure			bar	40	34,6	21,9	8,2	5	2
	Operating time			s	53	79	79	79	79	132
Fig. No. 35.470....4	PN40		1.0619+N		2.819,-	3.118,-	3.246,-	4.616,-	5.326,-	9.924,-
PREMIO® 12 kN (100-240V)	Closing pressure			bar		40	40	21,8	13,8	5,9
	Operating time			s		79	79	79	79	132
Fig. No. 35.470....4	PN40		1.0619+N			3.640,-	3.768,-	5.138,-	5.848,-	10.446,-
PREMIO® 15 kN (100-240V)	Closing pressure			bar				27,7	17,6	7,6
	Operating time			s				79	79	132
Fig. No. 35.470....4	PN40		1.0619+N					5.350,-	6.060,-	15.906,-
PREMIO® 25 kN (100-240V)	Closing pressure			bar				40	30,1	13,2
	Operating time			s				79	79	132
Fig. No. 35.470....4	PN40		1.0619+N					6.204,-	6.914,-	11.512,-
Special design					**Additional performance**					
Nominal diameter				**DN**	**25**	**40**	**50**	**80**	**100**	**150**
Stem-/bellows unit Fig. 35.471					801,-	836,-	836,-	934,-	996,-	1.192,-
Trim X6CrNiMoTi17-12-2 (1.4571)					166,-	241,-	267,-	530,-	962,-	1.612,-
Parabolic plug with PTFE-soft seal max. 200 °C [1]					328,-	340,-	358,-	548,-	714,-	1.032,-
Miniature-Kvs-values 0,1-0,16-0,25-0,4-0,63 (only equal percentage)					145,-					
Pressure balanced plug max. 200 °C						566,-	661,-	856,-	1.226,-	2.534,-
Hard facing seat and plug [1]					592,-	711,-	819,-	1.123,-	1.421,-	2.591,-
Perforated plug (reduced Kvs-value) [1]					192,-	257,-	257,-	419,-	532,-	1.009,-
V-port-plug								280,-	357,-	672,-
Shoes ends					on request					
Increased tightness on seat, leakage class IV-S1 [2]					156,-	156,-	156,-	389,-	468,-	468,-

Supply voltages, add. performance for special design and accessories of actuators - see page 60 and 61

Special flange drillings by agreement (refer to page 220)

[1] Available from Kvs 1,0 upwards

[2] Closing pressures on request

ARI-STEVI® Pro

Electric actuated control valve with fail-safe function

Body: EN-JS1049 / 1.0619+N / 1.4581

Trim: Body in EN-JS1049 / 1.0619+N: X20Cr13+QT (1.4021+QT)
Body in 1.4581: X6CrNiMoTi17-12-2 (1.4571)

Stem sealing: Spring loaded PTFE-V-ring unit -10 ...+220 °C
Further designs up to +450°C acc. to data sheet

Flow characteristic: Equal percentage or linear

Rangeability: 50 : 1

Actuators: ARI-PREMIO®**-Plus 2G** with fail-safe function
Actuator stem drives out on power failure

Closing pressures for standard Kvs-values

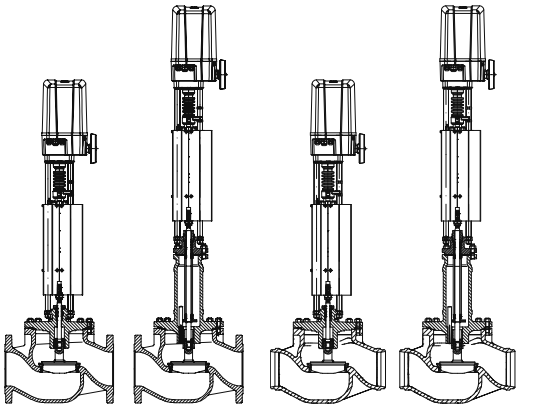


Fig. ...470....1 **Fig. ...471....1** **Fig. ...470....4** [1] **Fig. ...471....4** [1]
ARI-PREMIO®-Plus 2G

Nominal diameter				**DN**	**40**	**50**	**65**	**80**	**100**	**125**	**150**
Kvs - values		**Standard**			**25**	**40**	**63**	**100**	**160**	**250**	**400**
		Reduced			**16 10**	**25 16**	**40 25**	**63 40**	**100 63**	**160 100**	**250 160**
PREMIO®-Plus 2G 9 kN (100-240V)		Closing pressure		bar	40	40	24,5	16	10,1	6,3	4,3
		Operating time		s	79	79	79	79	79	132	132
		Operating time on power failure		s	1	1	1	1	1	1	1
Fig. No.	23.470....1	PN16/25	EN-JS1049		8.242,-	8.304,-	8.562,-	8.849,-	9.756,-	11.910,-	13.265,-
	35.470....1	PN25/40	1.0619+N		8.609,-	8.739,-	9.183,-	9.602,-	10.307,-	13.421,-	15.222,-
	35.470....4	PN40	1.0619+N		9.100,-	9.228,-		10.598,-	11.308,-		15.906,-
	55.470....1	PN40	1.4581		9.647,-	10.526,-	11.971,-	12.850,-	15.003,-	16.806,-	19.759,-

Special design	**Additional performance**						
Nominal diameter **DN**	**40**	**50**	**65**	**80**	**100**	**125**	**150**
Stem-/bellows unit Fig. 23./35.471	836,-	836,-	860,-	934,-	996,-	1.094,-	1.192,-
Stem-/bellows unit Fig. 55.471	1.014,-	1.014,-	1.304,-	1.706,-	1.931,-	2.651,-	2.651,-
Trim X6CrNiMoTi17-12-2 (1.4571) [2]	241,-	267,-	423,-	530,-	962,-	1.298,-	1.612,-
Parabolic plug with PTFE-soft seal max. 200 °C	340,-	358,-	484,-	548,-	714,-	888,-	1.032,-
Pressure balanced plug max. 200 °C	566,-	661,-	661,-	856,-	1.226,-	1.585,-	2.534,-
Hard facing seat and plug	711,-	819,-	968,-	1.123,-	1.421,-	1.963,-	2.591,-
Perforated plug (reduced Kvs-value)	257,-	257,-	342,-	419,-	532,-	743,-	1.009,-
V-port-plug			229,-	280,-	357,-	496,-	672,-
Shoed ends (for Fig. 470/471....4)	on request						

Supply voltages, add. performance for special design and accessories of actuators - see page 62

Larger nominal diameters on page 23

Special flange drillings by agreement (refer to page 220)

[1] Butt weld ends acc. to DIN EN 12627 (Face-to-face dimension ETE 73 acc. to DIN EN 12982)

[2] Standard for body in 1.4581

ARI-STEVI® Pro

Electric actuated control valve in straight through form

DVGW-GAS type approval on request [5]

Body: EN-JS1049 / 1.0619+N / 1.4581

Trim: Body in EN-JS1049 / 1.0619+N: X20Cr13+QT (1.4021+QT)
Body in 1.4581: X6CrNiMoTi17-12-2 (1.4571)

Stem sealing: Spring loaded PTFE-V-ring unit -10 ...+220 °C
Further designs up to +450°C acc. to data sheet

Flow characteristic: Equal percentage or linear

Rangeability: 50 : 1

Actuators: AUMA

Supply voltage: 400V 50Hz 3~ Protection class: IP 68

Closing pressures for standard Kvs-values

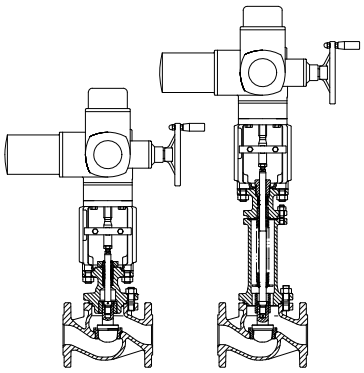


Fig. ...470 ....1 Fig. ...471....1
AUMA

Nominal diameter					DN	25	32	40	50	65	80	100	125	150
Kvs - values		Standard				10	16	25	40	63	100	160	250	400
		Reduced				--	10	16 10	25 16	40 25	63 40	100 63	160 100	250 160
AUMA SAR 07.2		Closing pressure	Shut off	bar		40	40	40	40	40	30,4	19,4		
			Control	bar		40	40	40	37,1	21,7	14,2	8,9		
		Operating time		s		54	54	56	56	56	56	56		
Fig. No.	23.470....1	PN16/25	EN-JS1049			5.387,-	5.559,-	5.595,-	5.654,-	6.425,-	6.713,-	7.618,-		
	35.470....1	PN25/40	1.0619+N			5.664,-	5.886,-	5.963,-	6.091,-	7.047,-	7.461,-	8.171,-		
	55.470....1	PN40	1.4581			6.222,-	6.595,-	7.030,-	7.388,-	8.725,-	9.713,-	11.866,-		
AUMA SAR 07.6		Closing pressure	Shut off	bar					40	40	40	27,4	17,3	11,9
			Control	bar					40	31,2	20,4	12,9	8	5,5
		Operating time		s					64	64	64	64	55	55
Fig. No.	23.470....1	PN16/25	EN-JS1049						5.799,-	6.570,-	6.858,-	7.763,-	9.763,-	11.086,-
	35.470....1	PN25/40	1.0619+N						6.236,-	7.192,-	7.606,-	8.316,-	11.428,-	13.232,-
	55.470....1	PN40	1.4581						7.533,-	8.870,-	9.858,-	12.011,-	13.814,-	16.767,-
AUMA SAR 10.2		Closing pressure	Shut off	bar							40	40	26,6	18,4
			Control	bar							40	27,4	17,3	11,9
		Operating time		s							64	64	55	55
Fig. No.	23.470....1	PN16/25	EN-JS1049								8.076,-	8.981,-	10.981,-	12.304,-
	35.470....1	PN25/40	1.0619+N								8.824,-	9.534,-	12.646,-	14.450,-
	55.470....1	PN40	1.4581								11.076,-	13.229,-	15.032,-	17.985,-
AUMA SAR 14.2		Closing pressure [1]	Shut off	bar									40	40
			Control	bar									28,9	20
		Operating time		s									45	45
Fig. No.	23.470....1	PN16/25	EN-JS1049										13.691,-	15.014,-
	35.470....1	PN25/40	1.0619+N										15.356,-	17.160,-
	55.470....1	PN40	1.4581										17.742,-	20.695,-
AUMA SAR 14.6 with LE100.1		Closing pressure [1]	Shut off	bar									40	40
			Control	bar									40	27,7
		Operating time		s									54	54
Fig. No.	23.470....1	PN16/25	EN-JS1049										16.407,-	17.733,-
	35.470....1	PN25/40	1.0619+N										17.879,-	19.634,-
	55.470....1	PN40	1.4581										20.196,-	23.065,-

Add. performance for special design and accessories of actuators - see page 64

Larger nominal diameters on page 23

Special flange drillings by agreement (refer to page 220)

[1] DN125 and 150 with PTFE or graphite packing

[2] Standard for body in 1.4581

[3] Available from Kvs 1,0 upwards

[4] DN15-100: Closing pressures see extra data sheet
DN125-150: Closing pressures on request

[5] Design acc. to data sheet ARI-STEVI® 470-G / 471-G

Special design	Additional performance								
Nominal diameter DN	25	32	40	50	65	80	100	125	150
Stem-/bellows unit Fig. 23./35.471	801,-	801,-	836,-	836,-	860,-	934,-	996,-	1.094,-	1.192,-
Stem-/bellows unit Fig. 55.471	926,-	926,-	1.014,-	1.014,-	1.304,-	1.706,-	1.931,-	2.651,-	2.651,-
Trim X6CrNiMoTi17-12-2 (1.4571) [2]	166,-	191,-	241,-	267,-	423,-	530,-	962,-	1.298,-	1.612,-
Parabolic plug with PTFE-soft seal max. 200 °C [3]	328,-	328,-	340,-	358,-	484,-	548,-	714,-	888,-	1.032,-
Pressure balanced plug max. 200 °C			566,-	661,-	661,-	856,-	1.226,-	1.585,-	2.534,-
Hard facing seat and plug [3]	592,-	649,-	711,-	819,-	968,-	1.123,-	1.421,-	1.963,-	2.591,-
Perforated plug (reduced Kvs-values) [3]	192,-	192,-	257,-	257,-	342,-	419,-	532,-	743,-	1.009,-
V-port plug					229,-	280,-	357,-	496,-	672,-
Increased tightness on seat, leakage class IV-S1 [4]	156,-	156,-	156,-	156,-	312,-	389,-	468,-	468,-	468,-
Type approval (DVGW-GAS) acc.to DIN EN 13611 (EN-JS1049 and 1.0619+N) [5]	185,-	217,-	240,-	274,-	456,-	538,-	730,-	966,-	1.187,-

ARI-STEVI® Pro

Electric actuated control valve in straight through form

Body: 1.0619+N
Type of connection: Butt weld ends DIN EN 12627
Face-to-face dimension: ETE 73 acc. to DIN EN 12982
Trim: X20Cr13+QT (1.4021+QT)
Stem sealing: Spring loaded PTFE-V-ring unit -10 ...+220 °C
Further designs up to +450°C acc. to data sheet
Flow characteristic: Equal percentage or linear
Rangeability: 50 : 1
Actuators: AUMA
Supply voltage: 400V 50Hz 3~ Protection class: IP 68
Closing pressures for standard Kvs-values

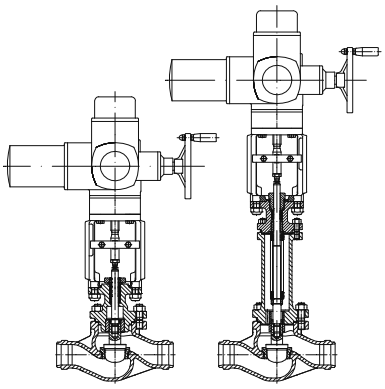


Fig. ...470 ....4 **Fig. ...471....4**
AUMA

Nominal diameter				**DN**	**25**	**40**	**50**	**80**	**100**	**150**
Kvs - values		**Standard**			**10**	**25**	**40**	**100**	**160**	**400**
		Reduced			**--**	**16 10**	**25 16**	**63 40**	**100 63**	**250 160**
AUMA SAR 07.2		Closing pressure	Shut off	bar	40	40	40	30,4	19,4	
			Control	bar	40	40	37,1	14,2	8,9	
		Operating time		s	54	56	56	56	56	
Fig. No.	35.470....4	PN40	1.0619+N		5.664,-	5.963,-	6.091,-	7.461,-	8.171,-	
AUMA SAR 07.6		Closing pressure	Shut off	bar			40	40	27,4	11,9
			Control	bar			40	20,4	12,9	5,5
		Operating time		s			64	64	64	55
Fig. No.	35.470....4	PN40	1.0619+N				6.236,-	7.606,-	8.316,-	12.914,-
AUMA SAR 10.2		Closing pressure	Shut off	bar				40	40	18,4
			Control	bar				40	27,4	11,9
		Operating time		s				64	64	55
Fig. No.	35.470....4	PN40	1.0619+N					8.824,-	9.534,-	14.132,-
AUMA SAR 14.2		Closing pressure [1]	Shut off	bar						40
			Control	bar						20
		Operating time		s						45
Fig. No.	35.470....4	PN40	1.0619+N							16.842,-
AUMA SAR 14.6 mit LE100.1		Closing pressure [1]	Shut off	bar						40
			Control	bar						27,7
		Operating time		s						54
Fig. No.	35.470....4	PN40	1.0619+N							19.883,-

Add. performance for special design and accessories of actuators - see page 64
Special flange drillings by agreement (refer to page 220)
[1] DN150 with PTFE or graphite packing
[2] Available from Kvs 1,0 upwards
[3] Closing pressures on request

Special design	**Additional performance**					
Nominal diameter **DN**	**25**	**40**	**50**	**80**	**100**	**150**
Stem-/bellows unit Fig. 35.471	801,-	836,-	836,-	934,-	996,-	1.192,-
Trim X6CrNiMoTi17-12-2 (1.4571)	166,-	241,-	267,-	530,-	962,-	1.612,-
Parabolic plug with PTFE-soft seal max. 200 °C [2]	328,-	340,-	358,-	548,-	714,-	1.032,-
Pressure balanced plug max. 200 °C		566,-	661,-	856,-	1.226,-	2.534,-
Hard facing seat and plug [2]	592,-	711,-	819,-	1.123,-	1.421,-	2.591,-
Perforated plug (reduced Kvs-values) [2]	192,-	257,-	257,-	419,-	532,-	1.009,-
V-port plug				280,-	357,-	672,-
Shoed ends	on request					
Increased tightness on seat, leakage class IV-S1 [3]	156,-	156,-	156,-	389,-	468,-	468,-

Notes:

ARI-STEVI® Pro

Pneumatic actuated control valve in straight through form ANSI

Body: ASTM SA216 WCB
Trim: AISI 420
Stem sealing: DN25-150: Spring loaded PTFE-V-ring unit -10 ...+220°C
DN200: PTFE-packing -10 ...+250°C
Further designs up to +450°C acc. to data sheet
Flow characteristic: Equal percentage or linear
Rangeability: 50 : 1
Actuators: ARI-DP single acting pneumatic actuators
Action: Spring closes / opens the seat on air failure
Closing pressures for standard Kvs-values

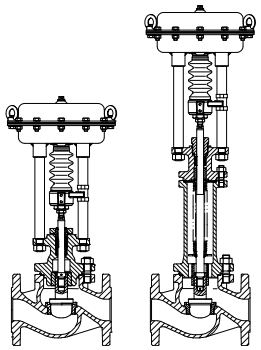


Fig. ...470....1 ANSI ARI-DP **Fig. ...471....1 ANSI**

Nominal diameter							DN	25	40	50	80	100	150	200
							NPS	1"	1 1/2"	2"	3"	4"	6"	8"
Kvs - values			Standard					10	25	40	100	160	400	630
			Reduced Miniature Kvs-values see Special design					6,3 4	16 10	25 16	63 40	100 63	250 160	400 250
DP32		Spring closes	0,4-1,2	Air supply press. min. (bar)	1,4	Closing press. (bar)		12,6	3,8	2,1				
		Spring opens			1,4			12,6	3,8	2,1				
					6			51	51	51	22,3	14,1		
Fig. No.	32.470....1		ANSI150		SA216WCB			1.956,-	2.231,-	2.350,-	3.616,-	4.271,-		
	35.470....1		ANSI300					2.272,-	2.603,-	2.739,-	4.253,-	5.029,-		
DP33		Spring closes	0,2-1,0	Air supply press. min. (bar)	1,2	Closing press. (bar)		8,8 c)	2,3 a)	1,1 a)				
			0,4-1,2		1,4			23,7 c)	8,3 a)	4,9 a)	1,4			
		Spring opens			1,4			23,7 d)	8,3 d)	4,9 d)	1,4 d)			
					6			51 c)	51 a)	51 a)	36,4	23,2		
Fig. No.	32.470....1		ANSI150		SA216WCB			2.190,-	2.465,-	2.584,-	3.850,-	4.505,-		
	35.470....1		ANSI300					2.506,-	2.837,-	2.973,-	4.487,-	5.263,-		
DP34		Spring closes	0,2-1,0	Air supply press. min. (bar)	1,2	Closing press. (bar)			8,3 e)	5 e)	1,5			
			0,4-1,2		1,4				20,4 d)	12,7 d)	4,5	2,7	1	
		Spring opens			1,4				20,4 e)	12,7 e)	4,5	2,7	1	
					6				51 e)	51 e)	51	48	21,2	11,7
Fig. No.	32.470....1		ANSI150		SA216WCB				3.369,-	3.488,-	4.754,-	5.409,-	9.907,-	15.206,-
	35.470....1		ANSI300						3.741,-	3.877,-	5.391,-	6.167,-	11.573,-	17.768,-
DP34T		Spring closes	0,4-1,2	Air supply press. min. (bar)	1,7	Closing press. (bar)						1)	2,5	1,3
		Spring opens			1,5								3,4	1,8
					6								42,9	24,1
Fig. No.	32.470....1		ANSI150		SA216WCB								12.783,-	18.082,-
	35.470....1		ANSI300										14.449,-	20.644,-
DP34Tri		Spring closes	0,2-1,0	Air supply press. min. (bar)	1,5	Closing press. (bar)						1)	1,6 a)	
			0,4-1,2		1,7								4,3 a)	2,3 a)
Fig. No.	32.470....1		ANSI150		SA216WCB								17.071,-	22.370,-
	35.470....1		ANSI300										18.737,-	24.932,-
DP35		Spring closes	1,8-3,8	Air supply press. min. (bar)	4,3	Closing press. (bar)						1)	45,5	23,4
		Spring opens			1,5								8,7 b)	4,1 b)
					4,5								51 b)	30,6 b)
Fig.No.	32.470....1		ANSI150		SA216WCB								on request	
	35.470....1		ANSI300											

Additional performance for further closing pressures / additional performance

Fig. 470/471 ANSI - ARI-DP

Action: Spring closes the seat on air failure

Closing pressures for standard Kvs-values

Nominal diameter							DN	25	40	50	80	100	150	200
							NPS	1"	1 1/2"	2"	3"	4"	6"	8"
Kvs - values				Standard				10	25	40	100	160	400	630
				Reduced				6,3 4	16 10	25 16	63 40	100 63	250 160	400 250
DP32	Spring range (bar)	0,8-2,4	Air supply pressure min. (bar)	2,7	Closing press.	bar		31,4	11,3	6,9	2,2	1,2		
					Add. performance			37,-	37,-	37,-	37,-	37,-		
		1,5-2,9		3,2	Closing press.	bar		51						
					Add. performance			50,-						
DP33		0,8-2,4		2,7	Closing press.	bar		51 a)	20,2	12,6	4,5	2,7		
					Add. performance			65,-	65,-	65,-	65,-	65,-		
		(1,7-2,7) 1,4-2,9		(3,1) 3,3	Closing press.	bar			41,1	26,1	9,8	6,1		
					Add. performance				69,-	69,-	69,-	69,-		
		2,0-4,0		4,5	Closing press.	bar			51	35,7	13,6	8,5		
					Add. performance				140,-	140,-	140,-	140,-		
DP34		0,8-2,4 (1,0-2,0)		2,7 (2,3)	Closing press.	bar			44,4 b)	28,2 b)	10,6	6,6	2,7	(1,8)
					Add. performance				174,-	174,-	174,-	174,-	174,-	174,-
		1,5-3,0 (2,1-3,0)		3,3	Closing press.	bar			(51 a))	(51 a))	(30,5)	(19,4)	5,8	
					Add. performance					192,-	192,-	192,-	192,-	192,-
		2,0-4,0		4,5	Closing press.	bar							8	4,3
					Add. performance								532,-	921,-
		2,4-3,6		4,0	Closing press.	bar					35,1	22,4		
					Add. performance						532,-	532,-		
DP34 T		0,8-2,4 (1,0-2,0)		2,9 (2,5)	Closing press. 1)	bar							6	(4,3)
					Add. performance								228,-	228,-
		1,5-3,0		3,5	Closing press. 1)	bar							12,2	
					Add. performance								417,-	
		2,0-4,0		4,5	Closing press. 1)	bar							16,6	9,2
					Add. performance								1.068,-	1.068,-
DP34 Tri		0,8-2,4		2,9	Closing press. 1)	bar							9,5 a)	5,3 a)
					Add. performance								296,-	296,-
		1,0-2,0		2,5	Closing press. 1)	bar								6,7 a)
					Add. performance									455,-
		1,5-3,0		3,5	Closing press. 1)	bar							18,8 a)	10,5 a)
					Add. performance								417,-	
		2,0-4,0		4,5	Closing press. 1)	bar							25,4 a)	14,2 a)
					Add. performance								1.386,-	1.398,-

Additional performance for special design and accessories of actuators - see pages 54 to 58.

Special flange drillings by agreement (refer to page 220)

1) DN150 with PTFE or graphite packing

2) Available from Kvs 1,0 upwards

3) Closing pressures on request

Special design							
Stem-/bellows unit Fig. 32./35.471	801,-	836,-	836,-	934,-	996,-	1.192,-	1.272,-
Trim SA240Gr.316Ti	166,-	241,-	267,-	530,-	962,-	1.612,-	2.106,-
Parabol. plug with PTFE-soft seal max. 200 °C 2)	328,-	340,-	358,-	548,-	714,-	1.032,-	1.458,-
Miniature-Kvs-values 0,1-0,16-0,25-0,4-0,63 (only equal percentage)	145,-						
Pressure balanced plug max. 200 °C		566,-	661,-	856,-	1.226,-	2.534,-	4.055,-
Hard facing seat and plug 2)	592,-	711,-	819,-	1.123,-	1.421,-	2.591,-	3.894,-
Perforated plug (reduced Kvs-values) 2)	192,-	257,-	257,-	419,-	532,-	1.009,-	1.401,-
V-port-plug				280,-	357,-	672,-	standard
Increased tightness on seat, leakage class IV-S1 3)	156,-	156,-	156,-	389,-	468,-	468,-	545,-

Air supply pressure: max 6 bar (ARI-DP34Tri: 5 bar) a) 5 bar b) 4,5 bar c) 4 bar d) 3,5 bar e) 3 bar

ARI-STEVI® Pro

Pneumatic actuated control valve in straight through form ANSI

Body:	ASTM SA216 WCB
Type of connection:	Butt weld ends ANSI B16.25
Face-to-face dimension:	ANSI ISA-S75.15-1994
Trim:	AISI 420
Stem sealing:	Spring loaded PTFE-V-ring unit -10 ...+220°C Further designs up to +450°C acc. to data sheet
Flow characteristic:	Equal percentage or linear
Rangeability:	50 : 1
Actuators:	ARI-DP single acting pneumatic actuators
Action:	Spring closes / opens the seat on air failure

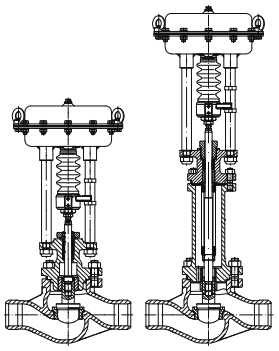


Fig. ...470....4 ANSI ARI-DP **Fig. ...471....4 ANSI**

Closing pressures for standard Kvs-values

Nominal diameter						DN	25	40	50	80	100	150
						NPS	1"	1 1/2"	2"	3"	4"	6"
Kvs - values			Standard				10	25	40	100	160	400
			Reduced Miniature Kvs-values see Special design				6,3 4	16 10	25 16	63 40	100 63	250 160
DP32	Spring closes	0,4-1,2	Air supply press. min. (bar)	1,4	Closing press. (bar)		12,6	3,8	2,1			
	Spring opens			1,4			12,6	3,8	2,1			
				6			51	51	51	22,3	14,1	
Fig. No.	35.470....4		ANSI300		SA216WCB		2.136,-	2.435,-	2.563,-	3.933,-	4.643,-	
DP33	Spring closes	0,2-1,0	Air supply press. min. (bar)	1,2	Closing press. (bar)		8,8 c)	2,3 a)	1,1 a)			
		0,4-1,2		1,4			23,7 c)	8,3 a)	4,9 a)	1,4		
	Spring opens			1,4			23,7 d)	8,3 d)	4,9 d)	1,4 d)		
				6			51 c)	51 a)	51 a)	36,4	23,2	
Fig. No.	35.470....4		ANSI300		SA216WCB		2.370,-	2.669,-	2.797,-	4.167,-	4.877,-	
DP34	Spring closes	0,2-1,0	Air supply press. min. (bar)	1,2	Closing press. (bar)			8,3 e)	5 e)	1,5		
		0,4-1,2		1,4				20,4 d)	12,7 d)	4,5	2,7	1
	Spring opens			1,4				20,4 e)	12,7 e)	4,5	2,7	1
				6				51 e)	51 e)	51	48	21,2
Fig. No.	35.470....4		ANSI300		SA216WCB			3.573,-	3.701,-	5.071,-	5.781,-	10.379,-
DP34T	Spring closes	0,4-1,2	Air supply press. min. (bar)	1,7	Closing press. (bar)						1)	2,5
	Spring opens			1,5								3,4
				6								42,9
Fig. No.	35.470....4		ANSI300		SA216WCB							13.255,-
DP34Tri	Spring closes	0,2-1,0	Air supply press. min. (bar)	1,5	Closing press. (bar)						1)	1,6 a)
		0,4-1,2		1,7								4,3 a)
Fig. No.	35.470....4		ANSI300		SA216WCB							17.543,-
DP35	Spring closes	1,8-3,8	Air supply press. min. (bar)	4,3	Closing press. (bar)						1)	45,5
	Spring opens			1,5								8,7 b)
				4,5								51 b)
Fig.No.	35.470....4		ANSI300		SA216WCB							on request

Additional performance for further closing pressures / additional performance

Fig. 470/471 ANSI - ARI-DP

Action: Spring closes the seat on air failure

Closing pressures for standard Kvs-values

Nominal diameter							DN	25	40	50	80	100	150
							NPS	1"	1 1/2"	2"	3"	4"	6"
Kvs - values					Standard			10	25	40	100	160	400
					Reduced			6,3 4	16 10	25 16	63 40	100 63	250 160
DP32	Spring range (bar)	0,8-2,4	Air supply pressure min. (bar)	2,7	Closing press.	bar		31,4	11,3	6,9	2,2	1,2	
					Add. performance			37,-	37,-	37,-	37,-	37,-	
		1,5-2,9		3,2	Closing press.	bar		51					
					Add. performance			50,-					
DP33		0,8-2,4		2,7	Closing press.	bar		51 a)	20,2	12,6	4,5	2,7	
					Add. performance			65,-	65,-	65,-	65,-	65,-	
		(1,7-2,7) 1,4-2,9		(3,1) 3,3	Closing press.	bar			41,1	26,1	9,8	6,1	
					Add. performance				69,-	69,-	69,-	69,-	
		2,0-4,0		4,5	Closing press.	bar			51	35,7	13,6	8,5	
					Add. performance				140,-	140,-	140,-	140,-	
DP34		0,8-2,4 (1,0-2,0)		2,7 (2,3)	Closing press.	bar			44,4 b)	28,2 b)	10,6	6,6	2,7
					Add. performance				174,-	174,-	174,-	174,-	174,-
		1,5-3,0 (2,1-3,0)		3,3	Closing press.	bar			(51 a))	(51 a))	(30,5)	(19,4)	5,8
					Add. performance					192,-	192,-	192,-	192,-
		2,0-4,0		4,5	Closing press.	bar							8
					Add. performance								532,-
		2,4-3,6		4,0	Closing press.	bar					35,1	22,4	
					Add. performance						532,-	532,-	
DP34 T		0,8-2,4 (1,0-2,0)		2,9 (2,5)	Closing press.1)	bar							6
					Add. performance								228,-
		1,5-3,0		3,5	Closing press.1)	bar							12,2
					Add. performance								417,-
		2,0-4,0		4,5	Closing press.1)	bar							16,6
					Add. performance								1.068,-
DP34 Tri		0,8-2,4		2,9	Closing press.1)	bar							9,5 a)
					Add. performance								296,-
		1,0-2,0		2,5	Closing press.1)	bar							
					Add. performance								
		1,5-3,0		3,5	Closing press.1)	bar							18,8 a)
					Add. performance								417,-
		2,0-4,0		4,5	Closing press.1)	bar							25,4 a)
					Add. performance								1.386,-

Additional performance for special design and accessories of actuators - see pages 54 to 58.

Special flange drillings by agreement (refer to page 220)

1) DN150 with PTFE or graphite packing

2) Available from Kvs 1,0 upwards

3) Closing pressures on request

Special design						
Stem-/bellows unit Fig. 35.471	801,-	836,-	836,-	934,-	996,-	1.192,-
Trim SA240Gr.316Ti	166,-	241,-	267,-	530,-	962,-	1.612,-
Parabol. plug with PTFE-soft seal max. 200 °C 2)	328,-	340,-	358,-	548,-	714,-	1.032,-
Miniature-Kvs-values 0,1-0,16-0,25-0,4-0,63 (only equal percentage)	145,-					
Pressure balanced plug max. 200 °C		566,-	661,-	856,-	1.226,-	2.534,-
Hard facing seat and plug 2)	592,-	711,-	819,-	1.123,-	1.421,-	2.591,-
Perforated plug (reduced Kvs-values) 2)	192,-	257,-	257,-	419,-	532,-	1.009,-
V-port-plug				280,-	357,-	672,-
Shoed ends	on request					
Increased tightness on seat, leakage class IV-S1 3)	156,-	156,-	156,-	389,-	468,-	468,-

Air supply pressure: max 6 bar (ARI-DP34Tri: 5 bar) a) 5 bar b) 4,5 bar c) 4 bar d) 3,5 bar e) 3 bar

ARI-STEVI® Pro

Electric actuated control valve in straight through form ANSI

Body: ASTM SA216 WCB

Trim: AISI 420

Stem sealing: DN25-150: Spring loaded PTFE-V-ring unit -10 ...+220 °C
DN200: PTFE-packing -10 ...+250 °C
Further designs up to +450°C acc. to data sheet

Flow characteristic: Equal percentage or linear

Rangeability: 50 : 1

Actuators: ARI-PREMIO®
Optional: ARI-PREMIO®-Plus 2G

Closing pressures for standard Kvs-values

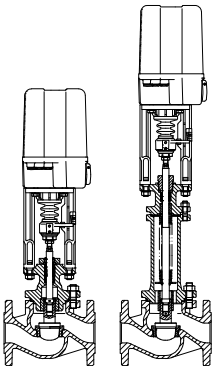


Fig. ...470....1 ANSI Fig. ...471....1 ANSI
ARI-PREMIO®

Nominal diameter				DN	25	40	50	80	100	150	200
				NPS	1"	1 1/2"	2"	3"	4"	6"	8"
Kvs - values		Standard			10	25	40	100	160	400	630
		Reduced Miniature Kvs-values see Special design			6,3 4	16 10	25 16	63 40	100 63	250 160	400 250
PREMIO® 2,2 kN (230V)		Closing pressure		bar	35,9	13,2	8,1	2,7	1,5		
		Operating time		s	53	79	79	79	79		
Fig.No.	32.470....1	ANSI150	SA216WCB		2.344,-	2.619,-	2.738,-	4.004,-	4.659,-		
	35.470....1	ANSI300			2.660,-	2.991,-	3.127,-	4.641,-	5.417,-		
PREMIO® 5 kN (100-240V)		Closing pressure		bar	51	34,6	21,9	8,2	5	2	
		Operating time		s	53	79	79	79	79	132	
Fig.No.	32.470....1	ANSI150	SA216WCB		2.639,-	2.914,-	3.033,-	4.299,-	4.954,-	9.452,-	
	35.470....1	ANSI300			2.955,-	3.286,-	3.422,-	4.936,-	5.712,-	11.118,-	
PREMIO® 12 kN (100-240V)		Closing pressure [1]		bar		51	51	21,8	13,8	5,9	3,1
		Operating time		s		79	79	79	79	132	171
Fig.No.	32.470....1	ANSI150	SA216WCB			3.436,-	3.555,-	4.821,-	5.476,-	9.974,-	15.273,-
	35.470....1	ANSI300				3.808,-	3.944,-	5.458,-	6.234,-	11.640,-	17.835,-
PREMIO® 15 kN (100-240V)		Closing pressure [1]		bar				27,7	17,6	7,6	4
		Operating time		s				79	79	132	171
Fig.No.	32.470....1	ANSI150	SA216WCB					5.033,-	5.688,-	10.186,-	15.485,-
	35.470....1	ANSI300						5.670,-	6.446,-	11.852,-	18.047,-
PREMIO® 25 kN (100-240V)		Closing pressure [1]		bar				40	30,1	19,2	7,3
		Operating time		s				79	79	132	171
Fig.No.	32.470....1	ANSI150	SA216WCB					5.887,-	6.542,-	11.040,-	16.339,-
	35.470....1	ANSI300						6.524,-	7.300,-	12.706,-	18.901,-

Special design	Additional performance						
Nominal diameter DN	25	40	50	80	100	150	200
NPS	1"	1 1/2"	2"	3"	4"	6"	8"
Stem-/bellows unit Fig. 32./35.471	801,-	836,-	836,-	934,-	996,-	1.192,-	1.272,-
Trim AISI 316 Ti	166,-	241,-	267,-	530,-	962,-	1.612,-	2.106,-
Parabolic plug with PTFE-soft seal max. 200 °C [1]	328,-	340,-	358,-	548,-	714,-	1.032,-	1.458,-
Miniature-Kvs-values 0,1-0,16-0,25-0,4-0,63 (only equal percentage)	145,-						
Pressure balanced plug max. 200 °C		566,-	661,-	856,-	1.226,-	2.534,-	4.055,-
Hard facing seat and plug [1]	592,-	711,-	819,-	1.123,-	1.421,-	2.591,-	3.894,-
Perforated plug (reduced Kvs-value) [1]	192,-	257,-	257,-	419,-	532,-	1.009,-	1.401,-
V-port-plug				280,-	357,-	672,-	standard
Ring-Joint-Facing	on request						
Increased tightness on seat, leakage class IV-S1 [2]	156,-	156,-	156,-	389,-	468,-	468,-	545,-

Supply voltages, add. performance for special design and accessories of actuators - see page 60 and 61

Special flange drillings by agreement (refer to page 220)

[1] Available from Kvs 1,0 upwards

[2] Closing pressures on request

ARI-STEVI® Pro

Electric actuated control valve in straight through form ANSI

Body: ASTM SA216 WCB
Type of connection: Butt weld ends ANSI B16.25
Face-to-face dimension: ANSI ISA-S75.15-1994
Trim: AISI 420
Stem sealing: Spring loaded PTFE-V-ring unit -10 ...+220 °C
Further designs up to +450°C acc. to data sheet
Flow characteristic: Equal percentage or linear
Rangeability: 50 : 1
Actuators: ARI-PREMIO®
Optional: ARI-PREMIO®-Plus 2G

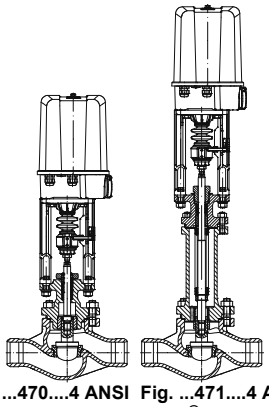


Fig. ...470....4 ANSI Fig. ...471....4 ANSI ARI-PREMIO®

Closing pressures for standard Kvs-values

Nominal diameter				**DN**	**25**	**40**	**50**	**80**	**100**	**150**
				NPS	**1"**	**1 1/2"**	**2"**	**3"**	**4"**	**6"**
Kvs - values		**Standard**			**10**	**25**	**40**	**100**	**160**	**400**
		Reduced Miniature Kvs-values see Special design			**6,3 4**	**16 10**	**25 16**	**63 40**	**100 63**	**250 160**
PREMIO® 2,2 kN (230V)		Closing pressure		bar	35,9	13,2	8,1	2,7	1,5	
		Operating time		s	53	79	79	79	79	
Fig.No.	35.470....4	ANSI300	SA216WCB		2.524,-	2.823,-	2.951,-	4.321,-	5.031,-	
PREMIO® 5 kN (100-240V)		Closing pressure		bar	51	34,6	21,9	8,2	5	2
		Operating time		s	53	79	79	79	79	132
Fig.No.	35.470....4	ANSI300	SA216WCB		2.819,-	3.118,-	3.246,-	4.616,-	5.326,-	9.924,-
PREMIO® 12 kN (100-240V)		Closing pressure [1]		bar		51	51	21,8	13,8	5,9
		Operating time		s		79	79	79	79	132
Fig.No.	35.470....4	ANSI300	SA216WCB			3.640,-	3.768,-	5.138,-	5.848,-	10.446,-
PREMIO® 15 kN (100-240V)		Closing pressure [1]		bar				27,7	17,6	7,6
		Operating time		s				79	79	132
Fig.No.	35.470....4	ANSI300	SA216WCB					5.350,-	6.060,-	10.658,-
PREMIO® 25 kN (100-240V)		Closing pressure [1]		bar				40	30,1	19,2
		Operating time		s				79	79	132
Fig.No.	35.470....4	ANSI300	SA216WCB					6.204,-	6.914,-	11.512,-

Special design	**Additional performance**					
Nominal diameter **DN**	**25**	**40**	**50**	**80**	**100**	**150**
NPS	**1"**	**1 1/2"**	**2"**	**3"**	**4"**	**6"**
Stem-/bellows unit Fig. 35.471	801,-	836,-	836,-	934,-	996,-	1.192,-
Trim AISI 316 Ti	166,-	241,-	267,-	530,-	962,-	1.612,-
Parabolic plug with PTFE-soft seal max. 200 °C [1]	328,-	340,-	358,-	548,-	714,-	1.032,-
Miniature-Kvs-values 0,1-0,16-0,25-0,4-0,63 (only equal percentage)	145,-					
Pressure balanced plug max. 200 °C		566,-	661,-	856,-	1.226,-	2.534,-
Hard facing seat and plug [1]	592,-	711,-	819,-	1.123,-	1.421,-	2.591,-
Perforated plug (reduced Kvs-value) [1]	192,-	257,-	257,-	419,-	532,-	1.009,-
V-port-plug				280,-	357,-	672,-
Ring-Joint-Facing	on request					
Shoed ends	on request					
Increased tightness on seat, leakage class IV-S1 [2]	156,-	156,-	156,-	389,-	468,-	468,-

Supply voltages, add. performance for special design and accessories of actuators - see page 60 and 61

Special flange drillings by agreement (refer to page 220)

[1] Available from Kvs 1,0 upwards

[2] Closing pressures on request

ARI-STEVI® Pro

Electric actuated control valve in straight through form ANSI

Body: ASTM SA216 WCB
Trim: AISI 420
Stem sealing: DN25-150: Spring loaded PTFE-V-ring unit -10 ...+220 °C
DN200: PTFE-packing unit -10 ...+250 °C
Further designs up to +450°C acc. to data sheet
Flow characteristic: Equal percentage or linear
Rangeability: 50 : 1
Actuators: AUMA
Supply voltage: 400V 50Hz 3~ Protection class: IP 68
Closing pressures for standard Kvs-values

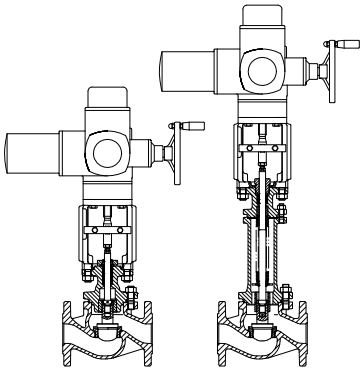


Fig. ...470....1 ANSI AUMA Fig. ...471....1 ANSI AUMA

Nominal diameter				DN	25	40	50	80	100	150	200
				NPS	1"	1 1/2"	2"	3"	4"	6"	8"
Kvs - values		Standard			10	25	40	100	160	400	630
		Reduced			--	16 10	25 16	63 40	100 63	250 160	400 250
AUMA SAR 07.2		Closing pressure	Shut off	bar	51	51	51	30,6	19,4		
			Control	bar	51	51	37,6	14,3	9		
		Operating time		s	54	56	56	56	56		
Fig.No.	32.470....1	ANSI150	SA216WCB		5.484,-	5.759,-	5.878,-	7.144,-	7.799,-		
	35.470....1	ANSI300			5.800,-	6.131,-	6.267,-	7.781,-	8.557,-		
AUMA SAR 07.6		Closing pressure	Shut off	bar			51	43,1	27,5	12	6,6
			Control	bar			51	20,6	13	5,6	2,9
		Operating time		s			64	64	64	55	71
Fig.No.	32.470....1	ANSI150	SA216WCB				6.023,-	7.289,-	7.944,-	12.442,-	17.741,-
	35.470....1	ANSI300					6.412,-	7.926,-	8.702,-	14.108,-	20.303,-
AUMA SAR 10.2		Closing pressure	Shut off	bar				51	41,8	18,5	13,9
			Control	bar				43,1	27,5	12	6,6
		Operating time		s				64	64	55	71
Fig.No.	32.470....1	ANSI150	SA216WCB					8.507,-	9.162,-	13.660,-	18.959,-
	35.470....1	ANSI300						9.144,-	9.920,-	15.326,-	21.521,-
AUMA SAR 14.2		Closing pressure [1]	Shut off	bar						42,7	24
			Control	bar						20	11,1
		Operating time		s						63	59
Fig.No.	32.470....1	ANSI150	SA216WCB							16.370,-	21.669,-
	35.470....1	ANSI300								18.036,-	24.231,-
AUMA SAR 14.6 with LE100.1		Closing pressure [1]	Shut off	bar						51	31,7
			Control	bar						27,7	15,5
		Operating time		s						54	51
Fig.No.	32.470....1	ANSI150	SA216WCB								23.863,-
	35.470....1	ANSI300								21.126,-	27.059,-

Add. performance for special design and accessories of actuators - see page 64

Special flange drillings by agreement (refer to page 220)

[1] DN150 with PTFE or graphite packing

[2] Available from Kvs 1,0

[3] Closing pressures on request

Special design	Additional performance						
Nominal diameter DN	25	40	50	80	100	150	200
NPS	1"	1 1/2"	2"	3"	4"	6"	8"
Stem-/bellows unit Fig. 32./35.471	801,-	836,-	836,-	934,-	996,-	1.192,-	1.272,-
Trim AISI 316 Ti	166,-	241,-	267,-	530,-	962,-	1.612,-	2.106,-
Parabolic plug with PTFE-soft seal max. 200 °C [2]	328,-	340,-	358,-	548,-	714,-	1.032,-	1.458,-
Pressure balanced plug max. 200 °C		566,-	661,-	856,-	1.226,-	2.534,-	4.055,-
Hard facing seat and plug [2]	592,-	711,-	819,-	1.123,-	1.421,-	2.591,-	3.894,-
Perforated plug (reduced Kvs-values) [2]	192,-	257,-	257,-	419,-	532,-	1.009,-	1.401,-
V-port plug				280,-	357,-	672,-	standard
Ring-Joint-Facing	on request						
Increased tightness on seat, leakage class IV-S1 [3]	156,-	156,-	156,-	389,-	468,-	468,-	545,-

ARI-STEVI® Pro

Electric actuated control valve in straight through form ANSI

Body: ASTM SA216 WCB
Type of connection: Butt weld ends ANSI B16.25
Face-to-face dimension: ANSI ISA-S75.15-1994
Trim: AISI 420
Stem sealing: Spring loaded PTFE-V-ring unit -10 ...+220 °C
Further designs up to +450°C acc. to data sheet
Flow characteristic: Equal percentage or linear
Rangeability: 50 : 1
Actuators: AUMA
Supply voltage: 400V 50Hz 3~ Protection class: IP 68
Closing pressures for standard Kvs-values

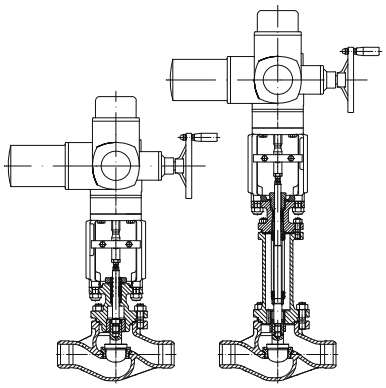


Fig. ...470....4 ANSI AUMA **Fig. ...471....4 ANSI AUMA**

Nominal diameter				**DN**	**25**	**40**	**50**	**80**	**100**	**150**
				NPS	**1"**	**1 1/2"**	**2"**	**3"**	**4"**	**6"**
Kvs - values		**Standard**			**10**	**25**	**40**	**100**	**160**	**400**
		Reduced			**--**	**16 10**	**25 16**	**63 40**	**100 63**	**250 160**
AUMA SAR 07.2		Closing pressure	Shut off	bar	51	51	51	30,6	19,4	
			Control	bar	51	51	37,6	14,3	9	
		Operating time		s	54	56	56	56	56	
Fig.No.	35.470....4	ANSI300	SA216WCB		5.664,-	5.963,-	6.091,-	7.461,-	8.171,-	
AUMA SAR 07.6		Closing pressure	Shut off	bar			51	43,1	27,5	12
			Control	bar			51	20,6	13	5,6
		Operating time		s			64	64	64	55
Fig.No.	35.470....4	ANSI300	SA216WCB				6.236,-	7.606,-	8.316,-	12.914,-
AUMA SAR 10.2		Closing pressure	Shut off	bar				51	41,8	18,5
			Control	bar				43,1	27,5	12
		Operating time		s				64	64	55
Fig.No.	35.470....4	ANSI300	SA216WCB					8.824,-	9.534,-	14.132,-
AUMA SAR 14.2		Closing pressure [1]	Shut off	bar						42,7
			Control	bar						20
		Operating time		s						63
Fig.No.	35.470....4	ANSI300	SA216WCB							16.842,-
AUMA SAR 14.6 with LE100.1		Closing pressure [1]	Shut off	bar						51
			Control	bar						27,7
		Operating time		s						54
Fig.No.	35.470....4	ANSI300	SA216WCB							19.883,-

Add. performance for special design and accessories of actuators - see page 64

Special flange drillings by agreement (refer to page 220)

[1] DN150 with PTFE or graphite packing

[2] Available from Kvs 1,0

[3] Closing pressures on request

Special design	**Additional performance**					
Nominal diameter **DN**	**25**	**40**	**50**	**80**	**100**	**150**
NPS	**1"**	**1 1/2"**	**2"**	**3"**	**4"**	**6"**
Stem-/bellows unit Fig. 35.471	801,-	836,-	836,-	934,-	996,-	1.192,-
Trim AISI 316 Ti	166,-	241,-	267,-	530,-	962,-	1.612,-
Parabolic plug with PTFE-soft seal max. 200 °C [2]	328,-	340,-	358,-	548,-	714,-	1.032,-
Pressure balanced plug max. 200 °C		566,-	661,-	856,-	1.226,-	2.534,-
Hard facing seat and plug [2]	592,-	711,-	819,-	1.123,-	1.421,-	2.591,-
Perforated plug (reduced Kvs-values) [2]	192,-	257,-	257,-	419,-	532,-	1.009,-
V-port plug				280,-	357,-	672,-
Ring-Joint-Facing	on request					
Shoed ends	on request					
Increased tightness on seat, leakage class IV-S1 [3]	156,-	156,-	156,-	389,-	468,-	468,-

ARI-STEVI® Pro

Pneumatic actuated control valve in straight through form

DVGW-GAS type approval on request [1)]

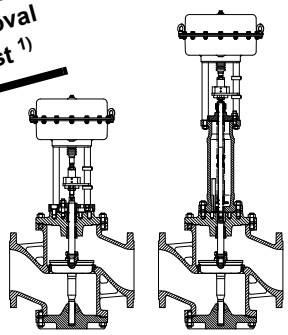


Fig. ...422 Fig. ...462
ARI-DP

Body: EN-JL1040 / EN-JS1049 / 1.0619+N
Trim: X20Cr13+QT (1.4021+QT)
Stem sealing: PTFE packing -10 ...+250 °C
Further designs up to +450°C acc. to data sheet
Flow characteristic: Equal percentage or linear
Rangeability: 30 : 1
Actuators: ARI-DP single acting pneumatic actuators
Action: Spring closes / opens the seat on air failure

Closing pressures for standard Kvs-values

Nominal diameter							DN	200	250
Kvs - values							Standard	630	1000
							Reduced	400 250	630 400
DP34		Spring opens		Air supply press. min. (bar)	6	Closing press (bar)		11,7	7,4
Fig. No.	12.422		PN16		EN-JL1040			9.372,-	13.845,-
	22.422		PN16		EN-JS1049			11.312,-	16.943,-
	35.422		PN25/40		1.0619+N			16.325,-	24.970,-
DP34T		Spring closes	0,4-1,2	Air supply press. min. (bar)	1,7	Closing press (bar)		1,3 [b)]	
		Spring opens			1,5			1,8 [b)]	
					4			14,2 [b)]	9 [b)]
Fig. No.	12.422		PN16		EN-JL1040			12.248,-	16.721,-
	22.422		PN16		EN-JS1049			14.188,-	19.819,-
	35.422		PN25/40		1.0619+N			19.201,-	27.846,-
DP34Tri		Spring closes	0,4-1,2	Air supply press. min. (bar)	1,7	Closing press (bar)		2,3 [d)]	1,4 [d)]
Fig. No.	12.422		PN16		EN-JL1040			16.536,-	21.009,-
	22.422		PN16		EN-JS1049			18.476,-	24.107,-
	35.422		PN25/40		1.0619+N			23.489,-	32.134,-
DP35		Spring closes	1,8 - 3,8	Air supply press. min. (bar)	4,3	Closing press (bar)		23,3	14,8
		Spring opens			1,5			4,1 [b)]	2,5 [b)]
					4			26,1 [b)]	16,7 [b)]
Fig. No.	12.422		PN16		EN-JL1040			on request	
	22.422		PN16		EN-JS1049				
	35.422		PN25/40		1.0619+N				
Special design								Add. performance	
Nominal diameter							DN	200	250
Stem-/bellows unit Fig. 22./35.462								1.326,-	2.351,-
Trim X6CrNiMoTi17-12-2 (1.4571)								2.106,-	3.147,-
Parabolic plug with PTFE-soft seal max. 200 °C								1.458,-	2.051,-
Pressure balanced plug max. 200 °C								4.055,-	6.489,-
Hard facing seat and plug								3.894,-	4.960,-
Perforated plug (only reduced Kvs-value)								1.401,-	1.880,-
Type approval (DVGW-GAS) acc.to DIN EN 13611 (EN-JS1049 and 1.0619+N) [1)]								1.352,-	1.424,-

Additional performance for further closing pressures

Mode of operation: **Spring closes** on air failure

Nominal diameter							DN	200	250
Kvs - values							Standard	630	1000
							Reduced	400 250	630 400
DP34	Spring range (bar)	1,0-2,0	Air supply press. min. (bar)	2,3	Closing press.	bar		1,8	1,1
					Add. performance			174,-	174,-
		2,0-4,0		4,5	Closing press.	bar		4,3	2,7
					Add. performance			921,-	921,-
DP34T		1,0-2,0		2,5	Closing press.	bar		4,3 [a)]	2,6 [a)]
					Add. performance			348,-	348,-
		2,0-4,0		4,5	Closing press.	bar		9,2	5,8
					Add. performance			1.839,-	1.839,-
DP34Tri		1,0-2,0		2,5	Closing press.	bar		6,7 [b)]	4,2 [b)]
					Add. performance			455,-	455,-
		2,0-4,0		4,5	Closing press.	bar		14,2 [a)]	9 [a)]
					Add. performance			1.398,-	1.398,-

Additional performance for special design and accessories of actuators - see pages 54 to 58

Larger nominal diameters on page 38.

Special flange drillings by agreement (refer to page 220)

[1)] Design acc. to data sheet ARI-STEVI® 422-G / 462-G

Air supply pressure max. 6 bar (ARI-DP34Tri: 5 bar)
a) 5 bar
b) 4,5 bar
c) 4 bar
d) 3,5 bar
e) 3 bar
f) 2,5 bar

ARI-STEVI® Pro

DVGW-GAS type approval on request [1)]

Electric actuated control valve in straight through form

Body: EN-JL1040 / EN-JS1049 / 1.0619+N
Trim: X20Cr13+QT (1.4021+QT)
Stem sealing: PTFE packing -10 ...+250 °C
Further designs up to +450°C acc. to data sheet
Flow characteristic: Equal percentage or linear
Rangeability: 30 : 1

Actuators: ARI-PREMIO®
Optional: ARI-PREMIO®-Plus 2G

Actuators: AUMA
Supply voltage: 400V 50Hz 3~ Protection class: IP68

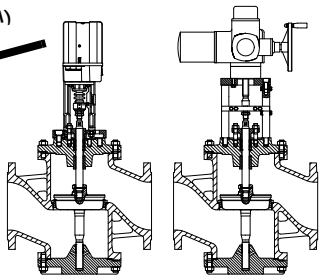


Fig. 422 ARI-PREMIO®

Fig. 422 AUMA

Closing pressures for standard Kvs-values

Nominal diameter					DN	200	250
Kvs - values			Standard			630	1000
			Reduced			400 250	630 400
PREMIO® 12 kN (100-240V)		Closing pressure			bar	3,1	1,9
		Operating time			s	171	171
Fig. No.	12.422	PN16	EN-JL1040			9.439,-	13.912,-
	22.422	PN16	EN-JS1049			11.379,-	17.010,-
	35.422	PN25/40	1.0619+N			16.392,-	25.037,-
PREMIO® 15 kN (100-240V)		Closing pressure			bar	4	2,5
		Operating time			s	171	171
Fig. No.	12.422	PN16	EN-JL1040			9.651,-	14.124,-
	22.422	PN16	EN-JS1049			11.591,-	17.222,-
	35.422	PN25/40	1.0619+N			16.604,-	25.249,-
PREMIO® 25 kN (100-240V)		Closing pressure			bar	7,2	4,5
		Operating time			s	171	171
Fig. No.	12.422	PN16	EN-JL1040			10.505,-	14.978,-
	22.422	PN16	EN-JS1049			12.445,-	18.076,-
	35.422	PN25/40	1.0619+N			17.458,-	26.103,-
AUMA SAR 07.6		Closing pressure		shut off	bar	6,6	4,1
				control	bar	2,9	1,8
		Operating time			s	71	71
Fig. No.	12.422	PN16	EN-JL1040			11.907,-	16.380,-
	22.422	PN16	EN-JS1049			13.847,-	19.478,-
	35.422	PN25/40	1.0619+N			18.860,-	27.505,-
AUMA SAR 10.2		Closing pressure		shut off	bar	13,9	8,8
				control	bar	6,6	4,1
		Operating time			s	71	71
Fig. No.	12.422	PN16	EN-JL1040			13.125,-	17.598,-
	22.422	PN16	EN-JS1049			15.065,-	20.696,-
	35.422	PN25/40	1.0619+N			20.078,-	28.723,-
AUMA SAR 14.2		Closing pressure		shut off	bar	23,9	15,3
				control	bar	11,1	7,1
		Operating time			s	59	59
Fig. No.	12.422	PN16	EN-JL1040			15.835,-	20.308,-
	22.422	PN16	EN-JS1049			17.775,-	23.406,-
	35.422	PN25/40	1.0619+N			22.788,-	31.433,-
AUMA SAR 14.6 with LE100.1		Closing pressure		shut off	bar	31,6	20,2
				control	bar	15,5	9,8
		Operating time			s	70	70
Fig. No.	12.422	PN16	EN-JL1040			18.345,-	22.691,-
	22.422	PN16	EN-JS1049			20.229,-	25.703,-
	35.422	PN25/40	1.0619+N			25.104,-	33.508,-

Special design		Additional performance	
Nominal diameter	DN	200	250
Stem-/bellows unit Fig.22./35.462		1.326,-	2.351,-
Trim X6CrNiMoTi17-12-2 (1.4571)		2.106,-	3.147,-
Parabolic plug with PTFE-soft seal max. 200 °C		1.458,-	2.051,-
Pressure balanced plug max. 200 °C		4.055,-	6.489,-
Hard facing seat and plug		3.894,-	4.960,-
Perforated plug (only with reduced Kvs-value)		1.401,-	1.880,-
Type approval (DVGW-GAS) acc.to DIN EN 13611 (EN-JS1049 and 1.0619+N) [1)]		1.352,-	1.424,-

Supply voltages, additional performance for special design and accessories of actuators - see pages 60, 61 and 64

Larger nominal diameters on page 39.

Special flange drillings by agreement (refer to page 220)

[1)] Design acc. to data sheet ARI-STEVI® 422-G / 462-G

ARI-STEVI® Vario

Pneumatic actuated control valve in straight through form

Body: EN-JL1040 / EN-JS1049 / 1.0619+N / 1.4408

Trim: Body in EN-JL1040 / EN-JS1049 / 1.0619+N: X20Cr13+QT (1.4021+QT)
Body in 1.4408: X6CrNiMoTi17-12-2 (1.4571)

Stem sealing: Spring loaded PTFE-V-ring unit -10 ...+220°C
EPDM-sealing -10 ...+150 °C (for water and steam up to 180°C)
Optional: stainless steel bellow (-60) -10 ...+400°C

Flow characteristic: Equal percentage or linear

Rangeability: 50 : 1

Actuators: ARI-DP single acting pneumatic actuators

Action: Spring closes / opens the seat on air failure

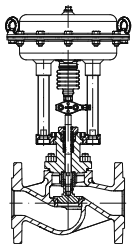


Fig. ...448

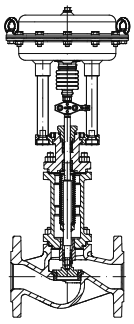


Fig. ...449
ARI-DP

Closing pressures for standard Kvs-values

Nominal diameter					DN	15	20	25	32	40	50	65	80	100
Kvs - values		Standard				4	6,3	10	16	25	40	63	100	160
		Reduced Miniature Kvs-values see Special design				2,5/1,6 1	4/2,5 1,6/1	6,3/4 2,5/1,6/1	10/6,3/4 2,5/1,6/1	16/10 6,3	25/16 10	40/25 16	63/40 25	100/63 40
DP30	Spring closes	Air supply press. min.	4	Closing press. (bar)		40	40	40	Closing pressures see data sheet. Only reduced Kvs-values possible					
	Spring opens		2			33	18	8						
			3			40	40	28						
			4			40	40	40						
Fig. No. 12.448		PN16	EN-JL1040			1.227,-	1.236,-	1.243,-	1.348,-	1.397,-	1.458,-			
Fig. No. 25.448		PN16/25/40	EN-JS1049			1.445,-	1.472,-	1.483,-	1.612,-	1.684,-	1.760,-			
Fig. No. 35.448		PN16/25/40	1.0619+N			1.485,-	1.515,-	1.558,-	1.801,-	1.878,-	2.121,-			
Fig. No. 55.448		PN16/25/40	1.4408			2.094,-	2.177,-	2.230,-	2.584,-	2.769,-	3.092,-			
DP32	Spring closes	Air supply press. min.	4	Closing press. (bar)					40	40	28	Closing pressures see data sheet. Only reduced Kvs-values possible		
	Spring opens		2						23 c)	14 c)	9 c)			
			3						40 c)	36 c)	23 c)			
			4						40 c)	40 c)	38 c)			
Fig. No. 12.448		PN16	EN-JL1040						1.460,-	1.508,-	1.569,-	2.024,-	2.332,-	3.197,-
Fig. No. 25.448		PN16/25/40	EN-JS1049						1.723,-	1.796,-	1.871,-			
Fig. No. 23.448		PN16/25	EN-JS1049									2.390,-	2.709,-	3.698,-
Fig. No. 35.448		PN16/25/40	1.0619+N						1.912,-	1.990,-	2.232,-	2.768,-	3.461,-	4.024,-
Fig. No. 55.448		PN16/25/40	1.4408						2.696,-	2.880,-	3.203,-	4.402,-	5.735,-	7.690,-
DP33	Spring closes	Air supply press. min. (bar)	4	Closing press. (bar)								25	16	8
	Spring opens		2									11 a)	7 a)	3 a)
			3									26 a)	17 a)	9 a)
			4									40 a)	26 a)	14 a)
			5									40 a)	36 a)	19 a)
Fig. No. 12.448		PN16	EN-JL1040									2.312,-	2.621,-	3.486,-
Fig. No. 23.448		PN16/25	EN-JS1049									2.679,-	2.999,-	3.988,-
Fig. No. 35.448		PN16/25/40	1.0619+N									3.056,-	3.750,-	4.313,-
Fig. No. 55.448		PN16/25/40	1.4408									4.692,-	6.024,-	7.980,-
DP34	Spring closes	Air supply press. min. (bar)	4	Closing press.(bar)								40	32	17
Fig. No. 12.448		PN16	EN-JL1040									3.263,-	3.571,-	4.436,-
Fig. No. 23.448		PN16/25	EN-JS1049									3.628,-	3.950,-	4.937,-
Fig. No. 35.448		PN16/25/40	1.0619+N									4.007,-	4.700,-	5.263,-
Fig. No. 55.448		PN16/25/40	1.4408									5.641,-	6.974,-	8.931,-

Special design					DN	15	20	25	32	40	50	65	80	100
Nominal diameter						Additional performance								
Stem-/bellows unit Fig. 23./35.449						423,-	423,-	474,-	474,-	515,-	515,-	617,-	743,-	812,-
Stem-/bellows unit Fig. 55.449						474,-	474,-	474,-	474,-	593,-	639,-	819,-	1.443,-	1.549,-
Trim X6CrNiMoTi17-12-2 (1.4571) 1) 4)						109,-	138,-	151,-	178,-	218,-	246,-	365,-	429,-	480,-
Parabol. plug with PTFE-soft seal max. 200 °C						161,-	161,-	161,-	161,-	171,-	183,-	218,-	251,-	286,-
Miniature-Kvs-values 0,1-0,16-0,25-0,4-0,63						145,-	145,-	145,-						
Hard facing seat and plug 2) 4)						548,-	548,-	548,-	573,-	617,-	778,-	836,-	903,-	971,-
Perforated plug (reduced Kvs-values) 2)						143,-	143,-	143,-	143,-	151,-	161,-	171,-	200,-	218,-
Increased tightness on seat, leakage class IV-S1 3)						77,-	77,-	156,-	156,-	156,-	156,-	312,-	389,-	468,-

Air supply pressure: max 6 bar a) 5 bar b) 4,5 bar c) 4 bar d) 3,5 bar e) 3 bar

Additional performance for special design and accessories of actuators see pages 54 to 58

Special flange drillings by agreement (refer to page 220)

1) Standard for body in 1.4408

2) Available from Kvs 1,0 upwards

3) Closing pressures see extra data sheet

4) Not possible for 12.448/449

ARI-STEVI® Vario

Electric actuated control valve in straight through form

Body: EN-JL1040 / EN-JS1049 / 1.0619+N / 1.4408
Trim: Body in EN-JL1040 / EN-JS1049 / 1.0619+N: X20Cr13+QT (1.4021+QT)
Body in 1.4408: X6CrNiMoTi17-12-2 (1.4571)
Stem sealing: Spring loaded PTFE-V-ring unit -10 ...+220°C
EPDM-sealing -10 ...+150 °C (for water and steam up to 180°C)
Optional: stainless steel bellow (-60) -10 ...+400°C
Flow characteristic: Equal percentage or linear
Rangeability: 50 : 1
Actuators: ARI-PREMIO®-**Plus 2G**
Closing pressures for standard Kvs-values

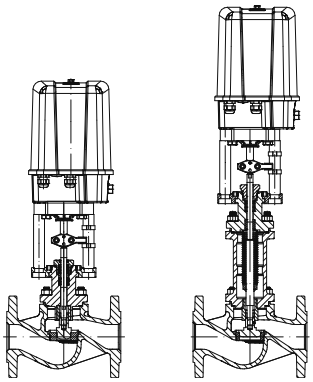


Fig. ...448 **Fig. ...449**
ARI-PREMIO®-Plus 2G

Nominal diameter				**DN**	**15**	**20**	**25**	**32**	**40**	**50**	**65**	**80**	**100**
Kvs - values		**Standard**			**4**	**6,3**	**10**	**16**	**25**	**40**	**63**	**100**	**160**
		Reduced Miniature Kvs-values see Special design			**2,5/1,6/ 1**	**4/2,5 1,6/1**	**6,3/4 2,5/1,6/1**	**10/6,3/4 2,5/1,6/1**	**16/10 6,3**	**25/16 10**	**40/25 16**	**63/40 25**	**100/63 40**
PREMIO®-Plus 2G 2,2 kN (100-240V)		Closing pressure		bar	40	40	40	28	17	11			
		Operating time		s	40	40	40	60	60	60			
Fig. No.	12.448	PN16	EN-JL1040		2.304,-	2.315,-	2.322,-	2.425,-	2.475,-	2.534,-			
	25.448	PN16/25/40	EN-JS1049		2.523,-	2.551,-	2.562,-	2.690,-	2.761,-	2.838,-			
	35.448	PN16/25/40	1.0619+N		2.564,-	2.593,-	2.636,-	2.879,-	2.957,-	3.200,-			
	55.448	PN16/25/40	1.4408		3.170,-	3.256,-	3.309,-	3.662,-	3.880,-	4.170,-			
PREMIO®-Plus 2G 5 kN (100-240V)		Closing pressure		bar				40	40	30	17	10	5
		Operating time		s				60	60	60	53	66	79
Fig. No.	12.448	PN16	EN-JL1040					2.466,-	2.514,-	2.574,-	3.029,-	3.338,-	4.203,-
	25.448	PN16/25/40	EN-JS1049					2.730,-	2.801,-	2.876,-			
	23.448	PN16/25	EN-JS1049								3.395,-	3.716,-	4.704,-
	35.448	PN16/25/40	1.0619+N					2.918,-	2.996,-	3.238,-	3.774,-	4.467,-	5.030,-
	55.448	PN16/25/40	1.4408					3.700,-	3.885,-	4.209,-	5.408,-	6.741,-	8.697,-
PREMIO®-Plus 2G 15 kN (100-240V)		Closing pressure		bar							40	36	19
		Operating time		s							53	66	79
Fig. No.	12.448	PN16	EN-JL1040								3.937,-	4.246,-	5.110,-
	23.448	PN16/25	EN-JS1049								4.304,-	4.624,-	5.613,-
	35.448	PN16/25/40	1.0619+N								4.681,-	5.375,-	5.937,-
	55.448	PN16/25/40	1.4408								6.317,-	7.649,-	9.605,-

Special design	**Additional performance**								
Nominal diameter **DN**	**15**	**20**	**25**	**32**	**40**	**50**	**65**	**80**	**100**
Stem-/bellows unit Fig. 23./35.449	423,-	423,-	474,-	474,-	515,-	515,-	617,-	743,-	812,-
Stem-/bellows unit Fig. 55.449	474,-	474,-	474,-	474,-	593,-	639,-	819,-	1.443,-	1.549,-
Trim X6CrNiMoTi17-12-2 (1.4571) [1) 4)]	109,-	138,-	151,-	178,-	218,-	246,-	365,-	429,-	480,-
Parabol. plug with PTFE-soft seal max. 200 °C	161,-	161,-	161,-	161,-	171,-	183,-	218,-	251,-	286,-
Miniature-Kvs-values 0,1-0,16-0,25-0,4-0,63	145,-	145,-	145,-						
Hard facing seat and plug [2) 4)]	548,-	548,-	548,-	573,-	617,-	778,-	836,-	903,-	971,-
Perforated plug (reduced Kvs-values) [2)]	143,-	143,-	143,-	143,-	151,-	161,-	171,-	200,-	218,-
Increased tightness on seat, leakage class IV-S1 [3)]	77,-	77,-	156,-	156,-	156,-	156,-	312,-	389,-	468,-

Supply voltages, additional performance for special design and accessories of actuators - see page 60

Special flange drillings by agreement (refer to page 220)

1) Standard for body in 1.4408
2) Available from Kvs 1,0 upwards.
3) Closing pressures see extra data sheet
4) Not possible for 12.448/449

ARI-STEVI® Vario

Pneumatic actuated control valve in straight through form ANSI

Body: SA216WCB / SA351CF8M

Trim: Body in SA216WCB: SA276Gr.420
Body in SA351CF8M: SA479Gr.316Ti

Stem sealing: Spring loaded PTFE-V-ring unit -10 ...+220°C
EPDM-sealing -10 ...+150 °C (for water and steam up to 180°C)

Flow characteristic: Equal percentage or linear

Rangeability: 50 : 1

Actuators: ARI-DP single acting pneumatic actuators

Action: Spring closes / opens the seat on air failure

NEW! from ARI

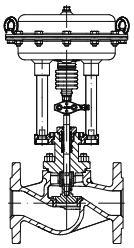


Fig. ...448 ANSI ARI-DP

Closing pressures for standard Kvs-values

Nominal diameter					DN	15	20	25	40	50	65	80	100
					NPS	1/2"	3/4"	1"	1 1/2"	2"	2 1/2"	3"	4"
Kvs - values		Standard				4	6,3	10	25	40	63	100	160
		Reduced Miniature Kvs-values see Special design				2,5/1,6 1	4/2,5 1,6/1	6,3/4 2,5/1,6/1	16/10 6,3	25/16 10	40/25 16	63/40 25	100/63 40
DP30	Spring closes	Air supply press. min. (bar)	4	Closing press. (bar)		19,6	19,6	19,6	Closing pressures see data sheet. Only reduced Kvs-values possible				
	Spring opens		2			19,6	18	8					
			3			19,6	19,6	19,6					
Fig. No. 32.448	ANSI150		SA216WCB			1.485,-	1.515,-	1.558,-	1.878,-	2.121,-			
Fig. No. 52.448	ANSI150		SA351CF8M			2.094,-	2.177,-	2.230,-	2.769,-	3.092,-			
DP32	Spring closes	Air supply press. min. (bar)	4	Closing press. (bar)					19,6	19,6	Closing pressures see data sheet. Only reduced Kvs-values possible		
	Spring opens		2						14 c)	9 c)			
			3						19,6 c)	19,6 c)			
Fig. No. 32.448	ANSI150		SA216WCB						1.990,-	2.232,-	2.768,-	3.461,-	4.024,-
Fig. No. 52.448	ANSI150		SA351CF8M						2.880,-	3.203,-	4.402,-	5.735,-	7.690,-
DP33	Spring closes	Air supply press. min. (bar)	4	Closing press. (bar)							19,6	16	8
	Spring opens		2								11 a)	7 a)	3 a)
			3								19,6 a)	17 a)	9 a)
			4									19,6 a)	14 a)
			5										19 a)
Fig. No. 32.448	ANSI150		SA216WCB								3.056,-	3.750,-	4.313,-
Fig. No. 52.448	ANSI150		SA351CF8M								4.692,-	6.024,-	7.980,-
DP34	Spring closes	Air supply press. min. (bar)	4	Closing press.(bar)								19,6	17
Fig. No. 32.448	ANSI150		SA216WCB									4.700,-	5.263,-
Fig. No. 52.448	ANSI150		SA351CF8M									6.974,-	8.931,-

Special design	Additional performance							
Nominal diameter DN	15	20	25	40	50	65	80	100
NPS	1/2"	3/4"	1"	1 1/2"	2"	2 1/2"	3"	4"
Trim SA479Gr.316Ti 1)	109,-	138,-	151,-	218,-	246,-	365,-	429,-	480,-
Parabol. plug with PTFE-soft seal max. 200 °C	161,-	161,-	161,-	171,-	183,-	218,-	251,-	286,-
Miniature-Kvs-values 0,1-0,16-0,25-0,4-0,63	145,-	145,-	145,-					
Hard facing seat and plug 2)	548,-	548,-	548,-	617,-	778,-	836,-	903,-	971,-
Perforated plug (reduced Kvs-values) 2)	143,-	143,-	143,-	151,-	161,-	171,-	200,-	218,-
Increased tightness on seat, leakage class IV-S1 3)	77,-	77,-	156,-	156,-	156,-	312,-	389,-	468,-

Air supply pressure: max 6 bar a) 5 bar b) 4,5 bar c) 4 bar d) 3,5 bar e) 3 bar

Additional performance for special design and accessories of actuators see pages 54 to 58

Special flange drillings by agreement (refer to page 220)

1) Standard for body material SA351CF8M

2) Available from Kvs 1,0 upwards

3) Closing pressures on request

ARI-STEVI® Vario

Electric actuated control valve in straight through form ANSI

Body: SA216WCB / SA351CF8M

Trim: Body in SA216WCB: SA276Gr.420
Body in SA351CF8M: SA479Gr.316Ti

Stem sealing: Spring loaded PTFE-V-ring unit -10 ...+220°C
EPDM-sealing -10 ...+150 °C (for water and steam up to 180°C)

NEW! from ARI

Flow characteristic: Equal percentage or linear

Rangeability: 50 : 1

Actuators: ARI-PREMIO®**-Plus 2G**

Closing pressures for standard Kvs-values

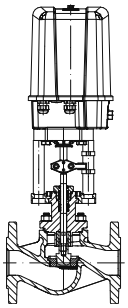


Fig. ...448 ANSI
ARI-PREMIO®-Plus 2G

Nominal diameter				**DN**	**15**	**20**	**25**	**40**	**50**	**65**	**80**	**100**
				NPS	**1/2"**	**3/4"**	**1"**	**1 1/2"**	**2"**	**2 1/2"**	**3"**	**4"**
Kvs - values		**Standard**			**4**	**6,3**	**10**	**25**	**40**	**63**	**100**	**160**
		Reduced Miniature Kvs-values see Special design			**2,5/1,6/ 1**	**4/2,5 1,6/1**	**6,3/4 2,5/1,6/1**	**16/10 6,3**	**25/16 10**	**40/25 16**	**63/40 25**	**100/63 40**
PREMIO®-Plus 2G 2,2 kN (100-240V)		Closing pressure		bar	19,6	19,6	19,6	17	11			
		Operating time		s	40	40	40	60	60			
Fig. No.	32.448	ANSI150	SA216WCB		2.564,-	2.593,-	2.636,-	2.957,-	3.200,-			
	52.448	ANSI150	SA351CF8M		3.170,-	3.256,-	3.309,-	3.880,-	4.170,-			
PREMIO®-Plus 2G 5 kN (100-240V)		Closing pressure		bar				19,6	19,6	17	10	5
		Operating time		s				60	60	53	66	79
Fig. No.	32.448	ANSI150	SA216WCB					2.996,-	3.238,-	3.774,-	4.467,-	5.030,-
	52.448	ANSI150	SA351CF8M					3.885,-	4.209,-	5.408,-	6.741,-	8.697,-
PREMIO®-Plus 2G 15 kN (100-240V)		Closing pressure		bar						19,6	19,6	19
		Operating time		s						53	66	79
Fig. No.	32.448	ANSI150	SA216WCB							4.681,-	5.375,-	5.937,-
	52.448	ANSI150	SA351CF8M							6.317,-	7.649,-	9.605,-

Special design				**Additional performance**							
Nominal diameter	**DN**	**15**	**20**	**25**	**40**	**50**	**65**	**80**	**100**
	NPS	**1/2"**	**3/4"**	**1"**	**1 1/2"**	**2"**	**2 1/2"**	**3"**	**4"**
Trim SA479Gr.316Ti [1]		109,-	138,-	151,-	218,-	246,-	365,-	429,-	480,-
Parabol. plug with PTFE-soft seal max. 200 °C		161,-	161,-	161,-	171,-	183,-	218,-	251,-	286,-
Miniature-Kvs-values 0,1-0,16-0,25-0,4-0,63		145,-	145,-	145,-					
Hard facing seat and plug [2]		548,-	548,-	548,-	617,-	778,-	836,-	903,-	971,-
Perforated plug (reduced Kvs-values) [2]		143,-	143,-	143,-	151,-	161,-	171,-	200,-	218,-
Increased tightness on seat, leakage class IV-S1 [3]		77,-	77,-	156,-	156,-	156,-	312,-	389,-	468,-

Supply voltages, additional performance for special design and accessories of actuators - see page 60

Special flange drillings by agreement (refer to page 220)

[1] Standard for body material SA351CF8M

[2] Available from Kvs 1,0 upwards.

[3] Closing pressures on request

ARI-STEVI® Smart

Pneumatic actuated control valve in straight through form

Body: EN-JL1040 / EN-JS1049
Trim: X20Cr13+QT (1.4021+QT)
Stem sealing: Spring loaded PTFE-V-ring unit -10 ...+220 °C
Further designs up to +450°C acc. to data sheet
Flow characteristic: Equal percentage or linear
Rangeability: 50 : 1
Actuators: ARI-DP single acting pneumatic actuators
Action: Spring closes / opens the seat on air failure

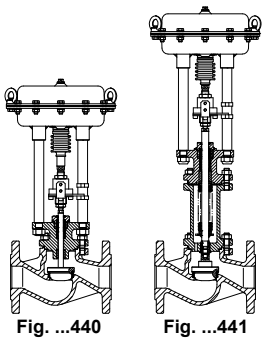


Fig. ...440 Fig. ...441
ARI-DP

Nominal diameter						DN	15	20	25	32	40	50	65	80	100	125	150
Kvs - values			Standard				4	6,3	10	16	25	40	63	100	160	250	400
			Reduced				2,5	4 / 2,5	6,3	10	16	25	40	63	100	160	250
DP32	Spring closes	0,4-1,2	Air supply press. min. (bar)	1,4	Closing pressure (bar)		18,6	18,6	10,7	7,8	3,9	2,2					
	Spring opens			1,4			18,6	18,6	10,7	7,8	3,9	2,2					
				6			40	40	40	40	40	40	33	21,7	13,8		
Fig. No. 12.440		PN16		EN-JL1040			1.317,-	1.326,-	1.335,-	1.359,-	1.425,-	1.471,-	1.748,-	2.217,-	2.824,-		
Fig. No. 23.440		PN16/25		EN-JS1049			1.417,-	1.442,-	1.445,-	1.627,-	1.645,-	1.737,-	2.237,-	2.527,-	3.538,-		
DP33	Spring closes	0,2-1,0	Air supply press. min. (bar)	1,2	Closing pressure (bar)		13,3 [c]	13,3 [c]	7,4 [c]	5,2 [c]	2,4 [c]	1,2 [c]					
		0,4-1,2		1,4			34,2 [c]	34,2 [c]	20,2 [c]	15,1 [c]	8,1 [c]	4,9 [c]	2,5	1,4			
	Spring opens			1,4			34,2 [d]	34,2 [d]	20,2 [d]	15,1 [d]	8,1 [d]	4,9 [d]	2,5 [d]	1,4 [d]			
				6			40 [c]	40 [c]	40 [c]	40 [c]	40 [c]	40 [c]	40	35,4	22,7		
Fig. No. 12.440		PN16		EN-JL1040			1.551,-	1.560,-	1.569,-	1.593,-	1.659,-	1.705,-	1.982,-	2.451,-	3.058,-		
Fig. No. 23.440		PN16/25		EN-JS1049			1.651,-	1.676,-	1.679,-	1.861,-	1.879,-	1.971,-	2.471,-	2.761,-	3.772,-		
DP34	Spring closes	0,2-1,0	Air supply press. min. (bar)	1,2	Closing pressure (bar)								2,5 [b]	1,5 [b]			
		0,4-1,2		1,4									7 [b]	4,4 [b]	2,7 [b]	1,6	
	Spring opens			1,4									7 [b]	4,4 [b]	2,7 [b]	1,6	1
				4									40 [b]	40 [b]	27,6 [b]	17,7	12,2
				6												30,9	20,9
Fig. No. 12.440		PN16		EN-JL1040									2.886,-	3.355,-	3.962,-	4.607,-	5.442,-
Fig. No. 23.440		PN16/25		EN-JS1049									3.375,-	3.665,-	4.676,-	5.155,-	5.800,-

Special design							Additional performance										
Nominal diameter						DN	15	20	25	32	40	50	65	80	100	125	150
Stem-/bellows unit Fig. 23.441							474,-	474,-	532,-	532,-	551,-	551,-	573,-	625,-	663,-	728,-	789,-
Parabol. plug PTFE-soft max. 200 °C (from Kvs 1,0)							205,-	205,-	205,-	205,-	221,-	229,-	309,-	355,-	458,-	599,-	699,-
Pressure balanced plug max. 200 °C									348,-	469,-	566,-	661,-	661,-	856,-	1.226,-	1.585,-	2.534,-
V-port-plug													201,-	243,-	311,-	472,-	641,-
Increased tightness on seat, leakage class IV-S1 [1]							77,-	77,-	156,-	156,-	156,-	156,-	312,-	389,-	468,-	468,-	468,-

Additional performance for further closing pressures

Fig. 440/441 - ARI-DP

Action: Spring closes the seat on air failure

Nominal diameter						DN	15	20	25	32	40	50	65	80	100	125	150
Kvs - values				Standard			4	6,3	10	16	25	40	63	100	160	250	400
				Reduced			2,5	4 / 2,5	6,3	10	16	25	40	63	100	160	250
DP32	Spring range (bar)	0,8-2,4	Air supply pressure min. (bar) 2,7	Closing press.	bar		25	25	25	20,1	11	6,8	3,7	2,2	1,2		
				Add. performance			37,-	37,-	37,-	37,-	37,-	37,-	37,-	37,-	37,-		
		1,5-2,9	3,2	Closing press.	bar				25	25	23,5	15					
				Add. performance					50,-	50,-	50,-	50,-					
		2,0-3,8	4,1	Closing press.	bar						25	20,8					
				Add. performance							174,-	174,-					
DP33		0,8-2,4	2,7	Closing press.	bar		25 [a)]	25 [a)]	25 [a)]	25 [a)]	19,5 [a)]	12,3 [a)]	7	4,4	2,6		
				Add. performance			65,-	65,-	65,-	65,-	65,-	65,-	65,-	65,-	65,-		
		(1,7-2,7) 1,5-3,0	(3,1) 3,3	Closing press.	bar					(25 [a)])	(25 [a)])	(25 [a)])	14,8	9,6	6		
				Add. performance						69,-	69,-	69,-	69,-	69,-	69,-		
		2,0-4,0	4,5	Closing press.	bar								20,3	13,3	8,4		
				Add. performance									140,-	140,-	140,-		
		2,3-3,7	4,5	Closing press.	bar							25					
				Add. performance								140,-					
DP34		0,8-2,4	2,7	Closing press.	bar								16	10,4	6,5	4	2,7
				Add. performance									174,-	174,-	174,-	174,-	174,-
		1,5-3,0	3,3	Closing press.	bar											8,4	5,7
				Add. performance												192,-	192,-
		2,0-4,0	4,5	Closing press.	bar											11,5	7,9
				Add. performance												532,-	532,-
		2,1-3,0	3,3	Closing press.	bar								25	25	19		
				Add. performance									192,-	192,-	192,-		
		2,4-3,6	4,5	Closing press.	bar									25	21,9		
				Add. performance										532,-	532,-		

Air supply pressure max. 6 bar a) 5 bar b) 4,5 bar c) 4 bar d) 3,5 bar e) 3 bar

Additional performance for special design and accessories of actuators - see pages 54 to 58 Larger nominal diameters on page 30

Special flange drillings by agreement (refer to page 220)

[1)] DN15-100: Closing pressures see extra data sheet
DN125-150: Closing pressures on request

ARI-STEVI® Smart

Pneumatic actuated control valve in straight through form

Body: EN-JL1040 / EN-JS1049 / 1.0619+N / 1.4408

Trim: Body in EN-JL1040 / EN-JS1049 / 1.0619+N: X20Cr13+QT (1.4021+QT)
Body in 1.4408: X6CrNiMoTi17-12-2 (1.4571)

Stem sealing: PTFE packing -10 ...+250 °C
Further designs up to +450°C acc. to data sheet

Flow characteristic: Equal percentage or linear

Rangeability: 30 : 1

Actuators: ARI-DP
Single acting pneumatic actuators

Action: Spring closes / opens the seat on air failure

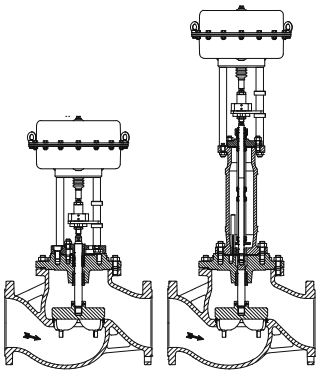


Fig. ...440 Fig. ...441
ARI-DP

Nominal diameter						DN	200	250
Kvs - values						Standard	630	1000
						Reduced	400	630
DP34	Spring closes	0,4-1,2	Air suppl. press. (bar)	1,4	Closing pressure (bar)			
	Spring opens			4			1,8	1,1
				6			11,6	7,4
Fig. No. 12.440		PN16		EN-JL1040			8.776,-	12.212,-
Fig. No. 22.440		PN16		EN-JS1049			10.111,-	15.442,-
Fig. No. 35.440		PN25/40		1.0619+N			12.470,-	18.745,-
Fig. No. 54.440		PN25		1.4408			28.723,-	45.155,-
Fig. No. 55.440		PN40					on request	
DP34T	Spring closes	0,4-1,2	Air suppl. press. (bar)	1,7	Closing pressure (bar)		1,3 b)	
	Spring opens			1,5			1,8 b)	1,1 b)
				5			16,5 b)	10,5 b)
Fig. No. 12.440		PN16		EN-JL1040			11.652,-	15.088,-
Fig. No. 22.440		PN16		EN-JS1049			12.987,-	18.318,-
Fig. No. 35.440		PN25/40		1.0619+N			15.346,-	21.621,-
Fig. No. 54.440		PN25		1.4408			31.599,-	48.031,-
Fig. No. 55.440		PN40					on request	
DP34Tri	Spring closes	0,4-1,2	Air suppl. press. (bar)	1,7	Closing press. (bar)		2,3 d)	1,4 d)
Fig. No. 12.440		PN16		EN-JL1040			15.940,-	19.376,-
Fig. No. 22.440		PN16		EN-JS1049			17.275,-	22.606,-
Fig. No. 35.440		PN25/40		1.0619+N			19.634,-	25.909,-
Fig. No. 54.440		PN25		1.4408			35.887,-	52.319,-
Fig. No. 55.440		PN40					on request	
Special design							**Additional performance**	
Nominal diameter						**DN**	**200**	**250**
Stem-/bellows unit Fig. 22./35.441							1.503,-	1.503,-
Stem-/bellows unit Fig. 55.441							4.166,-	4.166,-
Screwed seat ring Fig. 55.445 / 55.446 1)							2.048,-	2.574,-
Pressure balanced plug max. 200 °C							on request	
Increased tightness on seat, leakage class IV-S1 2)							545,-	545,-

Additional performance for further closing pressures

Fig. 440/441 - ARI-DP

Action: Spring closes the seat on air failure

Nominal diameter							DN	200	250
Kvs - values				Standard				630	1000
				Reduced				400	630
DP34	Spring range (bar)	1,0-2,0	Air supply pressure min. (bar)	2,4	Closing press.	bar		1,8	1,1
					Add. performance			174,-	174,-
		2,0-4,0		4,5	Closing press.	bar		4,2	2,6
					Add. performance			921,-	921,-
DP34T		1,0-2,0		2,5	Closing press.	bar		4,2 a)	2,6 a)
					Add. performance			348,-	348,-
		2,0-4,0		4,5	Closing press.	bar		9,1	5,8
					Add. performance			1.839,-	1.839,-
DP34Tri		1,0-2,0		2,5	Closing press.	bar		6,7 b)	4,2 b)
					Add. performance			455,-	455,-
		2,0-4,0		4,5	Closing press.	bar		14	8,9
					Add. performance			1.398,-	1.398,-

Air supply pressure max. 6 bar (ARI-DP34Tri: 5 bar) a) 5 bar b) 4,5 bar c) 4 bar d) 3,5 bar e) 3 bar

Additional performance for special design and accessories of actuators - see pages 54 to 58

Special flange drillings by agreement (refer to page 220)

1) Closing pressures for stainless steel body and screwed seat ring refer to data sheet ARI-STEVI® 445 / 446

2) Closing pressures on request

ARI-STEVI® Smart

Electric actuated control valve in straight through form

Body: EN-JL1040 / EN-JS1049
Trim: X20Cr13+QT (1.4021+QT)
Stem sealing: Spring loaded PTFE-V-ring unit -10 ...+220 °C
Further designs up to +450°C acc. to data sheet
Flow characteristic: Equal percentage or linear
Rangeability: 50 : 1
Actuators: ARI-PREMIO®
Optional: ARI-PREMIO®-Plus 2G

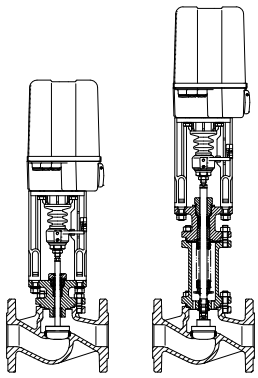


Fig. ...440 Fig. ...441
ARI-PREMIO®

Nominal diameter				DN	15	20	25	32	40	50	65	80	100	125	150
Kvs - values			Standard		4	6,3	10	16	25	40	63	100	160	250	400
			Reduced		2,5	4 / 2,5	6,3	10	16	25	40	63	100	160	250
PREMIO® 2,2 kN (230V)		Closing pressure		bar	25	25	25	23,1	12,8	8	4,3	2,7	1,5		
		Operating time		s	53	53	53	53	53	53	79	79	79		
Fig. No.	12.440	PN16	EN-JL1040		1.705,-	1.714,-	1.723,-	1.747,-	1.813,-	1.859,-	2.136,-	2.605,-	3.212,-		
	23.440	PN16/25	EN-JS1049		1.805,-	1.830,-	1.833,-	2.015,-	2.033,-	2.125,-	2.625,-	2.915,-	3.926,-		
PREMIO® 5 kN (100-240V)		Closing pressure		bar			25	25	25	21,3	12,3	8	4,9	3	2
		Operating time		s			53	53	53	53	79	79	79	132	132
Fig. No.	12.440	PN16	EN-JL1040				2.018,-	2.042,-	2.108,-	2.154,-	2.431,-	2.900,-	3.507,-	4.152,-	4.987,-
	23.440	PN16/25	EN-JS1049				2.128,-	2.310,-	2.328,-	2.420,-	2.920,-	3.210,-	4.221,-	4.700,-	5.345,-
PREMIO® 12 kN (100-240V)		Closing pressure		bar					25	25	25	21,2	13,5	8,5	5,9
		Operating time		s					53	53	79	79	79	132	132
Fig. No.	12.440	PN16	EN-JL1040						2.630,-	2.676,-	2.953,-	3.422,-	4.029,-	4.674,-	5.509,-
	23.440	PN16/25	EN-JS1049						2.850,-	2.942,-	3.442,-	3.732,-	4.743,-	5.222,-	5.867,-
PREMIO® 15 kN (100-240V)		Closing pressure		bar							25	25	17,2	10,9	7,5
		Operating time		s							79	79	79	132	132
Fig. No.	12.440	PN16	EN-JL1040								3.165,-	3.634,-	4.241,-	4.886,-	5.721,-
	23.440	PN16/25	EN-JS1049								3.654,-	3.944,-	4.955,-	5.434,-	6.079,-
PREMIO® 25 kN (100-240V)		Closing pressure		bar										18,7	13
		Operating time		s										132	132
Fig. No.	12.440	PN16	EN-JL1040											5.740,-	6.575,-
	23.440	PN16/25	EN-JS1049											6.288,-	6.933,-

Special design	Additional performance										
Nominal diameter DN	15	20	25	32	40	50	65	80	100	125	150
Stem-/bellows unit Fig. 23.441	474,-	474,-	532,-	532,-	551,-	551,-	573,-	625,-	663,-	728,-	789,-
Parabol. plug PTFE-soft max. 200 °C (from Kvs 1,0)	205,-	205,-	205,-	205,-	221,-	229,-	309,-	355,-	458,-	599,-	699,-
Pressure balanced plug max. 200 °C			348,-	469,-	566,-	661,-	661,-	856,-	1.226,-	1.585,-	2.534,-
V-port plug							201,-	243,-	311,-	472,-	641,-
Increased tightness on seat, leakage class IV-S1 [1)]	77,-	77,-	156,-	156,-	156,-	156,-	312,-	389,-	468,-	468,-	468,-

Supply voltages, add. performance for special design and accessories of actuators - see page 60 und 61

Larger nominal diameters on page 33

Special flange drillings by agreement (refer to page 220)

[1)] DN15-100: Closing pressures see extra data sheet
DN125-150: Closing pressures on request

ARI-STEVI® Smart

Electric actuated control valve in straight through form

Body: EN-JL1040 / EN-JS1049 / 1.0619+N / 1.4408

Trim: Body in EN-JL1040 / EN-JS1049 / 1.0619+N: X20Cr13+QT (1.4021+QT)
Body in 1.4408: X6CrNiMoTi17-12-2 (1.4571)

Stem sealing: PTFE-packing -10 ...+250 °C
Further designs up to +450°C acc. to data sheet

Flow characteristic: Equal percentage or linear

Rangeability: 30 : 1

Actuators: ARI-PREMIO®
Optional: ARI-PREMIO®-Plus 2G

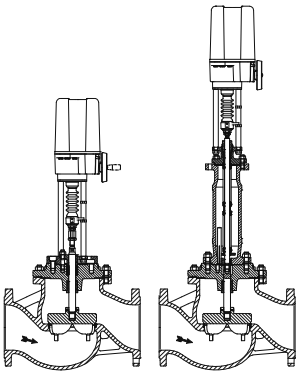


Fig. ...440 Fig. ...441
ARI-PREMIO®

Nominal diameter				DN	200	250
Kvs - values			Standard		630	1000
			Reduced		400	630
PREMIO® 12 kN (100-240V)		Closing pressure		bar	3,1	1,9
		Operating time		s	171	171
Fig. No.	12.440	PN16	EN-JL1040		8.843,-	12.279,-
	22.440	PN16	EN-JS1049		10.178,-	15.509,-
	35.440	PN25/40	1.0619+N		12.537,-	18.812,-
	54.440	PN25	1.4408		28.790,-	45.222,-
	55.440	PN40			on request	
PREMIO® 15 kN (100-240V)		Closing pressure		bar	4	2,5
		Operating time		s	171	171
Fig. No.	12.440	PN16	EN-JL1040		9.055,-	12.491,-
	22.440	PN16	EN-JS1049		10.390,-	15.721,-
	35.440	PN25/40	1.0619+N		12.749,-	19.024,-
	54.440	PN25	1.4408		29.002,-	45.434,-
	55.440	PN40			on request	
PREMIO® 25 kN (100-240V)		Closing pressure		bar	7,1	4,5
		Operating time		s	171	171
Fig. No.	12.440	PN16	EN-JL1040		9.909,-	13.345,-
	22.440	PN16	EN-JS1049		11.244,-	16.575,-
	35.440	PN25/40	1.0619+N		13.603,-	19.878,-
	54.440	PN25	1.4408		29.856,-	46.288,-
	55.440	PN40			on request	

Special design		Additional performance	
Nominal diameter	**DN**	**200**	**250**
Stem-/bellows unit Fig. 22./35.441		1.503,-	1.503,-
Stem-/bellows unit Fig. 55.441		4.166,-	4.166,-
Screwed seat ring Fig. 55.445 / 55.446 [1]		2.048,-	2.574,-
Pressure balanced plug max. 200 °C		on request	
Increased tightness on seat, leakage class IV-S1 [2]		545,-	545,-

Supply voltages, add. performance for special design and accessories of actuators - see page 60 und 61

Special flange drillings by agreement (refer to page 220)

[1] Closing pressures for stainless steel body and screwed seat ring refer to data sheet ARI-STEVI® 445 / 446.

[2] Closing pressures on request

ARI-STEVI® Smart

Electric actuated control valve with fail-safe function

Body: EN-JL1040 / EN-JS1049
Trim: X20Cr13+QT (1.4021+QT)
Stem sealing: Spring loaded PTFE-V-ring unit -10 ...+200 °C
Flow characteristic: Equal percentage or linear
Rangeability: 50 : 1
Actuator: FR 1.2 with fail-safe on power failure
(actuator spindle extends on power failure)
Supply voltage: 24V 50/60Hz 1~ / 24V DC or 230V 50/60Hz Protection class: IP 66

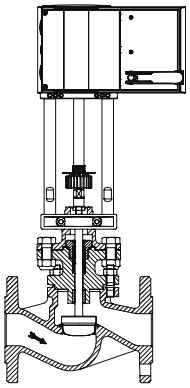


Fig. ...440
FR 1.2

ARI-STEVI® 440-FR 1.2

With parabolic plug

Nominal diameter				**DN**	**15**	**20**	**25**	**32**	**40**	**50**	**65**	**80**	**100**
Kvs - values			**Standard**		**4**	**6,3**	**10**	**16**	**25**	**40**	**63**	**100**	**160**
			Reduced		**2,5**	**4 / 2,5**	**6,3**	**10**	**16**	**25**	**40**	**63**	**100**
FR 1.2 2,0 kN		Closing pressure		bar	25	25	25	20,6	11,3	7	3,8	2,3	1,3
		Operating time		s	40						60		
		Reset time at zero voltage		s	28						35		
Fig. No.	12.440	PN16	EN-JL1040		1.702,-	1.711,-	1.720,-	1.744,-	1.810,-	1.856,-	2.133,-	2.602,-	3.209,-
	23.440	PN16/25	EN-JS1049		1.802,-	1.827,-	1.830,-	2.012,-	2.030,-	2.122,-	2.622,-	2.912,-	3.923,-
Special design					**Additional performance**								
Nominal diameter				**DN**	**15**	**20**	**25**	**32**	**40**	**50**	**65**	**80**	**100**
Parabolic plug with PTFE-soft seal max. 200 °C					205,-	205,-	205,-	205,-	221,-	229,-	309,-	355,-	458,-

ARI-STEVI® 440 D-FR 1.2

With pressure balanced parabolic plug

Nominal diameter				**DN**					**40**	**50**	**65**	**80**	**100**
Kvs - values			**Standard**						**25**	**40**	**63**	**100**	**160**
			Reduced						**16**	**25**	**40**	**63**	**100**
FR 1.2 2,0 kN		Closing pressure		bar					25	25	25	25	25
		Operating time		s					40		60		
		Reset time at zero voltage		s					28		35		
Fig. No.	12.440	PN16	EN-JL1040						2.373,-	2.514,-	2.794,-	3.458,-	4.433,-
	23.440	PN16/25	EN-JS1049						2.595,-	2.783,-	3.278,-	3.769,-	5.149,-

Add. performance for special design and accessories of actuators - see page 63

Special flange drillings by agreement (refer to page 220)

ARI-STEVI® Smart

Electric actuated control valve with fail-safe function

Body: EN-JL1040 / EN-JS1049
Trim: X20Cr13+QT (1.4021+QT)
Stem sealing: Spring loaded PTFE-V-ring unit -10 ...+220 °C
Flow characteristic: Equal percentage or linear
Rangeability: 50 : 1
Actuator: FR 2.1 with fail-safe function on power failure type approved acc. to DIN EN 14597: actuator spindle extends or retracts on power failure
Supply voltage: 230V 50/60Hz 1~ Protection class: IP 54

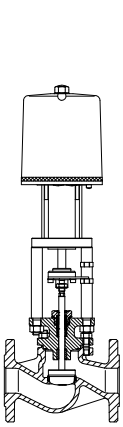


Fig. ...440
FR 2.1

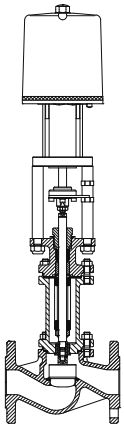


Fig. ...441
FR 2.1

ARI-STEVI® 440-FR 2.1

With parabolic plug

Nominal diameter				DN	15	20	25	32	40	50			
Kvs - values			Standard		4	6,3	10	16	25	40			
			Reduced		2,5	4 / 2,5	6,3	10	16	25			
FR 2.1 0,9kN		Closing pressure		bar	18	18	10,3	7,4	3,6	2			
		Operating time		s	69								
		Reset time at zero voltage		s	5,5								
Fig. No.	12.440	PN16	EN-JL1040		2.306,-	2.315,-	2.324,-	2.348,-	2.414,-	2.460,-			
	23.440	PN16/25	EN-JS1049		2.406,-	2.431,-	2.434,-	2.616,-	2.634,-	2.726,-			
Special design					Additional performance								
Nominal diameter				DN	15	20	25	32	40	50			
Stem-/bellows unit Fig. 23.441					474,-	474,-	532,-	532,-	551,-	551,-			
Parabol. plug with PTFE-soft seal max. 200 °C					205,-	205,-	205,-	205,-	221,-	229,-			

ARI-STEVI® 440 D-FR 2.1

With pressure balanced parabolic plug max. 200°C

Nominal diameter				DN			25	32	40	50	65	80	100
Kvs - values			Standard				10	16	25	40	63	100	160
			Reduced				6,3	10	16	25	40	63	100
FR 2.1 0,9kN		Closing pressure		bar			20	20	20	16	16	16	12
		Operating time		s			69				103		
		Reset time at zero voltage		s			5,5				8,5		
Fig. No.	12.440	PN16	EN-JL1040				2.596,-	2.816,-	2.977,-	3.119,-	3.278,-	3.769,-	5.037,-
	23.440	PN16/25	EN-JS1049				2.779,-	3.086,-	3.199,-	3.387,-	3.398,-	4.064,-	5.549,-
Special design					Additional performance								
Nominal diameter				DN			25	32	40	50	65	80	100
Stem-/bellows unit Fig. 23.441							532,-	532,-	551,-	551,-	573,-	625,-	663,-

Add. performance for special design and accessories of actuators - see page 63

Special flange drillings by agreement (refer to page 220)

ARI-STEVI® 440-FR 2.2 and ARI-STEVI® 440 D-FR 2.2 on request

ARI-STEVI® Smart

Pneumatic actuated control valve in straight through form with screwed sockets ANSI (BSP or NPT)

Body: ASTM SA105
Trim: SA276Gr.420 / E347-16
Stem sealing: Spring loaded PTFE-V-ring unit -10 ...+220 °C
Further designs up to +450°C acc. to data sheet
Flow characteristic: Equal percentage or linear
Rangeability: 50 : 1
Actuators: ARI-DP single acting pneumatic actuators
Action: Spring closes / opens the seat on air failure

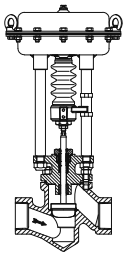


Fig. ...440 ANSI ARI-DP

Nominal diameter						DN	15	20	25	32	40	50
						NPS	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
Kvs - values					Standard		3,3	5,4	8,4	12,8	20	28,4
					Reduced		2,5	4	6,3	10	16	25
DP32	Spring closes	0,4-1,2	Air supply press. min. (bar)	1,4	Closing press. (bar)		18,6	18,6	10,7	3,9	3,9	2,2
	Spring opens			1,4			18,6	18,6	10,7	3,9	3,9	2,2
				6			51,1	51,1	51,1	40	40	51,1
Fig. No.	45.440....2		ANSI300		SA105		1.255,-	1.266,-	1.271,-	1.408,-	1.418,-	1.494,-
DP33	Spring closes	0,2-1,0	Air supply press. min. (bar)	1,2	Closing press. (bar)		13,3 c)	13,3 c)	7,4 c)	2,4 c)	2,4 c)	1,2 c)
		0,4-1,2		1,4			34,2 c)	34,2 c)	20,2 c)	8,1 c)	8,1 c)	4,9 c)
	Spring opens			1,4			34,2 d)	34,2 d)	20,2 d)	8,1 d)	8,1 d)	4,9 d)
				4			51,1 d)	51,1 d)	51,1 d)	40 d)	40 d)	51,1 c)
Fig. No.	45.440....2		ANSI300		SA105		1.489,-	1.500,-	1.505,-	1.642,-	1.652,-	1.728,-

Additional performance for further closing pressures. Action: **Spring closes** the seat on air failure

Nominal diameter							DN	15	20	25	32	40	50
							NPS	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
Kvs - Werte				Standard				3,3	5,4	8,4	12,8	20	28,4
				Reduced				2,5	4	6,3	10	16	25
DP32	Spring range (bar)	0,8-2,4	Air supply pressure min. (bar)	2,7	Closing press.	bar		44,9	44,9	26,8	11	11	6,8
					Add. performance			37,-	37,-	37,-	37,-	37,-	37,-
		1,5-2,9		3,2	Closing press.	bar		51,1	51,1	51,1	23,5	23,5	15
					Add. performance			50,-	50,-	50,-	50,-	50,-	50,-
		2,0-3,8		4,1	Closing press.	bar					32,5	32,5	20,8
					Add. performance						174,-	174,-	174,-
DP33		0,8-2,4		2,7	Closing press.	bar		51,1 a)	51,1 a)	45,9 a)	19,5 a)	19,5 a)	12,3 a)
					Add. performance			65,-	65,-	65,-	65,-	65,-	65,-
		1,7-2,7		3,1	Closing press.	bar				51,1 a)	40 a)	40 a)	29 a)
					Add. performance					69,-	69,-	69,-	69,-
		2,3-3,7		4,5	Closing press.	bar							40,1
					Add. performance								140,-

Special design	Additional performance					
Nominal diameter DN	15	20	25	32	40	50
Nominal diameter NPS	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
Stem-/bellows unit Fig. 45.441	474,-	474,-	532,-	532,-	551,-	551,-
Trim SA240Gr.316Ti	98,-	121,-	131,-	152,-	193,-	214,-
Parabolic plug with PTFE-soft seal max. 200 °C	153,-	153,-	153,-	153,-	166,-	171,-
Isolation plug	without price addition					
Socket weld-ends (Fig. 45.440....3)	without price addition					

Air supply pressure max. 6 bar a) 5 bar b) 4,5 bar c) 4 bar d) 3,5 bar e) 3 bar

Additional performance for special design and accessories of actuators - see pages 54 to 58

ARI-STEVI® Smart

Electric actuated control valve in straight through form with screwed sockets ANSI (BSP or NPT)

Body: ASTM SA105
Trim: SA276Gr.420 / E347-16
Stem sealing: Spring loaded PTFE-V-ring unit -10 ...+220 °C
Further designs up to +450°C acc. to data sheet
Flow characteristic: Equal percentage or linear
Rangeability: 50 : 1
Actuators: ARI-PREMIO®
Optional: ARI-PREMIO®-Plus 2G

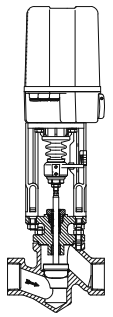


Fig. ...440 ANSI ARI-PREMIO®

Nominal diameter				**DN**	**15**	**20**	**25**	**32**	**40**	**50**
				NPS	**1/2"**	**3/4"**	**1"**	**1 1/4"**	**1 1/2"**	**2"**
Kvs - values			**Standard**		**3,3**	**5,4**	**8,4**	**12,8**	**20**	**28,4**
			Reduced		**2,5**	**4**	**6,3**	**10**	**16**	**25**
PREMIO® 2,2 kN (230V)	Closing pressure			bar	51,1	51,1	30,8	12,8	12,8	8
	Operating time			s	53	53	53	53	53	53
Fig. No. 45.440....2	ANSI300	SA105			1.643,-	1.654,-	1.659,-	1.796,-	1.806,-	1.882,-
PREMIO® 5 kN (100-240V)	Closing pressure			bar			51,1	33,2	33,2	21,3
	Operating time			s			53	53	53	53
Fig. No. 45.440....2	ANSI300	SA105					1.954,-	2.091,-	2.101,-	2.177,-

Special design	**Additional performance**					
Nominal diameter **DN**	**15**	**20**	**25**	**32**	**40**	**50**
NPS	**1/2"**	**3/4"**	**1"**	**1 1/4"**	**1 1/2"**	**2"**
Stem-/bellows unit Fig. 45.441	474,-	474,-	532,-	532,-	551,-	551,-
Trim SA240Gr.316Ti	98,-	121,-	131,-	152,-	193,-	214,-
Parabol. plug with PTFE-soft seal max. 200 °C	153,-	153,-	153,-	153,-	166,-	171,-
Isolation plug	without price addition					
Socket weld-ends (Fig. 45.440....3)	without price addition					

Supply voltages, add. performance for special design and accessories of actuators - see page 60 and 61

ARI-STEVI® Smart

Pneumatic actuated control valve in straight through form

Body: EN-JS1049 / 1.0619+N
Trim: X20Cr13+QT (1.4021+QT)
Stem sealing: PTFE-packing -10 ...+250 °C
Further designs up to +450°C acc. to data sheet
Flow characteristic: Equal percentage or linear
Rangeability: 30 : 1

Actuators: ARI-DP single acting pneumatic actuators
Action: Spring closes / opens the seat on air failure

Closing pressures for standard Kvs-values

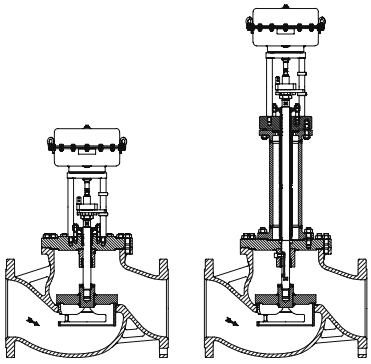


Fig. ...425 Fig. ...426
ARI-DP

Nominal diameter						DN	300	350	400	500
Kvs - values						Standard	1500	1800	2500	4000
						Reduced	1000 / 630	1500 / 1000	1500 / 1800	2500 / 1800
DP34	Spring opens		Air supply press. min. (bar)	2	Closing press. (bar)		Closing pressures see data sheet only reduced Kvs-values			
				4						
				6						
Fig. No.	22.425	PN16		EN-JS1049			on request			
	35.425	PN25/40		1.0619+N			on request			
DP34T	Spring opens		Air supply press. min. (bar)	1,5	Closing press. (bar)		Closing pressures see data sheet only reduced Kvs-values			
				4						
				6						
Fig. No.	22.425	PN16		EN-JS1049			on request			
	35.425	PN25/40		1.0619+N			on request			
DP34Tri	Spring closes	0,4-1,2	Air supply press. min. (bar)	1,7	Closing press. (bar)		Closing pressures see data sheet only reduced Kvs-values			
Fig. No.	22.425	PN16		EN-JS1049			on request			
	35.425	PN25/40		1.0619+N			on request			
DP35	Spring closes	1,8 - 3,8	Air supply press. min. (bar)	4,3	Closing press. (bar)		7,8	4,3	3,6	2,2
	Spring opens			1,5			Closing pressures see data sheet only reduced Kvs-values			
				4			10	6,9	5,8	3,6
				6			17,5	12,4	10,6	6,6
Fig. No.	22.425	PN16		EN-JS1049			on request			
	35.425	PN25/40		1.0619+N			on request			

Special design	Additional performance

Nominal diameter	DN	300	350	400	500
Stem-/bellows unit Fig. 22./35.426		on request			
Trim X6CrNiMoTi17-12-2 (1.4571)					
Plug with PTFE-soft seal max. 200 °C					
Pressure balanced plug max. 200 °C					
Hard facing seat and plug					
Perforated plug (reduced Kvs-values)					

Additional performance for further closing pressures. Action: **Spring closes** on air failure

Nominal diameter						DN	300	350
Kvs - values						Standard		
						Reduced	1000 / 630	1000
DP34	Spring range (bar)	1,0-2,0	Air supply press. min. (bar)	2,3	Closing press.	bar	Closing pressures see data sheet. Only reduced Kvs-values Prices on request	
					Add. performance			
		2,0-4,0		4,5	Closing press.	bar		
					Add. performance			
DP34T		1,0-2,0		2,5	Closing press.	bar		
					Add. performance			
		2,0-4,0		4,5	Closing press.	bar		
					Add. performance			
DP34Tri		1,0-2,0		2,5	Closing press.	bar		
					Add. performance			
		2,0-4,0		4,5	Closing press.	bar		
					Add. performance			

Additional performance for special design and accessories of actuators - see pages 54 to 58

Air supply pressure:
max. 6 bar (ARI-DP34Tri: 5 bar)

ARI-STEVI® Smart

Electric actuated control valve in straight through form

Body: EN-JS1049 / 1.0619+N
Trim: X20Cr13+QT (1.4021+QT)
Stem sealing: PTFE-packing -10 ...+250 °C
Further designs up to +450°C acc. to data sheet
Flow characteristic: Equal percentage or linear
Rangeability: 30 : 1
Actuators: AUMA
Supply voltage: 400 V, 50 Hz 3~ Protection class: IP68
Closing pressures for standard Kvs-values

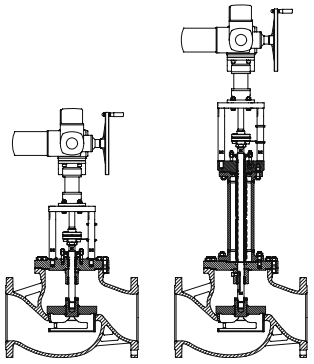


Fig. 425 Fig. 426

AUMA

Nominal diameter					DN	300	350	400	500
Kvs - values			Standard			1500	1800	2500	4000
			Reduced			1000 / 630	1500 / 1000	1800 / 1500	2500 / 1800
AUMA SAR 07.6 with LE25.1		Closing pressure	Shut off		bar	2,2			
			Control		bar	1,4			
		Operating time			s	68			
Fig. No.	22.425	PN16	EN-JS1049 [1]			on request			
	35.425	PN25/40	1.0619+N						
AUMA SAR 10.2 with LE50.1		Closing pressure	Shut off		bar	4,1	3	2,5	1,5
			Control		bar	2,4	1,8	1,5	1
		Operating time			s	56	55	55	55
Fig. No.	22.425	PN16	EN-JS1049 [1]			on request			
	35.425	PN25/40	1.0619+N			on request			
AUMA SAR 14.2 with LE70.1		Closing pressure	Shut off		bar	7,7	5,6	4,8	2,9
			Control		bar	4	3	2,5	1,6
		Operating time			s	70	64	64	64
Fig. No.	22.425	PN16	EN-JS1049 [1]			on request			
	35.425	PN25/40	1.0619+N			on request			
AUMA SAR 14.6 with LE100.1		Closing pressure	Shut off		bar	16,3	12	10,2	6,3
			Control		bar	6,7	5	4,3	2,7
		Operating time			s	70	64	64	64
Fig. No.	22.425	PN16	EN-JS1049 [1]			on request			
	35.425	PN25/40	1.0619+N			on request			
AUMA SAR 16.2 with LE200.1		Closing pressure	Shut off		bar	28,2	20,8	17,8	11,1
			Control		bar	11,5	8,5	7,3	4,6
		Operating time			s	61	56	56	56
Fig. No.	22.425	PN16	EN-JS1049 [1]			on request			
	35.425	PN25/40	1.0619+N			on request			

Special design	Additional performance			
Nominal diameter **DN**	**300**	**350**	**400**	**500**
Stem-/bellows unit Fig. 22./35.426	on request			
Trim X6CrNiMoTi17-12-2 (1.4571)				
Plug with PTFE-soft seal max. 200 °C				
Pressure balanced plug max. 200 °C				
Hard facing seat and plug				
Perforated plug (reduced Kvs-values)				

Additional performance for special design and accessories of actuators - see page 64

[1] Only full Kvs-value. Reductions not available

ARI-STEVI® Smart

Pneumatic actuated control valve in 3-way-form as mixing valve

Body: EN-JL1040 / EN-JS1049 / 1.0619+N / 1.4408

Trim: Body in EN-JL1040 / EN-JS1049 / 1.0619+N: X20Cr13+QT (1.4021+QT)
Body in 1.4408: X6CrNiMoTi17-12-2 (1.4571)

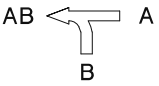
Stem sealing: Spring loaded PTFE-V-ring unit -10 ...+220°C
Further designs up to +450°C acc. to data sheet

Flow characteristic: Linear

Rangeability: 30 : 1

Actuators: ARI-DP single acting pneumatic actuators

Action: Spring closes port A or B on air failure



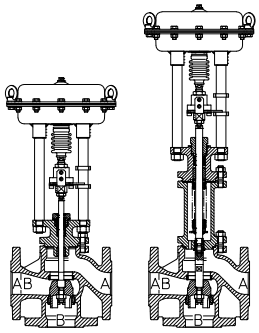


Fig. ...450 Fig. ...451
ARI-DP

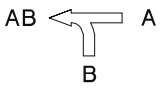
Nominal diameter						DN	15	20	25	32	40	50	65	80	100	125	150
Kvs - values			Standard				4	6,3	10	16	25	40	63	100	160	250	320
			Reduced				2,5	4	6,3	10	16	25	40	63	100	160	250
DP32	Spring range (bar)	0,4-1,2	Air supply pressure (bar)	1,6	Closing pressure (bar)		18,6	12,6	10,7	7,2	3,9	2,2					
Fig. No. 12.450		PN16		EN-JL1040			1.474,-	1.496,-	1.531,-	1.585,-	1.671,-	1.807,-	2.081,-	2.430,-	3.031,-		
Fig. No. 23.450		PN16/25		EN-JS1049			1.709,-	1.712,-	1.754,-	1.823,-	1.912,-	2.067,-	2.364,-	2.751,-	3.892,-		
Fig. No. 35.450		PN25/40		1.0619+N			2.001,-	2.017,-	2.162,-	2.387,-	2.658,-	3.017,-	3.601,-	4.230,-	5.119,-		
Fig. No. 55.450		PN25/40		1.4408			2.951,-	3.187,-	3.428,-	3.991,-	4.169,-	4.512,-	6.316,-	8.677,-	12.203,-		
DP33	Spring range (bar)	0,2-1,0	Air supply pressure (bar)	1,2 [1]	Closing pressure (bar)		13,3 [c]	8,8 [c]	7,4 [c]	4,9 [c]	2,4 [c]	1,2 [c]					
		0,4-1,2		1,6 [1]			34,2 [c]	23,7 [c]	20,2 [c]	14,1 [c]	8,1 [c]	4,9 [c]	2,5	1,4			
Fig. No. 12.450		PN16		EN-JL1040			1.708,-	1.730,-	1.765,-	1.819,-	1.905,-	2.041,-	2.315,-	2.664,-	3.265,-		
Fig. No. 23.450		PN16/25		EN-JS1049			1.943,-	1.946,-	1.988,-	2.057,-	2.146,-	2.301,-	2.598,-	2.985,-	4.126,-		
Fig. No. 35.450		PN25/40		1.0619+N			2.235,-	2.251,-	2.396,-	2.621,-	2.892,-	3.251,-	3.835,-	4.464,-	5.353,-		
Fig. No. 55.450		PN25/40		1.4408			3.185,-	3.421,-	3.662,-	4.225,-	4.403,-	4.746,-	6.550,-	8.911,-	12.437,-		
DP34	Spring range (bar)	0,2-1,0	Air supply pressure (bar)	1,2	Closing pressure (bar)								2,5 [b]	1,5 [b]			
		0,4-1,2		1,6									7 [b]	4,4 [b]	2,7 [b]	1,8	1,2
Fig. No. 12.450		PN16		EN-JL1040									3.219,-	3.568,-	4.169,-		
Fig. No. 23.450		PN16/25		EN-JS1049									3.502,-	3.889,-	5.030,-	7.652,-	9.133,-
Fig. No. 35.450		PN25/40		1.0619+N									4.739,-	5.368,-	6.257,-	10.005,-	12.006,-
Fig. No. 55.450		PN25/40		1.4408									7.454,-	9.815,-	13.341,-	16.645,-	21.508,-
DP34 T	Spring range (bar)	0,2-1,0	Air supply pressure (bar)	1,2	Closing pressure (bar)										[2]	1,4	
		0,4-1,2		1,6												4,1	2,9
Fig. No. 12.450		PN16		EN-JL1040													
Fig. No. 23.450		PN16/25		EN-JS1049												10.528,-	12.009,-
Fig. No. 35.450		PN25/40		1.0619+N												12.881,-	14.882,-
Fig. No. 55.450		PN25/40		1.4408												19.521,-	24.384,-

Special design							Additional performance										
Nominal diameter						DN	15	20	25	32	40	50	65	80	100	125	150
Stem-/bellows unit Fig. 23./35.451							474,-	474,-	532,-	532,-	551,-	551,-	573,-	625,-	663,-	728,-	789,-
Stem-/bellows unit Fig. 55.451							654,-	654,-	654,-	654,-	888,-	912,-	1.152,-	1.924,-	2.127,-	on request	
Trim X6CrNiMoTi17-12-2 (1.4571) [3]							123,-	152,-	166,-	191,-	241,-	267,-	423,-	530,-	962,-	1.298,-	1.612,-
2 screwed seat rings [4]							74,-	74,-	76,-	76,-	77,-	84,-	88,-	114,-	145,-	standard	

Additional performance for further closing pressures

Fig. 450/451 as mixing valve - ARI-DP

Action: Spring closes port A or B on air failure.



Nominal diameter						DN	15	20	25	32	40	50	65	80	100	125	150
Kvs - values				Standard			4	6,3	10	16	25	40	63	100	160	250	320
				Reduced			2,5	4	6,3	10	16	25	40	63	100	160	250
DP32	Spring range (bar)	0,8-2,4	Air supply pressure min. (bar)	3,2	Closing press.	bar	40	31,4	26,8	18,8	11	6,8	3,7	2,2	1,2		
					Add. performance		37,-	37,-	37,-	37,-	37,-	37,-	37,-	37,-	37,-		
		1,5-2,9		4,4	Closing press.	bar		40	40	39,1	23,5	15					
					Add. performance			50,-	50,-	50,-	50,-	50,-					
		2,0-3,8		5,8	Closing press.	bar				40	32,5	20,8					
					Add. performance					174,-	174,-	174,-					
DP33		0,8-2,4		3,2	Closing press. [1]	bar	40 [a]	40 [a]	40 [a]	32,5 [a]	19,5 [a]	12,3 [a]	7	4,4	2,6		
					Add. performance		65,-	65,-	65,-	65,-	65,-	65,-	65,-	65,-	65,-		
		1,5-3,0 (1,7-2,7)		4,5 (4,4)	Closing press.	bar				(40 [a])	(40 [a])	(29 [a])	14,8	9,6	6		
					Add. performance					69,-	69,-	69,-	69,-	69,-	69,-		
		2,0-4,0 (2,3-3,7)		6,0 (6,0)	Closing press.	bar						(40)	20,3	13,3	8,4		
					Add. performance							140,-	140,-	140,-	140,-		
DP34		0,8-2,4		3,2	Closing press.	bar							16	10,4	6,5	4,5	3,2
					Add. performance								174,-	174,-	174,-	174,-	174,-
		1,5-3,0 (2,1-3,0)		4,5 (5,1)	Closing press.	bar							(40)	(29,7)	(19)	9,3	6,7
					Add. performance								192,-	192,-	192,-	192,-	192,-
		2,0-4,0 (2,4-3,6)		6,0 (6,0)	Closing press.	bar								(34,2)	(21,9)	12,7	9,2
					Add. performance									532,-	532,-	532,-	532,-
DP34T		0,8-2,4		3,2	Closing press. [2]	bar										9,6	7
					Add. performance											228,-	228,-
		1,5-3,0		4,5	Closing press. [2]	bar										19,1	14
					Add. performance											386,-	386,-
		2,0-4,0		6,0	Closing press. [2]	bar										26	19
					Add. performance											1.068,-	1.068,-

Air supply pressure max. 6 bar a) 5 bar b) 4,5 bar c) 4 bar d) 3,5 bar e) 3 bar

Additional performance for special design and accessories of actuators - see pages 54 to 58

Special flange drillings by agreement (refer to page 220)

[1] With action "Spring closes port A-AB on air failure" the air supply pressure max. is 3,5 bar

[2] DN125 and 150 with PTFE or graphite packing.

[3] Standard for body in 1.4408

[4] Further reduced Kvs-values and higher closing pressures possible with two screwed seat rings. Standard at DN125-150 and at stainless steel DN15-100

ARI-STEVI® Smart

Pneumatic actuated control valve in 3-way-form as diverting valve

Body: EN-JL1040 / EN-JS1049 / 1.0619+N / 1.4408

Trim: Body in EN-JL1040 / EN-JS1049 / 1.0619+N: X20Cr13+QT (1.4021+QT)
Body in 1.4408: X6CrNiMoTi17-12-2 (1.4571)

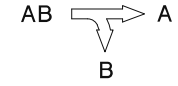
Stem sealing: Spring loaded PTFE-V-ring unit -10 ...+220 °C
Further designs up to +450°C acc. to data sheet

Flow characteristic: Linear

Rangeability: 30 : 1

Actuators: ARI-DP single acting pneumatic actuators

Action: Spring closes port A or B on air failure



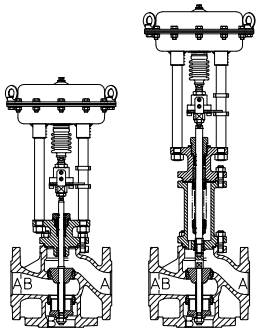


Fig. ...450 Fig. ...451
ARI-DP

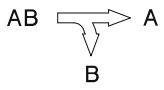
Nominal diameter						DN	15	20	25	32	40	50	65	80	100	125	150
Kvs - values			Standard				4	6,3	10	16	14	25	45	60	95	170	200
			Reduced				2,5	4	6,3	10							
DP32	Spring range (bar)	0,4-1,2	Air supply pressure (bar)	1,6	Closing pressure (bar)		9,3	6,3	5,3	3,6	4,1	2,3	1,2				
Fig. No. 12.450		PN16		EN-JL1040			1.474,-	1.496,-	1.531,-	1.585,-	1.904,-	2.151,-	2.484,-	2.946,-	3.680,-		
Fig. No. 23.450		PN16/25		EN-JS1049			1.709,-	1.712,-	1.754,-	1.823,-	2.151,-	2.409,-	2.767,-	3.265,-	4.534,-	7.495,-	
Fig. No. 35.450		PN25/40		1.0619+N			2.001,-	2.017,-	2.162,-	2.387,-	2.895,-	3.360,-	4.003,-	4.746,-	5.769,-	9.854,-	
Fig. No. 55.450		PN25/40		1.4408			2.952,-	3.188,-	3.429,-	3.992,-	4.411,-	4.863,-	6.732,-	9.209,-	12.863,-	16.464,-	
DP33	Spring range (bar)	0,2-1,0	Air supply pressure (bar)	1,2	Closing pressure (bar)		6,6 c)	4,4 c)	3,7 c)	2,4 c)	2,6 c)	1,3 c)					
		0,4-1,2		1,6			17,1 c)	11,9 c)	10,1 c)	7 c)	8,5 c)	5,1 c)	3,2	1,8	1,1		
Fig. No. 12.450		PN16		EN-JL1040			1.708,-	1.730,-	1.765,-	1.819,-	2.138,-	2.385,-	2.718,-	3.180,-	3.914,-		
Fig. No. 23.450		PN16/25		EN-JS1049			1.943,-	1.946,-	1.988,-	2.057,-	2.385,-	2.643,-	3.001,-	3.499,-	4.768,-	7.729,-	9.652,-
Fig. No. 35.450		PN25/40		1.0619+N			2.235,-	2.251,-	2.396,-	2.621,-	3.129,-	3.594,-	4.237,-	4.980,-	6.003,-	10.088,	12.528,-
Fig. No. 55.450		PN25/40		1.4408			3.186,-	3.422,-	3.663,-	4.226,-	4.645,-	5.097,-	6.966,-	9.443,-	13.097,-	16.698,-	21.973,-
DP34	Spring range (bar)	0,2-1,0	Air supply pressure (bar)	1,2	Closing pressure (bar)								3,2 b)	1,8 b)	1,1 b)		
		0,4-1,2		1,6									8,6 b)	5,3 b)	3,5 b)	2,4	1,6
Fig. No. 12.450		PN16		EN-JL1040									3.622,-	4.084,-	4.818,-		
Fig. No. 23.450		PN16/25		EN-JS1049									3.905,-	4.403,-	5.672,-	8.633,-	10.556,
Fig. No. 35.450		PN25/40		1.0619+N									5.141,-	5.884,-	6.907,-	10.992,	13.432,-
Fig. No. 55.450		PN25/40		1.4408									7.870,-	10.347,	14.001,-	17.602,-	22.877,-
DP34T	Spring range (bar)	0,2-1,0	Air supply pressure (bar)	1,2	Closing pressure (bar)										1)	1,9 b)	1,2 b)
		0,4-1,2		1,6												5,5 b)	3,7 b)
Fig. No. 12.450		PN16		EN-JL1040													
Fig. No. 23.450		PN16/25		EN-JS1049												11.509,	13.432,-
Fig. No. 35.450		PN25/40		1.0619+N												13.868,-	16.308,-
Fig. No. 55.450		PN25/40		1.4408												20.478,-	25.753,-

Special design							Additional performance										
Nominal diameter						DN	15	20	25	32	40	50	65	80	100	125	150
Stem-/bellows unit Fig. 23./35.451							474,-	474,-	532,-	532,-	551,-	551,-	573,-	625,-	663,-	728,-	789,-
Stem-/bellows unit Fig. 55.451							654,-	654,-	654,-	654,-	888,-	912,-	1.152,-	1.924,-	2.127,-	on request	
Trim X6CrNiMoTi17-12-2 (1.4571) 2)							123,-	152,-	166,-	191,-	241,-	267,-	423,-	530,-	962,-	1.298,-	1.612,-

Additional performance for further closing pressures

Fig. 450/451 as diverting valve - ARI-DP

Action: Spring closes port A or B on air failure.



Nominal diameter						DN	15	20	25	32	40	50	65	80	100	125	150
Kvs - values				Standard			4	6,3	10	16	14	25	45	60	95	170	200
				Reduced			2,5	4	6,3	10							
DP32	Spring range (bar)	0,8-2,4	Air supply pressure min. (bar)	3,2	Closing press.	bar	22,5	15,7	13,4	9,4	11,6	7,1	4,5	2,7	1,7	1,1	
					Add. performance		37,-	37,-	37,-	37,-	37,-	37,-	37,-	37,-	37,-	37,-	
		1,5-2,9		4,4	Closing press.	bar	40	32,1	27,5	19,6	24,5	15,4					
					Add. performance			50,-	50,-	50,-	50,-	50,-					
		2,0-3,8		5,8	Closing press.	bar		40	37,6	26,8	33,8	21,4					
					Add. performance					174,-	174,-	174,-					
DP33		0,8-2,4		3,2	Closing press. [3]	bar	38 [a]	26,8 [a]	23 [a]	16,3 [a]	20,3 [a]	12,7 [a]	8,5	5,2	3,5	2,4	1,6
					Add. performance		65,-	65,-	65,-	65,-	65,-	65,-	65,-	65,-	65,-	65,-	65,-
		1,5-3,0 (1,7-2,7)		4,5 (4,4)	Closing press.	bar	(40 [a])	(40 [a])	(40 [a])	(37 [a])	(40 [a])	(29,8 [a])	17,9	11,2	7,7	5,4	3,7
					Add. performance		69,-	69,-	69,-	69,-	69,-	69,-	69,-	69,-	69,-	69,-	69,-
		2,0-4,0 (2,3-3,7)		6,0 (6,0)	Closing press.	bar				(40)	(40)	(40)	24,5	15,5	10,7	7,6	5,3
					Add. performance					140,-	140,-	140,-	140,-	140,-	140,-	140,-	140,-
DP34		0,8-2,4		3,2	Closing press.	bar							19,3	12,2	8,3	5,9	4,1
					Add. performance								174,-	174,-	174,-	174,-	174,-
		2,1-3,0		5,1	Closing press.	bar							40	34,7	24	17,4	12,2
					Add. performance								192,-	192,-	192,-	192,-	192,-
		2,4-3,6		6	Closing press.	bar								39,9	27,6	20	14,1
					Add. performance									192,-	192,-	532,-	532,-
DP34T		0,8-2,4		3,2	Closing press. [1]	bar										12,5	8,7
					Add. performance											228,-	228,-
		2,1-3,0		5,1	Closing press. [1]	bar										35,4	25
					Add. performance											417,-	417,-
		2,4-3,6		6	Closing press. [1]	bar										40	28,7
					Add. performance											1.068,-	1.068,-

Air supply pressure max. 6 bar a) 5 bar b) 4,5 bar c) 4 bar d) 3,5 bar e) 3 bar

Additional performance for special design and accessories of actuators - see pages 54 to 58

Special flange drillings by agreement (refer to page 220)

[1] DN125 and 150 with PTFE or graphite packing

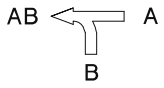
[2] Standard for body in 1.4408

[3] With action "Spring closes port B on air failure" the air supply pressure max. is 3,5 bar

ARI-STEVI® Smart

Electric actuated control valve in 3-way-form as mixing valve

Body: EN-JL1040 / EN-JS1049 / 1.0619+N / 1.4408
Trim: Body in EN-JL1040 / EN-JS1049 / 1.0619+N: X20Cr13+QT (1.4021+QT)
Body in 1.4408: X6CrNiMoTi17-12-2 (1.4571)
Stem sealing: Spring loaded PTFE-V-ring unit -10 ...+220 °C
Further designs up to +450°C acc. to data sheet
Flow characteristic: Linear
Rangeability: 30 : 1
Actuators: ARI-PREMIO®
Optional: ARI-PREMIO®-Plus 2G



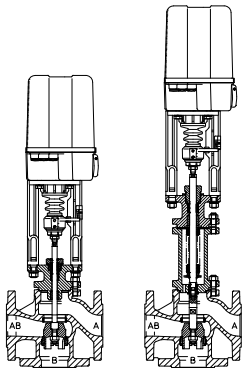


Fig. ...450 Fig. ...451
ARI-PREMIO®

Nominal diameter				DN	15	20	25	32	40	50	65	80	100	125	150
Kvs - values			Standard		4	6,3	10	16	25	40	63	100	160	250	320
			Reduced		2,5	4	6,3	10	16	25	40	63	100	160	250
PREMIO® 2,2 kN (230V)		Closing pressure		bar	40	35,9	30,8	21,7	12,8	8	4,3	2,7	1,5		
		Operating time		s	53	53	53	53	53	53	79	79	79		
Fig. No.	12.450	PN16	EN-JL1040		1.862,-	1.884,-	1.919,-	1.973,-	2.059,-	2.195,-	2.469,-	2.818,-	3.419,-		
	23.450	PN16/25	EN-JS1049		2.097,-	2.100,-	2.142,-	2.211,-	2.300,-	2.455,-	2.752,-	3.139,-	4.280,-		
	35.450	PN25/40	1.0619+N		2.389,-	2.405,-	2.550,-	2.775,-	3.046,-	3.405,-	3.989,-	4.618,-	5.507,-		
	55.450	PN25/40	1.4408		3.339,-	3.575,-	3.816,-	4.379,-	4.557,-	4.900,-	6.704,-	9.065,-	12.591,-		
PREMIO® 5 kN (100-240V)		Closing pressure		bar		40	40	40	33,2	21,3	12,3	8	4,9	3,4	2,4
		Operating time		s		53	53	53	53	53	79	79	79	132	132
Fig. No.	12.450	PN16	EN-JL1040			2.179,-	2.214,-	2.268,-	2.354,-	2.490,-	2.764,-	3.113,-	3.714,-		
	23.450	PN16/25	EN-JS1049			2.395,-	2.437,-	2.506,-	2.595,-	2.750,-	3.047,-	3.434,-	4.575,-	7.197,-	8.678,-
	35.450	PN25/40	1.0619+N			2.700,-	2.845,-	3.070,-	3.341,-	3.700,-	4.284,-	4.913,-	5.802,-	9.550,-	11.551,-
	55.450	PN25/40	1.4408			3.870,-	4.111,-	4.674,-	4.852,-	5.195,-	6.999,-	9.360,-	12.886,-	16.190,-	21.053,-
PREMIO® 12 kN (100-240V)		Closing pressure		bar					40	40	32,3	21,2	13,5	9,5	6,9
		Operating time		s					53	53	79	79	79	132	132
Fig. No.	12.450	PN16	EN-JL1040						2.876,-	3.012,-	3.286,-	3.635,-	4.236,-		
	23.450	PN16/25	EN-JS1049						3.117,-	3.272,-	3.569,-	3.956,-	5.097,-	7.719,-	9.200,-
	35.450	PN25/40	1.0619+N						3.863,-	4.222,-	4.806,-	5.435,-	6.324,-	10.072,-	12.073,-
	55.450	PN25/40	1.4408						5.374,-	5.717,-	7.521,-	9.882,-	13.408,-	16.712,-	21.575,-
PREMIO® 15 kN (100-240V)		Closing pressure		bar							40	26,9	17,2	12,1	8,8
		Operating time		s							79	79	79	132	132
Fig. No.	12.450	PN16	EN-JL1040								3.498,-	3.847,-	4.448,-		
	23.450	PN16/25	EN-JS1049								3.781,-	4.168,-	5.309,-	7.931,-	9.412,-
	35.450	PN25/40	1.0619+N								5.018,-	5.647,-	6.536,-	10.284,-	12.285,-
	55.450	PN25/40	1.4408								7.733,-	10.094,-	13.620,-	16.924,-	21.787,-
PREMIO® 25 kN (100-240V)		Closing pressure		bar										20,8	15,2
		Operating time		s										132	132
Fig. No.	12.450	PN16	EN-JL1040												
	23.450	PN16/25	EN-JS1049											8.785,-	10.266,-
	35.450	PN25/40	1.0619+N											11.138,-	13.139,-
	55.450	PN25/40	1.4408											17.778,-	22.641,-

Special design					Additional performance										
Nominal diameter				DN	15	20	25	32	40	50	65	80	100	125	150
Stem-/bellows unit Fig. 23./35.451					474,-	474,-	532,-	532,-	551,-	551,-	573,-	625,-	663,-	728,-	789,-
Stem-/bellows unit Fig. 55.451					654,-	654,-	654,-	654,-	888,-	912,-	1.152,-	1.924,-	2.127,-	on request	
Trim X6CrNiMoTi17-12-2 (1.4571) [1]					123,-	152,-	166,-	191,-	241,-	267,-	423,-	530,-	962,-	1.298,-	1.612,-
2 screwed seat rings [2]					74,-	74,-	76,-	76,-	77,-	84,-	88,-	114,-	145,-	standard	

Supply voltages, add. performance for special design and accessories of actuators - see page 60 and 61

Special flange drillings by agreement (refer to page 220)

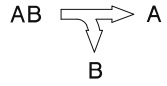
[1] Standard for body in 1.4408

[2] Further reduced Kvs-values and higher closing pressures possible with two screwed seat rings.
Standard at DN125-150 and at stainless steel DN15-100.

ARI-STEVI® Smart

Electric actuated control valve in 3-way-form as diverting valve

Body: EN-JL1040 / EN-JS1049 / 1.0619+N / 1.4408
Trim: Body in EN-JL1040 / EN-JS1049 / 1.0619+N: X20Cr13+QT (1.4021+QT)
Body in 1.4408: X6CrNiMoTi17-12-2 (1.4571)
Stem sealing: Spring loaded PTFE-V-ring unit -10 ...+220 °C
Further designs up to +450°C acc. to data sheet
Flow characteristic: Linear
Rangeability: 30 : 1
Actuators: ARI-PREMIO®
Optional: ARI-PREMIO®-Plus 2G



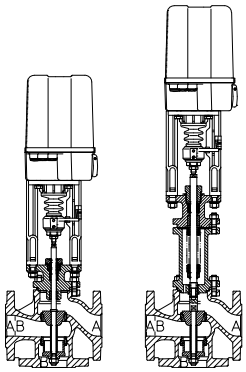


Fig. ...450 Fig. ...451
ARI-PREMIO®

Nominal diameter				DN	15	20	25	32	40	50	65	80	100	125	150
Kvs - value			Standard		4	6,3	10	16	14	25	45	60	95	170	200
			Reduced		2,5	4	6,3	10							
PREMIO® 2,2 kN (230V)		Closing pressure		bar	25,7	18	15,4	10,8	13,4	8,2	5,4	3,2	2	1,3	
		Operating time		s	53	53	53	53	53	53	79	79	79	79	
Fig. No.	12.450	PN16	EN-JL1040		1.862,-	1.884,-	1.919,-	1.973,-	2.292,-	2.539,-	2.872,-	3.334,-	4.068,-		
	23.450	PN16/25	EN-JS1049		2.097,-	2.100,-	2.142,-	2.211,-	2.539,-	2.797,-	3.155,-	3.653,-	4.922,-	7.883,-	
	35.450	PN25/40	1.0619+N		2.389,-	2.405,-	2.550,-	2.775,-	3.283,-	3.748,-	4.391,-	5.134,-	6.157,-	10.242,-	
	55.450	PN25/40	1.4408		3.340,-	3.576,-	3.817,-	4.380,-	4.799,-	5.251,-	7.120,-	9.597,-	13.251,-	16.852,-	
PREMIO® 5 kN (100-240V)		Closing pressure		bar	40	40	38,5	27,4	34,6	21,9	15	9,4	6,4	4,5	3,1
		Operating time		s	53	53	53	53	53	53	79	79	79	79	79
Fig. No.	12.450	PN16	EN-JL1040		2.157,-	2.179,-	2.214,-	2.268,-	2.587,-	2.834,-	3.167,-	3.629,-	4.363,-		
	23.450	PN16/25	EN-JS1049		2.392,-	2.395,-	2.437,-	2.506,-	2.834,-	3.092,-	3.450,-	3.948,-	5.217,-	8.178,-	10.101,-
	35.450	PN25/40	1.0619+N		2.684,-	2.700,-	2.845,-	3.070,-	3.578,-	4.043,-	4.686,-	5.429,-	6.452,-	10.537,-	12.977,-
	55.450	PN25/40	1.4408		3.635,-	3.871,-	4.112,-	4.675,-	5.094,-	5.546,-	7.415,-	9.892,-	13.546,-	17.147,-	22.422,-
PREMIO® 12 kN (100-240V)		Closing pressure		bar			40	40	40	40	38,9	24,8	17,1	12,3	8,6
		Operating time		s			53	53	53	53	79	79	79	79	79
Fig. No.	12.450	PN16	EN-JL1040				2.736,-	2.790,-	3.109,-	3.356,-	3.689,-	4.151,-	4.885,-		
	23.450	PN16/25	EN-JS1049				2.959,-	3.028,-	3.356,-	3.614,-	3.972,-	4.470,-	5.739,-	8.700,-	10.623,-
	35.450	PN25/40	1.0619+N				3.367,-	3.592,-	4.100,-	4.565,-	5.208,-	5.951,-	6.974,-	11.059,-	13.499,-
	55.450	PN25/40	1.4408				4.634,-	5.197,-	5.616,-	6.068,-	7.937,-	10.414,-	14.068,-	17.669,-	22.944,-
PREMIO® 15 kN (100-240V)		Closing pressure		bar							40	31,4	21,7	15,7	11
		Operating time		s							79	79	79	79	79
Fig. No.	12.450	PN16	EN-JL1040								3.901,-	4.363,-	5.097,-		
	23.450	PN16/25	EN-JS1049								4.184,-	4.682,-	5.951,-	8.912,-	10.835,-
	35.450	PN25/40	1.0619+N								5.420,-	6.163,-	7.186,-	11.271,-	13.711,-
	55.450	PN25/40	1.4408								8.149,-	10.626,-	14.280,-	17.881,-	23.156,-
PREMIO® 25 kN (100-240V)		Closing pressure		bar										26,9	19
		Operating time		s										79	79
Fig. No.	12.450	PN16	EN-JL1040												
	23.450	PN16/25	EN-JS1049											9.766,-	11.689,-
	35.450	PN25/40	1.0619+N											12.125,-	14.565,-
	55.450	PN25/40	1.4408											18.735,-	24.010,-
Special design					Additional performance										
Nominal diameter				DN	15	20	25	32	40	50	65	80	100	125	150
Stem-/bellows unit Fig. 23./35.451					474,-	474,-	532,-	532,-	551,-	551,-	573,-	625,-	663,-	728,-	789,-
Stem-/bellows unit Fig. 55.451					654,-	654,-	654,-	654,-	888,-	912,-	1.152,-	1.924,-	2.127,-	on request	
Trim X6CrNiMoTi17-12-2 (1.4571) [1]					123,-	152,-	166,-	191,-	241,-	267,-	423,-	530,-	962,-	1.298,-	1.612,-

Supply voltages, add. performance for special design and accessories of actuators - see page 60 and 61

Special flange drillings by agreement (refer to page 220)

[1] Standard for body in 1.4408

ARI-STEVI® Smart

Electric actuated control valve in 3-way-form as mixing valve

Body: EN-JL1040 / EN-JS1049 / 1.0619+N / 1.4408

Trim: Body in EN-JL1040 / EN-JS1049 / 1.0619+N: X20Cr13+QT (1.4021+QT)
Body in 1.4408: X6CrNiMoTi17-12-2 (1.4571)

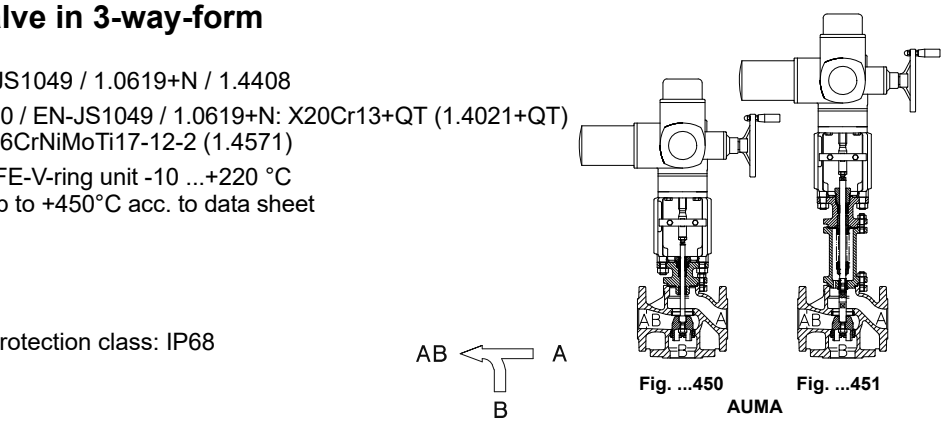
Stem sealing: Spring loaded PTFE-V-ring unit -10 ...+220 °C
Further designs up to +450°C acc. to data sheet

Flow characteristic: Linear

Rangeability: 30 : 1

Actuators: AUMA

Supply voltage: 400V 50Hz 3~ Protection class: IP68



Nominal diameter					DN			25	32	40	50	65	80	100	125	150
Kvs - values			Standard					10	16	25	40	63	100	160	250	320
			Reduced					6,3	10	16	25	40	63	100	160	250
AUMA SAR 07.2		Closing pressure	Shut off	bar				40	40	40	40	40	29,7	19	13,4	9,7
			Control	bar				40	40	40	36,5	21,4	14	8,8	6,1	4,4
		Operating time		s				54	54	54	54	56	56	56	94	94
Fig. No.	12.450	PN16	EN-JL1040					5.059,-	5.113,-	5.199,-	5.335,-	5.609,-	5.958,-	6.559,-		
	23.450	PN16/25	EN-JS1049					5.282,-	5.351,-	5.440,-	5.595,-	5.892,-	6.279,-	7.420,-	10.042,-	11.523,-
	35.450	PN25/40	1.0619+N					5.690,-	5.915,-	6.186,-	6.545,-	7.129,-	7.758,-	8.647,-	12.395,-	14.396,-
	55.450	PN25/40	1.4408					6.956,-	7.519,-	7.697,-	8.040,-	9.844,-	12.205,-	15.731,-	19.035,-	23.898,-
AUMA SAR 07.6		Closing pressure	Shut off	bar							40	40	40	26,9	18,9	13,8
			Control	bar							40	30,5	20	12,8	8,9	6,5
		Operating time		s							43	64	64	64	55	55
Fig. No.	12.450	PN16	EN-JL1040								5.480,-	5.754,-	6.103,-	6.704,-		
	23.450	PN16/25	EN-JS1049								5.740,-	6.037,-	6.424,-	7.565,-	10.187,-	11.668,-
	35.450	PN25/40	1.0619+N								6.690,-	7.274,-	7.903,-	8.792,-	12.540,-	14.541,-
	55.450	PN25/40	1.4408								8.185,-	9.989,-	12.350,-	15.876,-	19.180,-	24.043,-
AUMA SAR10.2		Closing pressure	Shut off	bar								40	40	31,6	32,3	23,7
			Control	bar								40	40	26,9	18,9	13,8
		Operating time		s								64	64	64	55	55
Fig. No.	12.450	PN16	EN-JL1040													
	23.450	PN16/25	EN-JS1049												11.405,-	12.886,-
	35.450	PN25/40	1.0619+N												13.758,-	15.759,-
	55.450	PN25/40	1.4408												20.398,-	25.261,-
AUMA SAR14.2		Closing pressure [1]	Shut off	bar											40	40
			Control	bar											31,3	22,9
		Operating time		s											63	63
Fig. No.	12.450	PN16	EN-JL1040													
	23.450	PN16/25	EN-JS1049												14.115,-	15.596,-
	35.450	PN25/40	1.0619+N												16.468,-	18.469,-
	55.450	PN25/40	1.4408												23.108,-	27.971,-

Special design		Additional performance									
Nominal diameter	DN			25	32	40	50	65	80	100	125	150
Stem-/bellows unit Fig. 23./35.451				532,-	532,-	551,-	551,-	573,-	625,-	663,-	728,-	789,-
Stem-/bellows unit Fig. 55.451				654,-	654,-	888,-	912,-	1.152,-	1.924,-	2.127,-	on request	
Trim X6CrNiMoTi17-12-2 (1.4571) [2]				166,-	191,-	241,-	267,-	423,-	530,-	962,-	1.298,-	1.612,-
2 screwed seat rings [3]				76,-	76,-	77,-	84,-	88,-	114,-	145,-	standard	

Add. performance for special design and accessories of actuators - see page 64

Special flange drillings by agreement (refer to page 220)

[1] DN125 and 150 with PTFE or graphite packing.

[2] Standard for body in 1.4408

[3] Further reduced Kvs-values and higher closing pressures possible with two screwed seat rings.
Standard at DN125-150 and at stainless steel DN15-100.

ARI-STEVI® Smart

Electric actuated control valve in 3-way-form as diverting valve

Body: EN-JL1040 / EN-JS1049 / 1.0619+N / 1.4408

Trim: Body in EN-JL1040 / EN-JS1049 / 1.0619+N: X20Cr13+QT (1.4021+QT)
Body in 1.4408: X6CrNiMoTi17-12-2 (1.4571)

Stem sealing: Spring loaded PTFE-V-ring unit -10 ...+220 °C
Further designs up to +450°C acc. to data sheet

Flow characteristic: Linear

Rangeability: 30 : 1

Actuators: AUMA

Supply voltage: 400V 50Hz 3~ Protection class: IP68

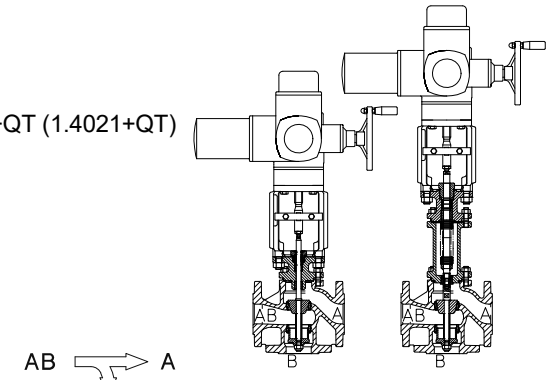


Fig. ...450 Fig. ...451

AUMA

Nominal diameter				DN			25	32	40	50	65	80	100	125	150
Kvs - values		Standard					10	16	14	25	45	60	95	170	200
							6,3	10							
AUMA SAR 07.2		Closing pressure	Shut off	bar			40	40	40	40	40	34,7	24	17,4	12,2
			Control	bar			40	40	40	37,6	25,8	16,4	11,2	8	5,6
		Operating time		s			54	54	54	54	56	56	56	56	56
Fig. No.	12.450	PN16	EN-JL1040				5.059,-	5.113,-	5.432,-	5.679,-	6.012,-	6.474,-	7.208,-		
	23.450	PN16/25	EN-JS1049				5.282,-	5.351,-	5.679,-	5.937,-	6.295,-	6.793,-	8.062,-	11.023,-	12.946,-
	35.450	PN25/40	1.0619+N				5.690,-	5.915,-	6.423,-	6.888,-	7.531,-	8.274,-	9.297,-	13.382,-	15.822,-
	55.450	PN25/40	1.4408				6.957,-	7.520,-	7.939,-	8.391,-	10.260,-	12.737,-	16.391,-	19.992,-	25.267,-
AUMA SAR 07.6		Closing pressure	Shut off	bar						40	40	40	33,9	24,6	17,3
			Control	bar						40	36,8	23,4	16,2	11,6	8,1
		Operating time		s						43	64	64	64	64	64
Fig. No.	12.450	PN16	EN-JL1040							5.824,-	6.157,-	6.619,-	7.353,-		
	23.450	PN16/25	EN-JS1049							6.082,-	6.440,-	6.938,-	8.207,-	11.168,-	13.091,-
	35.450	PN25/40	1.0619+N							7.033,-	7.676,-	8.419,-	9.442,-	13.527,-	15.967,-
	55.450	PN25/40	1.4408							8.536,-	10.405,-	12.882,-	16.536,-	20.137,-	25.412,-
AUMA SAR10.2		Closing pressure	Shut off	bar							40	40	39,8	40	29,5
			Control	bar							40	40	33,9	24,6	17,3
		Operating time		s							64	64	64	64	64
Fig. No.	12.450	PN16	EN-JL1040												
	23.450	PN16/25	EN-JS1049											12.386,-	14.309,-
	35.450	PN25/40	1.0619+N											14.745,-	17.185,-
	55.450	PN25/40	1.4408											21.355,-	26.630,-
AUMA SAR14.2		Closing pressure [1]	Shut off	bar										40	40
			Control	bar										40	28,6
		Operating time		s										38	38
Fig. No.	12.450	PN16	EN-JL1040												
	23.450	PN16/25	EN-JS1049											15.096,-	17.019,-
	35.450	PN25/40	1.0619+N											17.455,-	19.895,-
	55.450	PN25/40	1.4408											24.065,-	29.340,-

Special design							Additional performance								
Nominal diameter				DN			25	32	40	50	65	80	100	125	150
Stem-/bellows unit Fig. 23./35.451							532,-	532,-	551,-	551,-	573,-	625,-	663,-	728,-	789,-
Stem-/bellows unit Fig. 55.451							654,-	654,-	888,-	912,-	1.152,-	1.924,-	2.127,-	on request	
Trim X6CrNiMoTi17-12-2 (1.4571) [2]							166,-	191,-	241,-	267,-	423,-	530,-	962,-	1.298,-	1.612,-

Add. performance for special design and accessories of actuators - see page 64

Special flange drillings by agreement (refer to page 220)

[1] DN125 and 150 with PTFE or graphite packing

[2] Standard for body in 1.4408

ARI-STEVI® Smart

Pneumatic actuated control valve in 3-way-form as mixing / diverting valve

Body: EN-JL1040 / EN-JS1049 / 1.0619+N
Trim: X20Cr13+QT (1.4021+QT)
Stem sealing: PTFE-packing -10 ...+250 °C
Further designs up to +450°C acc. to data sheet
Flow characteristic: Linear
Rangeability: 30 : 1
Actuators: ARI-DP single acting pneumatic actuators
Action: Spring closes port A or B on air failure
Closing pressures for standard Kvs-values

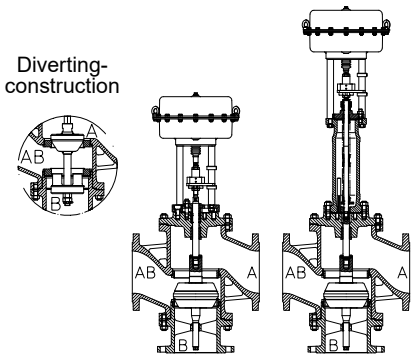


Fig. ...423 Fig. ...463
ARI-DP

Nominal diameter						DN	Mixing valve AB ⇐ A, B		Diverting valve AB ⇒ A, B	
							200	250	200	250
Kvs - values			Standard				630	1000	355	560
			Reduced				400	630	212	355
DP34	Spring range (bar)	0,4-1,2	Air supply pressure (bar)	1,6	Closing pressure (bar)					
Fig. No. 12.423		PN16		EN-JL1040			10.080,-	14.985,-	12.552,-	18.840,-
Fig. No. 22.423		PN16		EN-JS1049			12.532,-	18.908,-	15.003,-	22.763,-
Fig. No. 35.423		PN25/40		1.0619+N			18.632,-	28.657,-	21.105,-	32.514,-
DP 34T	Spring range (bar)	0,4-1,2	Air supply pressure (bar)	1,6	Closing pressure (bar)		1,3 d)		2,5 d)	1,7 d)
Fig. No. 12.423		PN16		EN-JL1040			12.956,-	17.861,-	15.428,-	21.716,-
Fig. No. 22.423		PN16		EN-JS1049			15.408,-	21.784,-	17.879,-	25.639,-
Fig. No. 35.423		PN25/40		1.0619+N			21.508,-	31.533,-	23.981,-	35.390,-

Additional performance for further closing pressures

Nominal diameter							DN	200	250	200	250
Kvs - values				Standard				630	1000	355	560
				Reduced				400	630	212	355
DP34	Spring range (bar)	1,0-2,0 (0,8-2,4)	Air supply pressure min. (bar)	3,2 (3,2)	Closing press.	bar		1,8	1,1	(2,5)	2,3
					Add. performance			174,-	174,-	174,-	174,-
		1,5-3,0		4,5	Closing press.	bar		--	--	5,6	--
					Add. performance			--	--	192,-	--
		2,0-4,0		6,0	Closing press.	bar		4,3	2,6	7,8	5,3
					Add. performance			921,-	921,-	921,-	921,-
DP34T		1,0-2,0 (0,8-2,4)		3,2 (3,2)	Closing press.	bar		4,3 a)	2,6 a)	(6)	5,3 a)
					Add. performance			348,-	348,-	348,-	348,-
		1,5-3,0		4,5	Closing press.	bar		--	--	12,2	--
					Add. performance			--	--	192,-	--
		2,0-4,0		6,0	Closing press.	bar		9,2	5,8	16,6	11,5
					Add. performance			1.839,-	1.839,-	1.839,-	1.839,-
Special design								Additional performance		Additional performance	
Nominal diameter							DN	200	250	200	250
Stem-/bellows unit Fig. 22./35.463								1.326,-	2.351,-	1.326,-	2.351,-

Air supply pressure max. 6 bar a) 5 bar b) 4,5 bar c) 4 bar d) 3,5 bar e) 3 bar

Additional performance for special design and accessories of actuators - see pages 54 to 58

Larger nominal diameters on page 49

Special flange drillings by agreement (refer to page 220)

ARI-STEVI® Smart

Pneumatic actuated control valve in 3-way-form as mixing valve

Body: EN-JS1049
Trim: X20Cr13+QT (1.4021+QT)
Stem sealing: PTFE packing -10 ...+250 °C
Further designs up to +350°C acc. to data sheet
Flow characteristic: Linear
Rangeability: 30 : 1
Actuators: ARI-DP single acting pneumatic actuators
Action: Spring closes port A or B on air failure

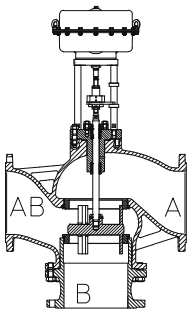


Fig. 423
ARI-DP
DN300

Nominal diameter						DN	Mixing valve AB ⇐ A, B	
							300	
Kvs - values		Standard						1500
		Reduced					1000	
DP34	Spring range (bar)	1,0-2,0	Air supply pressure (bar)	3,0	Closing pressure (bar)		1,1	
Fig. No.	22.423	PN16		EN-JS1049			on request	
DP34	Spring range (bar)	2,0-4,0	Air supply pressure (bar)	6,0	Closing pressure (bar)		2,6	
Fig. No.	22.423	PN16		EN-JS1049			on request	
DP34 T	Spring range (bar)	0,55-2,40	Air supply pressure (bar)	3,0	Closing pressure (bar)			1,2
Fig. No.	22.423	PN16		EN-JS1049				on request
DP34 T	Spring range (bar)	1,0-2,0	Air supply pressure (bar)	3,0	Closing pressure (bar)		2,6 a)	
Fig. No.	22.423	PN16		EN-JS1049			on request	
DP34 T	Spring range (bar)	2,0-4,0	Air supply pressure (bar)	6,0	Closing pressure (bar)		5,8	
Fig. No.	22.423	PN16		EN-JS1049			on request	
DP35	Spring range (bar)	2,3-3,6	Air supply pressure (bar)	5,9	Closing pressure (bar)		13	12,4
Fig. No.	22.423	PN16		EN-JS1049			on request	

Air supply pressure max. 6 bar a) 5 bar b) 4,5 bar c) 4 bar d) 3,5 bar e) 3 bar

Additional performance for special design and accessories of actuators - see pages 54 to 58

ARI-STEVI® Smart

Electric actuated control valve in 3-way-form as mixing / diverting valve

Body: EN-JL1040 / EN-JS1049 / 1.0619+N
Trim: X20Cr13+QT (1.4021+QT)
Stem sealing: PTFE-packing -10 ...+250 °C
Further designs up to +450°C acc. to data sheet
Flow characteristic: Linear
Rangeability: 30 : 1
Actuators: ARI-PREMIO®
Optional: ARI-PREMIO®-Plus 2G
Actuators: AUMA
Supply voltage: 400V 50Hz 3~ Protection class: IP68

Diverting-construction

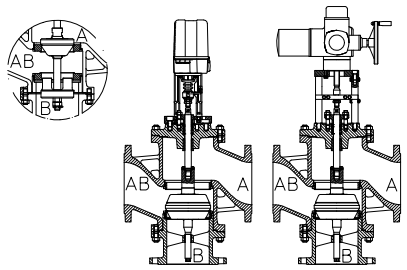


Fig. 423
ARI-PREMIO®
DN200-250

Fig. 423
AUMA
DN200-250

Closing pressures for standard Kvs-values

Nominal diameter				DN	Mixing valve AB ← A, B		Diverting valve AB → A, B	
					200	250	200	250
Kvs - values		Standard			630	1000	355	560
		Reduced			400	630	212	355
PREMIO® 12 kN (100-240V)		Closing pressure		bar	3,1	1,9	5,7	3,9
		Operating time		s	171	171	132	171
Fig. No.	12.423	PN16	EN-JL1040		10.147,-	15.052,-	12.619,-	18.907,-
	22.423	PN16	EN-JS1049		12.599,-	18.975,-	15.070,-	22.830,-
	35.423	PN25/40	1.0619+N		18.699,-	28.724,-	21.172,-	32.581,-
PREMIO® 15 kN (100-240V)		Closing pressure		bar	4	2,5	7,4	5,1
		Operating time		s	171	171	132	171
Fig. No.	12.423	PN16	EN-JL1040		10.359,-	15.264,-	12.831,-	19.119,-
	22.423	PN16	EN-JS1049		12.811,-	19.187,-	15.282,-	23.042,-
	35.423	PN25/40	1.0619+N		18.911,-	28.936,-	21.384,-	32.793,-
PREMIO® 25 kN (100-240V)		Closing pressure		bar	7,2	4,5	13,0	9,0
		Operating time		s	171	171	132	171
Fig. No.	12.423	PN16	EN-JL1040		11.213,-	16.118,-	13.685,-	19.973,-
	22.423	PN16	EN-JS1049		13.665,-	20.041,-	16.136,-	23.896,-
	35.423	PN25/40	1.0619+N		19.765,-	29.790,-	22.238,-	33.647,-
AUMA SAR 07.6		Closing pressure	shut off	bar	6,6	4,1	11,9	8,2
			control	bar	2,9	1,8	5,5	3,7
		Operating time		s	71	71	55	71
Fig. No.	12.423	PN16	EN-JL1040		12.615,-	17.520,-	15.087,-	21.375,-
	22.423	PN16	EN-JS1049		15.067,-	21.443,-	17.538,-	25.298,-
	35.423	PN25/40	1.0619+N		21.167,-	31.192,-	23.640,-	35.049,-
AUMA SAR 10.2		Closing pressure	shut off	bar	13,9	8,8	24,8	17,2
			control	bar	6,6	4,1	11,9	8,2
		Operating time		s	71	71	55	71
Fig. No.	12.423	PN16	EN-JL1040		13.833,-	18.738,-	16.305,-	22.593,-
	22.423	PN16	EN-JS1049		16.285,-	22.661,-	18.756,-	26.516,-
	35.423	PN25/40	1.0619+N		22.385,-	32.410,-	24.858,-	36.267,-
AUMA SAR 14.2		Closing pressure	shut off	bar	23,9	15,3	40	29,6
			control	bar	11,1	7,1	20	13,8
		Operating time		s	59	59	63	59
Fig. No.	12.423	PN16	EN-JL1040		16.543,-	21.448,-	19.015,-	25.303,-
	22.423	PN16	EN-JS1049		18.995,-	25.371,-	21.466,-	29.226,-
	35.423	PN25/40	1.0619+N		25.095,-	35.120,-	27.568,-	38.977,-
Special design					Additional performance		Additional performance	
Nominal diameter				DN	200	250	200	250
Stem-/bellows unit Fig. 22./35.463					1.326,-	2.351,-	1.326,-	2.351,-

Supply voltages, add. performance for special design and accessories of actuators - see pages 60, 61 and 64
Special flange drillings by agreement (refer to page 220)

Larger nominal diameters on page 51

ARI-STEVI® Smart

Electric actuated control valve in 3-way-form as mixing valve

Body: EN-JS1049
Trim: X20Cr13+QT (1.4021+QT)
Stem sealing: PTFE packing -10 ...+250 °C
Further designs up to +350°C acc. to data sheet
Flow characteristic: Linear
Rangeability: 30 : 1
Actuator: ARI-PREMIO®
Optional: ARI-PREMIO®-Plus 2G
Actuators: AUMA
Supply voltage: 400V 50Hz 3~ Protection class: IP68

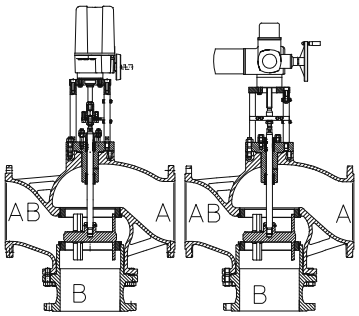


Fig. 423
ARI-PREMO®
DN300

Fig. 423
AUMA
DN300

Nominal diameter				DN	Mixing valve AB ⇐ A, B	
					300	
Kvs - values		Standard				1500
		Reduced			1000	
PREMIO® 12 kN (100-240V)		Closing pressure		bar	1,9	
		Operating time		s	171	197
Fig. No.	22.423	PN16	EN-JS1049		on request	
PREMIO® 15 kN (100-240V)		Closing pressure		bar	2,5	
		Operating time		s	171	197
Fig. No.	22.423	PN16	EN-JS1049		on request	
PREMIO® 25 kN (100-240V)		Closing pressure		bar	4,3	
		Operating time		s	171	197
Fig. No.	22.423	PN16	EN-JS1049		on request	
AUMA SAR 07.6		Closing pressure	shut off	bar	4,1	
			control	bar	2,2	
		Operating time		s	71	82
Fig. No.	22.423	PN16	EN-JS1049		on request	
AUMA SAR 10.2		Closing pressure	shut off	bar	8,8	
			control	bar	4,5	
		Operating time		s	71	82
Fig. No.	22.423	PN16	EN-JS1049		on request	
AUMA SAR 14.2		Closing pressure	shut off	bar	15,2	
			control	bar	7,4	
		Operating time		s	59	68
Fig. No.	22.423	PN16	EN-JS1049		on request	

Supply voltages, add. performance for special design and accessories of actuators - see pages 60, 61 and 64

ARI-STEVI® Pro

Electric actuated feedwater control valve with pump spill back

Body: 1.0619+N
Trim: X20Cr13+QT (1.4021+QT)
Stem sealing: EPDM-sealing -10 ...+180 °C
Flow characteristic: Equal percentage or linear
Rangeability: 30 : 1
Actuators: ARI-PREMIO®**-Plus 2G**
Optional: ARI-PREMIO®

Closing pressures for standard Kvs-values

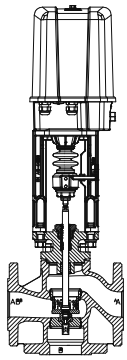


Fig. ...453
ARI-PREMIO ®-Plus 2G

Nominal diameter				**DN**	**25**	**32**	**40**	**50**	**65**	**80**	**100**
Kvs - values		**Straight through**	**Standard**		**6,3**	**10**	**16**	**25**	**40**	**63**	**100**
			Reduced		**4 / 2,5 / 1,6 / 1**	**6,3 / 4 / 2,5**	**10 / 6,3 / 4**	**16 / 10 / 6,3**	**25 / 16 / 10**	**40 / 25 / 16**	**63 / 40 / 25**
		Bypass	**Standard**		**0,63**	**1**	**1,6**	**2,5**	**4**	**6,3**	**10**
			Reduced		**0,4 / 0,25 / 0,16 / 0,1**	**0,6 / 0,4 / 0,25**	**1 / 0,63 / 0,4**	**1,6 / 1 / 0,63**	**2,5 / 1,6 / 1**	**4 / 2,5 / 1,6**	**6,3 / 4 / 2,5**
PREMIO®-Plus 2G 2,2 kN (100-240V)		Closing pressure		bar	15,4	11,6	6,4	4,0			
		Operating time		s	53	53	53	53			
Fig. No.	35.453	PN40	1.0619+N		3.513,-	3.649,-	4.020,-	4.384,-			
PREMIO®-Plus 2G 5 kN (100-240V)		Closing pressure		bar	38,5	29,2	16,6	10,6	6,2	4,0	2,5
		Operating time		s	53	53	53	53	79	79	79
Fig. No.	35.453	PN40	1.0619+N		3.807,-	3.943,-	4.314,-	4.678,-	5.394,-	6.163,-	7.254,-
PREMIO®-Plus 2G 12 kN (100-240V)		Closing pressure		bar	40	40	40	27,2	16,1	10,6	6,8
		Operating time		s	53	53	53	53	79	79	79
Fig. No.	35.453	PN40	1.0619+N		4.329,-	4.465,-	4.836,-	5.200,-	5.916,-	6.685,-	7.776,-
PREMIO®-Plus 2G 15 kN (100-240V)		Closing pressure		bar					20,4	13,4	8,6
		Operating time		s					79	79	79
Fig. No.	35.453	PN40	1.0619+N						6.131,-	6.900,-	7.991,-
Special design					**Additional performance**						
Nominal diameter				**DN**	**25**	**32**	**40**	**50**	**65**	**80**	**100**
Adapter flange (to make compatible to other design)					on request						

Supply voltages, add. performance for special design and accessories of actuators - see page 60 and 61

Special flange drillings by agreement (refer to page 220)

ARI-STEVI® H

Compact control valve in 3-way form as mixing valve for water

Body: EN-JL1040

Trim: DN15-100: Brass 2.0401 / X6CrNiMoTi17-12-2 (1.4571)
DN125-150: X20Cr13+QT (1.4021+QT) / X6CrNiMoTi17-12-2 (1.4571)

Stem sealing: O-rings 0 ...+130 °C Special design acc. to data sheet

Flow characteristic: A equal percentage / B linear

Positioning ratio: 30 : 1

Leakage rate: DN15-100: tight shut off acc. to DIN EN 12266-1 Leakage rate A
DN125-150: 0,05% of the Kvs value

Actuators: ARI-PACO® / ARI-PACO® 2G
ARI-PREMIO®
Optional: ARI-PREMIO®-Plus 2G

(Operating limit: max. flow speed 2m/s)

Details for actuator refer to pages 61 and 65

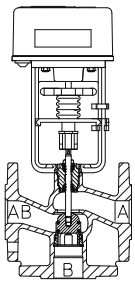


Fig. 485
ARI-PACO®

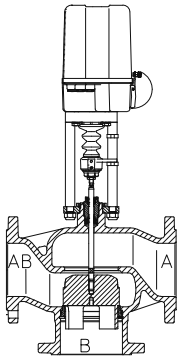


Fig. 485
ARI-PREMIO®

Nominal diameter				DN	15	20	25	32	40	50	65	80	100	125	150
Kvs - values		Standard			4	6,3	10	16	25	40	63	100	160	220	320
		Reduced			2,5/1,6/1/ 0,63	4	6,3	10	16	25	40	63	100	--	--
PACO® 0,85 D		Closing pressure		bar	16	16	11,3	8,3	4,4	2,6					
		Operating time		s	127	127	127	127	127	127					
Fig. No.	12.485	PN16	EN-JL1040		737,-	843,-	854,-	894,-	914,-	955,-					
PACO® 2G 1,6 D		Closing pressure		bar							3,2	2	1,2		
		Operating time		s							120	120	120		
Fig. No.	12.485	PN16	EN-JL1040								1.373,-	1.583,-	2.056,-		
PREMIO® 2,2kN (230V)		Closing pressure		bar										1,1	0,7
		Operating time		s										105	105
Fig. No.	12.485	PN16	EN-JL1040											3.249,-	3.678,-
PREMIO® 5kN (100-240V)		Closing pressure		bar										3,3	2,2
		Operating time		s										105	105
Fig. No.	12.485	PN16	EN-JL1040											3.544,-	3.974,-
Special design					Additional performance										
Nominal diameter				DN	15	20	25	32	40	50	65	80	100	125	150
Spindle heating 24V 50Hz					355,-										

Supply voltages, add. performance for special design and accessories of actuators - see pages 60, 61 and 65

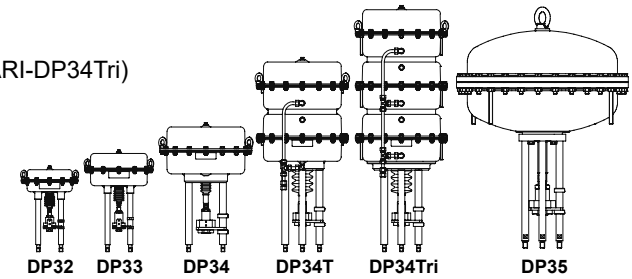
Pneumatic actuators ARI-DP

Mounting parts: With coupling acc. to DIN IEC 60534 part 6 (Namur) and travel indicator

Action: Single acting;
Options: Stem extend on air failure
Stem retract on air failure (not for ARI-DP34Tri)

Air connection: ARI-DP32, ARI-DP33 G1/4"; ARI-DP34 G3/8", ARI-DP34T G3/8"; ARI-DP34Tri G1/2", ARI-DP35 G1"

Max. air supply: 6 bar (ARI-DP34Tri: 5 bar)



Pneumatic actuators (Operating mode: Extended or retracted stem on air failure)					
DP32	**250 cm²**		Travel 20/30 mm 0,4-1,2 bar		775,-
		Additional performance for further spring ranges	Travel 20/30 mm 0,8-2,4 bar		37,-
			Travel 20 mm 1,5-2,9 bar		50,-
			Travel 20 mm 2,0-3,8 bar		174,-
DP33	**400 cm²**		Travel 20/30 mm 0,2-1,0 bar	Travel 20/30 mm 0,4-1,2 bar	1.009,-
		Additional performance for further spring ranges	Travel 20/30 mm 0,8-2,4 bar		65,-
			Travel 20 mm 1,7-2,7 bar	Travel 30 mm 1,5-3,0 bar	69,-
			Travel 20 mm 2,3-3,7 bar	Travel 30 mm 2,0-4,0 bar	140,-
DP34	**800 cm²**		Travel 30/50 mm 0,2-1,0 bar	Travel 30/50 mm 0,4-1,2 bar	1.913,-
			Travel 65 mm 0,2-1,0 bar	Travel 65 mm 0,4-1,2 bar	
		Additional performance for further spring ranges	Travel 30/50 mm 0,8-2,4 bar		174,-
			Travel 65 mm 1,0-2,0 bar		174,-
			Travel 30 mm 2,1-3,0 bar	Travel 50 mm 1,5-3,0 bar	192,-
			Travel 30 mm 2,4-3,6 bar	Travel 50 mm 2,0-4,0 bar	532,-
			Travel 65 mm 2,0-4,0 bar		921,-
DP34T	**1600 cm²**		Travel 30/50 mm 0,2-1,0 bar	Travel 30/50 mm 0,4-1,2 bar	4.789,-
			Travel 65 mm 0,2-1,0 bar	Travel 65 mm 0,4-1,2 bar	
		Additional performance for further spring ranges	Travel 30/50 mm 0,8-2,4 bar		228,-
			Travel 65 mm 1,0-2,0 bar		348,-
			Travel 30 mm 2,1-3,0 bar	Travel 50 mm 1,5-3,0 bar	362,-
			Travel 30 mm 2,4-3,6 bar	Travel 50 mm 2,0-4,0 bar	1.068,-
			Travel 65 mm 2,0-4,0 bar		1.839,-
DP34Tri (only Operating mode: "extended stem on air failure")	**2400 cm²**		Travel 30/50 mm 0,2-1,0 bar	Travel 30/50 mm 0,4-1,2 bar	9.077,-
			Travel 65 mm 0,2-1,0 bar	Travel 65 mm 0,4-1,2 bar	
		Additional performance for further spring ranges	Travel 30/50 mm 0,8-2,4 bar		296,-
			Travel 65 mm 0,8-2,4 bar	Travel 75 mm 0,55-2,4 bar	468,-
			Travel 65 mm 1,0-2,0 bar		455,-
			Travel 30 mm 2,1-3,0 bar	Travel 50 mm 1,5-3,0 bar	417,-
			Travel 30 mm 2,4-3,6 bar	Travel 50 mm 2,0-4,0 bar	1.386,-
			Travel 65 mm 2,0-4,0 bar		1.398,-
DP35	**2800 cm²**		max. Travel 120 mm 1,8-3,8 bar		on request

Other options			
Piping of the air chambers to a supply air	with stainless steel pipe and fitting of steel	DP34T-34Tri	standard
	with stainless steel pipe and fitting	DP34T-34Tri	297,-
Top mounted handwheel	top mounted	DP32-33	504,-
		DP34	1.150,-
	top mounted with worm gear	DP34T-34Tri	3.534,-
	top mounted with bevel gear	DP35	on request
Travel limiter (adjustable, mechanical stop on the drive)	for opening and closing direction	DP32	365,-
		DP33	460,-
		DP34	964,-
		DP34T-34Tri	956,-
Damping cylinder (hydraulic)	size 1	DP32-33	5.049,-
	size 2	DP34-34T	5.404,-

Accessories for pneumatic actuators ARI-DP

Electro-pneumatic positioner (allocation of valve control and control signal)								
EPS 13	Foxboro Eckardt SRI986	2-wire		0/4-20mA	IP54	-40°C up to +80°C	DP32-35	951,-
EPS 14	Foxboro Eckardt SRI986	2-wire	II 2 G Ex ia IIC T4	0/4-20mA	IP54	-40°C up to +80°C	DP32-35	962,-
EPS 15.2	Siemens SIPART PS2	2-wire		4-20mA	IP66	-30°C up to +80°C	DP30-35	1.772,-
		2/3/4-wire		0/4-20mA	IP66	-30°C up to +80°C	DP30-35	1.844,-
		HART 2-wire		4-20mA	IP66	-30°C up to +80°C	DP30-35	2.054,-
		Profibus PA			IP66	-30°C up to +80°C	DP30-35	2.341,-
EPS 16.2	Siemens SIPART PS2 EX	2-wire intrinsic safe	II 2 G Ex ia IIC T4 Gb	4-20mA	IP66	-30°C up to +80°C	DP30-35	1.887,-
		HART 2/3/4-wire intrinsic safe	II 2 G Ex ia IIC T4 Gb	0/4-20mA	IP66	-30°C up to +80°C	DP30-35	2.204,-
		Profibus PA intrinsic safe	II 2 G Ex ia IIC T4 Gb		IP66	-30°C up to +75°C	DP30-35	2.461,-
		2-wire pressure-resistant casing Ex d	II 2 G Ex d IIC T4 Gb	4-20mA	IP66	-30°C up to +80°C	DP30-35	3.014,-
		Profibus PA pressure-resistant casing Ex d	II 2 G Ex d IIC T4 Gb		IP66	-30°C up to +80°C	DP30-35	3.362,-
Siemens	Sipart PS 100	2-wire Body: aluminium / polycarbonate		4-20mA	IP66	-20°C up to +80°C	DP30-35	1.392,-
			Incl. analogue feedback signal	4-20mA	IP66	-20°C up to +80°C	DP30-35	1.761,-
		2-wire Body: aluminium		4-20mA	IP66	-20°C up to +80°C	DP30-35	1.492,-
			Incl. analogue feedback signal	4-20mA	IP66	-20°C up to +80°C	DP30-35	1.850,-
EPS 33	YTC YT-3300	2-wire		4-20mA	IP66	-30°C up to +85°C	DP30-35	1.355,-
			Incl. analogue feedback signal	4-20mA	IP66	-30°C up to +85°C	DP30-35	1.446,-
ABB	TZID-C	2-wire		4-20mA	IP65	-40°C up to +85°C	DP30-35	2.294,-
		HART 2-wire		4-20mA (FSK-Module)	IP65	-40°C up to +85°C	DP30-35	2.782,-
Options		Direct mounting (add. costs)	EPS 15.2 ... / EPS 16.2 ... for DP32/33 with stem extending on air failure				DP32-33	233,-
		Fitting and adjustment acc. to DIN IEC 60534 T6 Positioner provided by the customer					DP32-35	301,-

Further positioner and versions on request.

Accessories for positioner			
EPS 13 EPS 14	Manometer	Set with 2 manometer	610,-
EPS15.2	Analogue feedback signal	4-20mA (IY module)	463,-
	Limit signal switches	2 proximity switch (SIA module)	865,-
		2 mechanic switch contacts (limit value contact module)	534,-
		3 alarm-contacts 1 binary input (alarm module)	399,-
	Manometer	Fragment with 2 manometers (Manometer plastic, block aluminium)	257,-
EPS16.2	Analogue feedback signal	4-20mA (IY module)	493,-
	Limit signal switches	2 proximity switch (SIA module)	890,-
		2 mechanic switch contacts (limit value contact module)	598,-
		3 alarm-contacts 1 binary input (alarm module)	435,-
	Manometer	Fragment with 2 manometers (Manometer plastic, block aluminium)	257,-
Siemens PS 100	Manometer	Fragment with 2 manometers (Manometer plastic, block aluminium)	254,-
EPS 33	Manometer	Fragment with 1 manometer (Manometer steel, block aluminium)	114,-
ABB TZID-C	Analogue feedback signal	4-20mA	589,-
	Limit signal switches	2 proximity switch	801,-
		2 mechanic switch contacts	381,-
	Manometer	Fragment with 2 manometers (Manometer stainless steel, block aluminium)	249,-

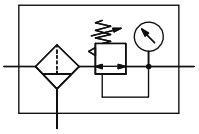
Further accessories for positioner on request.

All prices incl. fitting and adjustment. Pipings refer to page 56.

In case of very short operating times please inquire.

Accessories for pneumatic actuators ARI-DP

Booster (to increase the air capacity)						
Booster	YTC YT-300 N1	1/4-NPT		-20°C up to +70°C	DP32-34T	405,-
	YTC YT-320 N1	1/2-NPT		-20°C up to +70°C	DP34Tri/DP35	862,-

Air set including gauge (Reduces air pressure and removes dust and water droplets)						
	Riegler Type C06 semi-automatic drain	G1/4 with manometer, plastic	0,5-10 bar	-10°C up to +60°C	DP30-34T	194,-
	Norgren Type B72G-2GK-QD3-RMN manual drain	G1/4 with manometer, plastic	0,3-10 bar	-20°C up to +60°C	DP30-34T	229,-
		G1/4 with manometer, stainless steel	0,3-10 bar	-34°C up to +60°C	DP30-34T	315,-
	Norgren Type B74G-4GK-QD1-RMN manual drain	G1/2 with manometer, plastic	0,3-10 bar	-20°C up to +60°C	DP34Tri/ DP35	475,-
		G1/2 with manometer, stainless steel	0,3-10 bar	-34°C up to +60°C	DP34Tri/ DP35	554,-
	Foxboro Typ FRS03 manual drain	G1/4 Body and manometer, stainless steel	0-6 bar	-30°C up to +70°C	DP30-35	758,-
	ASCO Typ 342A841BGLT manual drain	G1/4 Body and manometer, stainless steel	0,5-10 bar	-50°C up to +90°C	DP30-35	1.096,-
(Air set allows flow in only one direction, interconnect solenoid valve or positioner).						

Further air sets including gauge and versions on request.

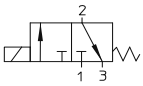
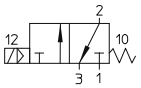
Piping of the pneumatic attachments				
Prices per each attachment	with plastic hose	-10°C up to +60°C	DP32-34Tri / DP35	standard
	with stainless steel pipe and fitting of steel	-40°C up to +100°C	DP32-34	122,-
			DP34T-34Tri	180,-
			DP35	236,-
	with stainless steel pipe and fitting for aggressive environments	-40°C up to +100°C	DP32-34	296,-
			DP34T-34Tri	468,-
			DP35	492,-

All prices incl. fitting and adjustment.

We reserve the right to make changes to an equivalent product!

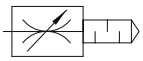
In case of very short lifting times please inquire.

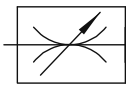
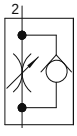
Accessories for pneumatic actuators ARI-DP

3/2-way solenoid valve (Air is vented in the rest position. Including female connector or clamp ledge)									
directly controlled 		Bürkert Type 6014	DN2,5		230V50Hz~[1]	IP65	-10°C up to +55°C	DP30-34	167,-
			DN2,5	II 2 G Ex eb mb IIC T6 Gb II 2 D Ex mb tb IIIC T130°C Db	230V50Hz~[1]	IP65	-30°C up to +55°C		524,-
		Norgren Type 9601540	DN5		230V50Hz~[1]	IP65	-25°C up to +60°C	DP34-34T	430,-
			DN5	II 2 G Ex eb mb IIC T4 Gb II 2 D Ex tb IIIC T130°C Db	230V50Hz~[1]	IP66	-25°C up to +50°C		1.046,-
indirectly controlled 	Only for stop valves:	Norgren Type 8010750	DN6		230V50Hz~[1]	IP65	-10°C up to +50°C	DP34-34T	527,-
	Stop valve: internal control air Control valve: external control air	Norgren Type 9713535	DN6		230V50Hz~	IP65	-25°C up to +60°C	DP34-34T	1.372,-
			DN6	II 2 G Ex eb mb IIC T6 Gb II 2 D Ex tb IIIC T130°C Db	230V50Hz~	IP66	-40°C up to +65°C		1.527,-
			DN6	II 2 G Ex ia IIC T4 Gb II 2 D Ex ia IIIC T100°C Db		IP66	-40°C up to +65°C		1.550,-
	Stop valve: internal control air Control valve: external control air	Norgren Type 9713555	DN8		230V50Hz~[1]	IP65	-25°C up to +60°C	DP34Tri / DP35	2.339,-
			DN8	II 2 G Ex eb mb IIC T6 Gb II 2 D Ex tb IIIC T130°C Db	230V50Hz~[1]	IP66	-40°C up to +65°C		2.564,-

Further solenoid valves on request

[1] Further voltages 24V AC, 110V AC, 24V DC are possible

Accessories for solenoid valve						
	Female connector	with LED (not possible for Ex-solenoid valve)	several voltages			46,-
		with LED and varistor (protective circuit) (not possible for Ex-solenoid valve)	several voltages			48,-
		with LED, pole guard and recovery diode (not possible for Ex-solenoid valve)	12-24V / DC			49,-
	**Exhaust silencer** Bürkert	G 1/8		-10°C up to +100°C	DP30-34	28,-
		G 1/4		-10°C up to +100°C	DP34-34T	29,-
		G 1/2		-10°C up to +100°C	DP34Tri / DP35	52,-
	**Exhaust resistor with exhaust silencer** (Increases operating time) Festo Type GRE	G 1/4		-10°C up to +70°C	DP30-34T	112,-
	Festo Type GRE	G 1/2		-10°C up to +70°C	DP34Tri / DP35	147,-

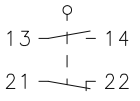
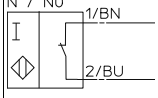
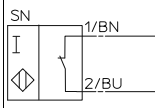
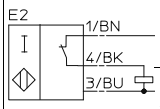
Throttling valves (adjustment of the operating speed)						
	**Throttling valve** (Increases operation time in 'open' and 'closed' direction) Norgren T1100C2800	G 1/4		-20°C up to +80°C	DP30-34T	142,-
	Norgren T1100C4800	G 1/2		-20°C up to +80°C	DP34Tri / DP35	356,-
	**Check valve with throttling function** (Increases operation time in 'open' or 'closed' direction) Festo Type GRA-1/4B	G 1/4		-20°C up to +75°C	DP30-34T	296,-
	Festo Type GR-1/2	G 1/2		-20°C up to +75°C	DP34Tri / DP35	497,-

All prices incl. fitting and adjustment. Pipings refer to page 56.

We reserve the right to make changes to an equivalent product!

In case of very short lifting times please inquire.

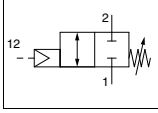
Accessories for pneumatic actuators ARI-DP

Limit switches (To denote end of travel)									
	**electrical** (mechanic) 1 Opener 1 Shutter	Bernstein GC-SU1Z			240V~ 3A 24V DC 4A	IP65	-30°C up to +80°C	DP30-35	1 Pcs. 2 Pcs.	145,- 218,-
		Bernstein GCSU1Z Ex	Cable 2m	II 2 G Ex d IIC T6 Gb II 2 D Ex tb IIIC T80°C Db	240V~ 3A 250V DC 0,27mA	IP66/ 67	-20°C up to +60°C	DP30-35	1 Pcs. 2 Pcs.	454,- 837,-
	**inductive** 2-Conductor, Namur 1 Opener	P+F NJ4-12GK-N	Cable 2m	II 2 G Ex ia IIC T6 Gb II 1 D Ex ia IIIC T135°C Da		IP66/ 68	-25°C up to +100°C [1]	DP30-35	1 Pcs. 2 Pcs.	265,- 388,-
	**inductive** 2-Conductor, Namur 1 Opener Fail-safe actuator	P+F NJ4-12GK-SN	Cable 2m	II 1 G Ex ia IIC T6 Ga II 1 D Ex ia IIIC T135°C Da		IP68	-50°C up to +100°C [1]	DP30-35	1 Pcs. 2 Pcs.	459,- 777,-
	**inductive** 3-Conductor, PNP 1 Shutter	P+F NJ4-12GM40-E2	Cable 2m		10...60V	IP67	-25°C up to +70°C	DP30-35	1 Pcs. 2 Pcs.	300,- 460,-
	inductive 3-Conductor, PNP 1 Shutter	P+F NJ4-12GM40-E2-V1	V1-male connector		10...60V	IP67	-25°C up to +70°C	DP30-35	1 Pcs. 2 Pcs.	379,- 615,-

Further switches on request

[1] For application in Ex zone -20°C up to +100°C

Proximity sensors (To denote end of travel in housing)							
2 micro switches Single-pole change over contact 230V AC/DC 4A	Rotech ALB-Module			IP65	-25°C up to +85°C	DP32-34Tri	587,-
2 inductive Namur switch contacts	Rotech ALB-Module		II2G Ex e ia IIC T6 Gb II2D Ex tb IIIC T80°C Db IP65	IP65	-25°C up to +85°C	DP32-34Tri	1.258,-
2 inductive PNP switch contacts	Rotech ALB-Module			IP65	-25°C up to +70°C	DP32-34Tri	732,-
Solenoid valve can be connect in the terminal box							

Lock-up valve (Holds the air in the actuator in the event of air failure)						
	SMC Type IL201-F02Nil-Nil	G 1/4		-5°C up to +60°C	DP32-34T	655,-

Notes:

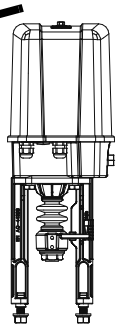
Intelligent electric actuators ARI-PREMIO®-Plus 2G

Coming soon:
The PREMIO-Plus App
- Start-up + settings
- Diagnostics + Status

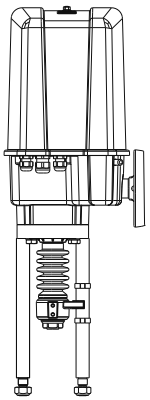
Type: ARI-PREMIO®-Plus 2G 2,2; 5; 12; 15; 25 kN
Emergency manual override handwheel standard

- Optional input signal:
- 3-point, 0-10V, 4-20mA
- Adjustable operating speed (4 steps)
- Adjustable failsafe characteristic at control signal failure (Open - Stop - Close)
- Automatic valve travel adaption
- Priority modus for 3-point control signals
- Anti-blocking function
- Failure signals acc. to Namur 107 (by LED)
- Economy function for extended lifetime

Protection class: IP 65



2,2 - 5 kN



12 - 25 kN

Intelligent elec. actuator PREMIO®-Plus 2G			2,2 kN	5 kN	12 kN	15 kN	25 kN
Standard	**100-240V AC incl. switching power supply**	control speed mm/s	0,25 / 0,38 / 0,47 / 1,00 [1]		0,20 / 0,31 / 0,38 / 0,79 [1]		
		travel max. mm	50		65 [2]		
			1.672,-	1.966,-	2.488,-	2.703,-	3.938,-

Additional performance for other voltages				
	24V AC / DC excl. switching power supply	lower price	166,-	335,-
Trafo	**400V 50/60Hz 3~**		243,-	335,-

Additional performance for accessories				
Binary feedback	Type Relay board	- 2 intermediate positions, ·To set by switch, ·Changeover contacts 250 V AC, 3 A resistive load, 6 A inductive load; - 1 failure signal and 1 warning signal / alternative end positions [3] ·Changeover contacts 30 V AC/DC, 2A	piece	205,-
Electronic position indicator [4]	Type Analogue output card	- Analogue output for position feedback; - 4-20 mA switchable to 0-10V; - Invertable; - Galvanic isolation between the mains voltage and feedback signal; - Active	piece	388,-
Heating [4]	Heating resistor	- 230 V AC, 115 V AC, 24 V AC/DC; 15 Watt; - Automatic switching circuit	piece	87,-
Potentiometer [4]	Conductive plastic (max. 2 only)	- 1000, 2000, 5000 Ohm, 1 Watt (at +70 °C); - Wipper current max. 0,01 mA / recommended 0,002 mA	piece	286,-
	Wire (max. 2 only)	- 100, 200 Ohm, 0,5 Watt (at +70 °C); - Wipper current max. 35 mA / recommended 0,02 mA	piece	296,-
LED – Status Indicator	2,2 / 5kN	- From the outside on the visible display of the drive status; - Green = OK.; red = error; yellow = warning; blue = maintenance; - Intermediate upgrade modules available starting with SW version 3.3.X	piece	73,-
	12 / 15 / 25kN		piece	93,-
Communications package [4] NEW! from ARI	2,2 / 5kN	- Features: ·Bluetooth interface for communication with the PREMIO-Plus App; ·Electronic positioner: 4-20 mA switchable to 0-10V; ·LED-Status indicator	piece	418,-
	12 / 15 / 25kN		piece	438,-
(Process-) controller [4]	Type Processcontroller dTRON 316	- Mounted in the actuator; - 4-20mA output for operation of PREMIO®-Plus 2G; - For resistance thermometers and thermocouples (provided by the customer) or standard signals; - Pre-configured for temperature control: Control range from -200°C up to +850°C (resistance thermometer)	piece	1.095,-
Bus systems [5]	Profibus DP Anybus® Communication interface	- Control command: ·3-point: OPEN, Stop, Close; ·Nominal position value 0-100; ·Reset - initialization; - Feedback signals: ·Actual position value: 0-100; ·Failures, warning messages, end position switches, etc.	piece	1.861,-
	Modbus RTU Anybus® Communication interface			

[1] Further control speeds on request
[2] Up to 80mm travel on request
[3] Please indicate when ordering
[4] Not possible with: Bus systems
[5] Not possible in combination with: Analogue output card, heating, potentiometer, dTRON 316 process controller

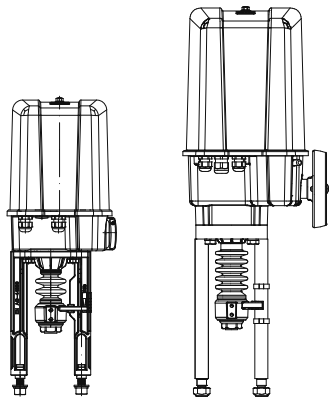
Electric actuators ARI-PREMIO®

Type: ARI-PREMIO® 2,2; 5; 12; 15; 25 kN (BLDC)
Emergency manual override handwheel standard

Supply voltage: 100-240V AC 50-60Hz 1~ Protection class: IP 65

Type: ARI-PREMIO® 2,2 kN (Synchronous motor)
Emergency manual override handwheel standard

Supply voltage: 230V 50/60Hz 1~ Protection class: IP 65



2,2 - 5 kN 12 - 25 kN

Actuator PREMIO®		2,2 kN		5 kN	12 kN	15 kN	25 kN
Standard	control speed mm/s	0,38	0,25 / 0,38 / 0,47 / 1,0 adjustable		0,20 / 0,31 / 0,38 / 0,79 adjustable		
	travel max. mm	50			80		
	voltage V-Hz	230V-50/60Hz	100-240V AC 50-60Hz				
	Type	Synchronous motor	BLDC (Brushless DC motor)				
		1.163,-	1.290,-	1.458,-	1.980,-	2.192,-	3.046,-

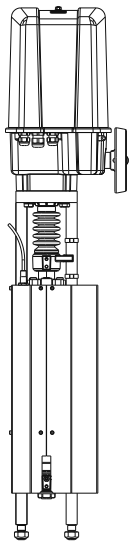
The operating speed and the power consumption are 20% higher with synchronous motors at 60 Hz

Additional performance for other voltages							
24V AC/DC	lower price	--	36,-	112,-	166,-		328,-
400V 50/60Hz 3~		--	909,-	909,-	965,-	1.338,-	1.418,-

Add. performance for accessories					
Trip slide		Required to operate ... - travel switch S3 / stem retracting (travel switch S3 is included in the basic actuator version) - potentiometers - additional travel switches S4 / S5	piece	69,-
Option trip slide necessary	Additional intermediate position switches (S4/S5) (For low switching powers and aggressive atmosphere gold contacts should be used)	Type Standard	- 2 pieces, zero potential, rating max. 10A, 250V ~	set	84,-
		Type Low voltage	- 2 pieces, zero potential, with gold contacts, rating max. 0,1A, 4-30V	set	108,-
	Potentiometer	Conductive plastic (max. 2 pieces)	- 1000, 2000, 5000 Ohm; 1 Watt (at +70 °C) - Wiper current max. 0,01 mA / recommended 0,002 mA;	piece	98,-
		Wire (max. 2 pieces)	- 100, 200 Ohm, 0,5 Watt (at +70 °C) - Wiper current max. 35 mA / recommended 0,02 mA;	piece	161,-
		TÜV-approved potentiometer (max. 2 pieces)	- 5000 Ohm (other values on request)	piece	292,-
	Electronic positioner	→ **PREMIO®-Plus 2G (page 60)**	- 24 V AC/DC; 100-240 V AC, control signals 4-20 mA, 0-10 V	--	--
	Electronic position indicator	→ **PREMIO®-Plus 2G (page 60)**	- 24 V AC/DC; 100-240 V AC, control signals 4-20 mA, 0-10 V	--	--
		RI21 (AC only)	- 24, 115, 230 V AC, analogue output for position feedback; - 0(4)...20 mA, 0(2)-10V, not galvanically separated, 2/4-wire connection (incl. potentiometer)	piece	678,-
		RI32	- Analogue output for position feedback 2... 10V; 4... 20mA - Compact design; 2-wire (passive) or 4-wire (active) circuit - Supply voltage: 24V AC/DC - Incl. potentiometer (note the maximum number of potentiometers)	piece	719,-
Heating		Heating resistor	- 230V 50/60Hz, 115V 50/60Hz, 24V AC/DC, 15 Watt	piece	87,-
Connection boards 2 torque switches, 1 travel switch, all switch contacts wired to terminals (For low switching powers and aggressive atmosphere gold contacts should be used)		Type Standard PA	- Zero potential, rating 10A, 250V ~ - (Also possible with standard version for operation at 12-25 kN)	piece	107,-
		Type Low voltage NA	- Zero potential, with gold contacts, rating max. 0,1A, 4-30V	piece	163,-
(Process-) controller		Type Process controller dTRON 316 (acc. to data sheet / operating instructions PREMIO®-Plus 2G)	- Mounted in the actuator **PREMIO®-Plus 2G** - 4-20mA output for operation of actuator; - For resistance thermometers and thermocouples (provided by the customer) or standard signals; - Pre-configured for temperature control: Control range from -200°C up to +850°C (resistance thermometer)	--	--

Other supply voltages 400V 3~					
Built-in reversal feature		Electronic reversing contactor (acc. to data sheet / operating instructions PREMIO®-Plus 2G)	- **PREMIO®-Plus 2G** with 400 V 3~ transformer - 3-point, 4-20 mA or 0-10 V operation - Electronically commutated, variable speed BLDC motor	--	--

Intelligent electric actuators with fail-safe function
ARI-PREMIO®-Plus 2G


9 kN

Type: **ARI-PREMIO®-Plus 2G 9 kN** [1)]

Manual override handwheel (only with subsequent power supply)

Max. permissible ambient temperature 0°C to +50°C
(other temperatures on request)

- Optional input signal:
  - 3-point, 0-10V, 4-20mA
- Adjustable operating speed (4 steps)
- Adjustable failsafe characteristic at control signal failure
  (Open - Stop - Close)
- Automatic valve travel adaption
- Priority modus for 3-point control signals
- Anti-blocking function
- Failure signals acc. to Namur 107 (by LED)
- Economy function for extended lifetime

Supply voltage: 100-240V AC 50-60 Hz Protection class: IP 65

Function: Driving spindle extending in case of power failure

Intelligent electric actuators with fail-safe function PREMIO®-Plus 2G		**PREMIO®-Plus 2G 9 kN / travel 50 mm** [1)]
Standard	control speed mm/s	0,20 / 0,31 / 0,38 / 0,79 adjustable
	fail-safe speed mm/s	100
	travel max. mm	50
	voltage	100-240V AC 50-60Hz
		7.440,-

Additional performance for other voltages		
24V AC/DC	lower price	164,-

Additional performance for accessories PREMIO®-Plus 2G				
Binary feedback	Type Relay board	- 2 intermediate positions, ·To set by switch, ·Changeover contacts 250 V AC, 3 A resistive load, 6 A inductive load; - 1 failure signal and 1 warning signal, ·Changeover contacts 30 V AC/DC, 2A;	piece	205,-
Electronic position indicator	Type Analogue output card	- Analogue output for position feedback; - 4-20 mA switchable to 0-10V; - Invertable; - Galvanic isolation between the mains voltage and feedback signal; - Active;	piece	388,-
Heating	Heating resistor	- 230 V AC, 115 V AC, 24 V AC/DC; 15 Watt; - Automatic switching circuit;	piece	87,-
LED – Status Indicator	2,2 / 5kN	- From the outside on the visible display of the drive status; - Green = OK.; red = error; yellow = warning; blue = maintenance; - Intermediate upgrade modules available starting with SW version 3.3.X	piece	73,-
	12 / 15 / 25kN		piece	93,-
Communications package [2)] 	2,2 / 5kN	- Features: ·Bluetooth interface for communication with the PREMIO-Plus App; ·Electronic positioner 4-20mA switchable to 0-10V ; ·LED-Status indicator	piece	418,-
	12 / 15 / 25kN		piece	438,-

[1)] Fail-safe force depends on the travel at 20°C (possible operating forces acc. to data sheet)

[2)] Not possible with: Bus systems

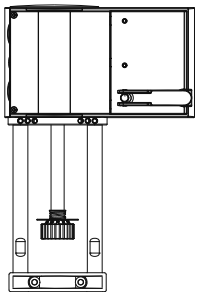
Electric actuators with fail-safe function FR 1.2

Type: FR 1.2
- Universal technology with 2-point, 3-point or continuous 0-10V and 4-20mA activation only with one actuator type
- Characteristic adjustable
- Operating time adjustable

Supply voltage: 24V 50/60Hz 1~ / 24V DC Protection class: IP 66

Function: Actuator stem is moving out on power failure

Positioning speed: 0,17 / 0,25 / 0,50 mm/s



FR1.2

FR 1.2 thrust 2,0 kN (at travel 40 mm)	1.160,-

Additional performance for other voltages	
230V 50/60Hz 1~, activation 3-point, 0-10V and 4-20mA	115,-

Additional performance for accessories		
2 auxiliary change over switches, continuously adjustable	piece	113,-

Electric actuators with fail-safe function FR 2.1 / FR 2.2

Type: FR 2.1 / FR 2.2 type approved acc. to DIN EN 14597

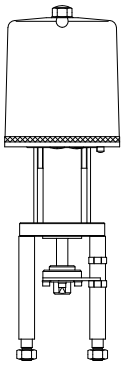
Supply voltage: 230V 50/60 Hz 1~ Protection class: IP 54

Switch off: By travel

Function: Actuator stem is moving out or in on power failure

Positioning speed: 0,29 mm/s

Travel: max. 35 mm



FR2.1/2.2

FR 2.1 thrust 0,9 kN (at travel 35 mm)	1.764,-
FR 2.2 thrust 2,2 kN (at travel 35 mm)	1.947,-

Additional performance for other voltages	
24V 50/60Hz 1~	207,-
110V 50/60Hz 1~	207,-

Additional performance for accessories		
2 additional travel switches (max. 2 pieces)	set	116,-
Potentiometer [1] 100, 200, 500 or 1000 ohm (max. 2 pieces)	piece	145,-
Gear for potentiometer	piece	142,-
Electronic positioner PE 10, installed in electronic actuator FR2.1/2.2 input signals 0 - 20 mA 4 - 20 mA 0 - 10 V 2 - 10 V output signals 0 - 20 mA 4 - 20 mA 0 - 10 V 2 - 10 V for supply voltage 24V 50/60Hz 1~; 110V 50/60Hz 1~; 230V 50/60Hz 1~ incl. potentiometer and gear		659,-

[1] Gear device is required

Multiturn electric actuators AUMA

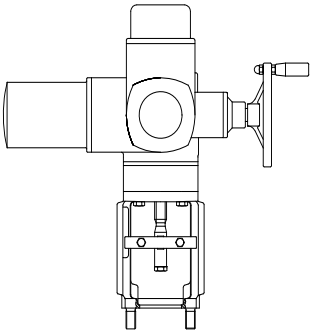
Type: SA 07.2 / 07.6 / 10.2 / 14.2 for stop valves
SAR 07.2 / 07.6 / 10.2 / 14.2 for control valves

Supply voltage: 400V 50Hz 3~ (other voltages on request)

Protection class: IP 68

Assembly: SA 07.2/07.6/10.2 - SAR 07.2/07.6/10.2 .. F10 ...DIN EN ISO 5210 Output drive A
SA 14.2 - SAR 14.2 ..... F14 ...DIN EN ISO 5210 Output drive A

Design and employment acc. to AUMA data sheet



AUMA SA/SAR 07.2-14.2

AUMA-actuators for stop valves								
	Standard				**Ex** II2G Ex de IIC T3/T4			
Type	**SA 07.2**	**SA 07.6**	**SA 10.2**	**SA 14.2**	**SA Ex 07.2**	**SA Ex 07.6**	**SA Ex 10.2**	**SA Ex 14.2**
Torque Nm	30	60	120	250	30	60	120	250
	3.102,-	3.202,-	4.015,-	5.967,-	3.689,-	3.821,-	4.601,-	6.523,-

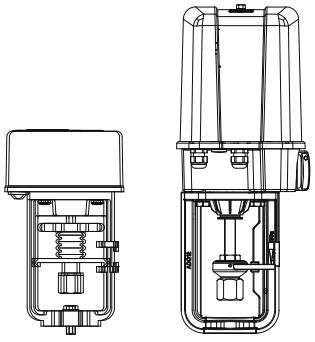
AUMA-actuators for control valves								
	Standard				**Ex** II2G Ex de IIC T3/T4			
Type	**SAR 07.2**	**SAR 07.6**	**SAR 10.2**	**SAR 14.2**	**SAR Ex 07.2**	**SAR Ex 07.6**	**SAR Ex 10.2**	**SAR Ex 14.2**
Torque Nm	30	60	120	250	30	60	120	250
	4.303,-	4.448,-	5.666,-	8.376,-	5.182,-	5.372,-	6.548,-	9.210,-

Additional performance for accessories AUMA SA(R) 07.2 - 16.2 (for standard and Ex)				
Tandem torque switches [1]		for either direction 2 opening and 2 closing contacts		148,-
Tandem travel switches [1]		for either direction 2 opening and 2 closing contacts		148,-
Duo travel switch [1]		with 4 switches (2 of them variable adjustable between 0-100% travel)		268,-
Gear device		for mechanical position indicator or electrical transmitter		200,-
Mechanical position indicator [2]		continuous (on/off)		62,-
Potentiometer [2]	SA	Wire-potentiometer normal 0,1; 0,2; 0,5; 1,0 or 5,0 kOhm		153,-
		Tandem-wire-potentiometer 0,2/0,2; 0,5/0,5; 1,0/1,0; 5,0/5,0 or 0,2/5,0 kOhm		249,-
	SAR	Precision metalfilm potentiometer 1,0 or 5,0 kOhm		153,-
		Tandem-precision metalfilm potentiometer 1,0/4,7 or 4,7/4,7 kOhm		249,-
Position indicator RWG / EWG [2]		2-wire-system	output 4 - 20 mA	759,-
		3-wire or 4-wire-system	output 0 - 20 mA / 4 - 20 mA	759,-
Gold contacts in switches		For travel- and torque switches	per single switch	74,-
			per tandem switch	148,-
Integral controls AUMA MATIC AM		Input signal 3-step	AM 01.1 for SA(R) 07.2 - 14.6 (A1)	2.230,-
			AM 02.1 for SA(R) 16.2 (A2)	2.569,-
			AM Ex 01.1 for SA(R) Ex 07.2 - 16.2	3.801,-
Integral controls AUMATIC AC01.2	incl. solenoid and torque transmitter (MWG)	Non-intrusive design - Setting of travel and torque control via button - Position and torque feedback 0/4-20mA - 5 NO contacts and 1 Collective fault signal [4]	AC 01.2 for SA(R) 07.2 - 14.6	3.994,- [3]
			AC 01.2 for SA(R) 16.2	on request
			AC Ex 01.2 for SA(R) Ex 07.2 - 14.6	4.781,- [3]
			AC Ex 01.2 for SA(R) Ex 16.2	on request
	Further accessories	Positioner, input signal 0/4-20 mA		541,-
		Thyristor reversing unit (instead of el-mech. contactors) With internal fuse elements, for voltages up to 500V, (recommended for high numbers of switching actuations)	SA(R) 07.2 - 16.2 (Performance class B1/B2)	472,-
		Profibus-DP Fieldbus interface	DP-V0	438,-
			DP-V0/V1	810,-
Further accessories on request				

[1] Not in combination with AUMATIC with MWG
[2] Gear device is required
[3] Base prices! If several options are combined additional costs could be possible. Prices on request then.
[4] Programmable, potential-free, with common reference potential

Compact electric actuators ARI-PACO® / ARI-PACO® 2G

Type: ARI-PACO® 0,85 D; ARI-PACO® 2G 1,6 D;
Thrust force: 0,85 kN; 1,6 kN;
Electric connection: - ARI-PACO® 0,85 D: 230V50/60Hz; Input signal: 3-point
- ARI-PACO® 2G 1,6 D: 230V50/60Hz; Input signal: 3-point
Handwheel: Standard
Protection class: IP 54



PACO® 0,85 D | PACO® 2G 1,6 D

Actuator PACO® / PACO® 2G	PACO®	PACO® 2G
	0,85 D	1,6 D
Thrust	0,85 kN	1,6 kN
Standard supply voltage	230V50/60Hz	230V50/60Hz

Additional performance for other voltages			
Other supply voltages		24V50/60Hz	24V AC/DC
Control speed	mm/s	0,11	0,25
Travel max.	mm	20	40
		560,-	720,-

Additional performance for accessories			
2 add. limit switches	set	92,-	92,-
1 potentiometer 1000 Ohm	piece	--	113,-

Control speed and power consumption are 20% higher at frequency of 60 Hz

Process controller

Type: **Jumo dTRON 316 in Rittal control box**

- Sensor input for current loop
- Pre-parameterised for 0-6bar
- On-off switch
- 4-20mA output
- Optional: Profibus card (DP)
  Modbus card (RTU)

Voltage: 110-240V AC Protection class: IP 65 (Controller)

Power consumption: max. 16 VA

Process controller	
110V - 240V AC	1.556,- (net)
24V AC/DC	on request

Additional performance		
Putting into operation by ARI-customer service		on request
Parameterisation of the controller to standard deviation parameter	Binary inputs	62,- (net)
	Relay contacts	62,- (net)
	Sensor inlet	62,- (net)
PC interface with USB/TTL-transducer for easy operation start-up/ parameterisation of the controller (setup software: at **www.jumo.de**)		207,- (net)
Profibus card incl. parameterisation		616,- (net)
Modbus card		349,- (net)

Pressure transducer

Type: **MIDAS S05 401010**

- According to DIN 16086 and DIN EN 60770
- Silicium sensor with separation membrane of stainless steel
- Pressure transfer medium: synthetic oil

Cable connection: 5 m (PVC)

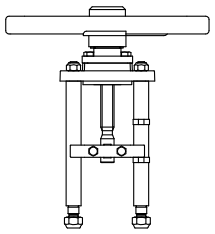
Output signal: 4 - 20 mA, two-wire

Process connection: G 1/2

Pressure transducer	**0 - 2,5 bar**	**0 - 4 bar**	**0 - 6 bar**	**0 - 10 bar**	**0 - 16 bar**	**0 - 25 bar**	**0 - 40 bar**
Standard	260,- (net)						

Manual handwheel actuator for control valves

Mounting parts: With coupling and travel indicator



Manual handwheel actuators				
9300002001 Hand wheel-∅ 150 mm	for valve Fig. 470	DN15 - 32	Travel 20 mm	350,-
	for valve Fig. 405 / 440 / 445 / 450	DN15 - 50	Travel 20 mm	350,-
9300000001 Hand wheel-∅ 150 mm	for valve Fig. 460 / 471 (max. permissible control force: 12 kN)	DN15 - 32	Travel 20 mm	350,-
	for valve Fig. 441 / 446 / 451	DN15 - 50	Travel 20 mm	350,-
9300100001 Hand wheel-∅ 225 mm	for valve Fig. 460 / 470 / 471	DN40 - 65	Travel 30 mm	563,-
	for valve Fig. 441 / 446 / 451	DN65 - 100	Travel 30 mm	563,-
9300200001 Hand wheel-∅ 300 mm	for valve Fig. 460	DN80 - 125	Travel 50 mm	901,-
9300210011 Hand wheel-∅ 300 mm	for valve Fig. 405 / 440 / 445 / 450	DN65 - 100	Travel 30 mm	563,-
	for valve Fig. 471	DN80 - 100	Travel 30 mm	563,-
9300211011 Hand wheel-∅ 300 mm	for valve Fig. 470	DN80 - 100	Travel 30 mm	901,-
	for valve Fig. 450 (diverting valve)	DN125 - 150	Travel 65 mm	901,-
9300211041 Hand wheel-∅ 300 mm	for valve Fig. 405 / 440 / 445 / 470 / 471 / 450 (mixing valve)	DN125 - 150	Travel 65 mm	901,-
9300201051 Hand wheel-∅ 300 mm	for valve Fig. 441 / 446 / 451	DN125 - 150	Travel 65 mm	1.127,-
	for valve Fig. 460	DN150 - 250	Travel 65 mm	1.127,-
	for valve Fig. 462 / 463	DN200 - 250	Travel 65 mm	1.127,-
For larger diameters: Manual operating device with handwheel-∅ 400 mm on request.				

ARI-PREDU® Fig.701

Pressure reducing valve in straight through form with diaphragm actuator

PN 16 cast iron EN-JL1040
PN 16/25 nodular iron EN-JS1049
PN 40 cast steel 1.0619+N

Diaphragm: NBR max. 100°C (Standard)
EPDM max. 130°C

Action: Valve closes with increasing downstream pressure

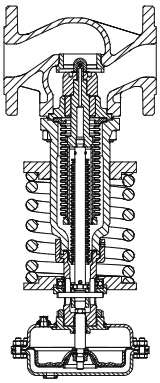


Fig. ...701 DMA

Nominal diameter	DN	15	20	25	32	40	50	65	80	100	125	150
Kvs-values	Standard	3,2	5	8	12,5	20	32	50	80	125	190	280
	Reduced	0,1/0,4/ 1/2,5	0,1/0,4/ 1/2,5/4	0,1/0,4/ 1/2,5/4/6,3	--	--	--	--	--	--	--	--
Downstream pressure ranges	Actuator	Figure 12.701 Body made of EN-JL1040 PN 16										
0,2 - 0,6 barg	DMA 400	2.733,-	2.818,-	2.886,-	3.085,-	3.206,-	3.375,-	4.236,-	4.540,-	5.723,-	7.082,-	8.142,-
0,5 - 1,2 barg	DMA 250	2.424,-	2.514,-	2.579,-	2.796,-	2.899,-	3.073,-	3.935,-	4.232,-	5.410,-	6.694,-	7.700,-
0,8 - 2,5 barg	DMA 160	2.214,-	2.306,-	2.374,-	2.579,-	2.688,-	2.864,-	3.728,-	4.040,-	5.212,-	6.448,-	7.416,-
2,0 - 5,0 barg	DMA 80	2.174,-	2.259,-	2.322,-	2.539,-	2.632,-	2.814,-	3.975,-	4.289,-	5.462,-	6.758,-	7.772,-
4,5 - 10,0 barg	DMA 40	2.175,-	2.251,-	2.319,-	2.787,-	2.899,-	3.066,-	3.736,-	4.028,-	5.200,-	6.437,-	7.414,-
8,0 - 16,0 barg	DMA 40	2.427,-	2.504,-	2.570,-	2.777,-	2.886,-	3.056,-	3.975,-	4.289,-	5.456,-	6.751,-	7.565,-
Downstream pressure ranges	Actuator	Figure 22.701 / 23.701 Body made of EN-JS1049 PN 16 / 25										
0,2 - 0,6 barg	DMA 400	2.943,-	3.041,-	3.128,-	3.340,-	3.459,-	3.728,-	4.620,-	5.071,-	6.313,-	7.812,-	8.982,-
0,5 - 1,2 barg	DMA 250	2.640,-	2.745,-	2.822,-	3.035,-	3.150,-	3.420,-	4.323,-	4.750,-	6.010,-	7.437,-	8.551,-
0,8 - 2,5 barg	DMA 160	2.437,-	2.523,-	2.623,-	2.831,-	2.943,-	3.213,-	4.112,-	4.562,-	5.805,-	7.182,-	8.260,-
2,0 - 5,0 barg	DMA 80	2.392,-	2.489,-	2.567,-	2.787,-	2.902,-	3.166,-	4.367,-	4.804,-	6.037,-	7.472,-	8.593,-
4,5 - 10,0 barg	DMA 40	2.394,-	2.500,-	2.568,-	3.041,-	3.147,-	3.429,-	4.112,-	4.559,-	5.810,-	7.457,-	8.583,-
8,0 - 16,0 barg	DMA 40	2.641,-	2.744,-	2.820,-	3.042,-	3.151,-	3.428,-	4.367,-	4.804,-	6.039,-	7.474,-	8.596,-
Downstream pressure ranges	Actuator	Figure 34.701 / 35.701 Body made of 1.0619+N PN 25 / 40										
0,2 - 0,6 barg	DMA 400	3.605,-	3.749,-	3.952,-	4.222,-	4.538,-	4.882,-	6.439,-	6.919,-	8.641,-	10.694,-	11.762,-
0,5 - 1,2 barg	DMA 250	3.300,-	3.441,-	3.647,-	3.913,-	4.235,-	4.571,-	6.136,-	6.605,-	8.330,-	10.331,-	11.818,-
0,8 - 2,5 barg	DMA 160	3.095,-	3.243,-	3.438,-	3.713,-	4.028,-	4.367,-	5.932,-	6.402,-	8.122,-	10.052,-	11.573,-
2,0 - 5,0 barg	DMA 80	3.056,-	3.196,-	3.393,-	3.666,-	3.979,-	4.324,-	6.187,-	6.652,-	8.369,-	10.359,-	11.913,-
4,5 - 10,0 barg	DMA 40	3.062,-	3.197,-	3.395,-	3.913,-	4.235,-	4.568,-	5.927,-	6.402,-	8.123,-	10.052,-	11.562,-
8,0 - 16,0 barg	DMA 40	3.300,-	3.439,-	3.641,-	3.915,-	4.229,-	4.568,-	6.186,-	6.649,-	8.380,-	10.368,-	11.928,-
Additional performance	DN	15	20	25	32	40	50	65	80	100	125	150
Water seal pot, elbows and funnel		incl. in the price (the waterseal pot is not required if the temperature of the flow media liquids and gases is lower than the maximal permitted operation temperature of the diaphragm. Price reduction: 119,- EUR)										
Flow divider		228,-	228,-	255,-	255,-	314,-	314,-	431,-	517,-	748,-	999,-	1.403,-
Plug with PTFE soft sealing		343,-	343,-	343,-	343,-	352,-	371,-	502,-	569,-	742,-	922,-	1.071,-

Special flange drillings refer to page 220.

To minimize valve wearing, a strainer has to be installed in front of the pressure reducing valve.

Design acc. to data sheet

ARI-PREDU®-ANSI on request.

Order data: 1. Figure-No.; 2. Nominal diameter (DN); 3. Nominal pressure (PN); 4. Body material; 5. Plug design; 6. Kvs-value; 7. Pressure ranges; 8. Actuator design; 9. Special design / Accessories

ARI-PREDU® Fig.701

NEW! from ARI

STAINLESS STEEL

Pressure reducing valve in straight through form with diaphragm actuator

PN 40 stainless steel 1.4581

All wetted parts made of stainless steel

Diaphragm: NBR max. 100°C (Standard)
EPDM max. 130°C

Action: Valve closes with increasing downstream pressure

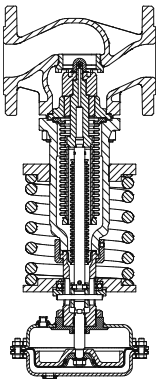


Fig. ...701 DMA

Nominal diameter	DN	15	20	25	32	40	50	65	80	100	125	150
Kvs-values	Standard	3,2	5	8	12,5	20	32	50	80	125	190	280
	Reduced	0,1/0,4/ 1/2,5	0,1/0,4/ 1/2,5/4	0,1/0,4/ 1/2,5/4/6,3	--	--	--	--	--	--	--	--

Downstream pressure ranges	Actuator	Figure 65.701 Body made of 1.4581 PN 40
0,2 - 0,6 barg	DMA 400	on request
0,5 - 1,2 barg	DMA 250	
0,8 - 2,5 barg	DMA 160	
2,0 - 5,0 barg	DMA 80	
4,5 - 10,0 barg	DMA 40	
8,0 - 16,0 barg	DMA 40	

Additional performance	DN	15	20	25	32	40	50	65	80	100	125	150
Water seal pot, elbows and funnel		incl. in the price (the waterseal pot is not required if the temperature of the flow media liquids and gases is lower than the maximal permitted operation temperature of the diaphragm. Price reduction: 119,- EUR)										
Flow divider		228,-	228,-	255,-	255,-	314,-	314,-	431,-	517,-	748,-	999,-	1.403,-
Plug with PTFE soft sealing		343,-	343,-	343,-	343,-	352,-	371,-	502,-	569,-	742,-	922,-	1.071,-

Special flange drillings refer to page 220.

To minimize valve wearing, a strainer has to be installed in front of the pressure reducing valve.

Design acc. to data sheet

Flanges drilled acc. to ANSI on request.

Order data: 1. Figure-No.; 2. Nominal diameter (DN); 3. Nominal pressure (PN); 4. Body material; 5. Plug design; 6. Kvs-value; 7. Pressure ranges; 8. Actuator design; 9. Special design / Accessories

ARI-PREDEX® Fig.705

Excess pressure regulator in straight through form with diaphragm actuator

PN 16 cast iron EN-JL1040
PN 16/25 nodular iron EN-JS1049
PN 40 cast steel 1.0619+N

Diaphragm: NBR max. 100°C (Standard)
EPDM max. 110°C

Action: Valve opens with increasing upstream pressure

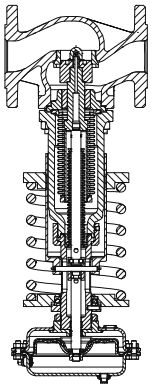


Fig. ...705 UDA

Nominal diameter	DN	15	20	25	32	40	50	65	80	100	125	150
Kvs-values	Standard	3,2	5	8	12,5	20	32	50	80	125	190	280
	Reduced	0,1/0,4/ 1/2,5	0,1/0,4/ 1/2,5/4	0,1/0,4/ 1/2,5/4/6,3	--	--	--	--	--	--	--	--
Inlet pressure ranges	**Actuator**	**Figure 12.705**			**Body made of EN-JL1040 PN 16**							
0,2 - 0,6 barg	UDA 400	3.005,-	3.101,-	3.175,-	3.394,-	3.528,-	3.713,-	4.658,-	4.993,-	6.295,-	7.868,-	9.050,-
0,5 - 1,2 barg	UDA 250	2.665,-	2.765,-	2.835,-	3.075,-	3.191,-	3.379,-	4.330,-	4.654,-	5.950,-	7.439,-	8.552,-
0,8 - 2,5 barg	UDA 160	2.436,-	2.533,-	2.612,-	2.835,-	2.955,-	3.148,-	4.102,-	4.442,-	5.731,-	7.164,-	8.239,-
2,0 - 5,0 barg	UDA 80	2.392,-	2.485,-	2.555,-	2.792,-	2.895,-	3.092,-	4.371,-	4.716,-	6.009,-	7.510,-	8.635,-
4,5 - 10,0 barg	UDA 40	2.393,-	2.477,-	2.551,-	3.067,-	3.191,-	3.373,-	4.108,-	4.429,-	5.722,-	7.153,-	8.236,-
8,0 - 16,0 barg	UDA 40	2.669,-	2.752,-	2.829,-	3.056,-	3.175,-	3.363,-	4.371,-	4.716,-	6.001,-	7.502,-	8.632,-
Inlet pressure ranges	**Actuator**	**Figure 22.705 / 23.705**			**Body made of EN-JS1049 PN 16 / 25**							
0,2 - 0,6 barg	UDA 400	3.238,-	3.342,-	3.441,-	3.677,-	3.806,-	4.102,-	5.080,-	5.578,-	6.943,-	8.680,-	9.982,-
0,5 - 1,2 barg	UDA 250	2.904,-	3.019,-	3.106,-	3.337,-	3.468,-	3.761,-	4.756,-	5.224,-	6.611,-	8.263,-	9.501,-
0,8 - 2,5 barg	UDA 160	2.683,-	2.776,-	2.886,-	3.116,-	3.238,-	3.538,-	4.522,-	5.018,-	6.385,-	7.981,-	9.179,-
2,0 - 5,0 barg	UDA 80	2.631,-	2.740,-	2.824,-	3.067,-	3.194,-	3.483,-	4.802,-	5.286,-	6.641,-	8.303,-	9.549,-
4,5 - 10,0 barg	UDA 40	2.633,-	2.748,-	2.825,-	3.342,-	3.459,-	3.769,-	4.792,-	5.275,-	6.632,-	8.291,-	9.534,-
8,0 - 16,0 barg	UDA 40	2.905,-	3.018,-	3.104,-	3.345,-	3.469,-	3.768,-	4.802,-	5.286,-	6.643,-	8.306,-	9.551,-
Inlet pressure ranges	**Actuator**	**Figure 34.705 / 35.705**			**Body made of 1.0619+N PN 25 / 40**							
0,2 - 0,6 barg	UDA 400	3.964,-	4.125,-	4.348,-	4.643,-	4.991,-	5.368,-	7.083,-	7.609,-	9.506,-	11.882,-	13.069,-
0,5 - 1,2 barg	UDA 250	3.629,-	3.787,-	4.012,-	4.303,-	4.658,-	5.033,-	6.774,-	7.265,-	9.163,-	11.482,-	13.183,-
0,8 - 2,5 barg	UDA 160	3.409,-	3.567,-	3.782,-	4.084,-	4.429,-	4.802,-	6.524,-	7.044,-	8.934,-	11.169,-	12.858,-
2,0 - 5,0 barg	UDA 80	3.363,-	3.513,-	3.732,-	4.031,-	4.376,-	4.757,-	6.806,-	7.319,-	9.205,-	11.508,-	13.235,-
4,5 - 10,0 barg	UDA 40	3.369,-	3.514,-	3.736,-	4.303,-	4.658,--	5.025,-	6.518,-	7.044,-	8.936,-	11.168,-	12.845,-
8,0 - 16,0 barg	UDA 40	3.629,-	3.785,-	4.007,-	4.306,-	4.650,-	5.025,-	6.804,-	7.316,-	9.217,-	11.521,-	13.254,-

Additional performance	DN	15	20	25	32	40	50	65	80	100	125	150
Water seal pot, elbows and funnel		incl. in the price (the waterseal pot is not required if the temperature of the flow media liquids and gases is lower than the maximal permitted operation temperature of the diaphragm. Price reduction: 119,- EUR)										
Flow divider		228,-	228,-	255,-	255,-	314,-	314,-	431,-	517,-	748,-	999,-	1.403,-
Plug with PTFE soft sealing		343,-	343,-	343,-	343,-	352,-	371,-	502,-	569,-	742,-	922,-	1.071,-

Special flange drillings refer to page 220.

To minimize valve wearing, a strainer has to be installed in front of the excess pressure regulator.

Design acc. to data sheet

ARI-PREDEX®-ANSI on request.

Order data: 1. Figure-No.; 2. Nominal diameter (DN); 3. Nominal pressure (PN); 4. Body material; 5. Plug design; 6. Kvs-value; 7. Pressure ranges; 8. Actuator design; 9. Special design / Accessories

ARI-PREDEX® Fig.705

NEW! from ARI

STAINLESS STEEL

Excess pressure regulator in straight through form with diaphragm actuator

PN 40 stainless steel 1.4581

All wetted parts made of stainless steel

Diaphragm: NBR max. 100°C (Standard)
EPDM max. 110°C

Action: Valve opens with increasing upstream pressure

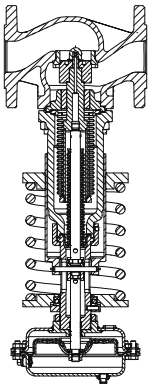


Fig. ...705 UDA

Nominal diameter	DN	15	20	25	32	40	50	65	80	100	125	150
Kvs-values	Standard	3,2	5	8	12,5	20	32	50	80	125	190	280
	Reduced	0,1/0,4/ 1/2,5	0,1/0,4/ 1/2,5/4	0,1/0,4/ 1/2,5/4/6,3	--	--	--	--	--	--	--	--

Inlet pressure ranges	Actuator	Figure 65.705 Body made of 1.4581 PN 40
0,2 - 0,6 barg	UDA 400	on request
0,5 - 1,2 barg	UDA 250	
0,8 - 2,5 barg	UDA 160	
2,0 - 5,0 barg	UDA 80	
4,5 - 10,0 barg	UDA 40	
8,0 - 16,0 barg	UDA 40	

Additional performance	DN	15	20	25	32	40	50	65	80	100	125	150
Water seal pot, elbows and funnel		incl. in the price (the waterseal pot is not required if the temperature of the flow media liquids and gases is lower than the maximal permitted operation temperature of the diaphragm. Price reduction: 119,- EUR)										
Flow divider		228,-	228,-	255,-	255,-	314,-	314,-	431,-	517,-	748,-	999,-	1.403,-
Plug with PTFE soft sealing		343,-	343,-	343,-	343,-	352,-	371,-	502,-	569,-	742,-	922,-	1.071,-

Special flange drillings refer to page 220.

To minimize valve wearing, a strainer has to be installed in front of the excess pressure regulator.

Design acc. to data sheet

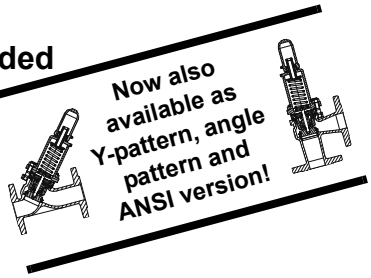
Flanges drilled acc. to ANSI on request.

Order data: 1. Figure-No.; 2. Nominal diameter (DN); 3. Nominal pressure (PN); 4. Body material; 5. Plug design; 6. Kvs-value; 7. Pressure ranges; 8. Actuator design; 9. Special design / Accessories

ARI-PRESO® Fig.753

Pressure regulating valve, spring loaded

PN 16 cast iron EN-JL1040
PN 16 nodular iron EN-JS1049
PN 16 stainless steel 1.4408
PN 16 cast steel 1.0619+N



Action: Valve opens with rising differential pressure

German "TA-Luft" TÜV-Test-No. 922-9241371

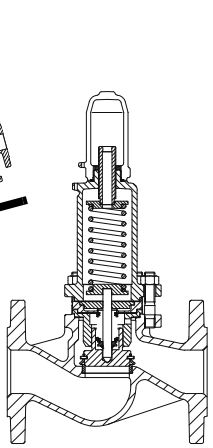


Fig. ...753

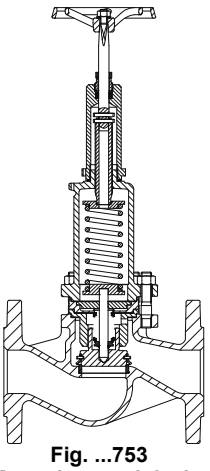


Fig. ...753
Manual control device

Nominal diameter	DN	15	20	25	32	40	50	65	80	100
Kvs-values		2	2,5	3	5	10	20	22	29	45
Pressure range		**Figure 12.753**			**Body made of EN-JL1040 PN 16**					
0,5 - 1,5 bar		912,-	944,-	1.121,-	1.182,-	1.337,-	1.616,-	1.926,-	2.540,-	2.834,-
1,0 - 3,0 bar										
2,0 - 5,0 bar										
4,0 - 10 bar										
Pressure range		**Figure 22.753**			**Body made of EN-JS1049 PN 16**					
0,5 - 1,5 bar		971,-	1.020,-	1.226,-	1.320,-	1.487,-	1.769,-	2.140,-	2.834,-	3.165,-
1,0 - 3,0 bar										
2,0 - 5,0 bar										
4,0 - 10 bar										
Pressure range		**Figure 32.753**			**Body made of 1.0619+N PN 16**					
0,5 - 1,5 bar		1.048,-	1.119,-	1.367,-	1.509,-	1.726,-	2.096,-	2.440,-	3.240,-	3.705,-
1,0 - 3,0 bar										
2,0 - 5,0 bar										
4,0 - 10 bar										
Pressure range		**Figure 52.753**			**Body made of 1.4408 PN 16**					
0,5 - 1,5 bar		1.555,-	1.655,-	2.003,-	2.163,-	2.435,-	3.406,-	4.112,-	5.453,-	9.727,-
1,0 - 3,0 bar										
2,0 - 5,0 bar										
4,0 - 10 bar										
Additional performance	**DN**	**15**	**20**	**25**	**32**	**40**	**50**	**65**	**80**	**100**
Manual control device		322,-	322,-	322,-	322,-	322,-	322,-	403,-	403,-	403,-
Plug design PTFE (max. 200°C)		218,-	218,-	218,-	218,-	236,-	243,-	326,-	377,-	487,-
Special flange drilling		refer to page 220								

Design acc. to data sheet

Order data: 1. Figure-No.; 2. Nominal diameter (DN); 3. Nominal pressure (PN); 4. Body material; 5. Plug design; 6. Kvs-value; 7. Pressure range; 8. Special design / Accessories

ARI-TEMPTROL® Fig. 771/772

Thermal closing valves acc. to DIN EN 14597

TÜV-approval: VdTÜV Reg.-No. TR910/TW911

PN 16 cast iron EN-JL1040
PN 16/25 nodular iron EN-JS1049
PN 40 cast steel 1.0619+N
PN 40 stainless steel 1.4408

Fig. 12./22./23./35./55.771 without cooling spacer - max. 150°C
Fig. 12./22./23./35./55.772 with cooling spacer - max. 300°C

Action: Closes with rising temperature

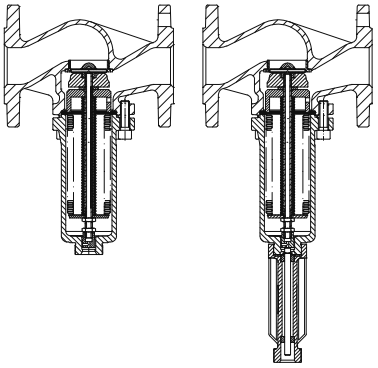


Fig. ...771 **Fig. ...772**

Optional: Version LC without balancing bellow on request
PN 16 cast iron EN-JL1040 DN15-50:
Fig. 12.771....1..1 without cooling spacer - max. 130°C
Fig. 12.772....1..1 with cooling spacer - max. 250°C

Nominal diameter			DN	15	20	25	32	40	50	65	80	100
Kvs-values		Standard		4	6,3	10	16	22	32	50	70	80
		Reduced		0,4 / 1	--	--	--	--	--	--	--	--
PN 16	EN-JL1040	Fig. 12.771		652,-	996,-	996,-	1.059,-	1.288,-	1.397,-	2.986,-	3.506,-	4.394,-
		Fig. 12.772		698,-	1.048,-	1.048,-	1.110,-	1.343,-	1.456,-	3.053,-	3.602,-	4.467,-
	EN-JS1049	Fig. 22.771		939,-	1.498,-	1.498,-	1.588,-	1.926,-	2.091,-	3.683,-	4.204,-	5.326,-
		Fig. 22.772		1.036,-	1.565,-	1.565,-	1.654,-	1.997,-	2.146,-	3.752,-	4.298,-	5.395,-
PN 25	EN-JS1049	Fig. 23.771		939,-	1.498,-	1.498,-	1.588,-	1.926,-	2.091,-	3.738,-	4.340,-	5.966,-
		Fig. 23.772		1.036,-	1.565,-	1.565,-	1.654,-	1.997,-	2.146,-	3.805,-	4.368,-	6.023,-
PN 40	1.0619+N	Fig. 35.771		1.192,-	1.517,-	1.517,-	1.652,-	1.947,-	2.259,-	3.963,-	4.579,-	6.432,-
		Fig. 35.772		1.262,-	1.587,-	1.587,-	1.730,-	2.023,-	2.332,-	4.170,-	4.653,-	6.506,-
	1.4408	Fig. 55.771		1.456,-	2.319,-	2.319,-	2.461,-	2.987,-	3.241,-	4.515,-	6.027,-	8.357,-
		Fig. 55.772		1.604,-	2.427,-	2.427,-	2.565,-	3.092,-	3.327,-	4.598,-	6.136,-	8.466,-

ARI-TEMPTROL® Fig. 771 LCG

Thermal closing valves acc. to DIN EN 14597

TÜV-approval: VdTÜV Reg.-No. TR910/TW911

PN 16 red brass CC499K

Version LCG without balancing bellow

Fig. 72.771....2..1 with EPDM soft sealing - max. 130°C

Action: Closes with rising temperature

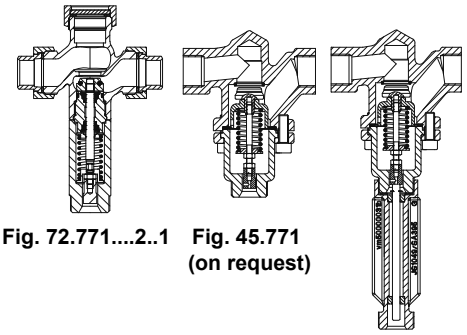


Fig. 72.771....2..1 **Fig. 45.771 (on request)** **Fig. 45.772 (on request)**

Pr.regul.v. PRESO®/ Temp.reg. TEMPTROL®

Nominal diameter			DN	15	20	25	32	40	50
			G1	G 1/2"	G 3/4"	G 1"	G 1 1/4"	G 1 1/2"	G 2"
			G2	G 1 1/8"	G 1 1/4"	G 1 1/2"	G 2"	G 2 1/4"	G 2 3/4"
Kvs-values		Standard		4	6,3	10	16	25	40
PN 16	CC499K	Fig. 72.771....2..1 (LCG)		499,-	597,-	724,-	PN40 of SA105 on request		

Version LCG without balancing bellow of forged steel on request:

PN 40 forged steel SA105: Fig. 45.771....2..1 without cooling spacer - max. 130°C
Fig. 45.772....2..1 with cooling spacer - max. 250°C

Design acc. to data sheet

Special flange drillings and threads refer to page 220

Order data: 1. Figure-No.; 2. Nominal diameter (DN); 3. Nominal pressure (PN); 4. Body material; 5. Kvs-value; 6. ΔP; 7. Medium

ARI-TEMPTROL® Fig. 775

Thermal opening valves acc. to DIN EN 14597

TÜV-approval: VdTÜV Reg.-No. TR910/TW911

PN 16 cast iron EN-JL1040
PN 16/25 nodular iron EN-JS1049
PN 40 cast steel 1.0619+N
PN 40 stainless steel 1.4408

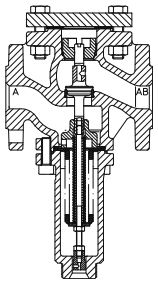


Fig. ...775

Fig. 12./22./23./35./55.775 without cooling spacer - max. 150°C
(>150°C on request)

Action: Opens with rising temperature

Optional: Version LC without balancing bellow on request
PN 16 cast iron EN-JL1040 DN15-50:
Fig. 12.775....1..1 without cooling spacer - max. 130°C

Nominal diameter			DN	15	20	25	32	40	50	65	80	100
Kvs-values		Standard		4	6,3	10	16	22	32	50	70	80
		Reduced		0,4 / 1	--	--	--	--	--	--	--	--
PN 16	EN-JL1040	Fig. 12.775		1.182,-	1.405,-	1.511,-	1.687,-	1.840,-	1.953,-	2.836,-	2.962,-	4.519,-
PN 16	EN-JS1049	Fig. 22.775		1.429,-	1.640,-	1.778,-	1.927,-	2.162,-	2.329,-	3.110,-	3.420,-	4.948,-
PN 25	EN-JS1049	Fig. 23.775		1.429,-	1.640,-	1.778,-	1.927,-	2.162,-	2.329,-	3.245,-	3.552,-	5.076,-
PN 40	1.0619+N	Fig. 35.775		1.619,-	1.849,-	2.051,-	2.302,-	2.588,-	2.778,-	3.711,-	4.211,-	5.927,-
PN 40	1.4408	Fig. 55.775		2.428,-	2.788,-	3.021,-	3.276,-	3.675,-	3.960,-	5.040,-	6.570,-	8.625,-

ARI-TEMPTROL® Fig. 775 LCG

Thermal opening valves acc. to DIN EN 14597

TÜV-approval: VdTÜV Reg.-No. TR910/TW911

PN 16 red brass CC499K

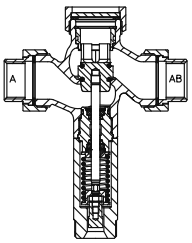


Fig. ...775....2..1

Version LCG without balancing bellow

Fig. 72.775....2..1 with EPDM soft sealing - max. 130°C

Action: Opens with rising temperature

Nominal diameter			DN	15	20	25	32	40	50
			G1	G 1/2"	G 3/4"	G 1"	G 1 1/4"	G 1 1/2"	G 2"
			G2	G 1 1/8"	G 1 1/4"	G 1 1/2"	G 2"	G 2 1/4"	G 2 3/4"
Kvs-values		Standard		4	6,3	10	16	25	40
PN 16	CC499K	Fig. 72.775....2..2 (LCG)		581,-	708,-	816,-	879,-	1.023,-	1.127,-

Design acc. to data sheet

Special flange drillings and threads refer to page 220

Order data: 1. Figure-No.; 2. Nominal diameter (DN); 3. Nominal pressure (PN); 4. Body material; 5. Kvs-value; 6. ΔP; 7. Medium

ARI-TEMPTROL® Fig. 773/774

Thermal mixing/diverting valves acc. to DIN EN 14597

TÜV-approval: VdTÜV Reg.-No. TR910/TW911

PN 16 cast iron EN-JL1040
PN 16/25 nodular iron EN-JS1049
PN 40 cast steel 1.0619+N
PN 40 stainless steel 1.4408

Fig. 12./22./23./35./55.773 without cooling spacer - max. 150°C
Fig. 12./22./23./35./55.774 with cooling spacer - max. 300°C

Action of mixing function:
Reduces / Closes inlet B with rising temperature
Action of diverting function:
Reduces / Closes outlet B with rising temperature

Optional: Version LC without balancing bellow on request
PN 16 cast iron EN-JL1040 DN15-50 :
Fig. 12.773....1..1 without cooling spacer - max. 130°C
Fig. 12.774....1..1 with cooling spacer - max. 250°C

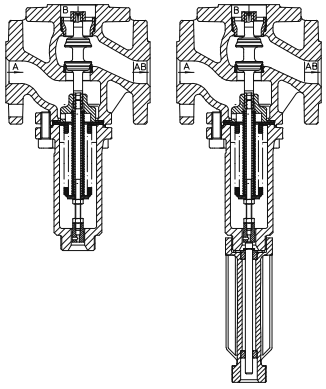


Fig. ...773 **Fig. ...774**

Nominal diameter			DN	15	20	25	32	40	50	65	80	100
Kvs-values		Standard		4	6,3	10	16	22	32	50	70	80
		Reduced		0,4 / 1	--	--	--	--	--	--	--	--
PN 16	EN-JL1040	Fig. 12.773		1.196,-	1.419,-	1.530,-	1.709,-	1.906,-	2.003,-	3.322,-	3.714,-	5.473,-
		Fig. 12.774		1.258,-	1.485,-	1.599,-	1.806,-	1.975,-	2.071,-	3.378,-	3.784,-	5.543,-
	EN-JS1049	Fig. 22.773		1.442,-	1.671,-	1.818,-	2.003,-	2.202,-	2.397,-	3.820,-	4.001,-	6.066,-
		Fig. 22.774		1.511,-	1.734,-	1.873,-	2.065,-	2.284,-	2.454,-	4.071,-	5.231,-	6.132,-
PN 25	EN-JS1049	Fig. 23.773		1.442,-	1.671,-	1.818,-	2.003,-	2.202,-	2.397,-	3.930,-	4.132,-	6.294,-
		Fig. 23.774		1.511,-	1.734,-	1.873,-	2.065,-	2.284,-	2.454,-	4.152,-	5.298,-	6.213,-
PN 40	1.0619+N	Fig. 35.773		1.587,-	1.850,-	2.178,-	2.764,-	2.996,-	3.464,-	4.888,-	5.509,-	7.595,-
		Fig. 35.774		1.654,-	1.922,-	2.249,-	2.831,-	3.071,-	3.541,-	4.978,-	5.584,-	7.666,-
	1.4408	Fig. 55.773		2.451,-	2.835,-	3.090,-	3.406,-	3.744,-	4.075,-	5.473,-	6.397,-	8.610,-
		Fig. 55.774		2.567,-	2.948,-	3.186,-	3.510,-	3.883,-	4.174,-	5.546,-	6.474,-	8.692,-

ARI-TEMPTROL® Fig. 773 LCG

Thermal mixing/diverting valves acc. to DIN EN 14597

TÜV-approval: VdTÜV Reg.-No. TR910/TW911

PN 16 red brass CC499K

Version LCG without balancing bellow

Fig. 72.773....2..1 with EPDM soft sealing - max. 130°C

Action of mixing function:
Reduces / Closes inlet B with rising temperature
Action of diverting function:
Reduces / Closes outlet B with rising temperature

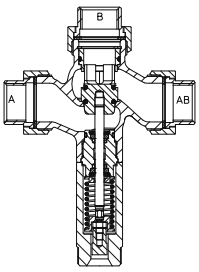


Fig. 72.773....2..1

Nominal diameter			DN	15	20	25	32	40	50
			G1	G 1/2"	G 3/4"	G 1"	G 1 1/4"	G 1 1/2"	G 2"
			G2	G 1 1/8"	G 1 1/4"	G 1 1/2"	G 2"	G 2 1/4"	G 2 3/4"
Kvs-values		Standard		4	6,3	10	16	25	40
PN 16	CC499K	Fig. 72.773....2..1 (LCG)		520,-	633,-	752,-	817,-	957,-	1.058,-

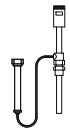
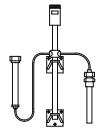
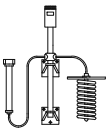
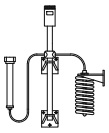
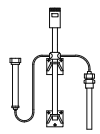
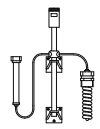
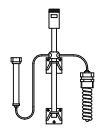
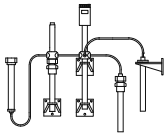
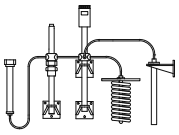
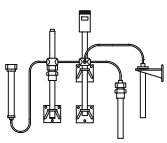
Design acc. to data sheet

Special flange drillings and threads refer to page 220

Order data: 1. Figure-No.; 2. Nominal diameter (DN); 3. Nominal pressure (PN); 4. Body material; 5. Kvs-value; 6. ΔP; 7. Medium

ARI-TEMPTROL® Fig. 771/772/773/774/775

Thermal controller / detector acc. to DIN EN 14597

	Type				Size	Setting range	Temperature sensor version
	Thermal controller		Thermal detector				
	9900386011	896.-	9900387611	957.-	I	-20°C ... +50°C 0 ... +70°C +30 ... +100°C +60 ... +130°C	Temperature sensor and set-point adjusting knob in one unit. Stainless steel 1.4541 (optional sensor pocket)
	9900386021	910.-	9900387621	971.-	II		
	9900386031	943.-	9900387631	1,003.-	III		
	9900386041	1,109.-	9900387641	1,167.-	I	-20°C ... +50°C 0 ... +70°C +30 ... +100°C +60 ... +130°C +130 ... +200°C	Rod sensor, nickel-plated brass (optional sensor pocket)
	9900386051	1,126.-	9900387651	1,183.-	II		
	9900386061	1,150.-	9900387661	1,207.-	III		
	9900386071	1,251.-	9900387671	1,311.-	I		Spiral sensor for gas Copper blank with flange
	9900386081	1,273.-	9900387681	1,334.-	II		
	9900386091	1,301.-	9900387691	1,357.-	III		
	9900386101	1,158.-	9900387701	1,215.-	I		Spiral sensor for gas Copper blank with bracket
	9900386111	1,186.-	9900387711	1,247.-	II		
	9900386121	1,214.-	9900387721	1,271.-	III		
	9900386131	1,481.-	9900387731	1,552.-	I		Rod sensor, Stainless steel 1.4541 (optional sensor pocket)
	9900386141	1,522.-	9900387741	1,595.-	II		
	9900386151	1,569.-	9900387751	1,643.-	III		
	9900386311	1,431.-	9900387911	1,215.-	I	-20°C ... +50°C 0 ... +70°C +30 ... +100°C +60 ... +130°C	Spiral sensor for gas and liquids, nickel-plated copper
	9900386321	1,481.-	9900387921	1,552.-	II		
	9900386331	1,496.-	9900387931	1,570.-	III		
	9900386341	2,346.-	9900387941	2,435.-	I	-20°C ... +50°C 0 ... +70°C +30 ... +100°C +60 ... +130°C +130 ... +200°C	Spiral sensor for gas and liquids, Stainless steel 1.4541
	9900386351	2,449.-	9900387951	2,536.-	II		
	9900386361	2,673.-	9900387961	2,763.-	III		
	9900387461	3,476.-			I	+30 ... +105°C trend scale	Rod sensor, nickel plated brass (optional sensor pocket) outdoor rod sensor, stainl. st. 1.4541 (with bracket)
	9900387471	3,476.-			II		
	9900387481	3,476.-			III		
	Detector-volume ratio 1 : 2.5						
	9900387491	3,399.-			I	+10 ... +50°C trend scale	Spiral sensor for gas, Copper blank with flange outdoor rod sensor, stainl. st. 1.4541 (with bracket)
	9900387501	3,399.-			II		
	9900387511	3,399.-			III		
	Detector-volume ratio 1 : 1.8						
	9900387581	3,470.-			I	+25 ... +95°C trend scale	Rod sensor, nickel plated brass (optional sensor pocket) outdoor rod sensor, stainl. st. 1.4541 (with bracket)
	9900387591	3,470.-			II		
	9900387601	3,470.-			III		
	Detector-volume ratio 1 : 1.9						

ARI-TEMPTROL® Fig. 771/772/773/774/775

Accessories

Additional performance for accessories				
Manual control device			Type 9900390011	320,-
Sensor pocket (brass)	**For thermal controller**	**For thermal detector**		
	9900386011	9900387611	Type 990038600Z22	167,-
	9900386021	9900387621	Type 990038600Z24	181,-
	9900386031	9900387631	Type 990038600Z26	210,-
	9900386041	9900387641	Type 990038600Z21	137,-
	9900386051	9900387651	Type 990038600Z23	174,-
	9900386061	9900387661	Type 990038600Z25	191,-
	9900386131	9900387731	Type 990038600Z21	137,-
	9900386141	9900387741	Type 990038600Z23	174,-
	9900386151	9900387751	Type 990038600Z25	191,-
Sensor pocket (stainless steel)	**For thermal controller**	**For thermal detector**		
	9900386011	9900387611	Type 990038600Z32	186,-
	9900386021	9900387621	Type 990038600Z34	206,-
	9900386031	9900387631	Type 990038600Z36	240,-
	9900386041	9900387641	Type 990038600Z31	156,-
	9900386051	9900387651	Type 990038600Z33	198,-
	9900386061	9900387661	Type 990038600Z35	218,-
	9900386131	9900387731	Type 990038600Z31	156,-
	9900386141	9900387741	Type 990038600Z33	198,-
	9900386151	9900387751	Type 990038600Z35	218,-

Additional performance		
Capillary tube	Length 2 m	no add. performance
	Length 4 m *	73,-
	Length 8 m *	200,-
	Length 16 m *	448,-
Filling medium for ambient temperatures down to -60°C NEW! from ARI		on request

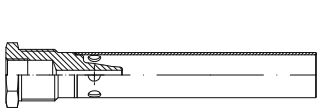
Design acc. to data sheet

*Additional performances valid for each single tube (L1, L2, L3).

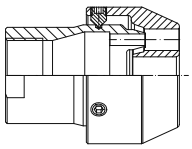
Order data: 1. Type-No.; 2. Temperature range; 3. Length of capillary tube

Steam injector

Types of connection:	BR	nominal diameters
Rp 1/2 internal and R1 external thread DIN EN10226-1	651....2	DN15
R1-R1 1/2 internal thread DIN EN10226-1	651....2	DN25 - 40
Butt weld ends	651....4	DN25 - 40



BR 651 (1/2")

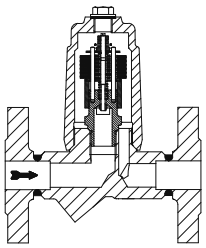


BR 651 (1" - 1 1/2")

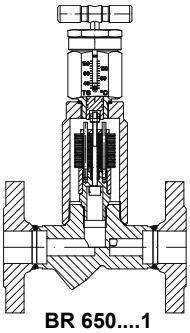
I84			ΔPMX	TS	DN - NPS		
		Figure	bar	°C	15 - 1/2"	25 - 1"	40 - 1 1/2"
PN 25	1.4301	54.651....2	17	207	319,-	--	--
	1.4305				--	392,-	568,-
	1.4301	54.651....4			--	392,-	568,-

Liquid return temperature limiter

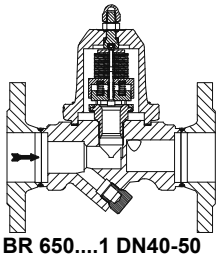
Types of connection:	BR
Flanges (acc. to DIN)	650....1
Screwed sockets (Rp- and NPT)	650....2
Socket-weld ends	650....3
Butt-weld ends	650....4



BR 650....1



BR 650....1 external adjustment with temperature scale



BR 650....1 DN40-50 external adjustment

			DPMX	TS	DN - NPS				
		Figure	bar	°C	15 - 1/2"	20 - 3/4"	25 - 1"	40 - 1 1/2"	50 - 2"
PN 40	1.0460	45.650....140	6	180	556,-	568,-	598,-	1.246,-	1.367,-
		45.650....240			508,-	531,-	543,-	1.367,-	1.273,-
		45.650....340 45.650....440			521,-	541,-	558,-	1.212,-	1.273,-

Additional performance	DN - NPS				
	15 - 1/2"	20 - 3/4"	25 - 1"	40 - 1 1/2"	50 - 2"
Thermometer insert with adapter	98,-	98,-	98,-	98,-	98,-
External adjustment	187,-	187,-	187,-	standard	

Adjustable closing temperature from 60°C up to 130°C (further temperature ranges on request).

Notes:

Liquid return temperature limiter

Notes:

ARI-FABA®-Plus

Stop valves - maintenance-free metallic sealing

PN 16 with bellows seal up to 300°C
cast iron EN-JL1040

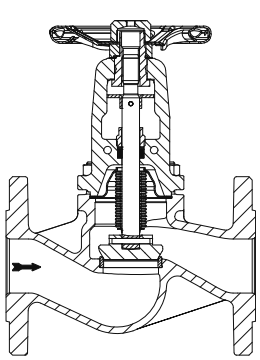


Fig. 12.046

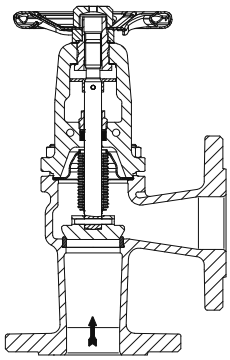


Fig. 12.047

German"TA-Luft" (clean air act)
TÜV-Test-No. TA 07 2016 C04
acc. to EN ISO 15848-1

G31		DN													
		15	20	25	32	40	50	65	80	100	125	150	200	250	300
PN 16 Straight through	**Fig. 12.046**	142,-	157,-	177,-	208,-	239,-	294,-	400,-	509,-	668,-	1.067,-	1.341,-	3.097,-	4.789,-	6.941,-
	Regulating plug	176,-	186,-	215,-	251,-	289,-	357,-	487,-	625,-	813,-	1.266,-	1.595,-	3.419,-	5.217,-	7.483,-

I36		DN													
		15	20	25	32	40	50	65	80	100	125	150	200	250	300
PN 16 Angle pattern	**Fig. 12.047**	167,-	183,-	212,-	254,-	288,-	352,-	478,-	615,-	921,-	1.252,-	1.803,-	3.617,-	5.592,-	8.164,-
	Regulating plug	199,-	217,-	249,-	297,-	340,-	418,-	565,-	733,-	1.067,-	1.456,-	2.056,-	3.955,-	6.037,-	8.729,-

Additional performance		DN													
		15	20	25	32	40	50	65	80	100	125	150	200	250	300
Plug design	PTFE (max.200°C)	50,-	50,-	65,-	72,-	75,-	79,-	84,-	91,-	108,-	112,-	147,-	309,-	448,-	539,-
	Balancing plug												525,-	774,-	883,-
	Loose plug spring [1)]	41,-	41,-	41,-	41,-	61,-	61,-	76,-	102,-	223,-	265,-	313,-	448,-	709,-	1.018,-
Trans-mitter	1 limit switch open or close	365,-	365,-	365,-	365,-	365,-	365,-	435,-	435,-	435,-	501,-	501,-	704,-	704,-	704,-
	2 limit switches open/close	624,-	624,-	624,-	624,-	624,-	624,-	666,-	666,-	666,-	678,-	678,-	988,-	988,-	988,-
Design as hood valve		158,-	158,-	158,-	158,-	158,-	158,-	164,-	164,-	275,-	275,-	275,-			
Spare part cover unit		79,-	87,-	104,-	120,-	137,-	166,-	230,-	291,-	381,-	604,-	764,-	1.763,-	2.723,-	3.960,-
Stem extension		refer to page 220													
Special flange drilling		refer to page 220													

Design acc. to data sheet
Attention: Notice the need of a pressure balancing plug from certain differential pressure - refer to page 220

[1)] From DN200 onwards without spring

Certifications on page 221.

⚠ **Attention: Observe max. perm. Δp in throttling function!**

ARI-FABA®-Plus

Stop valves - maintenance-free metallic sealing

PN 16 with bellows seal up to 350°C
nodular iron EN-JS1049

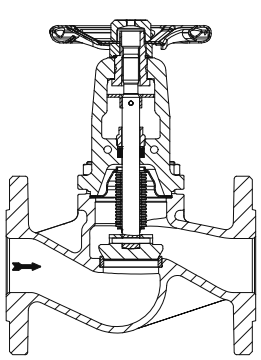


Fig. 22.046

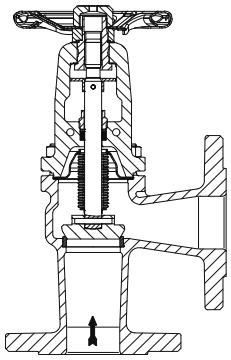


Fig. 22.047

German"TA-Luft" (clean air act)
TÜV-Test-No. TA 07 2016 C04
acc. to EN ISO 15848-1
TRB 801 No. 45 [1)]
DIN-DVGW-Registration GAS (Fig. 22.046)

G32		DN														
		15	20	25	32	40	50	65	80	100	125	150	200	250	300	350
PN 16 Straight through	**Fig. 22.046**	227,-	245,-	275,-	348,-	374,-	482,-	596,-	727,-	983,-	1.517,-	1.986,-	4.497,-	7.057,-	10.177,-	15.645,-
	Regulating plug	258,-	276,-	310,-	387,-	424,-	545,-	680,-	845,-	1.127,-	1.719,-	2.236,-	4.813,-	7.479,-	10.708,	16.239,-

I36		DN														
		15	20	25	32	40	50	65	80	100	125	150	200	250	300	350
PN 16 Angle pattern	**Fig. 22.047**	260,-	312,-	352,-	435,-	466,-	598,-	732,-	913,-	1.230,-	1.858,-	2.415,-	5.249,-	8.472,-	12.351,-	
	Regulating plug	295,-	348,-	387,-	478,-	516,-	662,-	817,-	1.029,-	1.377,-	2.062,-	2.669,-	5.571,-	8.893,-	12.887,-	

Additional performance		DN														
		15	20	25	32	40	50	65	80	100	125	150	200	250	300	350
Plug design	PTFE (max. 200°C)	50,-	50,-	65,-	72,-	75,-	79,-	84,-	91,-	108,-	112,-	147,-	309,-	448,-	539,-	
	Balancing plug												525,-	774,-	883,-	1.015,-
	Loose plug spring [2)]	41,-	41,-	41,-	41,-	61,-	61,-	76,-	102,-	223,-	265,-	313,-	448,-	709,-	1.018,-	1.763,-
Trans-mitter	1 limit switch open or close	365,-	365,-	365,-	365,-	365,-	365,-	435,-	435,-	435,-	501,-	501,-	704,-	704,-	704,-	999,-
	2 limit switches open/close	624,-	624,-	624,-	624,-	624,-	624,-	666,-	666,-	666,-	678,-	678,-	988,-	988,-	988,-	1.395,-
Design as hood valve		158,-	158,-	158,-	158,-	158,-	158,-	164,-	164,-	275,-	275,-	275,-				
Spare part cover unit		128,-	152,-	170,-	208,-	226,-	291,-	358,-	439,-	595,-	916,-	1.188,-	2.702,-	4.243,-	6.116,-	9.442,-
Stem extension		refer to page 220														
Special flange drilling		refer to page 220														

Design acc. to data sheet
Attention: Notice the need of a pressure balancing plug from certain differential pressure - refer to page 220

[1)] Additional certification necessary - acc. to EN 10204-3.1 (for additional costs refer to page 221, 1.1 and 1.2)

[2)] From DN200 onwards without spring

Certifications on page 221.

⚠ **Attention: Observe max. perm. Δp in throttling function!**

ARI-FABA®-Plus

Stop valves - maintenance-free metallic sealing

PN 25 with bellows seal up to 350°C
nodular iron EN-JS1049

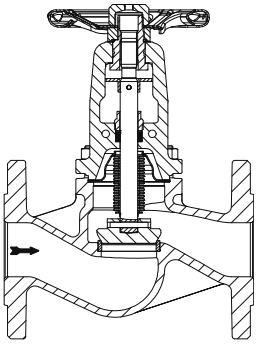


Fig. 23.046

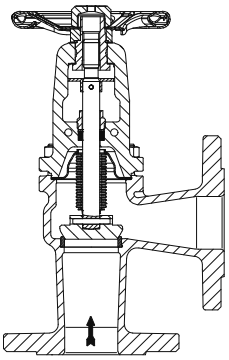


Fig. 23.047
refer to Fig. 35.047 **(page 85)**

German"TA-Luft" (clean air act)
TÜV-Test-No. TA 07 2016 C04
acc. to EN ISO 15848-1
TRB 801 No. 45 [1)]

G33		DN										
		15	20	25	32	40	50	65	80	100	125	150
PN 25 Straight through	**Fig. 23.046**	245,-	265,-	306,-	367,-	440,-	546,-	681,-	909,-	1.219,-	1.747,-	2.472,-
	Regulating plug	276,-	300,-	345,-	411,-	491,-	610,-	767,-	1.027,-	1.365,-	1.949,-	2.723,-

I36		DN										
		15	20	25	32	40	50	65	80	100	125	150
PN 25 Angle pattern	**Fig. 23.047**	**refer to Fig. 35.047 (page 85)**										
	Regulating plug											

Additional performance		DN										
		15	20	25	32	40	50	65	80	100	125	150
Plug design	PTFE (max.200°C)	50,-	50,-	65,-	72,-	75,-	79,-	84,-	91,-	108,-	112,-	147,-
	Balancing plug											291,-
	Loose plug spring	41,-	41,-	41,-	41,-	61,-	61,-	76,-	102,-	223,-	265,-	313,-
Trans-mitter	1 limit switch open or close	365,-	365,-	365,-	365,-	365,-	365,-	435,-	435,-	435,-	501,-	501,-
	2 limit switches open/close	624,-	624,-	624,-	624,-	624,-	624,-	666,-	666,-	666,-	678,-	678,-
Design as hood valve		158,-	158,-	158,-	158,-	158,-	158,-	164,-	164,-	275,-	275,-	275,-
Spare part cover unit		128,-	152,-	170,-	208,-	226,-	291,-	358,-	439,-	595,-	916,-	1.188,-
Stem extension		refer to page 220										
Special flange drilling		refer to page 220										

Design acc. to data sheet
Attention: Notice the need of a pressure balancing plug from certain differential pressure - refer to page 220

[1)] Additional certification necessary - acc. to EN 10204-3.1 (for additional costs refer to page 221, 1.1 and 1.2)

Certifications on page 221.

⚠ **Attention: Observe max. perm. Δp in throttling function!**

ARI-FABA®-Plus

Stop valves - maintenance-free metallic sealing

PN 25 / 40 with bellows seal up to 450°C
cast steel 1.0619+N
PN 40 with bellows seal up to 450°C
forged steel 1.0460

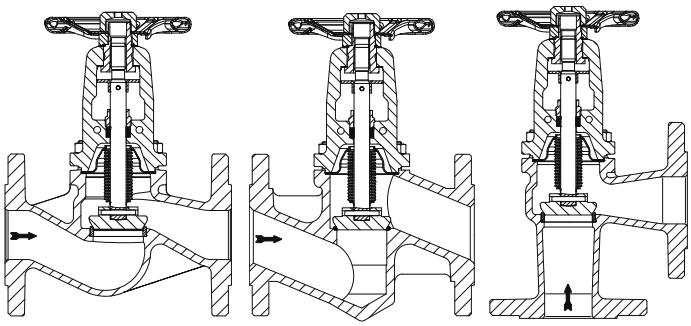


Fig. 34./35.046 Fig. 45.046 Fig. 34./35.047

German"TA-Luft" (clean air act)
TÜV-Test-No. TA 07 2016 C04
acc. to EN ISO 15848-1
TRB 801 No. 45 [1)]

I31		DN															
		15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400
PN 40 Straight through	**Fig. 35.046**	389,-	401,-	419,-	557,-	618,-	679,-	1.053,-	1.442,-	1.799,-	2.514,-	3.095,-	6.456,-	11.971,-			
	Regulating plug	424,-	433,-	455,-	601,-	668,-	743,-	1.140,-	1.559,-	1.945,-	2.715,-	3.350,-	6.779,-	12.392,			
PN 40 Straight through	**Fig. 45.046**	413,-	424,-	436,-	584,-	647,-	712,-										
	Regulating plug	442,-	458,-	475,-	626,-	697,-	777,-										
PN 25 Straight through	**Fig. 34.046**												5.094,-	8.769,-	13.592,-	21.837,-	29.137,-
	Regulating plug												5.414,-	9.195,-	14.126,-	22.444,-	29.849,-

I36		DN															
		15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400
PN 40 Angle pattern	**Fig. 35.047**	466,-	490,-	567,-	680,-	825,-	969,-	1.345,-	1.751,-	2.350,-	3.322,-	4.369,-					
	Regulating plug	497,-	521,-	605,-	724,-	877,-	1.035,-	1.431,-	1.868,-	2.495,-	3.523,-	4.622,-					
PN 25 Angle pattern	**Fig. 34.047**												6.723,-	14.092,-	17.767,-		
	Regulating plug												7.040,-	14.515,-	18.301,-		

Additional performance		DN															
		15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400
Plug design	PTFE (max. 200°C)	50,-	50,-	65,-	72,-	75,-	79,-	84,-	91,-	108,-	112,-	147,-	309,-	448,-	539,-		
	Balancing plug [2)]										291,-	291,-	525,-	774,-	883,-	1.015,-	1.167,-
	Loose plug spring [3)]	41,-	41,-	41,-	41,-	61,-	61,-	76,-	102,-	223,-	265,-	313,-	448,-	709,-	1.018,-	1.763,-	2.459,-
	Stellited plug/seat	309,-				338,-			382,-	544,-	730,-	982,-	1.459,-	1.986,-	2.171,-	3.160,-	4.170,-
Studs + nuts A4 below -10°C		28,-	28,-	34,-	34,-	34,-	34,-	38,-	47,-	76,-	85,-	242,-	341,-				
Trans-mitter	1 limit switch open or close	365,-	365,-	365,-	365,-	365,-	365,-	435,-	435,-	435,-	501,-	501,-	704,-	704,-	704,-	999,-	999,-
	2 limit switches open/close	624,-	624,-	624,-	624,-	624,-	624,-	666,-	666,-	666,-	678,-	678,-	988,-	988,-	988,-	1.395,-	1.395,-
Design as hood valve		158,-	158,-	158,-	158,-	158,-	158,-	164,-	164,-	275,-	275,-	275,-					
Spare part cover unit		240,-	240,-	240,-	341,-	378,-	417,-	643,-	884,-	1.102,-	1.530,-	1.888,-	3.107,-	5.351,-	8.291,-	13.322,-	17.773,-
Stem extension		refer to page 220															
Special flange drilling		refer to page 220															

Design acc. to data sheet
Attention: Notice the need of a pressure balancing plug from certain differential pressure - refer to page 220
[1)] Additional certification necessary - acc. to EN 10204-3.1 (for additional costs refer to page 221, 1.1 and 1.2)
[2)] PN 25 from DN150 onwards
[3)] From DN200 onwards without spring
Certifications on page 221.

⚠ **Attention: Observe max. perm. Δp in throttling function!**

ARI-FABA®-Plus

Stop valves - maintenance-free metallic sealing

with butt weld ends

PN 25 / 40 with bellows seal up to 450°C
cast steel 1.0619+N
PN 40 with bellows seal up to 450°C
forged steel 1.0460

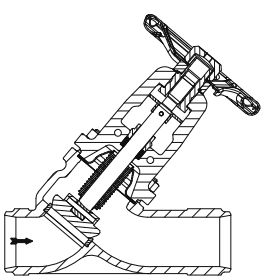


Fig. 34./35.066

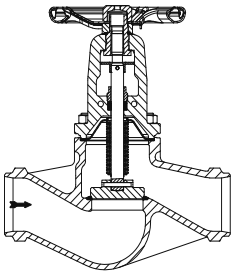


Fig. 34./35.040

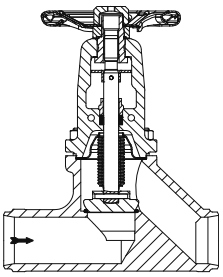


Fig. 45.040

German "TA-Luft" (clean air act)
TÜV-Test-No. TA 07 2016 C04
acc. to EN ISO 15848-1
TRB 801 No. 45 [1)]

		DN													
		15	20	25	32	40	50	65	80	100	125	150	200	250	300
PN 40 Y-pattern	**Fig. 35.066**	352,-	361,-	366,-	502,-	553,-	595,-	988,-	1.329,-	1.707,-	2.424,-	3.065,-	6.387,-	11.837,-	
	Regulating plug	384,-	393,-	405,-	546,-	604,-	659,-	1.076,-	1.447,-	1.855,-	2.629,-	3.319,-	6.705,-	12.257,-	
PN 25 Y-pattern	**Fig. 34.066**												5.238,-	7.751,-	11.200,-
	Regulating plug												5.558,-	8.174,-	11.740,-
PN 40 Straight through	**Fig. 45.040**	389,-	401,-	419,-	559,-	618,-	679,-								
	Regulating plug	424,-	433,-	455,-	603,-	668,-	743,-								
PN 40 Straight through	**Fig. 35.040**							1.238,-	1.691,-	2.091,-	2.921,-	3.616,-	7.543,-	13.977,-	
	Regulating plug							1.324,-	1.807,-	2.238,-	3.126,-	3.869,-	7.862,-	14.398,-	
PN 25 Straight through	**Fig. 34.040**												6.539,-	8.764,-	12.655,-
	Regulating plug												6.858,-	9.186,-	13.263,-

Additional performance		DN													
		15	20	25	32	40	50	65	80	100	125	150	200	250	300
Plug design	PTFE (max.200°C)	50,-	50,-	65,-	72,-	75,-	79,-	84,-	91,-	108,-	112,-	147,-	309,-	448,-	539,-
	Balancing plug [2)]										291,-	291,-	525,-	774,-	883,-
	Loose plug spring [3)]	41,-	41,-	41,-	41,-	61,-	61,-	76,-	102,-	223,-	265,-	313,-	448,-	709,-	1.018,-
	Stellited plug / seat	309,-				338,-			382,-	544,-	730,-	982,-	1.459,-	1.986,-	2.171,-
Studs + nuts A4 below -10°C		28,-	28,-	34,-	34,-	34,-	34,-	38,-	47,-	76,-	85,-	242,-	341,-		
Trans-mitter	1 limit switch open or close	365,-	365,-	365,-	365,-	365,-	365,-	435,-	435,-	435,-	501,-	501,-	704,-	704,-	704,-
	2 limit switches open/close	624,-	624,-	624,-	624,-	624,-	624,-	666,-	666,-	666,-	678,-	678,-	988,-	988,-	988,-
Spare part cover unit		240,-	240,-	240,-	341,-	378,-	417,-	643,-	884,-	1.102,-	1.530,-	1.888,-	3.107,-	5.351,-	8.291,-
Stem extension		refer to page 220													
Special butt weld end shaping		refer to page 220													

Design acc. to data sheet
Attention: Notice the need of a pressure balancing plug from certain differential pressure - refer to page 220
[1)] Additional certification necessary - acc. to EN 10204-3.1 (for additional costs refer to page 221, 1.1 and 1.2)
[2)] PN 25 from DN150 onwards
[3)] From DN200 onwards without spring
Certifications on page 221.

⚠ **Attention: Observe max. perm. Δp in throttling function!**

ARI-FABA®-Plus Stainless steel

Stop valves - maintenance-free metallic sealing

PN 16 / 25 / 40 with bellows seal up to 400°C
stainless steel 1.4408
Fig. 52./55.046 - Body and cover stainless steel
Fig. 62./65.046 - Body stainless steel - Cover steel [1)]

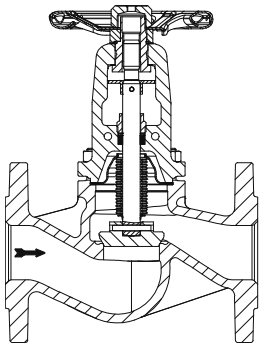


Fig. 52./55.046 62./65.046

German"TA-Luft" (clean air act)
TÜV-Test-No. TA 07 2016 C04
acc. to EN ISO 15848-1
TRB 801 No. 45 [2)]

		DN													
		15	20	25	32	40	50	65	80	100	125	150	200	250	
PN 16 / 25 / 40 Straight through	PN 16 **Fig. 62.046**	652,-	835,-	884,-	1.024,-	1.226,-	1.404,-	2.143,-	2.648,-	3.213,-	5.123,-	6.842,-	12.683,-	26.000,-	Application down to - 10°C
	Regulating plug	709,-	900,-	962,-	1.121,-	1.340,-	1.547,-	2.328,-	2.910,-	3.589,-	5.633,-	7.518,-	13.818,-	27.507,-	
	PN 25 / 40 **Fig. 65.046**	652,-	835,-	884,-	1.024,-	1.226,-	1.404,-	2.551,-	3.175,-	3.855,-	6.148,-	8.206,-	15.860,-	32.514,-	
	Regulating plug	709,-	900,-	962,-	1.121,-	1.340,-	1.547,-	2.734,-	3.437,-	4.229,-	6.661,-	8.885,-	16.996,-	34.024,-	
PN 16 / 25 / 40 Straight through	PN 16 **Fig. 52.046**	762,-	980,-	1.038,-	1.203,-	1.439,-	1.679,-	2.493,-	3.103,-	3.781,-	6.017,-	8.047,-	14.919,-	30.585,-	Application down to - 60°C
	Regulating plug	818,-	1.044,-	1.115,-	1.296,-	1.555,-	1.819,-	2.676,-	3.364,-	4.153,-	6.527,-	8.722,-	16.059,-	32.100,-	
	PN 25 / 40 **Fig. 55.046**	762,-	980,-	1.038,-	1.203,-	1.439,-	1.679,-	2.986,-	3.727,-	4.535,-	7.227,-	9.653,-	17.248,-	35.355,-	
	Regulating plug	818,-	1.044,-	1.115,-	1.296,-	1.555,-	1.819,-	3.168,-	3.988,-	4.911,-	7.734,-	10.329,-	18.386,-	36.871,-	

Additional performance		DN													
		15	20	25	32	40	50	65	80	100	125	150	200	250	
Plug design	PTFE (max. 200°C)	156,-	156,-	156,-	208,-	208,-	208,-	268,-	325,-	395,-	509,-	601,-	735,-	867,-	
	Balancing plug [3)]										422,-	422,-	771,-	1.120,-	
	Loose plug spring [4)]	41,-	41,-	41,-	41,-	61,-	61,-	76,-	102,-	223,-	265,-	313,-	448,-	709,-	
Trans-mitter	1 limit switch open or close	379,-	379,-	379,-	379,-	379,-	379,-	449,-	449,-	449,-	515,-	515,-	739,-	739,-	
	2 limit switches open/close	655,-	655,-	655,-	655,-	655,-	655,-	699,-	699,-	699,-	711,-	711,-	1.037,-	1.037,-	
Spare part cover unit	Fig. 55.046	465,-	597,-	634,-	733,-	875,-	1.017,-	1.819,-	2.270,-	2.763,-	3.753,-	5.799,-	10.369,-	21.160,-	
	Fig. 65.046	240,-	240,-	341,-	378,-	417,-	643,-	884,-	1.102,-	1.530,-	1.888,-	3.107,-	5.351,-	8.291,-	
Stem extension		refer to page 220													
Special flange drilling		refer to page 220													

Design acc. to data sheet
Attention: Notice the need of a pressure balancing plug from certain differential pressure - refer to page 220

[1)] All wetted parts made of stainless steel

[2)] Additional certification necessary - acc. to EN 10204-3.1 (for additional costs refer to page 221, 1.1 and 1.2)

[3)] PN 16 from DN200 onwards
PN 25 from DN150 onwards

[4)] From DN200 onwards without spring

Certifications on page 221.

⚠ **Attention: Observe max. perm. Δp in throttling function!**

ARI-FABA®-Plus Stainless steel

Stop valves - maintenance-free metallic sealing

PN 16 / 25 / 40 with bellows seal up to 400°C
stainless steel 1.4408
Fig. 52./55.069 - Body and cover stainless steel
Fig. 62./65.069 - Body stainless steel - Cover steel [1)]

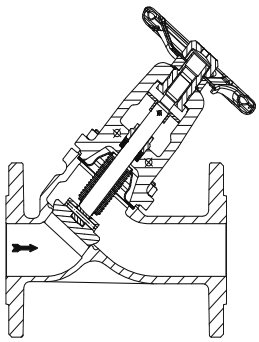


Fig. **52./55.069**
62./65.069

German"TA-Luft" (clean air act)
TÜV-Test-No. TA 07 2016 C04
acc. to EN ISO 15848-1
TRB 801 No. 45 [2)]

		DN													
		15	20	25	32	40	50	65	80	100	125	150		200	
PN 16 / 25 / 40 Y-pattern	PN 16 **Fig. 62.069**	601,-	769,-	814,-	983,-	1.170,-	1.367,-	1.904,-	2.378,-	2.893,-	4.397,-	5.884,-		10.909,-	Application down to - 10°C
	Regulating plug	659,-	835,-	891,-	1.077,-	1.286,-	1.507,-	2.088,-	2.638,-	3.267,-	4.908,-	6.559,-		12.054,-	
	PN 25 / 40 **Fig. 65.069**	601,-	769,-	814,-	983,-	1.170,-	1.367,-	2.570,-	3.325,-	3.902,-	5.938,-	7.941,-	PN 25	14.156,-	
	Regulating plug	659,-	835,-	891,-	1.077,-	1.286,-	1.507,-	2.755,-	3.586,-	4.278,-	6.449,-	8.621,-		15.301,-	
PN 16 / 25 / 40 Y-pattern	PN 16 **Fig. 52.069**	703,-	900,-	958,-	1.156,-	1.382,-	1.612,-	2.242,-	2.795,-	3.402,-	5.174,-	6.919,-		12.837,-	Application down to - 60°C
	Regulating plug	761,-	964,-	1.036,-	1.250,-	1.494,-	1.751,-	2.425,-	3.056,-	3.780,-	5.684,-	7.593,-		13.977,-	
	PN 25 / 40 **Fig. 55.069**	703,-	900,-	958,-	1.156,-	1.382,-	1.612,-	2.691,-	3.352,-	4.080,-	6.209,-	8.305,-	PN 25	14.830,-	
	Regulating plug	761,-	964,-	1.036,-	1.250,-	1.494,-	1.751,-	2.873,-	3.614,-	4.456,-	6.721,-	8.980,-		15.972,-	

Additional performance		DN													
		15	20	25	32	40	50	65	80	100	125	150		200	
Plug design	PTFE (max. 200°C)	156,-	156,-	156,-	208,-	208,-	208,-	268,-	325,-	395,-	509,-	601,-		735,-	
	Balancing plug [3)]										422,-	422,-		771,-	
	Loose plug spring [4)]	41,-	41,-	41,-	41,-	61,-	61,-	76,-	102,-	223,-	265,-	313,-		448,-	
Trans-mitter	1 limit switch open or close	379,-	379,-	379,-	379,-	379,-	379,-	449,-	449,-	449,-	515,-	515,-		739,-	
	2 limit switches open/close	655,-	655,-	655,-	655,-	655,-	655,-	699,-	699,-	699,-	711,-	711,-		1.037,-	
Spare part cover unit	Fig. 55.069	465,-	597,-	634,-	733,-	875,-	1.017,-	1.819,-	2.270,-	2.763,-	3.753,-	5.799,-		10.369,-	
	Fig. 65.069	240,-	240,-	341,-	378,-	417,-	643,-	884,-	1.102,-	1.530,-	1.888,-	3.107,-		5.351,-	
Stem extension		refer to page 220													
Special flange drilling		refer to page 220													

Design acc. to data sheet
Attention: Notice the need of a pressure balancing plug from certain differential pressure - refer to page 220

[1)] All wetted parts made of stainless steel

[2)] Additional certification necessary - acc. to EN 10204-3.1 (for additional costs refer to page 221, 1.1 and 1.2)

[3)] PN 16 from DN200 onwards
PN 25 from DN150 onwards

[4)] From DN200 onwards without spring

Certifications on page 221.

⚠ **Attention: Observe max. perm. Δp in throttling function!**

ARI-FABA®-Plus Stainless steel

Stop valves - maintenance-free metallic sealing

with butt weld ends

PN 25 / 40 with bellows seal up to 400°C
stainless steel 1.4581
Fig. 54./55.066 - Body and cover stainless steel

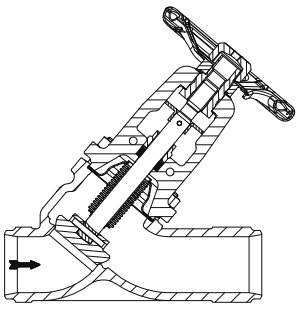


Fig. 54./55.066

German"TA-Luft" (clean air act)
TÜV-Test-No. TA 07 2016 C04
acc. to EN ISO 15848-1
TRB 801 No. 45 [1)]

		DN													
		15	20	25	32	40	50	65	80	100	125	150		200	
PN 25 / 40 Y-pattern	PN 25 / 40 **Fig. 55.066**	768,-	979,-	1.036,-	1.262,-	1.509,-	1.753,-	2.929,-	3.641,-	4.433,-	6.764,-	9.019,-	PN 25	16.131,-	Application down to -60°C
	Regulating plug	823,-	1.043,-	1.114,-	1.353,-	1.620,-	1.893,-	3.112,-	3.904,-	4.807,-	7.274,-	9.695,-		17.272,-	

Additional performance		DN													
		15	20	25	32	40	50	65	80	100	125	150		200	
Plug design	PTFE (max. 200°C)	156,-	156,-	156,-	208,-	208,-	208,-	268,-	325,-	395,-	509,-	601,-		735,-	
	Balancing plug [2)]										422,-	422,-		771,-	
	Loose plug spring [3)]	41,-	41,-	41,-	41,-	61,-	61,-	76,-	102,-	223,-	265,-	313,-		448,-	
Trans-mitter	1 limit switch open or close	379,-	379,-	379,-	379,-	379,-	379,-	449,-	449,-	449,-	515,-	515,-		739,-	
	2 limit switches open/close	655,-	655,-	655,-	655,-	655,-	655,-	699,-	699,-	699,-	711,-	711,-		1.037,-	
Spare part cover unit		465,-	597,-	634,-	733,-	875,-	1.017,-	1.819,-	2.270,-	2.763,-	3.753,-	5.799,-		10.369,-	
Stem extension		refer to page 220													
Special butt weld end shaping		refer to page 220													

Design acc. to data sheet
Attention: Notice the need of a pressure balancing plug from certain differential pressure - refer to page 220
[1)] Additional certification necessary - acc. to EN 10204-3.1 (for additional costs refer to page 221, 1.1 and 1.2)
[2)] PN 25 from DN150 onwards
[3)] From DN200 onwards without spring
Certifications on page 221.

⚠ **Attention: Observe max. perm. Δp in throttling function!**

ARI-FABA®-Plus ANSI

Stop valves - maintenance-free, metallic sealing

ANSI150-300 with bellows seal up to 800°F/427°C
carbon steel SA216 WCB - ASME Sect. II
ANSI300 with bellows seal up to 800°F/427°C
forged steel SA105 - ASME B16.34

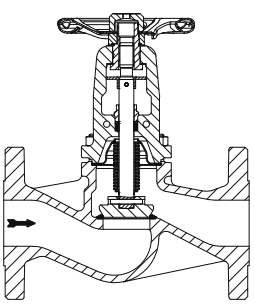


Fig. 32./35.041

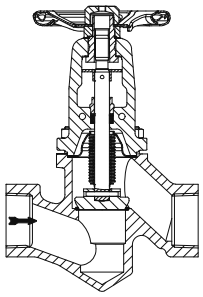


Fig. 45.049....2

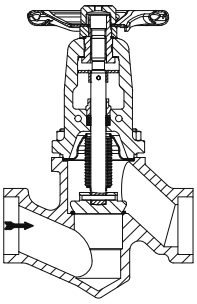


Fig. 45.049....3

German"TA-Luft" (clean air act)
TÜV-Test-No. TA 07 2016 C04
acc. to EN ISO 15848-1

		DN / NPS												
		15	20	25	32	40	50	65	80	100	150	200	250	
		1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	6"	8"	10"	
ANSI 150 Flanges	**Fig. 32.041**	530,-	539,-	562,-	--	836,-	916,-	1.389,-	1.853,-	2.315,-	4.000,-	6.550,-	11.681,-	Flanges: ANSI B 16.5 Face-to-face dimension: ANSI B 16.10
	Regulating plug	562,-	570,-	601,-	--	885,-	981,-	1.476,-	1.971,-	2.462,-	4.254,-	6.869,-	12.087,-	
ANSI 300 Flanges	**Fig. 35.041**	557,-	569,-	593,-	--	883,-	963,-	1.460,-	1.952,-	2.436,-	4.212,-	6.894,-	11.938,-	
	Regulating plug	592,-	603,-	629,-	--	934,-	1.028,-	1.547,-	2.071,-	2.583,-	4.465,-	7.215,-	12.345,-	
ANSI 300 Thread connection	**Fig. 45.049....2**	430,-	438,-	450,-	613,-	676,-	739,-							Thread connection: ANSI B 1.20.1 (NPT) or DIN ISO 228 (BSP)
	Regulating plug	464,-	472,-	489,-	658,-	728,-	803,-							
ANSI 300 Socket weld end	**Fig. 45.049....3**	503,-	513,-	533,-	716,-	796,-	868,-							Socket weld end: ANSI B 16.11
	Regulating plug	538,-	547,-	569,-	760,-	848,-	933,-							

Additional performance		DN / NPS												
		15	20	25	32	40	50	65	80	100	150	200	250	
		1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	6"	8"	10"	
Plug design	PTFE (max.392°F/200°C)	50,-	50,-	65,-	72,-	75,-	79,-	84,-	91,-	108,-	112,-	147,-	309,-	
	Balancing plug										291,-	291,-	525,-	
	Stellited plug / seat	309,-				338,-			382,-	544,-	730,-	982,-	1.459,-	
Trans-mitter	1 limit switch open or close	365,-	365,-	365,-	365,-	365,-	365,-	435,-	435,-	435,-	501,-	501,-	704,-	
	2 limit switches open/close	624,-	624,-	624,-	624,-	624,-	624,-	666,-	666,-	666,-	678,-	678,-	988,-	
Spare part cover unit		335,-	347,-	357,-	484,-	531,-	584,-	885,-	1.184,-	1.478,-	2.548,-	4.166,-	5.515,-	
Stem extension		refer to page 220												
Special flange or butt weld end drilling/shaping		refer to page 220												

Design acc. to data sheet
Attention: Notice the need of a pressure balancing plug from certain differential pressure - refer to page 220
Certifications on page 221.

⚠ **Attention: Observe max. perm. Δp in throttling function!**

ARI-FABA®-Supra I and C with one-piece or two-piece stem

Stop valves with bellows seal - maintenance-free, metallic sealing

Other variations on request:

Fig. 35.147 Angle pattern with flanges, PN25/40, cast steel, DN15-300

Fig. 45.146 Straight through with flanges, PN40, forged steel, DN15-50

Fig. 55.169 Y-pattern with flanges, PN25/40, stainless steel, DN15-200

Fig. 45.149....2 Straight through with screwed sockets, ANSI300, DN15-50

Fig. 45.149....3 Straight through with socket ends, ANSI300, DN15-50

ARI-FABA®-Supra I with one-piece or two-piece stem

Stop valves - maintenance-free, metallic sealing

PN 40 with bellows seal up to 450°C
cast steel 1.0619+N

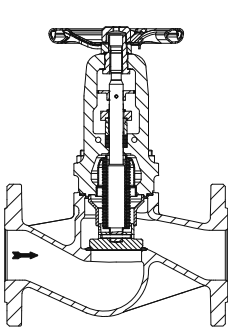


Fig. 35.146....111

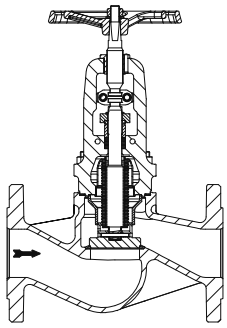


Fig. 35.146....112

German"TA-Luft" (clean air act)
TÜV-Test-No. TA 07 2016 C04
acc. to EN ISO 15848-1
TRB 801 No. 45 [1)]

		DN																
		15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400	500
Straight through	**Fig. 35.146....111** (one-piece stem)	580,-	616,-	635,-	856,-	935,-	1.017,-	1.675,-	1.966,-	2.452,-	4.041,-	4.646,-	7.044,-	12.315,-	17.600,-	23.009,-	29.250,-	
	Regulating plug	613,-	649,-	671,-	900,-	985,-	1.083,-	1.762,-	2.084,-	2.599,-	4.248,-	4.901,-	7.365,-	12.738,-	18.131,-	23.612,-	29.960,-	on request
	Fig. 35.146....112 (two-piece stem)	593,-	629,-	648,-	876,-	956,-	1.038,-	1.708,-	2.004,-	2.503,-	4.121,-	4.740,-	7.464,-	12.846,-	18.254,-	23.749,-	30.112,-	
	Regulating plug	624,-	662,-	685,-	917,-	1.005,-	1.099,-	1.795,-	2.122,-	2.647,-	4.328,-	4.993,-	7.786,-	13.267,-	18.786,-	24.353,-	30.824,-	

Additional performance		DN																
		15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400	500
Plug design	PTFE (max. 200°C)	50,-	50,-	65,-	72,-	75,-	79,-	84,-	91,-	108,-	112,-	147,-	309,-	448,-	539,-			
	Balancing plug										291,-	291,-	525,-	774,-	883,-	1.015,-	1.167,-	
	Stellited plug / seat	309,-				338,-			382,-	544,-	730,-	982,-	1.459,-	1.986,-	2.171,-	3.160,-	4.170,-	
Studs + nuts A4 below -10°C		28,-	28,-	34,-	34,-	34,-	34,-	38,-	47,-	76,-	85,-	242,-	341,-					
Trans-mitter	1 limit switch open or close	365,-	365,-	365,-	365,-	365,-	365,-	435,-	435,-	435,-	501,-	501,-	704,-	704,-	704,-	999,-	999,-	
	2 limit switches open/close	624,-	624,-	624,-	624,-	624,-	624,-	666,-	666,-	666,-	678,-	678,-	988,-	988,-	988,-	1.395,-	1.395,-	
Design as hood valve (one-piece stem)		158,-	158,-	158,-	158,-	158,-	158,-	164,-	164,-	275,-	275,-	275,-						on request
Spare part cover unit (one-piece stem)		349,-	370,-	381,-	515,-	560,-	610,-	1.005,-	1.181,-	1.472,-	2.425,-	2.787,-	4.088,-	6.570,-	9.739,-	12.963,-	16.707,-	
Spare part cover unit (two-piece stem)		355,-	378,-	387,-	525,-	573,-	622,-	1.024,-	1.203,-	1.502,-	2.474,-	2.846,-	4.149,-	6.677,-	9.816,-	13.053,-	16.804,-	
Stem extension		refer to page 220																
Special flange drilling		refer to page 220																
Pneumatic actuator FA (two-piece stem)		**Pneumatic actuator FA refer to page 102.**																

Design acc. to data sheet
Attention: Notice the need of a pressure balancing plug from certain differential pressure - refer to page 220
[1)] Additional certification necessary - acc. to EN 10204-3.1 (for additional costs refer to page 221, 1.1 and 1.2)
Certifications on page 221.

⚠ **Attention: Observe max. perm. Δp in throttling function!**

ARI-FABA®-Supra C with one-piece or two-piece stem

Stop valves - maintenance-free, metallic sealing

PN 40 with bellows seal up to 450°C
cast steel 1.0619+N

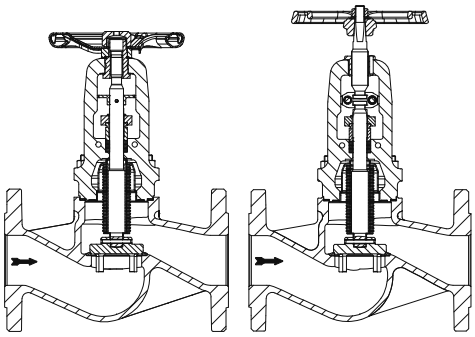


Fig. 35.146....153 Fig. 35.146....154

German"TA-Luft" (clean air act)
TÜV-Test-No. TA 07 2016 C04
acc. to EN ISO 15848-1
TRB 801 No. 45 [1)]

		DN																
		15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400	500
Straight through	**Fig. 35.146....153** (one-piece stem)	596,-	631,-	651,-	879,-	959,-	1.042,-	1.718,-	2.013,-	2.515,-	4.144,-	4.764,-	7.161,-	12.435,-	17.725,-	23.137,-	29.383,-	on request
	Fig. 35.146....154 (two-piece stem)	606,-	642,-	663,-	897,-	979,-	1.062,-	1.750,-	2.054,-	2.563,-	4.223,-	4.856,-	7.581,-	12.964,-	18.378,-	23.877,-	30.247,-	

Additional performance		DN																
		15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400	500
Plug design	PTFE (max. 200°C)	50,-	50,-	65,-	72,-	75,-	79,-	84,-	91,-	108,-	112,-	147,-	309,-	448,-	539,-			
	Balancing plug										291,-	291,-	525,-	774,-	883,-	1.015,-	1.167,-	
	Stellited plug / seat	309,-				338,-			382,-	544,-	730,-	982,-	1.459,-	1.986,-	2.171,-	3.160,-	4.170,-	
Studs + nuts A4 below -10°C		28,-	28,-	34,-	34,-	34,-	34,-	38,-	47,-	76,-	85,-	242,-	341,-					
Trans-mitter	1 limit switch open or close	365,-	365,-	365,-	365,-	365,-	365,-	435,-	435,-	435,-	501,-	501,-	704,-	704,-	704,-	999,-	999,-	
	2 limit switches open/close	624,-	624,-	624,-	624,-	624,-	624,-	666,-	666,-	666,-	678,-	678,-	988,-	988,-	988,-	1.395,-	1.395,-	
Design as hood valve (one-piece stem)		158,-	158,-	158,-	158,-	158,-	158,-	164,-	164,-	275,-	275,-	275,-						on request
Spare part cover unit (one-piece stem)		356,-	380,-	388,-	527,-	575,-	625,-	1.029,-	1.208,-	1.510,-	2.487,-	2.858,-	4.088,-	6.570,-	9.739,-	12.963,-	16.707,-	
Spare part cover unit (two-piece stem)		363,-	385,-	395,-	539,-	587,-	637,-	1.050,-	1.232,-	1.538,-	2.532,-	2.913,-	4.149,-	6.677,-	9.816,-	13.053,-	16.804,-	
Stem extension		refer to page 220																
Special flange drilling		refer to page 220																
Pneumatic actuator FA (two-piece stem)		**Pneumatic actuator FA refer to page 102.**																

Design acc. to data sheet
Attention: Notice the need of a pressure balancing plug from certain differential pressure - refer to page 220
[1)] Additional certification necessary - acc. to EN 10204-3.1 (for additional costs refer to page 221, 1.1 and 1.2)
Certifications on page 221.

⚠ **Attention: Observe max. perm. Δp in throttling function!**

ARI-FABA®-Supra I with one-piece or two-piece stem

Stop valves - maintenance-free, metallic sealing

with butt weld ends

PN 40 with bellows seal up to 450°C
cast steel 1.0619+N
forged steel 1.0460

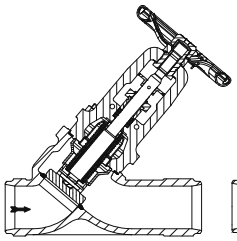


Fig. 35.166....111

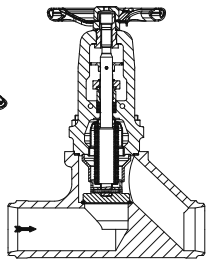


Fig. 45.140....111

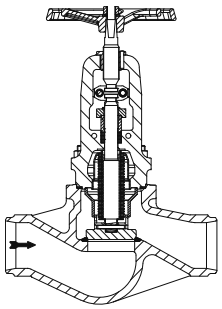


Fig. 35.140....112
(as example for two-piece stem)

German"TA-Luft" (clean air act)
TÜV-Test-No. TA 07 2016 C04
acc. to EN ISO 15848-1 / TRB 801 No. 45 [1)]

		DN																
		15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400	500
Y-pattern	**Fig. 35.166....111** (one-piece stem)	521,-	554,-	559,-	774,-	839,-	886,-	1.570,-	1.814,-	2.328,-	3.900,-	4.598,-	7.533,-	12.392,-	18.821,-			
	Regulating plug	554,-	588,-	598,-	816,-	887,-	953,-	1.655,-	1.930,-	2.474,-	4.103,-	4.852,-	7.853,-	12.815,-	19.355,-			
	Fig. 35.166....112 (two-piece stem)	533,-	566,-	570,-	788,-	854,-	904,-	1.602,-	1.850,-	2.374,-	3.977,-	4.689,-	7.952,-	12.925,-	19.476,-			
	Regulating plug	565,-	601,-	607,-	831,-	904,-	969,-	1.689,-	1.966,-	2.521,-	4.179,-	4.943,-	8.273,-	13.347,-	20.009,-			
Straight through	**Fig. 45.140....111** (one-piece stem)	580,-	616,-	635,-	856,-	935,-	1.017,-											
	Regulating plug	613,-	649,-	671,-	900,-	985,-	1.083,-									on request		
	Fig. 45.140....112 (two-piece stem)	593,-	629,-	648,-	876,-	956,-	1.038,-											
	Regulating plug	624,-	662,-	685,-	917,-	1.005,-	1.099,-											
	Fig. 35.140....111 (one-piece stem)							1.737,-	2.056,-	2.560,-	4.198,-	4.851,-	8.301,-	14.653,-	19.633,-			
	Regulating plug							1.822,-	2.173,-	2.705,-	4.401,-	5.104,-	8.624,-	15.074,-	20.168,-			
	Fig. 35.140....112 (two-piece stem)							1.769,-	2.095,-	2.607,-	4.280,-	4.943,-	8.723,-	15.183,-	20.289,-			
	Regulating plug							1.857,-	2.213,-	2.755,-	4.482,-	5.195,-	9.045,-	15.604,-	20.821,-			

Additional performance		DN																
		15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400	500
Plug design	PTFE (max. 200°C)	50,-	50,-	65,-	72,-	75,-	79,-	84,-	91,-	108,-	112,-	147,-	309,-	448,-	539,-			
	Balancing plug										291,-	291,-	525,-	774,-	883,-			
	Stellited plug / seat	309,-					338,-		382,-	544,-	730,-	982,-	1.459,-	1.986,-	2.171,-			
Studs + nuts A4 below -10°C		28,-	28,-	34,-	34,-	34,-	34,-	38,-	47,-	76,-	85,-	242,-	341,-					
Trans-mitter	1 limit switch open or close	365,-	365,-	365,-	365,-	365,-	365,-	435,-	435,-	435,-	501,-	501,-	704,-	704,-	704,-			
	2 limit switches open/close	624,-	624,-	624,-	624,-	624,-	624,-	666,-	666,-	666,-	678,-	678,-	988,-	988,-	988,-			
Design as hood valve (one-piece stem)		158,-	158,-	158,-	158,-	158,-	158,-	164,-	164,-	275,-	275,-	275,-				on request		
Spare part cover unit (one-piece stem)		349,-	370,-	381,-	515,-	560,-	610,-	1.005,-	1.181,-	1.472,-	2.425,-	2.787,-	4.088,-	6.570,-	9.739,-			
Spare part cover unit (two-piece stem)		355,-	378,-	387,-	525,-	573,-	622,-	1.024,-	1.203,-	1.502,-	2.474,-	2.846,-	4.149,-	6.677,-	9.816,-			
Stem extension		refer to page 220																
Special butt weld end shaping		refer to page 220																
Pneumatic actuator FA (two-piece stem)		**Pneumatic actuator FA refer to page 102.**																

Design acc. to data sheet
Attention: Notice the need of a pressure balancing plug from certain differential pressure - refer to page 220
[1)] Additional certification necessary - acc. to EN 10204-3.1 (for additional costs refer to page 221, 1.1 and 1.2)
Certifications on page 221

⚠ **Attention: Observe max. perm. Δp in throttling function!**

ARI-FABA®-Supra C with one-piece or two-piece stem

Stop valves - maintenance-free, metallic sealing

with butt weld ends

PN 40 with bellows seal up to 450°C
cast steel 1.0619+N
forged steel 1.0460

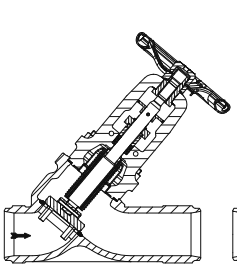


Fig. 35.166....153

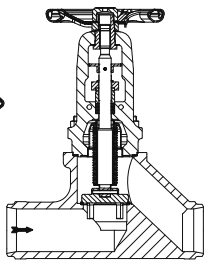


Fig. 45.140....153

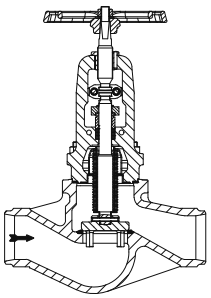


Fig. 35.140....154 (as example for two-piece stem)

German"TA-Luft" (clean air act)
TÜV-Test-No. TA 07 2016 C04
acc. to EN ISO 15848-1 / TRB 801 No. 45 [1)]

		DN																
		15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400	500
Y-pattern	**Fig. 35.166....153** (one-piece stem)	538,-	570,-	575,-	795,-	860,-	914,-	1.612,-	1.861,-	2.388,-	3.999,-	4.714,-	7.650,-	12.513,-	18.946,-			
	Fig. 35.166....154 (two-piece stem)	547,-	581,-	588,-	811,-	878,-	930,-	1.642,-	1.897,-	2.435,-	4.077,-	4.805,-	7.970,-	12.934,-	19.478,-			
Straight through	**Fig. 45.140....153** (one-piece stem)	596,-	631,-	651,-	879,-	959,-	1.042,-									on request		
	Fig. 45.140....154 (two-piece stem)	606,-	642,-	663,-	897,-	979,-	1.062,-											
	Fig. 35.140....153 (one-piece stem)							2.008,-	2.352,-	2.910,-	4.802,-	5.542,-	8.419,-	14.773,-	19.759,-			
	Fig. 35.140....154 (two-piece stem)							2.041,-	2.392,-	2.958,-	4.884,-	5.635,-	8.739,-	15.194,-	20.292,-			

Additional performance		DN																
		15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400	500
Plug design	PTFE (max. 200°C)	50,-	50,-	65,-	72,-	75,-	79,-	84,-	91,-	108,-	112,-	147,-	309,-	448,-	539,-			
	Balancing plug										291,-	291,-	525,-	774,-	883,-			
	Stellited plug / seat	309,-				338,-			382,-	544,-	730,-	982,-	1.459,-	1.986,-	2.171,-			
Studs + nuts A4 below -10°C		28,-	28,-	34,-	34,-	34,-	34,-	38,-	47,-	76,-	85,-	242,-	341,-					
Trans-mitter	1 limit switch open or close	365,-	365,-	365,-	365,-	365,-	365,-	435,-	435,-	435,-	501,-	501,-	704,-	704,-	704,-			
	2 limit switches open/close	624,-	624,-	624,-	624,-	624,-	624,-	666,-	666,-	666,-	678,-	678,-	988,-	988,-	988,-	on request		
Design as hood valve (one-piece stem)		158,-	158,-	158,-	158,-	158,-	158,-	164,-	164,-	275,-	275,-	275,-						
Spare part cover unit (one-piece stem)		356,-	380,-	388,-	527,-	575,-	625,-	1.029,-	1.208,-	1.510,-	2.487,-	2.858,-	4.088,-	6.570,-	9.739,-			
Spare part cover unit (two-piece stem)		363,-	385,-	395,-	539,-	587,-	637,-	1.050,-	1.232,-	1.538,-	2.532,-	2.913,-	4.149,-	6.677,-	9.816,-			
Stem extension		refer to page 220																
Special butt weld end shaping		refer to page 220																
Pneumatic actuator FA (two-piece stem)		**Pneumatic actuator FA refer to page 102.**																

Design acc. to data sheet
Attention: Notice the need of a pressure balancing plug from certain differential pressure - refer to page 220
[1)] Additional certification necessary - acc. to EN 10204-3.1 (for additional costs refer to page 221, 1.1 and 1.2)
Certifications on page 221.

⚠ **Attention: Observe max. perm. Δp in throttling function!**

ARI-FABA®-Supra I Stainless with one-piece or two-piece stem

Stop valves - maintenance-free, metallic sealing

PN 16/40 with bellows seal up to 400°C
stainless steel 1.4408

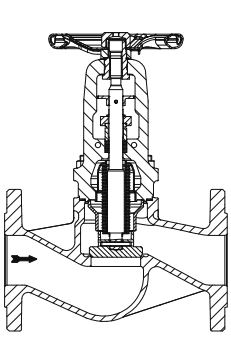


Fig. 52./55.146....111

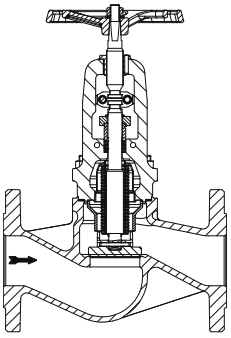


Fig. 52./55.146....112

German"TA-Luft" (clean air act)
TÜV-Test-No. TA 07 2016 C04
acc. to EN ISO 15848-1
TRB 801 No. 45 [1)]

		DN												
		15	20	25	32	40	50	65	80	100	125	150	200	250
PN16 Straight through	**Fig. 52.146....111** (one-piece stem)							2.793,-	3.475,-	4.232,-	6.741,-	9.012,-	16.427,-	33.643,-
	Regulating plug							2.977,-	3.736,-	4.607,-	7.249,-	9.687,-	17.664,-	35.310,-
	Fig. 52.146....112 (two-piece stem)							2.858,-	3.556,-	4.332,-	6.899,-	9.223,-	16.654,-	33.897,-
	Regulating plug							3.043,-	3.818,-	4.708,-	7.410,-	9.899,-	17.893,-	35.562,-
PN 40 Straight through	**Fig. 55.146....111** (one-piece stem)	839,-	1.078,-	1.140,-	1.323,-	1.585,-	1.850,-	3.287,-	4.101,-	4.988,-	7.947,-	10.618,-	18.973,-	38.891,-
	Regulating plug	896,-	1.144,-	1.217,-	1.418,-	1.697,-	1.987,-	3.468,-	4.362,-	5.363,-	8.458,-	11.296,-	20.227,-	40.557,-
	Fig. 55.146....112 (two-piece stem)	854,-	1.097,-	1.163,-	1.348,-	1.616,-	1.887,-	3.349,-	4.180,-	5.087,-	8.106,-	10.833,-	19.200,-	39.142,-
	Regulating plug	913,-	1.164,-	1.240,-	1.442,-	1.730,-	2.025,-	3.534,-	4.442,-	5.464,-	8.616,-	11.507,-	20.452,-	40.808,-

Additional performance		DN												
		15	20	25	32	40	50	65	80	100	125	150	200	250
Plug design	PTFE (max. 200°C)	156,-	156,-	156,-	208,-	208,-	208,-	268,-	325,-	395,-	509,-	601,-	735,-	867,-
	Balancing plug [2)]										422,-	422,-	771,-	1.120,-
Trans-mitter	1 limit switch open or close	379,-	379,-	379,-	379,-	379,-	379,-	449,-	449,-	449,-	515,-	515,-	739,-	739,-
	2 limit switches open/close	655,-	655,-	655,-	655,-	655,-	655,-	699,-	699,-	699,-	711,-	711,-	1.037,-	1.037,-
Design as hood valve (one-piece stem)		158,-	158,-	158,-	158,-	158,-	158,-	164,-	164,-	275,-	275,-	275,-		
Spare part cover unit (one-piece stem)		426,-	647,-	685,-	795,-	952,-	1.109,-	1.971,-	2.459,-	2.993,-	4.768,-	6.374,-	9.703,-	15.694,-
Spare part cover unit (two-piece stem)		512,-	660,-	697,-	808,-	969,-	1.130,-	2.010,-	2.509,-	3.053,-	4.865,-	6.500,-	9.854,-	15.858,-
Stem extension		refer to page 220												
Special flange drilling		refer to page 220												
Pneumatic actuator FA (two-piece stem)		**Pneumatic actuator FA refer to page 102.**												

Design acc. to data sheet
Attention: Notice the need of a pressure balancing plug from certain differential pressure - refer to page 220
[1)] Additional certification necessary - acc. to EN 10204-3.1 (for additional costs refer to page 221, 1.1 and 1.2)
[2)] PN 16 from DN200 onwards
Certifications on page 221.

⚠ **Attention: Observe max. perm. Δp in throttling function!**

ARI-FABA®-Supra C Stainless with one-piece or two-piece stem

Stop valves - maintenance-free, metallic sealing

PN 16/40 with bellows seal up to 400°C
stainless steel 1.4408

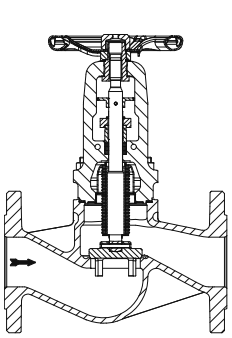


Fig. 52./55.146....153

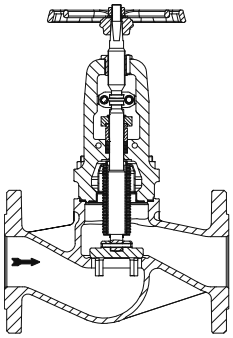


Fig. 52./55.146....154

German"TA-Luft" (clean air act)
TÜV-Test-No. TA 07 2016 C04
acc. to EN ISO 15848-1
TRB 801 No. 45 [1)]

		DN												
		15	20	25	32	40	50	65	80	100	125	150	200	250
PN 16 Straight through	Fig. 52.146....153 (one-piece stem)							2.874,-	3.575,-	4.357,-	6.940,-	9.275,-	16.690,-	33.922,-
	Fig. 52.146....154 (two-piece stem)							2.941,-	3.659,-	4.457,-	7.098,-	9.489,-	16.920,-	34.174,-
PN 40 Straight through	Fig. 55.146....153 (one-piece stem)	857,-	1.102,-	1.169,-	1.356,-	1.623,-	1.893,-	3.367,-	4.203,-	5.112,-	8.146,-	10.884,-	19.239,-	39.170,-
	Fig. 55.146....154 (two-piece stem)	876,-	1.126,-	1.190,-	1.382,-	1.654,-	1.930,-	3.432,-	4.286,-	5.213,-	8.307,-	11.097,-	19.465,-	39.420,-

Additional performance		DN												
		15	20	25	32	40	50	65	80	100	125	150	200	250
Plug design	PTFE (max. 200°C)	156,-	156,-	156,-	208,-	208,-	208,-	268,-	325,-	395,-	509,-	601,-	735,-	867,-
	Balancing plug [2)]										422,-	422,-	771,-	1.120,-
Trans-mitter	1 limit switch open or close	379,-	379,-	379,-	379,-	379,-	379,-	449,-	449,-	449,-	515,-	515,-	739,-	739,-
	2 limit switches open/close	655,-	655,-	655,-	655,-	655,-	655,-	699,-	699,-	699,-	711,-	711,-	1.037,-	1.037,-
Design as hood valve (one-piece stem)		158,-	158,-	158,-	158,-	158,-	158,-	164,-	164,-	275,-	275,-	275,-		
Spare part cover unit (one-piece stem)		515,-	663,-	702,-	814,-	977,-	1.135,-	2.021,-	2.521,-	3.067,-	4.888,-	6.532,-	9.876,-	15.873,-
Spare part cover unit (two-piece stem)		525,-	675,-	713,-	829,-	993,-	1.159,-	2.060,-	2.569,-	3.127,-	4.984,-	6.661,-	10.023,-	16.036,-
Stem extension		refer to page 220												
Special flange drilling		refer to page 220												
Pneumatic actuator FA (two-piece stem)		**Pneumatic actuator FA refer to page 102.**												

Design acc. to data sheet
Attention: Notice the need of a pressure balancing plug from certain differential pressure - refer to page 220
[1)] Additional certification necessary - acc. to EN 10204-3.1 (for additional costs refer to page 221, 1.1 and 1.2)
[2)] PN 16 from DN200 onwards
Certifications on page 221.

⚠ **Attention: Observe max. perm. Δp in throttling function!**

ARI-FABA®-Supra I Stainless with one-piece or two-piece stem

Stop valves - maintenance-free, metallic sealing

with butt weld ends

PN 40 with bellows seal up to 400°C
stainless steel 1.4581

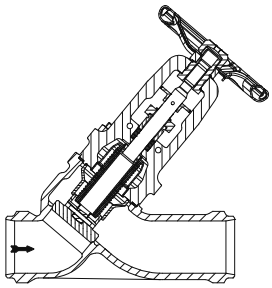


Fig. 55.166....111

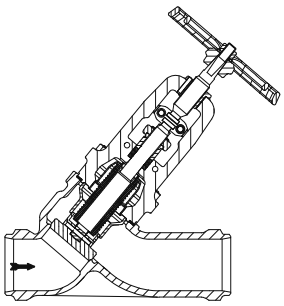


Fig. 55.166....112

German"TA-Luft" (clean air act)
TÜV-Test-No. TA 07 2016 C04
acc. to EN ISO 15848-1
TRB 801 No. 45 [1)]

		DN											
		15	20	25	32	40	50	65	80	100	125	150	200
Y-pattern	**Fig. 55.166....111** (one-piece stem)	843,-	1.076,-	1.138,-	1.388,-	1.658,-	1.928,-	3.219,-	4.006,-	4.877,-	7.441,-	9.922,-	16.293,-
	Regulating plug	901,-	1.140,-	1.216,-	1.480,-	1.771,-	2.068,-	3.404,-	4.267,-	5.253,-	7.949,-	10.598,-	17.431,-
	Fig. 55.166....112 (two-piece stem)	858,-	1.096,-	1.162,-	1.414,-	1.691,-	1.966,-	3.289,-	4.088,-	4.978,-	7.598,-	10.133,-	16.520,-
	Regulating plug	917,-	1.163,-	1.239,-	1.507,-	1.804,-	2.106,-	3.470,-	4.349,-	5.351,-	8.107,-	10.811,-	17.658,-

Additional performance		DN											
		15	20	25	32	40	50	65	80	100	125	150	200
Plug design	PTFE (max. 200°C)	156,-	156,-	156,-	208,-	208,-	208,-	268,-	325,-	395,-	509,-	601,-	735,-
	Balancing plug										422,-	422,-	771,-
Trans-mitter	1 limit switch open or close	379,-	379,-	379,-	379,-	379,-	379,-	449,-	449,-	449,-	515,-	515,-	739,-
	2 limit switches open/close	655,-	655,-	655,-	655,-	655,-	655,-	699,-	699,-	699,-	711,-	711,-	1.037,-
Design as hood valve (one-piece stem)		158,-	158,-	158,-	158,-	158,-	158,-	164,-	164,-	275,-	275,-	275,-	
Spare part cover unit (one-piece stem)		426,-	647,-	685,-	795,-	952,-	1.109,-	1.971,-	2.459,-	2.993,-	4.768,-	6.374,-	9.703,-
Spare part cover unit (two-piece stem)		512,-	660,-	697,-	808,-	969,-	1.130,-	2.010,-	2.509,-	3.053,-	4.865,-	6.500,-	9.854,-
Stem extension		refer to page 220											
Special butt weld end shaping		refer to page 220											
Pneumatic actuator FA (two-piece stem)		**Pneumatic actuator FA refer to page 102.**											

Design acc. to data sheet
Attention: Notice the need of a pressure balancing plug from certain differential pressure - refer to page 220
[1)] Additional certification necessary - acc. to EN 10204-3.1 (for additional costs refer to page 221, 1.1 and 1.2)
Certifications on page 221.

⚠ **Attention: Observe max. perm. Δp in throttling function!**

ARI-FABA®-Supra C Stainless with one-piece or two-piece stem

Stop valves - maintenance-free, metallic sealing

with butt weld ends

PN 40 with bellows seal up to 400°C
stainless steel 1.4581

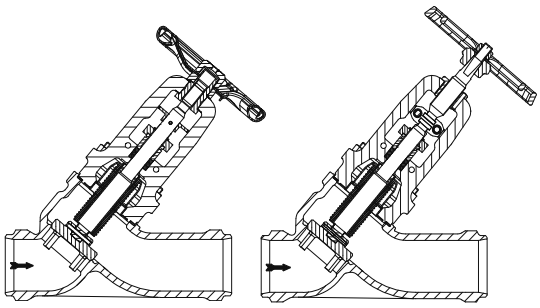


Fig. 55.166....153 Fig. 55.166....154

German"TA-Luft" (clean air act)
TÜV-Test-No. TA 07 2016 C04
acc.to EN ISO 15848-1
TRB 801 No. 45 [1)]

		DN											
		15	20	25	32	40	50	65	80	100	125	150	200
Y-pattern	**Fig. 55.166....153** (one-piece stem)	864,-	1.101,-	1.166,-	1.421,-	1.697,-	1.977,-	3.302,-	4.110,-	5.001,-	7.638,-	10.186,-	16.558,-
	Fig. 55.166....154 (two-piece stem)	881,-	1.125,-	1.188,-	1.447,-	1.730,-	2.012,-	3.369,-	4.191,-	5.103,-	7.798,-	10.400,-	16.785,-

Additional performance		DN											
		15	20	25	32	40	50	65	80	100	125	150	200
Plug design	PTFE (max. 200°C)	156,-	156,-	156,-	208,-	208,-	208,-	268,-	325,-	395,-	509,-	601,-	735,-
	Balancing plug										422,-	422,-	771,-
Trans-mitter	1 limit switch open or close	379,-	379,-	379,-	379,-	379,-	379,-	449,-	449,-	449,-	515,-	515,-	739,-
	2 limit switches open/close	655,-	655,-	655,-	655,-	655,-	655,-	699,-	699,-	699,-	711,-	711,-	1.037,-
Design as hood valve (one-piece stem)		158,-	158,-	158,-	158,-	158,-	158,-	164,-	164,-	275,-	275,-	275,-	
Spare part cover unit (one-piece stem)		515,-	663,-	702,-	814,-	977,-	1.135,-	2.021,-	2.521,-	3.067,-	4.888,-	6.532,-	9.876,-
Spare part cover unit (two-piece stem)		525,-	675,-	713,-	829,-	993,-	1.159,-	2.060,-	2.569,-	3.127,-	4.984,-	6.661,-	10.023,-
Stem extension		refer to page 220											
Special butt weld end shaping		refer to page 220											
Pneumatic actuator FA (two-piece stem)		**Pneumatic actuator FA refer to page 102.**											

Design acc. to data sheet
Attention: Notice the need of a pressure balancing plug from certain differential pressure - refer to page 220
[1)] Additional certification necessary - acc. to EN 10204-3.1 (for additional costs refer to page 221, 1.1 and 1.2)
Certifications on page 221.

⚠ **Attention: Observe max. perm. Δp in throttling function!**

ARI-FABA®-Supra I ANSI with one-piece or two-piece stem

Stop valves - maintenance-free, metallic sealing

ANSI150 / 300 with bellows seal up to 800°F/427°C
carbon steel SA216 WCB - ASME Sect. II

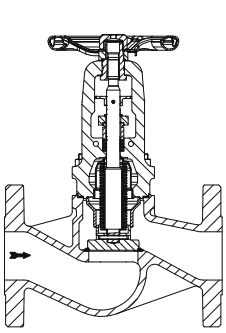


Fig. 32./35.141....111

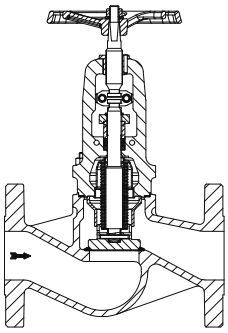


Fig. 32./35.141....112

German"TA-Luft" (clean air act)
TÜV-Test-No. TA 07 2016 C04
acc. to EN ISO 15848-1

		DN / NPS											
		15	20	25	40	50	65	80	100	150	200	250	
		1/2"	3/4"	1"	1 1/2"	2"	2 1/2"	3"	4"	6"	8"	10"	
Straight through ANSI150	**Fig. 32.141....111** (one-piece stem)	584,-	597,-	618,-	925,-	1.009,-	1.530,-	2.047,-	2.552,-	4.413,-	6.928,-	12.084,-	Flanges: ANSI B 16.5 Face-to-face dimension: ANSI B 16.10
	Regulating plug	615,-	629,-	655,-	973,-	1.071,-	1.612,-	2.160,-	2.692,-	4.653,-	7.250,-	12.502,-	
	Fig. 32.141....112 (two-piece stem)	595,-	608,-	631,-	943,-	1.030,-	1.561,-	2.085,-	2.598,-	4.501,-	7.028,-	12.194,-	
	Regulating plug	626,-	640,-	666,-	992,-	1.090,-	1.642,-	2.197,-	2.740,-	4.743,-	7.348,-	12.613,-	
Straight through ANSI300	**Fig. 35.141....111** (one-piece stem)	613,-	626,-	651,-	971,-	1.059,-	1.607,-	2.150,-	2.681,-	4.635,-	7.275,-	12.348,-	
	Regulating plug	647,-	661,-	687,-	1.022,-	1.125,-	1.693,-	2.269,-	2.825,-	4.887,-	7.614,-	12.776,-	
	Fig. 35.141....112 (two-piece stem)	624,-	639,-	663,-	989,-	1.080,-	1.639,-	2.188,-	2.728,-	4.726,-	7.378,-	12.460,-	
	Regulating plug	659,-	671,-	699,-	1.041,-	1.145,-	1.727,-	2.307,-	2.875,-	4.979,-	7.714,-	12.889,-	

Additional performance		DN / NPS											
		15	20	25	40	50	65	80	100	150	200	250	
		1/2"	3/4"	1"	1 1/2"	2"	2 1/2"	3"	4"	6"	8"	10"	
Plug design	PTFE (max. 392°F/200°C)	50,-	50,-	65,-	75,-	79,-	84,-	91,-	108,-	147,-	309,-	448,-	
	Balancing plug									291,-	525,-	774,-	
	Plug/seat stellited		309,-			338,-		382,-	544,-	730,-	982,-	1.459,-	
Trans-mitter	1 limit switch open or close	365,-	365,-	365,-	365,-	365,-	435,-	435,-	435,-	501,-	704,-	704,-	
	2 limit switches open/close	624,-	624,-	624,-	624,-	624,-	666,-	666,-	666,-	678,-	988,-	988,-	
Spare part cover unit (one-piece stem)		366,-	378,-	388,-	583,-	635,-	963,-	1.290,-	1.609,-	2.778,-	4.548,-	6.020,-	
Spare part cover unit (two-piece stem)		377,-	383,-	395,-	596,-	648,-	983,-	1.312,-	1.638,-	2.834,-	4.611,-	6.090,-	
Stem extension		refer to page 220											
Special flange drilling		refer to page 220											
Pneumatic actuator FA (two-piece stem)		**Pneumatic actuator FA refer to page 102.**											

Design acc. to data sheet
Attention: Notice the need of a pressure balancing plug from certain differential pressure - refer to page 220
Certifications on page 221.

⚠ **Attention: Observe max. perm. Δp in throttling function!**

ARI-FABA®-Supra C ANSI with one-piece or two-piece stem

Stop valves - maintenance-free, metallic sealing

ANSI 150 / 300 with bellows seal up to 800°F/427°C
carbon steel SA216 WCB - ASME Sect. II

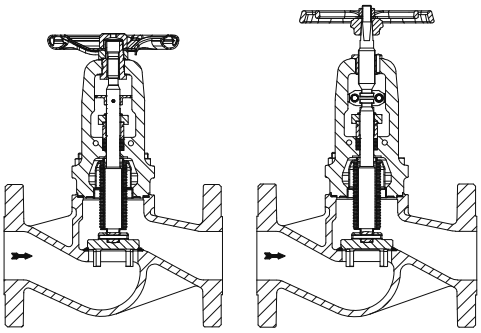


Fig. 32./35.141....153 **Fig. 32./35.141....154**

German"TA-Luft" (clean air act)
TÜV-Test-No. TA 07 2016 C04
acc. to EN ISO 15848-1

		DN / NPS											
		15	20	25	40	50	65	80	100	150	200	250	
		1/2"	3/4"	1"	1 1/2"	2"	2 1/2"	3"	4"	6"	8"	10"	
Straight through ANSI150	**Fig. 32.141....153** (one-piece stem)	597,-	611,-	635,-	945,-	1.032,-	1.552,-	2.087,-	2.598,-	4.469,-	7.041,-	12.206,-	Flanges: ANSI B 16.5 Face-to-face dimension: ANSI B 16.10
	Fig. 32.141....154 (two-piece stem)	608,-	623,-	648,-	964,-	1.050,-	1.585,-	2.125,-	2.646,-	4.558,-	7.140,-	12.312,-	
Straight through ANSI300	**Fig. 35.141....153** (one-piece stem)	626,-	641,-	667,-	993,-	1.084,-	1.631,-	2.192,-	2.728,-	4.693,-	7.394,-	12.474,-	
	Fig. 35.141....154 (two-piece stem)	639,-	655,-	679,-	1.012,-	1.102,-	1.665,-	2.231,-	2.777,-	4.787,-	7.497,-	12.582,-	

Additional performance		DN / NPS											
		15	20	25	40	50	65	80	100	150	200	250	
		1/2"	3/4"	1"	1 1/2"	2"	2 1/2"	3"	4"	6"	8"	10"	
Plug design	PTFE (max. 392°F/200°C)	50,-	50,-	65,-	75,-	79,-	84,-	91,-	108,-	147,-	309,-	448,-	
	Balancing plug									291,-	525,-	774,-	
	Plug/seat stellited		309,-			338,-		382,-	544,-	730,-	982,-	1.459,-	
Trans-mitter	1 limit switch open or close	365,-	365,-	365,-	365,-	365,-	435,-	435,-	435,-	501,-	704,-	704,-	
	2 limit switches open/close	624,-	624,-	624,-	624,-	624,-	666,-	666,-	666,-	678,-	988,-	988,-	
Spare part cover unit (one-piece stem)		378,-	384,-	398,-	597,-	651,-	980,-	1.313,-	1.636,-	2.817,-	4.621,-	6.100,-	
Spare part cover unit (two-piece stem)		383,-	390,-	411,-	606,-	663,-	999,-	1.339,-	1.667,-	2.873,-	4.686,-	6.104,-	
Stem extension		refer to page 220											
Special flange drilling		refer to page 220											
Pneumatic actuator FA (two-piece stem)		**Pneumatic actuator FA refer to page 102.**											

Design acc. to data sheet
Attention: Notice the need of a pressure balancing plug from certain differential pressure - refer to page 220
Certifications on page 221.

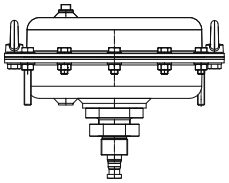
⚠ **Attention: Observe max. perm. Δp in throttling function!**

Pneumatic actuators FA

for ARI-FABA®-Supra I/C with two-piece stem

Actuator type: **FA160, FA250, FA400, FA800**
Function: Single acting,
Spring closes or Spring opens
Control pressure: max. 6 bar

Design acc. to data sheet



FA160 - 800

Pneumatic actuator FA	FA160	FA250	FA400	FA800
Spring closes	1.012,-	1.108,-	1.339,-	2.607,-
Spring opens on air failure	870,-	971,-	1.212,-	2.067,-

Additional performance for accessories	
Solenoid valve (seat 2,5mm, 230V50Hz)	242,-
Throttling valve (G1/4)	193,-
Air set including gauge (with manometer 0-10 bar)	304,-

Closing pressures: Spring closes

DN			15	20	25	32	40	50	65	80	100	125	150
FA160	Air supply pressure min. (**bar**)	4	40	40	26,7	18,0							
FA250		4,5				40	20,5	11,1	1,6				
FA400		4,5					40	31	14,8	6,5	1,4		
FA800		5									17,4	8,9	4,3

Closing pressures: Spring opens on air failure

DN			15	20	25	32	40	50	65	80	100	125	150
FA160	Air supply pressure min. (**bar**)	3	40	40	21,1	13,7							
		4	40	40	40	31,9							
		5	40	40	40	40							
		6	40	40	40	40							
FA250		3				38,4	13,8	6,9					
		4				40	30	17,3	6,2				
		5				40	40	27,8	12,5				
		6				40	40	38,2	18,7				
FA400		3							9,6	3,9			
		4							19,6	10,5	4,7		
		5							29,6	17,1	9		
		6							39,5	23,8	13,2		
FA800		3									10,4	4,5	1,8
		4									18,9	10	5,6
		5									27,5	15,5	9,4
		6									36	21	13,2

The specified closing pressures apply to an approach flow against the closing direction of the plug at p2 = 0 bar.

Notes:

ARI-FABA®-Supra PN63/100/160

Stop valves - maintenance-free metallic sealing

with flanges

PN 63/100/160 with bellows seal
DN10-50:
up to 450°C forged steel 1.0460 [1)]
up to 530°C high temperature steel 1.7335 [2)]

DN65-100:
up to 400°C cast steel 1.0619+N [1)]
up to 530°C high temperature steel 1.7357 [2)]

NEW! from ARI

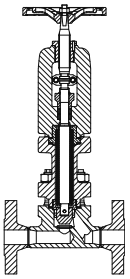


Fig. 48.146....40
DN10-50

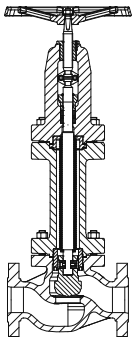


Fig. 38.146....30
DN65-100

			DN										
			10	15	20	25	32	40		50	65	80	100
1.0460	PN 63	**Fig. 46.146....40**	(PN63 for DN10-40 is covered by PN160)						PN 63	4.559,-			
		Regulating plug	(PN63 for DN10-40 is covered by PN160)						PN 63	4.827,-			
	PN 63 / 100 / 160	**Fig. 48.146....40**	2.379,-	2.379,-	2.405,-	2.405,-	3.883,-	3.883,-	PN 100 / 160	4.799,-			
		Regulating plug	2.536,-	2.536,-	2.562,-	2.562,-	4.097,-	4.097,-	PN 100 / 160	5.067,-			
1.7335	PN 63	**Fig. 86.146....81**	(PN63 for DN10-40 is covered by PN160)						PN 63	5.693,-			
		Regulating plug	(PN63 for DN10-40 is covered by PN160)						PN 63	5.961,-			
	PN 63 / 100 / 160	**Fig. 88.146....81**	2.664,-	2.664,-	2.702,-	2.702,-	4.429,-	4.429,-	PN 100 / 160	5.759,-			
		Regulating plug	2.820,-	2.820,-	2.859,-	2.859,-	4.649,-	4.649,-	PN 100 / 160	6.027,-			
1.0619+N	PN 63	**Fig. 36.146....30**									7.232,-	7.758,-	9.686,-
		Regulating plug									7.581,-	8.150,-	10.035,-
	PN 100	**Fig. 37.146....30**									7.592,-	8.373,-	11.482,-
		Regulating plug									7.941,-	8.765,-	11.830,-
	PN 160	**Fig. 38.146....30**									7.592,-	8.373,-	11.482,-
		Regulating plug									7.941,-	8.765,-	11.830,-
1.7357	PN 63	**Fig. 86.146....89**									9.126,-	9.730,-	12.882,-
		Regulating plug									9.475,-	10.123,-	13.318,-
	PN 100	**Fig. 87.146....89**									9.804,-	10.279,-	13.350,-
		Regulating plug									10.154,-	10.672,-	13.787,-
	PN 160	**Fig. 88.146....89**									10.279,-	9.804,-	13.787,-
		Regulating plug									10.672,-	10.154,-	13.350,-

Additional performance		DN										
		10	15	20	25	32	40		50	65	80	100
Plug design	Balancing plug [3)]									on request		
Trans-mitter	1 limit switch open or close	on request										
	2 limit switches open/close	on request										
Spare part cover unit	1.0460	1.759,-	1.759,-	1.781,-	1.781,-	on request						
	1.7335	1.957,-	1.957,-	1.983,-	1.983,-	on request						
	1.0619+N									on request		
	1.7357									on request		
Stem extension		refer to page 220										
Handwheel blocking		on request										
Special flange drilling		refer to page 220										

Design acc. to data sheet

[1)] Inspection: Final certificate and Material certificate acc.to DIN EN 10204-3.1 is standard.

Further certifications on page 221.

[2)] Inspection: Final certificate acc.to DIN EN 10204-3.1 and Material certificate acc.to DIN EN 10204-3.2 is standard.

[3)] Differential pressure acc. to data sheet

⚠ Attention: Observe max. perm. Δp in throttling function!

ARI-FABA®-Supra PN63/100/160

Stop valves - maintenance-free metallic sealing

with butt weld ends

PN 63/100/160 with bellows seal

DN10-50:
up to 450°C forged steel 1.0460 [1)]
up to 530°C high temperature steel 1.5415 [2)]
up to 530°C high temperature steel 1.7335 [2)]

DN65-100:
up to 400°C cast steel 1.0619+N [1)]
up to 530°C high temperature steel 1.7357 [2)]

NEW! from ARI

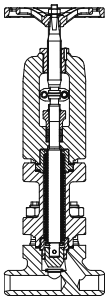


Fig. 48.140....40
DN10-50

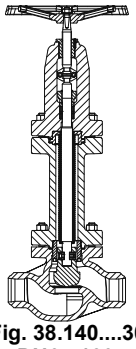


Fig. 38.140....30
DN65-100

			DN									
			10	15	20	25	32	40	50	65	80	100
1.0460	PN 63 / 100 / 160	**Fig. 46./47./48.140....40**	2.022,-	2.022,-	2.048,-	2.048,-	3.351,-	3.351,-	4.254,-			
		Regulating plug	2.179,-	2.179,-	2.204,-	2.204,-	3.567,-	3.567,-	4.521,-			
1.5415	PN 63 / 100 / 160	**Fig. 86./87./88.140....80**	2.102,-	2.102,-	2.129,-	2.129,-	3.221,-	3.221,-	4.624,-			
		Regulating plug	2.259,-	2.259,-	2.286,-	2.286,-	3.436,-	3.436,-	4.892,-			
1.7335	PN 63 / 100 / 160	**Fig. 86./87./88.140....81**	2.249,-	2.249,-	2.279,-	2.279,-	3.360,-	3.360,-	4.669,-			
		Regulating plug	2.406,-	2.406,-	2.437,-	2.437,-	3.575,-	3.575,-	4.936,-			
1.0619+N	PN 63	**Fig. 36.140....30**								6.870,-	7.369,-	9.218,-
		Regulating plug								7.218,-	7.762,-	9.654,-
	PN 100	**Fig. 37.140....30**								7.252,-	7.964,-	10.948,-
		Regulating plug								7.601,-	8.358,-	11.384,-
	PN 160	**Fig. 38.140....30**								7.252,-	7.964,-	10.948,-
		Regulating plug								7.601,-	8.358,-	11.384,-
1.7357	PN 63	**Fig. 86.140....89**								8.723,-	9.263,-	12.248,-
		Regulating plug								9.072,-	9.655,-	12.684,-
	PN 100	**Fig. 87.140....89**								9.352,-	9.794,-	12.700,-
		Regulating plug								9.701,-	10.186,-	13.136,-
	PN 160	**Fig. 88.140....89**								9.352,-	9.794,-	12.700,-
		Regulating plug								9.701,-	10.186,-	13.136,-

Additional performance		DN									
		10	15	20	25	32	40	50	65	80	100
Plug design	Balancing plug [3)]								on request		
Trans-mitter	1 limit switch open or close	on request									
	2 limit switches open/close	on request									
Spare part cover unit	1.0460	1.759,-	1.759,-	1.781,-	1.781,-	on request					
	1.5415	1.830,-	1.830,-	1.853,-	1.853,-	on request					
	1.7335	1.957,-	1.957,-	1.983,-	1.983,-	on request					
	1.0619+N								on request		
	1.7357								on request		
Stem extension		refer to page 220									
Handwheel blocking		on request									
Special flange drilling		refer to page 220									

Design acc. to data sheet

[1)] Inspection: Final certificate and Material certificate acc.to DIN EN 10204-3.1 is standard.

Further certifications on page 221.

[2)] Inspection: Final certificate acc.to DIN EN 10204-3.1 and Material certificate acc.to DIN EN 10204-3.2 is standard.

[3)] Differential pressure acc. to data sheet

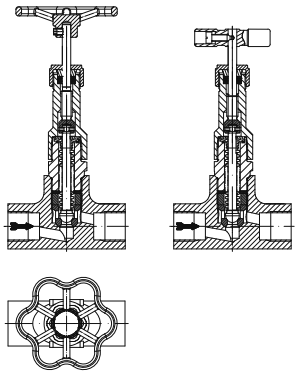
⚠ Attention: Observe max. perm. Δp in throttling function!

Stop valve with bellows seal

Stop valves - maintenance-free metallic sealing

PN 40 with bellows seal up to 450°C
forged steel 1.0460
stainless steel 1.4541

Types of connection:	BR
Screwed sockets (Rp- and NPT)	6A2....2
Socket weld ends	6A2....3
Butt weld ends	6A2....4



Optional:
Hand grip

Fig. 45.6A2....2

I31		DN		
		15 - 1/2"	20 - 3/4"	25 - 1"
PN 40 Straight through	Fig. 45.6A2....2	377,-	377,-	--
	Fig. 45.6A2....3	388,-	388,-	--
	Fig. 45.6A2....4	388,-	388,-	388,-
	Fig. 55.6A2....2	530,-	530,-	--
	Fig. 55.6A2....3	547,-	547,-	--
	Fig. 55.6A2....4	547,-	547,-	547,-

Additional performance	DN		
	15 - 1/2"	20 - 3/4"	25 - 1"
Regulating plug	on request		
Hand grip (standard = hand wheel)	on request		

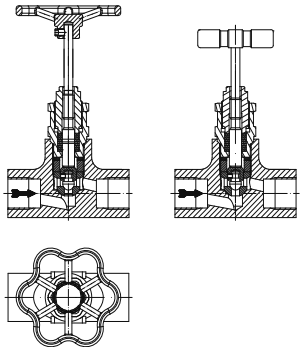
Design acc. to data sheet
Special shapings of Screwed sockets/Socket weld ends/Butt weld ends acc. to agreement
Certifications on page 221.

Stop valve with gland seal

Stop valves - low maintenance metallisch dichtend

PN 40 with gland seal up to 450°C
forged steel 1.0460
stainless steel 1.4541

Types of connection:	BR
Screwed sockets (Rp- and NPT)	6A1....2
Socket weld ends	6A1....3
Butt weld ends	6A1....4



Optional:
Hand grip

Fig. 45.6A1....2

I43		DN		
		15 - 1/2"	20 - 3/4"	25 - 1"
PN 40 Straight through	Fig. 45.6A1....2	264,-	264,-	--
	Fig. 45.6A1....3	280,-	280,-	--
	Fig. 45.6A1....4	280,-	280,-	280,-
	Fig. 55.6A1....2	430,-	430,-	--
	Fig. 55.6A1....3	455,-	455,-	--
	Fig. 55.6A1....4	455,-	455,-	455,-

Additional performance	DN		
	15 - 1/2"	20 - 3/4"	25 - 1"
Regulating plug	on request		
Hand grip (standard = hand wheel)	on request		

Design acc. to data sheet
Special shapings of Screwed sockets/Socket weld ends/Butt weld ends acc. to agreement
Certifications on page 221.

ARI-STOBU®

Stop valves metallic sealing

PN 16 with gland seal up to 300°C
cast iron EN-JL1040
German "TA-Luft" TÜV-Test-No. TA 08 2016 C04
acc. to EN ISO 15848-1 (optional)

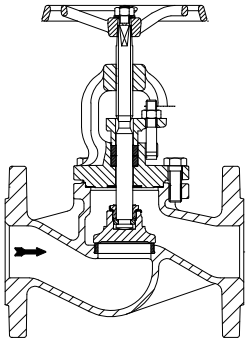


Fig. 12.006

"Angle pattern valves on page 82 with bellow seal"

		DN													
		15	**20**	**25**	**32**	**40**	**50**	**65**	**80**	**100**	**125**	**150**	**200**	**250**	**300**
PN 16 Straight thr.	**Fig. 12.006**	120,-	131,-	155,-	184,-	202,-	246,-	340,-	434,-	573,-	913,-	1.146,-	2.646,-	4.119,-	6.009,-
	Regulating plug + position indicator + locking device	171,-	181,-	202,-	247,-	273,-	332,-	457,-	569,-	728,-	1.114,-	1.392,-	2.967,-	4.538,-	6.543,-

Additional performance		DN													
		15	**20**	**25**	**32**	**40**	**50**	**65**	**80**	**100**	**125**	**150**	**200**	**250**	**300**
Plug design	PTFE (max.200°C)	50,-	50,-	65,-	72,-	75,-	79,-	84,-	91,-	108,-	112,-	147,-	309,-	448,-	539,-
	Screw down non-return plug + spring	23,-	24,-	34,-	38,-	43,-	54,-	68,-	88,-	117,-	170,-	238,-	440,-	694,-	1.004,-
	Balancing plug												366,-	461,-	573,-
	Plug with back seat	140,-	140,-	143,-	143,-	186,-	196,-	259,-	343,-	374,-	530,-	711,-	on request		
Trans-mitter	1 limit switch open or close	496,-	496,-	496,-	496,-	496,-	496,-	530,-	530,-	586,-	614,-	633,-	671,-	671,-	671,-
	2 limit switches open / close	782,-	782,-	782,-	782,-	811,-	811,-	889,-	889,-	908,-	937,-	937,-	1.007,-	1.007,-	1.007,-
Cpl. cover unit as spare part		71,-	80,-	93,-	112,-	120,-	147,-	204,-	261,-	347,-	540,-	682,-	1.576,-	2.453,-	3.578,-
Stem extension		refer to page 220													
EN ISO 15848-1 / German "TA-Luft" packing up to 300°C		115,-	115,-	115,-	115,-	133,-	133,-	167,-	181,-	217,-	274,-	292,-	on request		
Special flange drilling		refer to page 220													

Design acc. to data sheet
Attention: Notice the need of a pressure balancing plug from certain differential pressure - refer to page 220
Certifications on page 221.

⚠ Attention: Observe max. perm. Δp in throttling function!

ARI-STOBU®

Stop valves metallic sealing

PN 16 / 25 with gland seal up to 350°C
nodular iron EN-JS1049
German "TA-Luft" TÜV-Test-No. TA 08 2016 C04
acc. to EN ISO 15848-1 (optional)

TRB 801 No. 45 [1)]

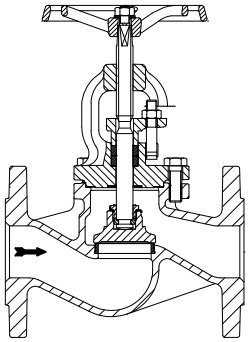


Fig. 22./23.006

"Angle pattern valves on page 83 with bellow seal"

		DN														
		15	20	25	32	40	50	65	80	100	125	150	200	250	300	350
PN 16 Straight thr.	**Fig. 22.006**	184,-	219,-	240,-	304,-	325,-	417,-	517,-	635,-	852,-	1.303,-	1.692,-	3.370,-	6.013,-	10.137,-	11.192,-
	Regulating plug + position indicator + locking device	238,-	268,-	292,-	365,-	395,-	502,-	633,-	771,-	1.012,-	1.504,-	1.941,-	3.695,-	6.431,-	10.670,-	11.794,-
PN 25 straight thr.	**Fig. 23.006**	191,-	223,-	246,-	306,-	330,-	423,-	529,-	651,-	963,-	1.513,-	1.982,-				
	Regulating plug + position indicator + locking device	240,-	270,-	297,-	370,-	404,-	509,-	640,-	782,-	1.124,-	1.711,-	2.231,-				

Additional performance		DN														
		15	20	25	32	40	50	65	80	100	125	150	200	250	300	350
Plug design	PTFE (max.200°C)	50,-	50,-	65,-	72,-	75,-	79,-	84,-	91,-	108,-	112,-	147,-	309,-	448,-	539,-	
	Screw down non-return plug + spring	23,-	24,-	34,-	38,-	43,-	54,-	68,-	88,-	117,-	170,-	238,-	440,-	694,-	1.004,-	
	Balancing plug [2)]											288,-	366,-	461,-	573,-	839,-
	Plug with back seat	140,-	140,-	143,-	143,-	186,-	196,-	259,-	343,-	374,-	530,-	711,-	on request			
Trans-mitter	1 limit switch open or close	496,-	496,-	496,-	496,-	496,-	496,-	530,-	530,-	586,-	614,-	633,-	671,-	671,-	671,-	671,-
	2 limit switches open / close	782,-	782,-	782,-	782,-	811,-	811,-	889,-	889,-	908,-	937,-	937,-	1.007,-	1.007,-	1.007,-	1.007,-
Cpl. cover unit as spare part		112,-	130,-	144,-	178,-	199,-	249,-	312,-	384,-	515,-	774,-	1.006,-	2.007,-	3.579,-	6.035,-	6.667,-
Stem extension		refer to page 220														
EN ISO 15848-1 / German "TA-Luft" packing up to 300°C		115,-	115,-	115,-	115,-	133,-	133,-	167,-	181,-	217,-	274,-	292,-	on request			
EN ISO 15848-1 / German "TA-Luft" packing up to 400°C		237,-	237,-	237,-	237,-	280,-	280,-	379,-	394,-	531,-	557,-	577,-	on request			
Special flange drilling		refer to page 220														

Design acc. to data sheet
Attention: Notice the need of a pressure balancing plug from certain differential pressure - refer to page 220

[1)] Additional certification is necessary - acc. to EN 10204-3.1 (for additional costs refer to page 221, 1.1 and 1.2)

[2)] PN 16 from DN200 onwards

Certifications on page 221.

⚠ Attention: Observe max. perm. Δp in throttling function!

ARI-STOBU®

Stop valves metallic sealing

PN 25 / 40 with gland seal up to 450°C
cast steel 1.0619+N
German "TA-Luft" TÜV-Test-No. TA 08 2016 C04
acc. to EN ISO 15848-1 (optional)
TRB 801 No. 45 [1)]

PN 40 with gland seal up to 450°C
forged steel 1.0460
German "TA-Luft" TÜV-Test-No. TA 08 2016 C04
acc. to EN ISO 15848-1 (optional)
TRB 801 No. 45 [1)]

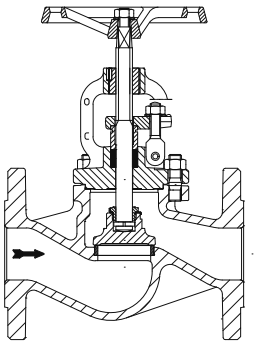


Fig. 34./35.006

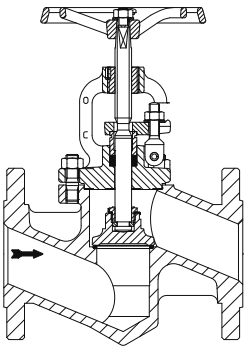


Fig. 45.006

"Angle pattern valves on page 85 with bellow seal"

		DN																
		15	**20**	**25**	**32**	**40**	**50**	**65**	**80**	**100**	**125**	**150**	**200**	**250**	**300**	**350**	**400**	**500**
PN 25 / 40 Straight through	PN 25 **Fig. 34.006**	225,-	242,-	261,-	346,-	423,-	501,-	757,-	993,-	1.269,-	1.797,-	2.413,-	4.486,-	8.058,-	12.291,-	20.029,-	27.230,-	35.286,-
	PN 40 **Fig. 35.006**												5.040,-	9.301,-	16.104,-	23.449,-	31.089,-	38.815,-
	PN 25 → Regulating plug + position indicator + locking device PN 40 →	273,-	292,-	312,-	410,-	495,-	589,-	868,-	1.130,-	1.424,-	1.998,-	2.662,-	4.840,-	8.478,-	12.821,-	20.628,-	27.920,-	36.240,-
													5.363,-	9.720,-	16.634,-	24.050,-	31.780,-	39.770,-
PN 40 Straight thr.	**Fig. 45.006**	237,-	257,-	278,-	361,-	442,-	529,-											
	Regulating. plug + position indicator + locking device	288,-	305,-	326,-	424,-	517,-	618,-											

Additional performance		DN																
		15	**20**	**25**	**32**	**40**	**50**	**65**	**80**	**100**	**125**	**150**	**200**	**250**	**300**	**350**	**400**	**500**
Plug design	PTFE (max.200°C)	50,-	50,-	65,-	72,-	75,-	79,-	84,-	91,-	108,-	112,-	147,-	309,-	448,-	539,-			
	Screw down non-return plug + spring	23,-	24,-	34,-	38,-	43,-	54,-	68,-	88,-	117,-	170,-	238,-	440,-	694,-	1.004,-			
	Balancing plug [2)]										288,-	288,-	366,-	461,-	573,-	839,-	1.102,-	1.734,-
	Stellited plug / seat	309,-				338,-			382,-	544,-	730,-	982,-	1.459,-	1.986,-	2.171,-	3.160,-	4.170,-	5.533,-
	Plug with back seat	140,-	140,-	143,-	143,-	186,-	196,-	259,-	343,-	374,-	530,-	711,-	on request					
Studs + nuts A4 below -10°C		28,-	28,-	34,-	34,-	34,-	34,-	38,-	47,-	76,-	85,-	242,-	341,-					
Trans-mitter	1 limit switch open or close	496,-	496,-	496,-	496,-	496,-	496,-	530,-	530,-	586,-	614,-	633,-	671,-	671,-	671,-	671,-		
	2 limit switches open / close	782,-	782,-	782,-	782,-	811,-	811,-	889,-	889,-	908,-	937,-	937,-	1.007,-	1.007,-	1.007,-	1.007,-		
Cpl. cover unit as spare part		139,-	152,-	188,-	212,-	261,-	307,-	465,-	613,-	771,-	1.090,-	1.465,-	2.476,-	4.893,-	7.463,-	12.156,-	16.529,-	21.423,-
Stem extension		refer to page 220																
EN ISO 15848-1 / German "TA-Luft" packing up to 300°C		115,-	115,-	115,-	115,-	133,-	133,-	167,-	181,-	217,-	274,-	292,-	on request					
EN ISO 15848-1 / German "TA-Luft" packing up to 400°C		237,-	237,-	237,-	237,-	280,-	280,-	379,-	394,-	531,-	557,-	577,-	on request					
Special flange drilling		refer to page 220																

Design acc. to data sheet
Attention: Notice the need of a pressure balancing plug from certain differential pressure - refer to page 220

[1)] Additional certification is necessary - acc. to EN 10204-3.1 (for additional costs refer to page 221, 1.1 and 1.2)

[2)] PN 25 from DN150 onwards

Certifications on page 221.

⚠ **Attention: Observe max. perm. Δp in throttling function!**

ARI-STOBU®

Stop valves metallic sealing

with butt weld ends

PN 25/40 with gland seal up to 450°C
cast steel 1.0619+N
PN 40 with gland seal up to 450°C
forged steel 1.0460

German "TA-Luft" TÜV-Test-No. TA 08 2016 C04
acc. to EN ISO 15848-1 (optional)
TRB 801 No.45 [1)]

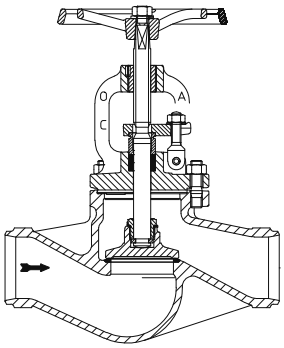


Fig. 35.005

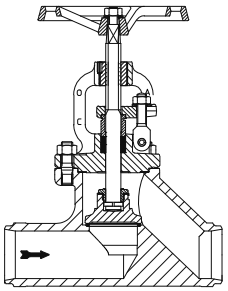


Fig. 45.005

		DN												
		15	20	25	32	40	50	65	80	100	125	150	200	250
PN 40 Straight thr.	**Fig. 35.005**							900,-	1.186,-	1.532,-	2.306,-	3.043,-	6.254,-	8.628,-
	Regulating plug + position indicator + locking device							1.015,-	1.325,-	1.692,-	2.507,-	3.294,-	6.576,-	9.046,-
	Fig. 45.005	217,-	230,-	249,-	328,-	410,-	505,-							
	Regulating plug + position indicator + locking device	265,-	279,-	303,-	389,-	481,-	598,-							

Additional performance		DN												
		15	20	25	32	40	50	65	80	100	125	150	200	250
Plug design	PTFE (max.200°C)	50,-	50,-	65,-	72,-	75,-	79,-	84,-	91,-	108,-	112,-	147,-	309,-	448,-
	Screw down non-return plug + spring	23,-	24,-	34,-	38,-	43,-	54,-	68,-	88,-	117,-	170,-	238,-	440,-	694,-
	Balancing plug [2)]										288,-	288,-	366,-	461,-
	Stellited plug / seat	309,-				338,-			382,-	544,-	730,-	982,-	1.459,-	1.986,-
	Plug with back seat	140,-	140,-	143,-	143,-	186,-	196,-	259,-	343,-	374,-	530,-	711,-	on request	
Studs + nuts A4 below -10°C		28,-	28,-	34,-	34,-	34,-	34,-	38,-	47,-	76,-	85,-	242,-	341,-	
Trans-mitter	1 limit switch open or close	496,-	496,-	496,-	496,-	496,-	496,-	530,-	530,-	586,-	614,-	633,-	671,-	671,-
	2 limit switches open / close	782,-	782,-	782,-	782,-	811,-	811,-	889,-	889,-	908,-	937,-	937,-	1.007,-	1.007,-
Cpl. cover unit as spare part		139,-	152,-	188,-	212,-	261,-	307,-	465,-	613,-	771,-	1.090,-	1.465,-	2.476,-	4.893,-
Stem extension		refer to page 220												
EN ISO 15848-1 / German "TA-Luft" packing up to 300°C		115,-	115,-	115,-	115,-	133,-	133,-	167,-	181,-	217,-	274,-	292,-	on request	
EN ISO 15848-1 / German "TA-Luft" packing up to 400°C		237,-	237,-	237,-	237,-	280,-	280,-	379,-	394,-	531,-	557,-	577,-	on request	
Special flange- or weld end shaping		refer to page 220												

Design acc. to data sheet
Attention: Notice the need of a pressure balance plug from certain differential pressure - refer to page 220
[1)] Additional certification is necessary - acc. to EN 10204-3.1 (for additional costs refer to page 221, 1.1 and 1.2)
[2)] PN 25 from DN150 onwards
Certifications on page 221.

⚠ **Attention: Observe max. perm. Δp in throttling function!**

ARI-STOBU® Stainless steel

Stop valves metallic sealing

PN 16 / 25 / 40 with gland seal up to 400°C
stainless steel 1.4408

German "TA-Luft" TÜV-Test-No. TA 08 2016 C04 acc. to EN ISO 15848-1 (optional)
TRB 801 No. 45 [1)]

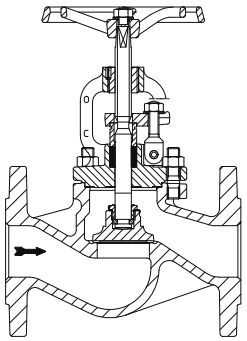


Fig. 55.006

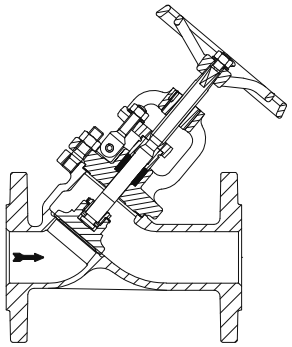


Fig. 55.009

		DN														
		15	20	25	32	40	50	65	80	100	125	150		200	250	
PN 16 / 25 / 40 Straight through	PN 16 **Fig. 52.006**	396,-	509,-	538,-	685,-	823,-	958,-	1.291,-	1.611,-	1.962,-	3.600,-	4.813,-		8.928,-	21.321,-	Application down to -60°C
	PN 25 / 40 **Fig. 55.006**							2.003,-	2.413,-	3.098,-	5.579,-	7.224,-	PN 25	11.542,-	27.569,-	
	PN 16 → Regulating plug + position indicator + locking device PN 25 / 40 →	489,-	615,-	658,-	816,-	997,-	1.143,-	1.522,-	1.924,-	2.335,-	4.110,-	5.485,-		10.065,-	24.679,-	
								2.236,-	2.728,-	3.473,-	6.083,-	7.893,-	PN 25	12.682,-	30.929,-	
PN 16 / 25 / 40 Y-pattern	PN 16 **Fig. 52.009**	382,-	489,-	521,-	660,-	787,-	921,-	1.121,-	1.392,-	1.696,-	3.558,-	4.761,-		8.834,-		Application down to -60°C
	PN 25 / 40 **Fig. 55.009**							1.780,-	2.088,-	2.543,-	5.404,-	7.137,-		11.478,-		
	PN 16 → Regulating plug + position indicator + locking device PN 25 / 40 →	472,-	596,-	641,-	787,-	963,-	1.107,-	1.349,-	1.707,-	2.068,-	4.068,-	5.356,-		9.967,-		
								2.011,-	2.407,-	2.915,-	5.912,-	7.730,-		12.610,-		

Additional performance		DN														
		15	20	25	32	40	50	65	80	100	125	150		200	250	
Plug design	PTFE (max 200°C)	156,-	156,-	156,-	208,-	208,-	208,-	268,-	325,-	395,-	509,-	601,-		735,-	867,-	
	Balancing plug [2)]										422,-	422,-		771,-	1.120,-	
	Plug with back seat	148,-	148,-	158,-	158,-	217,-	237,-	316,-	395,-	481,-	884,-	1.182,-				
Packing PTFE-Silk (max 280°C)		23,-	23,-	23,-	23,-	46,-	46,-	62,-	62,-	62,-	74,-	74,-		111,-	176,-	
Gasket PTFE (max 200°C)		23,-	23,-	25,-	25,-	38,-	38,-	62,-	62,-	62,-	83,-	83,-		111,-	176,-	
Trans-mitter	1 limit switch open or close	521,-	521,-	521,-	521,-	521,-	521,-	556,-	556,-	615,-	644,-	665,-		705,-	705,-	
	2 limit switches open / close	821,-	821,-	821,-	821,-	851,-	851,-	933,-	933,-	953,-	984,-	984,-		1.058,-	1.058,-	
Cpl. cover unit as spare part [3)]		230,-	296,-	308,-	393,-	472,-	553,-	879,-	1.096,-	1.335,-	2.450,-	3.274,-		6.843,-	16.584,-	
Stem extension		refer to page 220														
EN ISO 15848-1 / German "TA-Luft" packing up to 300°C		115,-	115,-	115,-	115,-	133,-	133,-	167,-	181,-	217,-	274,-	292,-		on request		
EN ISO 15848-1 / German "TA-Luft" packing up to 400°C		237,-	237,-	237,-	237,-	280,-	280,-	379,-	394,-	531,-	557,-	577,-		on request		
Special flange drilling		refer to page 220														

Design acc. to data sheet
Attention: Notice the need of a pressure balancing plug from certain differential pressure - refer to page 220

[1)] Additional certification is necessary - acc. to EN 10204-3.1 (for additional costs refer to page 221, 1.1 and 1.2)

[2)] PN 16 from DN200 onwards
PN 25 from DN150 onwards

[3)] For Fig. 55.006 / 55.009

Certifications on page 221.

⚠ **Attention: Observe max. perm. Δp in throttling function!**

ARI-STOBU® PN63/100/160

Stop valves metallic sealing

with flanges

PN 63/100/160 with gland seal
DN10-50:
up to 450°C forged steel 1.0460 [1)]
up to 550°C high temperature steel 1.7335 [2)]
DN65-100:
up to 400°C cast steel 1.0619+N [1)]
up to 530°C high temperature steel 1.7357 [2)]

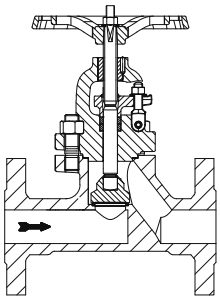


Fig. 46./48.006 DN10-50

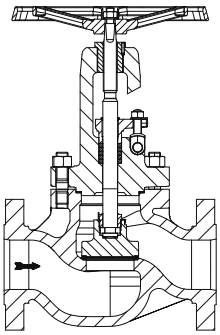


Fig. 38.006 DN65-100

			DN										
			10	15	20	25	32	40		50	65	80	100
1.0460	PN 63	**Fig. 46.006....40**	(PN63 for DN10-40 is covered by PN160)						PN 63	1.107,-			
		Regulating plug + position indicator + locking device	(PN63 for DN10-40 is covered by PN160)						PN 63	1.261,-			
	PN 63 / 100 / 160	**Fig. 48.006....40**	490,-	490,-	506,-	506,-	952,-	952,-	PN 100 / 160	1.177,-			
		Regulating plug + position indicator + locking device	567,-	567,-	587,-	587,-	1.029,-	1.029,-	PN 100 / 160	1.372,-			
1.7335	PN 63	**Fig. 86.006....81**	(PN63 for DN10-40 is covered by PN160)						PN 63	1.903,-			
		Regulating plug + position indicator + locking device	(PN63 for DN10-40 is covered by PN160)						PN 63	2.097,-			
	PN 63 / 100 / 160	**Fig. 88.006....81**	684,-	684,-	684,-	684,-	1.462,-	1.462,-	PN 100 / 160	1.903,-			
		Regulating plug + position indicator + locking device	764,-	764,-	764,-	764,-	1.616,-	1.616,-	PN 100 / 160	2.097,-			
1.0619+N	PN 63	**Fig. 36.006....30** [3)]									2.809,-	3.203,-	3.902,-
	PN 100	**Fig. 37.006....30** [3)]									3.037,-	3.627,-	4.506,-
	PN 160	**Fig. 38.006....30** [3)]									3.037,-	3.627,-	4.506,-
1.7357	PN 63	**Fig. 86.006....89** [3)]									3.417,-	3.592,-	4.718,-
	PN 100	**Fig. 87.006....89** [3)]									3.688,-	4.087,-	5.754,-
	PN 160	**Fig. 88.006....89** [3)]									3.688,-	4.087,-	5.754,-

Additional performance		DN									
		10	15	20	25	32	40	50	65	80	100
Plug design	Loose plug + spring	69,-	69,-	95,-	95,-	111,-	111,-	164,-	on request		
	Balancing plug [4)]								358,-	394,-	454,-
Trans-mitter	1 limit switch open or close	on request									
	2 limit switches open / close	on request									
Cpl. cover unit as spare part	1.0460	283,-	283,-	304,-	304,-	579,-	579,-	735,-			
	1.7335	330,-	330,-	393,-	393,-	733,-	733,-	1.050,-			
	1.0619+N								804,-	1.058,-	1.308,-
	1.7357								1.271,-	1.419,-	3.578,-
Stem extension		refer to page 220									
Non-rising handwheel		352,-	352,-	402,-	402,-	422,-	422,-	477,-	on request		
Conversion set (non-rising handwheel → connection F10 ISO 5210 group B1)		80,-	80,-	95,-	95,-	109,-	109,-	126,-	on request [5)]		
Connection F10 acc. to ISO 5210 group (lock bush) B1 (without actuating element)		428,-	428,-	491,-	491,-	520,-	520,-	598,-	on request [5)]		
Handwheel blocking		on request									
Back seat		standard									
Special flange drilling		refer to page 220									
Pneumatic or electric actuators		refer to page 114 / 115									

Design acc. to data sheet
[1)] Inspection: Final certificate and Material certificate acc.to DIN EN 10204-3.1 is standard.
[2)] Inspection: Final certificate acc.to DIN EN 10204-3.1 and Material certificate acc.to DIN EN 10204-3.2 is standard.
[3)] Regulating plug + position indicator + locking device on request
[4)] Differential pressure acc. to data sheet
[5)] Connection F14 acc. to ISO 5210 group B1

Further certifications on page 221.

I45 ⚠ **Attention: Observe max. perm. Δp in throttling function!**

ARI-STOBU® PN63/100/160

Stop valves metallic sealing

with butt weld ends

PN 63/100/160 with gland seal

DN10-50:

up to 450°C forged steel 1.0460 [1)]

up to 530°C high temperature steel 1.5415 [2)]

up to 550°C high temperature steel 1.7335 [2)]

DN65-100:

up to 400°C cast steel 1.0619+N [1)]

up to 530°C high temperature steel 1.7357 [2)]

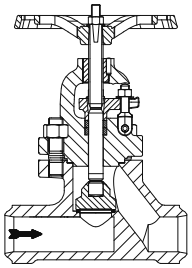


Fig. 48.005
DN10-50

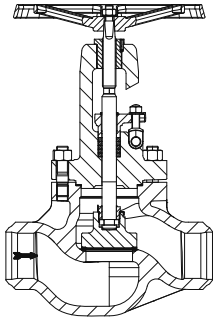


Fig. 38.005
DN65-100

			DN									
			10	15	20	25	32	40	50	65	80	100
1.0460	PN63 / 100 / 160	**Fig. 46./47./48.005....40**	402,-	402,-	433,-	433,-	826,-	826,-	1.050,-			
		Regulating plug + position indicator + locking device	481,-	481,-	512,-	512,-	981,-	981,-	1.246,-			
1.5415	PN63 / 100 / 160	**Fig. 86./87./88.005....80**	472,-	472,-	562,-	562,-	1.046,-	1.046,-	1.502,-			
		Regulating plug + position indicator + locking device	551,-	551,-	641,-	641,-	1.200,-	1.200,-	1.696,-			
1.7335	PN63 / 100 / 160	**Fig. 86./87./88.005....81**	640,-	640,-	671,-	671,-	1.099,-	1.099,-	1.528,-			
		Regulating plug + position indicator + locking device	721,-	721,-	749,-	749,-	1.253,-	1.253,-	1.727,-			
1.0619+N	PN 63	**Fig. 36.005....30** [3)]								2.387,-	2.724,-	3.316,-
	PN 100	**Fig. 37.005....30** [3)]								2.534,-	3.137,-	4.041,-
	PN 160	**Fig. 38.005....30** [3)]								2.534,-	3.137,-	4.041,-
1.7357	PN 63	**Fig. 86.005....89** [3)]								3.076,-	3.232,-	4.247,-
	PN 100	**Fig. 87.005....89** [3)]								3.319,-	3.678,-	4.891,-
	PN 160	**Fig. 88.005....89** [3)]								3.319,-	3.678,-	4.891,-

Additional performance		DN									
		10	15	20	25	32	40	50	65	80	100
Plug design	Loose plug + spring	69,-	69,-	95,-	95,-	111,-	111,-	164,-	on request		
	Balancing plug [4)]								358,-	394,-	454,-
Transmitter	1 limit switch open or close	on request									
	2 limit switches open / close	on request									
Cpl. cover unit as spare part	1.0460	283,-	283,-	304,-	304,-	579,-	579,-	735,-			
	1.5415	330,-	330,-	393,-	393,-	733,-	733,-	1.050,-			
	1.7335	448,-	448,-	471,-	471,-	771,-	771,-	1.071,-			
	1.0619+N								804,-	1.058,-	1.308,-
	1.7357								1.271,-	1.419,-	3.578,-
Stem extension		refer to page 220									
Non-rising handwheel		352,-	352,-	402,-	402,-	422,-	422,-	477,-	on request		
Conversion set (non-rising handwheel → connection F10 ISO 5210 group B1)		80,-	80,-	95,-	95,-	109,-	109,-	126,-	on request [5)]		
Connection F10 acc. to ISO 5210 group (lock bush) B1 (without actuating element)		428,-	428,-	491,-	491,-	520,-	520,-	598,-	on request [5)]		
Handwheel blocking		on request									
Back seat		standard									
Special weld end shaping		refer to page 220									
Pneumatic or electric actuators		refer to page 116 / 117									

Design acc. to data sheet

[1)] Inspection: Final certificate and Material certificate acc.to DIN EN 10204-3.1 is standard.

[2)] Inspection: Final certificate acc.to DIN EN 10204-3.1 and Material certificate acc.to DIN EN 10204-3.2 is standard.

[3)] Regulating plug + position indicator + locking device on request

[4)] Differential pressure acc. to data sheet

[5)] Connection F14 acc. to ISO 5210 group B1

Further certifications on page 221.

⚠ **Attention: Observe max. perm. Δp in throttling function!**

ARI-STOBU® PN63/100/160

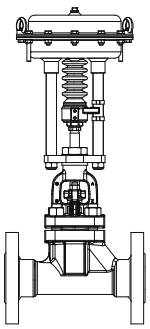
Stop valves metallic sealing

with flanges

with pneumatic actuators

PN 63/100/160 with gland seal

up to 450°C of forged steel 1.0460 [1)]
up to 550°C of high temperature 1.7335 [2)]



ARI-DP

Nominal diameter				**DN**	**10**	**15**	**20**	**25**	**32**	**40**	**50**
Kvs - values					**2,7**	**4,2**	**6,4**	**8,6**	**21,8**	**24,2**	**33**
Closing pressure **DP32**		Spring closes	Air supply press. min. 4,5 bar	bar	40	40	40	40			
		Spring opens	Air supply press. min. 4,5 bar	bar	40	40	40	40			
			Air supply press. min. 6 bar	bar	60	60	60	60			
Fig. No.	Fig. 46.006....40	PN 63	1.0460		on request						
	Fig. 48.006....40	PN 63 / 100 / 160	1.0460								
	Fig. 86.006....81	PN 63	1.7335								
	Fig. 88.006....81	PN 63 / 100 / 160	1.7335								
Closing pressure **DP33**		Spring closes	Air supply press. min. 4,5 bar	bar	60	60	60	60	25	25	20
		Spring opens	Air supply press. min. 4,5 bar	bar	60	60	60	60	25	25	25
			Air supply press. min. 6 bar	bar	80	80	80	80	40	40	40
Fig. No.	Fig. 46.006....40	PN 63	1.0460		on request						
	Fig. 48.006....40	PN 63 / 100 / 160	1.0460								
	Fig. 86.006....81	PN 63	1.7335								
	Fig. 88.006....81	PN 63 / 100 / 160	1.7335								
Closing pressure **DP34**		Spring closes	Air supply press. min. 4,5 bar	bar					60	60	50
		Spring opens	Air supply press. min. 4,5 bar	bar					65	65	60
			Air supply press. min. 6 bar	bar					80	80	70
Fig. No.	Fig. 46.006....40	PN 63	1.0460						on request		
	Fig. 48.006....40	PN 63 / 100 / 160	1.0460								
	Fig. 86.006....81	PN 63	1.7335								
	Fig. 88.006....81	PN 63 / 100 / 160	1.7335								

Add. performance for special design and accessories of actuators - refer to pages 54 to 58
Design acc. to data sheet
Special flange drilling acc. to agreement

Larger nominal diameters on request

[1)] Inspection: Final certificate and Material certificate acc.to DIN EN 10204-3.1 is standard.

Further certifications on page 221.

[2)] Inspection: Final certificate acc.to DIN EN 10204-3.1 and Material certificate acc.to DIN EN 10204-3.2 is standard.

⚠ Attention: Observe max. perm. Δp in throttling function!

ARI-STOBU® PN63/100/160

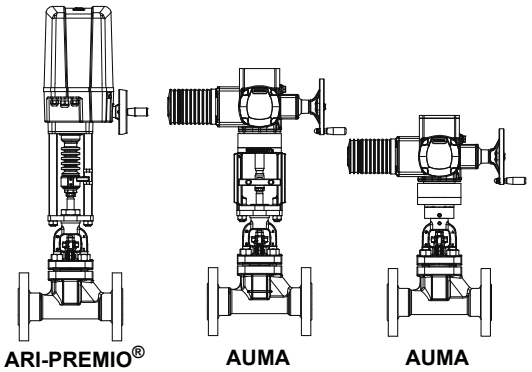
Stop valves metallic sealing

with flanges

with electric actuators

PN 63/100/160 with gland seal

up to 450°C of forged steel 1.0460 [1)]
up to 550°C of high temperature 1.7335 [2)]



ARI-PREMIO® | AUMA group A | AUMA group B1

Nominal diameter				DN	10	15	20	25	32	40	50
Kvs - values					2,7	4,2	6,4	8,6	21,8	24,2	33
PREMIO® 5 kN (100-240V)		Closing pressure		bar	30	30	30	30			
		Operating time		s	30	30	30	30			
Fig. No.	Fig. 46.006....40	PN 63	1.0460		on request						
	Fig. 48.006....40	PN 63 / 100 / 160	1.0460								
	Fig. 86.006....81	PN 63	1.7335								
	Fig. 88.006....81	PN 63 / 100 / 160	1.7335								
PREMIO® 12 kN (100-240V)		Closing pressure		bar	60	60	60	60	50	50	40
		Operating time		s	30	30	30	30	45	45	55
Fig. No.	Fig. 46.006....40	PN 63	1.0460		on request						
	Fig. 48.006....40	PN 63 / 100 / 160	1.0460								
	Fig. 86.006....81	PN 63	1.7335								
	Fig. 88.006....81	PN 63 / 100 / 160	1.7335								
PREMIO® 15 kN (100-240V)		Closing pressure		bar	70	70	70	70	60	60	50
		Operating time		s	30	30	30	30	45	45	55
Fig. No.	Fig. 46.006....40	PN 63	1.0460		on request						
	Fig. 48.006....40	PN 63 / 100 / 160	1.0460								
	Fig. 86.006....81	PN 63	1.7335								
	Fig. 88.006....81	PN 63 / 100 / 160	1.7335								
Connection acc. to ISO 5210 group A											
AUMA SA07.6		Closing pressure		bar	160	160	160	160	80	80	80
		Operating time		s	8	8	8	8	13	13	15
Fig. No.	Fig. 46.006....40	PN 63	1.0460		on request						
	Fig. 48.006....40	PN 63 / 100 / 160	1.0460								
	Fig. 86.006....81	PN 63	1.7335								
	Fig. 88.006....81	PN 63 / 100 / 160	1.7335								
AUMA SA10.2		Closing pressure		bar					160	160	160
		Operating time		s					13	13	15
Fig. No.	Fig. 46.006....40	PN 63	1.0460						on request		
	Fig. 48.006....40	PN 63 / 100 / 160	1.0460								
	Fig. 86.006....81	PN 63	1.7335								
	Fig. 88.006....81	PN 63 / 100 / 160	1.7335								
Connection F10 acc. to ISO 5210 group (lock bush) B1											
AUMA SA07.6		Closing pressure		bar	160	160	160	160	80	80	80
		Operating time		s	21	21	21	21	32	32	39
Fig. No.	Fig. 46.006....40	PN 63	1.0460		on request						
	Fig. 48.006....40	PN 63 / 100 / 160	1.0460								
	Fig. 86.006....81	PN 63	1.7335								
	Fig. 88.006....81	PN 63 / 100 / 160	1.7335								
AUMA SA10.2		Closing pressure		bar					160	160	160
		Operating time		s					32	32	39
Fig. No.	Fig. 46.006....40	PN 63	1.0460						on request		
	Fig. 48.006....40	PN 63 / 100 / 160	1.0460								
	Fig. 86.006....81	PN 63	1.7335								
	Fig. 88.006....81	PN 63 / 100 / 160	1.7335								

Supply voltages, add. performance for special design and accessories of actuators - refer to pages 61 and 64
Design acc. to data sheet
Special flange drillings acc. to agreement

Larger nominal diameters on request

[1)] Inspection: Final certificate and Material certificate acc.to DIN EN 10204-3.1 is standard.

Further certifications on page 221.

[2)] Inspection: Final certificate acc.to DIN EN 10204-3.1 and Material certificate acc.to DIN EN 10204-3.2 is standard.

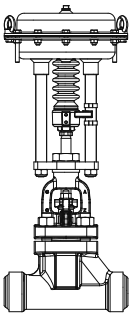
⚠ Attention: Observe max. perm. Δp in throttling function!

ARI-STOBU® PN63/100/160

Stop valves metallic sealing

with butt weld ends

with pneumatic actuators



ARI-DP

PN 63/100/160 with gland seal

up to 450°C of forged steel 1.0460 [1)]
up to 530°C of high temperature 1.5415 [2)]
up to 550°C of high temperature 1.7335 [2)]

Nominal diameter				**DN**	**10**	**15**	**20**	**25**	**32**	**40**	**50**
Kvs - values					**2,7**	**4,2**	**6,4**	**8,6**	**21,8**	**24,2**	**33**
Closing pressure **DP32**		Spring closes	Air supply press. min. 4,5 bar	bar	40	40	40	40			
		Spring opens	Air supply press. min. 4,5 bar	bar	40	40	40	40			
			Air supply press. min. 6 bar	bar	60	60	60	60			
Fig. No.	Fig. 48.005....40	PN 160 [3)]	1.0460		on request						
	Fig. 88.005....80		1.5415								
	Fig. 88.005....81		1.7335								
Closing pressure **DP33**		Spring closes	Air supply press. min. 4,5 bar	bar	60	60	60	60	25	25	20
		Spring opens	Air supply press. min. 4,5 bar	bar	60	60	60	60	25	25	25
			Air supply press. min. 6 bar	bar	80	80	80	80	40	40	40
Fig. No.	Fig. 48.005....40	PN 160 [3)]	1.0460		on request						
	Fig. 88.005....80		1.5415								
	Fig. 88.005....80		1.7335								
Closing pressure **DP34**		Spring closes	Air supply press. min. 4,5 bar	bar					60	60	50
		Spring opens	Air supply press. min. 4,5 bar	bar					65	65	60
			Air supply press. min. 6 bar	bar					80	80	70
Fig. No.	Fig. 48.005....40	PN 160 [3)]	1.0460						on request		
	Fig. 88.005....80		1.5415								
	Fig. 88.005....81		1.7335								

Add. performance for special design and accessories of actuators - refer to page refer to page 54 to 58
Design acc. to data sheet
Special flange drilling acc. to agreement

Larger nominal diameters on request

[1)] Inspection: Final certificate and Material certificate acc.to DIN EN 10204-3.1 is standard.

Further certifications on page 221.

[2)] Inspection: Final certificate acc.to DIN EN 10204-3.1 and Material certificate acc.to DIN EN 10204-3.2 is standard.

[3)] Valves with butt weld ends are manufactured acc. to PN160 as standard. Butt weld end dimensions for PN63/100 optionally acc. to agreement.

⚠ Attention: Observe max. perm. Δp in throttling function!

ARI-STOBU® PN63/100/160

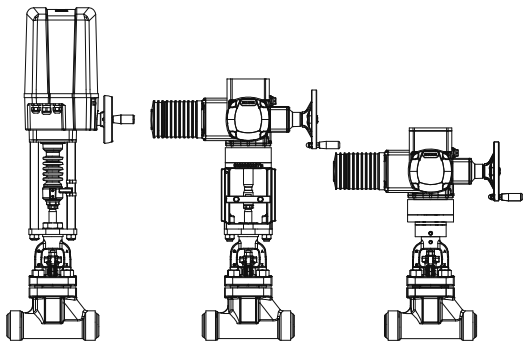
Stop valves metallic sealing

with butt weld ends

with electric actuators

PN 63/100/160 with gland seal

up to 450°C of forged steel 1.0460 [1)]
up to 530°C of high temperature 1.5415 [2)]
up to 550°C of high temperature 1.7335 [2)]



ARI-PREMIO® **AUMA group A** **AUMA group B1**

Nominal diameter				**DN**	**10**	**15**	**20**	**25**	**32**	**40**	**50**
Kvs - values					**2,7**	**4,2**	**6,4**	**8,6**	**21,8**	**24,2**	**33**
PREMIO® 5 kN (100-240V)		Closing pressure		bar	30	30	30	30			
		Operating time		s	30	30	30	30			
Fig. No.	Fig. 48.005....40	PN 160 [3)]	1.0460		on request						
	Fig. 88.005....80		1.5415								
	Fig. 88.005....81		1.7335								
PREMIO® 12 kN (100-240V)		Closing pressure		bar	60	60	60	60	50	50	40
		Operating time		s	30	30	30	30	45	45	55
Fig. No.	Fig. 48.005....40	PN 160 [3)]	1.0460		on request						
	Fig. 88.005....80		1.5415								
	Fig. 88.005....81		1.7335								
PREMIO® 15 kN (100-240V)		Closing pressure		bar	70	70	70	70	60	60	50
		Operating time		s	30	30	30	30	45	45	55
Fig. No.	Fig. 48.005....40	PN 160 [3)]	1.0460		on request						
	Fig. 88.005....80		1.5415								
	Fig. 88.005....81		1.7335								
Connection acc. to ISO 5210 group A											
AUMA SA07.6		Closing pressure		bar	160	160	160	160	80	80	80
		Operating time		s	8	8	8	8	13	13	15
Fig. Nr.	Fig. 48.005....40	PN 160 [3)]	1.0460		on request						
	Fig. 88.005....80		1.5415								
	Fig. 88.005....81		1.7335								
AUMA SA10.2		Closing pressure		bar					160	160	160
		Operating time		s					13	13	15
Fig. Nr.	Fig. 48.005....40	PN 160 [3)]	1.0460		on request						
	Fig. 88.005....80		1.5415								
	Fig. 88.005....81		1.7335								
Connection F10 acc. to ISO 5210 group (lock bush) B1											
AUMA SA07.6		Closing pressure		bar	160	160	160	160	80	80	80
		Operating time		s	21	21	21	21	32	32	39
Fig. Nr.	Fig. 48.005....40	PN 160 [3)]	1.0460		on request						
	Fig. 88.005....80		1.5415								
	Fig. 88.005....81		1.7335								
AUMA SA10.2		Closing pressure		bar					160	160	160
		Operating time		s					32	32	39
Fig. Nr.	Fig. 48.005....40	PN 160 [3)]	1.0460		on request						
	Fig. 88.005....80		1.5415								
	Fig. 88.005....81		1.7335								

Supply voltages, add. performance for special design and accessories of actuators - refer to pages 61 and 64 **Larger nominal diameters on request**
Design acc. to data sheet
Special weld end shapings acc. to agreement

[1)] Inspection: Final certificate and Material certificate acc.to DIN EN 10204-3.1 is standard. Further certifications on page 221.

[2)] Inspection: Final certificate acc.to DIN EN 10204-3.1 and Material certificate acc.to DIN EN 10204-3.2 is standard.

[3)] Valves with butt weld ends are manufactured acc. to PN160 as standard. Butt weld end dimensions for PN63/100 optionally acc. to agreement.

⚠ Attention: Observe max. perm. Δp in throttling function!

ARI-STOBU® 017

Stop valves in 3-way-form

PN 16 with gland seal up to 300°C
cast iron EN-JL1040
PN 25/40 with gland seal up to 450°C
cast steel 1.0619+N

TRB 801 No.45 [1] (without 12.017)

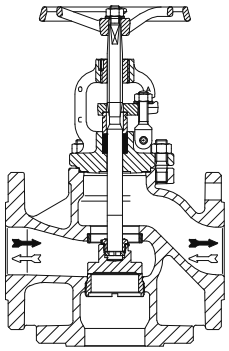


Fig. 12./34./35.017

			DN											
			15	20	25	32	40	50	65	80	100	125	150	200	250
3-way form	PN 16	EN-JL1040 **Fig. 12.017**	309,-	319,-	326,-	395,-	458,-	548,-	619,-	839,-	1.056,-	1.707,-	2.174,-	3.963,-	6.505,-
	PN 25	1.0619+N **Fig. 34.017**	599,-	629,-	671,-	817,-	1.070,-	1.168,-	1.775,-	2.146,-	2.861,-	4.042,-	5.374,-	8.187,-	11.435,-
	PN 40	1.0619+N **Fig. 35.017**												9.832,-	13.404,-

Additional performance	DN												
	15	**20**	**25**	**32**	**40**	**50**	**65**	**80**	**100**	**125**	**150**	**200**	**250**
Studs + nuts A4 below -10°C	28,-	28,-	34,-	34,-	34,-	34,-	38,-	47,-	76,-	85,-	242,-	341,-	
Special flange shaping	refer to page 220												

Design acc. to data sheet

[1] Additional certification is necessary - acc. to EN 10204-3.1 (for additional costs refer to page 221, 1.1 and 1.2)

Certifications on page 221.

⚠ Not suitable as change over valve for safety valves!

Notes:

STOBU®
017

ARI-ZESA®

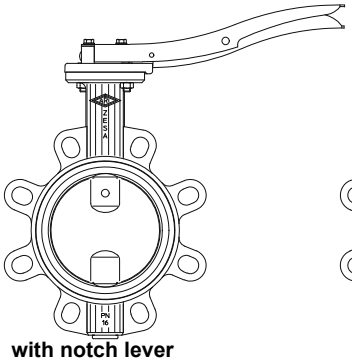
Wafer type butterfly valves; soft sealed - maintenance-free - Disc in stainless steel 1.4581

PN 6 / 10 / 16 - DN20 - 500 of EN-JS1030

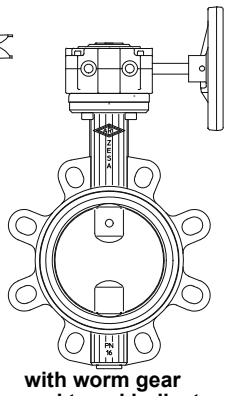
DN20 only suitable for flanges PN16

EPDM - seat max: 130 °C
NBR - seat max: 80 °C
FPM (Viton) - seat max: 150 °C

THEA = THErmo-Appliance (Thermometer -20°C up to +40°C or 0°C up to 120°C, quality class [1])



with notch lever and travel indicator



with worm gear and travel indicator

- Fig. 22.012 -

Registration for drinking water

Standard: **EPDM seat and 1.4581 disc with DVGW-registration** DW-6201BR0244, acc. to DIN EN 1074-1/-2 incl. disinfection inspection, DVGW W 363 (P) and DVGW W270 for drinking water

Fig. 22.012 [1] PN 6 / 10 / 16		DN									
		20/25	32	40	50	65	80	100	125	150	200
G21	with **notch lever** disc of stainless steel 1.4581	131,-	131,-	168,-	184,-	201,-	246,-	281,-	350,-	512,-	847,-

Additional performance		DN									
		20/25	32	40	50	65	80	100	125	150	200
Stem and pivot mat.-no. 1.4571 [2]		34,-	34,-	40,-	40,-	40,-	40,-	65,-	105,-	232,-	338,-
Additional price for seat of FPM (not for hot water)		121,-	121,-	155,-	201,-	285,-	353,-	394,-	562,-	643,-	1.061,-
Lower price without lever or gear		11,-	11,-	11,-	11,-	11,-	11,-	11,-	23,-	23,-	23,-
1 limit switch (open or close)		309,-	309,-	309,-	309,-	309,-	309,-	309,-	309,-	309,-	309,-
2 limit switches (open / close)		527,-	527,-	527,-	527,-	527,-	527,-	527,-	527,-	527,-	527,-
G21	Additional price for variable adjustment and locklever	39,-	39,-	39,-	39,-	39,-	39,-	39,-	39,-	39,-	39,-
G21	Additional price for THEA (THErmo-Appliance) (not for stem of 1.4571)	size 1			size 2			size 3	size 4		
		56,-			56,-			56,-	56,-		
G21	Additional price for **worm gear**	242-10S							242-10M		
		223,-	223,-	223,-	223,-	223,-	223,-	223,-	223,-	223,-	223,-
G21	Lower price for disc of EN-JS1030 with zinc-lamella coating	--	--	--	--	--	--	28,-	38,-	80,-	169,-
Additional price for seawater seat of NBR / disc of CuAl10Ni [3]		--	--	30,-	30,-	30,-	77,-	103,-	122,-	183,-	244,-
Additional price for stem extension up to max. 2000mm		973,-	973,-	973,-	973,-	973,-	973,-	973,-	1.446,-	1.446,-	1.446,-

Fig. 22.012 [1] PN 10 / 16		DN						
		250	300	350	400	450	500	600
G21	with **worm gear** disc of stainless steel 1.4581	242-20M	242-30S		242-30L	242-40M		see ZIVA-Z [4]
		1.449,-	2.048,-	3.645,-	4.254,-	5.598,-	6.703,-	

Additional performance		DN						
		250	300	350	400	450	500	600
Stem and pivot mat.-no. 1.4571		434,-	634,-	--	--	--	--	see ZIVA-Z [4]
Additional price for seat of FPM (not for hot water)		1.920,-	2.159,-	2.321,-	4.859,-	6.311,-	6.652,-	
Lower price without lever or gear		260,-	326,-	326,-	326,-	326,-	326,-	
1 limit switch (open or close)		309,-	309,-	309,-	309,-	309,-	309,-	
2 limit switches (open / close)		527,-	527,-	527,-	527,-	527,-	527,-	
G21	Lower price for disc of EN-JS1030 with zinc-lamella coating	237,-	487,-	762,-	1.021,-	1.146,-	1.206,-	
Additional price for seawater seat of NBR / disc of CuAl10Ni [3]		374,-	565,-	801,-	1.038,-	1.661,-	2.479,-	
Additional price for stem extension up to max. 2000mm		1.794,-	1.794,-	1.794,-	2.256,-	2.256,-	2.256,-	

Design with electric actuators refer to page 122

[1] Includes 20.012 and 21.012 (only 21.012 from DN350 onwards)

[2] Cannot be upgraded to the thermometer

[3] Max. 30°C according to resistance list

[4] Refer to page 124

Design acc. to data sheet

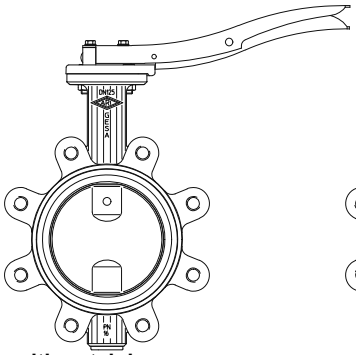
ARI-GESA®

Lug type butterfly valves; soft sealed - maintenance-free - Disc in stainless steel 1.4581

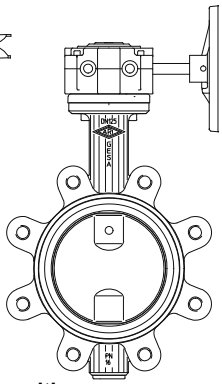
PN 10 / 16 - DN25 - 500 of EN-JS1030

EPDM - seat max: 130 °C
NBR - seat max: 80 °C
FPM (Viton) - seat max: 150 °C

THEA = THErmo-Appliance (Thermometer -20°C up to +40°C or 0°C up to 120°C, quality class [1])



with notch lever and travel indicator



with worm gear and travel indicator

- Fig. 22.013 -

Registration for drinking water

Standard: **EPDM seat and 1.4581 disc with DVGW-registration** DW-6201BR0244, acc. to DIN EN 1074-1/-2 incl. disinfection inspection, DVGW W 363 (P) and DVGW W270 for drinking water

Fig. 21.013 PN 10 / Fig. 22.013 PN 16		DN									
		25	32	40	50	65	80	100	125	150	200
G22	with **notch lever** disc of stainless steel 1.4581	216,-	232,-	247,-	262,-	298,-	311,-	407,-	510,-	569,-	976,-

Additional performance		DN									
		25	32	40	50	65	80	100	125	150	200
Stem and pivot mat.-no. 1.4571 [1]		34,-	34,-	40,-	40,-	40,-	40,-	65,-	105,-	232,-	338,-
Additional price for seat of FPM (not for hot water)		121,-	121,-	155,-	201,-	285,-	353,-	394,-	562,-	643,-	1.061,-
Lower price without lever or gear		11,-	11,-	11,-	11,-	11,-	11,-	11,-	23,-	23,-	23,-
1 limit switch (open or close)		309,-	309,-	309,-	309,-	309,-	309,-	309,-	309,-	309,-	309,-
2 limit switches (open / close)		527,-	527,-	527,-	527,-	527,-	527,-	527,-	527,-	527,-	527,-
G22	Additional price for variable adjustment and locklever	39,-	39,-	39,-	39,-	39,-	39,-	39,-	39,-	39,-	39,-
G22	Additional price for THEA (THErmo-Appliance) (not for stem of 1.4571)	size 1			size 2			size 3	size 4		
G22		56,-			56,-			56,-	56,-		
G22	Additional price for **worm gear**	242-10S							242-10M		
G22		223,-	223,-	223,-	223,-	223,-	223,-	223,-	223,-	223,-	223,-
G22	Lower price for disc of EN-JS1030 with zinc-lamella coating	--	--	--	--	--	--	28,-	38,-	80,-	169,-
Additional price for seawater seat of NBR / disc of CuAl10Ni [2]		--	--	30,-	30,-	30,-	77,-	103,-	122,-	183,-	244,-
Additional price for stem extension up to max. 2000mm		973,-	973,-	973,-	973,-	973,-	973,-	973,-	1.446,-	1.446,-	1.446,-

Fig. 21.013 PN 10 / Fig. 22.013 PN 16		DN						
		250	300	350	400	450	500	600
G22	with **worm gear** disc of stainless steel 1.4581	242-20M	242-30S		242-30L	242-40M		see ZIVA-G [3]
		1.655,-	2.312,-	4.076,-	5.178,-	6.578,-	7.567,-	

Additional performance		DN						
		250	300	350	400	450	500	600
Stem and pivot mat.-no. 1.4571		434,-	634,-	--	--	--	--	see ZIVA-G [3]
Additional price for seat of FPM (not for hot water)		1.920,-	2.159,-	2.321,-	4.859,-	6.311,-	6.652,-	
Lower price without lever or gear		260,-	326,-	326,-	326,-	326,-	326,-	
1 limit switch (open or close)		309,-	309,-	309,-	309,-	309,-	309,-	
2 limit switches (open / close)		527,-	527,-	527,-	527,-	527,-	527,-	
G22	Lower price for disc of EN-JS1030 with zinc-lamella coating	237,-	487,-	762,-	1.021,-	1.146,-	1.206,-	
Additional price for seawater seat of NBR / disc of CuAl10Ni [2]		374,-	565,-	801,-	1.038,-	1.661,-	2.479,-	
Additional price for stem extension up to max. 2000mm		1.794,-	1.794,-	1.794,-	2.256,-	2.256,-	2.256,-	

Design acc. to data sheet

Design with electric actuators refer to page 123

[1] Cannot be upgraded to the thermometer

[2] Max. 30°C according to resistance list

[3] Refer to page 125

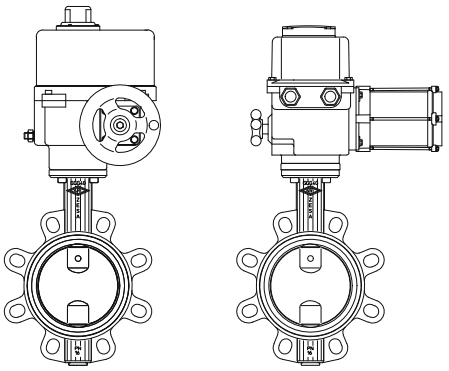
ZESA® / GESA®

ARI-ZESA®-E

Wafer type butterfly valves;
soft sealed - maintenance-free -
with electric rotary actuator
Disc in stainless steel 1.4581

PN 6 / 10 / 16 - DN20 - 500 of EN-JS1030
DN20 only suitable for flanges PN16

EPDM - seat max: 130 °C
NBR - seat max: 80 °C
FPM (Viton) - seat max: 150 °C



ARI-OM
230V 50Hz 1~

Deufra
230V 50Hz 1~

- Fig. 22.012 -

Registration for drinking water

Standard: **EPDM seat and 1.4581 disc with DVGW-registration** DW-6201BR0244, acc. to DIN EN 1074-1/-2 incl. disinfection inspection, DVGW W 363 (P) and DVGW W270 for drinking water

Fig. 22.012 [1] PN 6 / 10 / 16			DN											
			20/25	32	40	50	65	80	100	125	150	200	250	300 [2]
G23	Actuator ARI-OM	Operat.time s	13	13	13	13	13	13	24	17	26	26	18	18
		Type	OM-1						OM-A	OM-2	OM-3		OM-4	
		PN 6 / 10 / 16	521,-	521,-	559,-	574,-	592,-	637,-	931,-	1.139,-	1.425,-	1.759,-	2.523,-	3.057,-

Fig. 22.012 [1] PN 6 / 10 / 16			DN											
			20/25	32	40	50	65	80	100	125	150	200	250	300
G23	Actuator Deufra	Operat.time s	6	6	6	6	6	6	6	6	6	15	10	30
		Type	SQ4						SQ6	SQ10		SQ15	SQ25	SQ60
		PN 6 / 10 / 16	906,-	906,-	944,-	959,-	977,-	1.022,-	1.231,-	1.398,-	1.561,-	2.329,-	2.828,-	3.658,-

Fig. 22.012 [1] PN 10 / 16			DN				
			350	400	450	500	600
G23	Actuator Deufra	Operat.time s	30	30	30	30	70
		Type	SQ60	SQ120			SQ250
		PN 10 / 16	5.255,-	7.748,-	8.339,-	9.445,-	see ZIVA-ZE [4]

Additional performance	DN											
	20/25	32	40	50	65	80	100	125	150	200	250	300
Stem and pivot 1.4571	34,-	34,-	40,-	40,-	40,-	40,-	65,-	105,-	232,-	338,-	434,-	634,-
Additional price for seat of FPM (not for hot water)	121,-	121,-	155,-	201,-	285,-	353,-	394,-	562,-	643,-	1.061,-	1.920,-	2.159,-
Lower price for disc of EN-JS1030 with zinc-lamella coating	--	--	--	--	--	--	28,-	38,-	80,-	169,-	237,-	487,-
Additional price for seawater seat of NBR / disc of CuAl10Ni [3]	--	--	30,-	30,-	30,-	77,-	103,-	122,-	183,-	244,-	374,-	565,-

Additional performance	DN				
	350	400	450	500	600
Additional price for seat of FPM (not for hot water)	2.321,-	4.859,-	6.311,-	6.652,-	see ZIVA-ZE [4]
Lower price for disc of EN-JS1030 with zinc-lamella coating	762,-	1.021,-	1.146,-	1.206,-	
Additional price for seawater seat of NBR / disc of CuAl10Ni [3]	801,-	1.038,-	1.661,-	2.479,-	

Design acc. to data sheet

[1] Includes 20.012 and 21.012 (only 21.012 from DN350 onwards)

[2] Max. permissible differential pressure 6bar

[3] Max. 30°C according to resistance list

[4] Refer to page 126

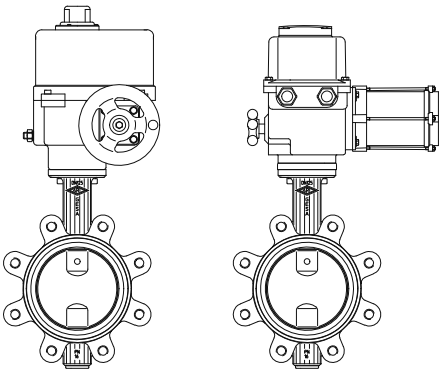
With pneumatic actuators on request!

ARI-GESA®-E

Lug type butterfly valves;
soft sealed - maintenance-free -
with electric rotary actuator
Disc in stainless steel 1.4581

PN 10 / 16 - DN25 - 500 of EN-JS1030

EPDM - seat max: 130 °C
NBR - seat max: 80 °C
FPM (Viton) - seat max: 150 °C



ARI-OM
230V 50Hz 1~

Deufra
230V 50Hz 1~

- Fig. 22.013 -

Registration for drinking water

Standard: **EPDM seat and 1.4581 disc with DVGW-registration** DW-6201BR0244, acc. to DIN EN 1074-1/-2 incl. disinfection inspection, DVGW W 363 (P) and DVGW W270 for drinking water

Fig. 21.013 PN 10 Fig. 22.013 PN 16			DN											
			25	32	40	50	65	80	100	125	150	200	250	300 [1]
G23	Actuator ARI-OM	Operat.time s	13	13	13	13	13	13	24	17	26	26	18	18
		Type	OM-1						OM-A	OM-2	OM-3		OM-4	
		PN10 /16	607,-	622,-	638,-	653,-	689,-	702,-	1.058,-	1.300,-	1.482,-	1.889,-	2.729,-	3.386,-

Fig. 21.013 PN 10 Fig. 22.013 PN 16			DN											
			25	32	40	50	65	80	100	125	150	200	250	300
G23	Actuator Deufra	Operat.time s	6	6	6	6	6	6	6	6	6	15	10	30
		Type	SQ4						SQ6	SQ10		SQ15	SQ25	SQ60
		PN10 /16	992,-	1.007,-	1.023,-	1.038,-	1.074,-	1.088,-	1.358,-	1.559,-	1.618,-	2.459,-	3.270,-	3.987,-

Fig. 21.013 PN 10 Fig. 22.013 PN 16			DN				
			350	400	450	500	600
G23	Actuator Deufra	Operat.time s	30	30	30	30	70
		Type	SQ60	SQ120			SQ250
		PN10 /16	5.686,-	7.919,-	9.320,-	10.309,-	see ZIVA-GE [3]

Additional performance	DN											
	25	32	40	50	65	80	100	125	150	200	250	300
Stem and pivot 1.4571	34,-	34,-	40,-	40,-	40,-	40,-	65,-	105,-	232,-	338,-	434,-	634,-
Additional price for seat of FPM (not for hot water)	121,-	121,-	155,-	201,-	285,-	353,-	394,-	562,-	643,-	1.061,-	1.920,-	2.159,-
Lower price for disc of EN-JS1030 with zinc-lamella coating	--	--	--	--	--	--	28,-	38,-	80,-	169,-	237,-	487,-
Additional price for seawater seat of NBR / disc of CuAl10Ni [2]	--	--	30,-	30,-	30,-	77,-	103,-	122,-	183,-	244,-	374,-	565,-

Additional performance	DN				
	350	400	450	500	600
Additional price for seat of FPM (not for hot water)	2.321,-	4.859,-	6.311,-	6.652,-	see ZIVA-GE [3]
Lower price for disc of EN-JS1030 with zinc-lamella coating	762,-	1.021,-	1.146,-	1.206,-	
Additional price for seawater seat of NBR / disc of CuAl10Ni [2]	801,-	1.038,-	1.661,-	2.479,-	

Design acc. to data sheet

[1] Max. permissible differential pressure 6bar

[2] Max. 30°C according to resistance list

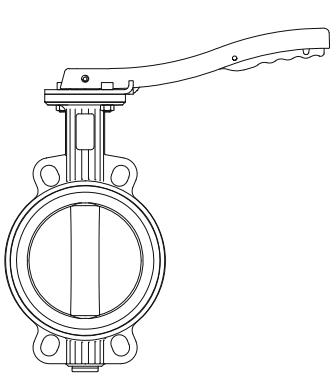
[3] Refer to page 127

With pneumatic actuators on request!

ARI-ZIVA®-Z

Wafer type butterfly valves;
soft sealed - maintenance-free
Disc in stainless steel 1.4581

PN 6 / 10 / 16 - DN25 - 600 of EN-JS1030
DN20 only suitable for flanges PN16
EPDM - seat max: 130°C
NBR - seat max: 80°C
FPM (Viton) - seat max: 150°C
NBR white - seat max: 80°C



with lever and travel indicator | **with worm gear and travel indicator**

- Fig. 22.014 -

Registration for drinking water and gas

Standard:
NBR DN25 / 32 - DN600 **with DVGW-registration** NG-4313BQ0462 acc. to DIN EN 13774 for gas
EPDM DN25 / 32 - DN600 **with DVGW-registration** NW-6201BQ0460 acc. to DIN EN 1074-1/-2 for drinking water (W270)
NBR DN50 - DN300 PN10 (flanges acc. to PN10 or PN16) with lever or gear
with ÖVGW-registration G 2.856, acc. to PG337 / 500 and ÖNORM M7437 / EN437 for gas
EPDM DN50 - DN150 PN16 (flanges acc. to PN10 or PN16), DN200 - DN600 PN10, with gear
with ÖVGW-registration W 1.429, acc. to PW501/1 in connection with ÖNORM EN1074-1 and -2 for drinking water

Fig. 22.014 [1] PN 6 / 10 / 16		DN 20/25	32	40	50	65	80	100	125	150	200
I21	with **lever** disc of stainless steel 1.4581	164,-	164,-	208,-	229,-	251,-	305,-	351,-	438,-	556,-	1.086,-

Additional performance	DN 20/25	32	40	50	65	80	100	125	150	200
Stem mat.-no. 1.4571	34,-	34,-	40,-	40,-	40,-	40,-	65,-	105,-	232,-	338,-
Additional price for seat of FPM (not for hot water)	121,-	121,-	155,-	201,-	285,-	353,-	394,-	562,-	643,-	1.061,-
Additional price for seat of white NBR [2] (acc. to Food- and consumer-article regulation)	30,-	30,-	30,-	30,-	35,-	37,-	37,-	43,-	50,-	88,-
Lower price without lever or gear	11,-	11,-	11,-	11,-	11,-	11,-	11,-	23,-	23,-	23,-
1 limit switch (open or close)	309,-	309,-	309,-	309,-	309,-	309,-	309,-	309,-	309,-	309,-
2 limit switches (open / close)	527,-	527,-	527,-	527,-	527,-	527,-	527,-	527,-	527,-	527,-
I21 Additional price for variable adjustment and **locklever**	39,-	39,-	39,-	39,-	39,-	39,-	39,-	39,-	39,-	39,-
I21 Additional price for **worm gear**	242-10S							242-10M		
	223,-	223,-	223,-	223,-	223,-	223,-	223,-	223,-	223,-	223,-

Fig. 22.014 [1] PN 10 / 16		DN 250	300	350	400	450	500 [3]	600 [3]
I21	with **worm gear** disc of stainless steel 1.4581	242-20M	242-30S		242-30L	242-40M		AB1250N
		1.744,-	2.249,-	4.030,-	5.009,-	6.059,-	7.380,-	11.004,-

Additional performance	DN 250	300	350	400	450	500	600
Stem mat.-no. 1.4571	434,-	634,-	standard				
Additional price for seat of FPM (not for hot water)	1.920,-	2.159,-	2.321,-	4.859,-	6.311,-	6.652,-	8.917,-
Lower price without lever or gear	260,-	326,-	326,-	326,-	326,-	326,-	326,-
1 limit switch (open or close)	309,-	309,-	309,-	309,-	309,-	309,-	309,-
2 limit switches (open / close)	527,-	527,-	527,-	527,-	527,-	527,-	527,-

Stem extension on request
ZIVA is designed for industrial applications.
Design with electric and pneumatic actuators
refer to page 126 and 128

Body in EN-JS1049 on request.

[1] Includes 20.014 and 21.014 (only 21.014 from DN350 onwards)

[2] Only worm gear from DN 125. Actuator allocation on request.

[3] Connection acc. to PN10 or PN16

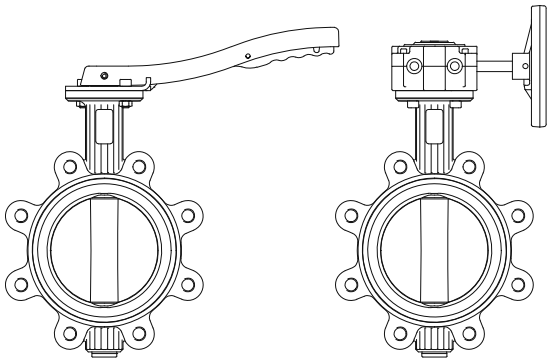
Design acc. to data sheet

ARI-ZIVA®-G

Lug type butterfly valves;
soft sealed - maintenance-free
Disc in stainless steel 1.4581

PN 10 / 16 - DN25 - 600 of EN-JS1030

EPDM	- seat max: 130°C
NBR	- seat max: 80°C
FPM (Viton)	- seat max: 150°C
NBR white	- seat max: 80°C



with lever and travel indicator | **with worm gear and travel indicator**

- Fig. 22.015 -

Registration for drinking water and gas

Standard:
NBR DN25 / 32 - DN600 **with DVGW-registration** NG-4313BQ0462 acc. to DIN EN 13774 for gas
EPDM DN25 / 32 - DN600 **with DVGW-registration** NW-6201BQ0460 acc. to DIN EN 1074-1/-2 for drinking water (W270)
NBR DN50 - DN300 PN10 (flanges acc. to PN10 or PN16) with lever or gear
with ÖVGW-registration G 2.856, acc. to PG337 / 500 and ÖNORM M7437 / EN437 for gas
EPDM DN50 - DN150 PN16 (flanges acc. to PN10 or PN16), DN200 - DN600 PN10, with gear
with ÖVGW-registration W 1.429, acc. to PW501/1 in connection with ÖNORM EN1074-1 and -2 for drinking water

Fig. 21.015 PN 10 / Fig. 22.015 PN 16		DN 25	32	40	50	65	80	100	125	150	200
I21	with **lever** disc of stainless steel 1.4581	265,-	265,-	306,-	323,-	366,-	386,-	496,-	640,-	711,-	1.300,-

Additional performance	DN 25	32	40	50	65	80	100	125	150	200
Stem mat.-no. 1.4571	34,-	34,-	40,-	40,-	40,-	40,-	65,-	105,-	232,-	338,-
Additional price for seat of FPM (not for hot water)	121,-	121,-	155,-	201,-	285,-	353,-	394,-	562,-	643,-	1.061,-
Additional price for seat of white NBR [1] (acc. to Food- and consumer-article regulation)	30,-	30,-	30,-	30,-	35,-	37,-	37,-	43,-	50,-	88,-
Lower price without lever or gear	11,-	11,-	11,-	11,-	11,-	11,-	11,-	23,-	23,-	23,-
1 limit switch (open or close)	309,-	309,-	309,-	309,-	309,-	309,-	309,-	309,-	309,-	309,-
2 limit switches (open / close)	527,-	527,-	527,-	527,-	527,-	527,-	527,-	527,-	527,-	527,-
I21 Additional price for variable adjustment and **locklever**	39,-	39,-	39,-	39,-	39,-	39,-	39,-	39,-	39,-	39,-
I21 Additional price for **worm gear**	242-10S							242-10M		
	223,-	223,-	223,-	223,-	223,-	223,-	223,-	223,-	223,-	223,-

Fig. 21.015 PN 10 / Fig. 22.015 PN 16		DN 250	300	350	400	450	500	600
I21	with **worm gear** disc of stainless steel 1.4581	242-20M	242-30S		242-30L	242-40M		AB1250N
		2.081,-	2.602,-	4.471,-	5.501,-	6.383,-	8.328,-	11.741,-

Additional performance	DN 250	300	350	400	450	500	600
Stem mat.-no. 1.4571	434,-	634,-	standard				
Additional price for seat of FPM (not for hot water)	1.920,-	2.159,-	2.321,-	4.859,-	6.311,-	6.652,-	8.917,-
Lower price without lever or gear	260,-	326,-	326,-	326,-	326,-	326,-	326,-
1 limit switch (open or close)	309,-	309,-	309,-	309,-	309,-	309,-	309,-
2 limit switches (open / close)	527,-	527,-	527,-	527,-	527,-	527,-	527,-

Stem extension on request
ZIVA is designed for industrial applications.
Design with electric and pneumatic actuators
refer to page 127 and 129

Body in EN-JS1049 on request.

[1] Only worm gear from DN 125. Actuator allocation on request.

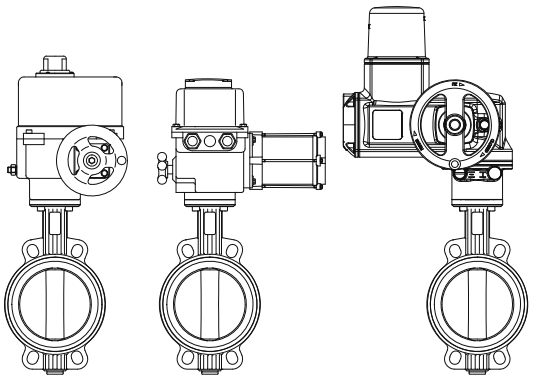
Design acc. to data sheet

ARI-ZIVA®-ZE

Wafer type butterfly valves;
soft sealed - maintenance-free -
with electric rotary actuator
Disc in stainless steel 1.4581

PN 6 / 10 / 16 - DN20 - 600 of EN-JS1030
DN20 only suitable for flanges PN16

EPDM	- seat max: 130 °C
NBR	- seat max: 80 °C
FPM (Viton)	- seat max: 150 °C



ARI-OM 230V 50Hz 1~ | **Deufra** 230V 50Hz 1~ | **AUMA** 400V 50Hz 3~

- Fig. 22.014 -

Registration for drinking water and gas

Standard: **NBR** DN25 / 32 - DN600 **with DVGW-registration** NG-4313BQ0462 acc. to DIN EN 13774 for gas
EPDM DN25 / 32 - DN600 **with DVGW-registration** NW-6201BQ0460 acc. to DIN EN 1074-1/-2 for drinking water (W270)

Fig. 22.014 [1] PN 6 / 10 / 16			DN											
			20/25	32	40	50	65	80	100	125	150	200	250	300 [2]
I23	Actuator ARI-OM	Operat.time s	13	13	13	13	13	13	24	17	26	26	18	18
		Type	OM-1						OM-A	OM-2	OM-3		OM-4	
		PN 6 / 10 / 16	554,-	554,-	599,-	620,-	642,-	695,-	1.002,-	1.228,-	1.468,-	1.998,-	2.816,-	3.255,-

Fig. 22.014 [1] PN 6 / 10 / 16			DN											
			20/25	32	40	50	65	80	100	125	150	200	250	300
I23	Actuator Deufra	Operat.time s	6	6	6	6	6	6	6	6	6	15	10	30
		Type	SQ4						SQ6	SQ10		SQ15	SQ25	SQ60
		PN 6 / 10 / 16	939,-	939,-	984,-	1.005,-	1.027,-	1.080,-	1.302,-	1.487,-	1.604,-	2.568,-	3.121,-	3.856,-

Fig. 22.014 [1] PN 10 / 16			DN				
			350	400	450	500	600
I23	Actuator Deufra	Operat.time s	30	30	30	30	70
		Type	SQ60	SQ120			SQ250
		PN 10 / 16	5.636,-	7.748,-	8.798,-	10.119,-	on request

Fig. 22.014 [1] PN 6 / 10 / 16			DN											
			20/25	32	40	50	65	80	100	125	150	200	250	300
I23	Actuator AUMA	Operat.time s	16	16	16	16	16	16	16	16	16	16	16	16
		Type	SQ05.2										SQ07.2	SQ10.2
		PN 6 / 10 / 16	2.218,-	2.218,-	2.263,-	2.284,-	2.306,-	2.359,-	2.406,-	2.482,-	2.599,-	3.129,-	3.825,-	4.539,-

Fig. 22.014 [1] PN 10 / 16			DN				
			350	400	450	500	600
I23	Actuator AUMA	Operat.time s	16	22	22	22	on request
		Type	SQ10.2	SQ12.2			
		PN 10 / 16	6.319,-	7.391,-	8.441,-	9.762,-	

Additional performance	DN											
	20/25	32	40	50	65	80	100	125	150	200	250	300
Stem mat.-no. 1.4571	34,-	34,-	40,-	40,-	40,-	40,-	65,-	105,-	232,-	338,-	434,-	634,-
Additional price for seat of FPM (not for hot water)	121,-	121,-	155,-	201,-	285,-	353,-	394,-	562,-	643,-	1.061,-	1.920,-	2.159,-

	DN					
	350	400	450	500	600	
Additional price for seat of FPM (not for hot water)	2.321,-	4.859,-	6.311,-	6.652,-	8.917,-	**Body in EN-JS1049 on request.**

Design acc. to data sheet

[1] Includes 20.014 and 21.014 (only 21.014 from DN350 onwards)

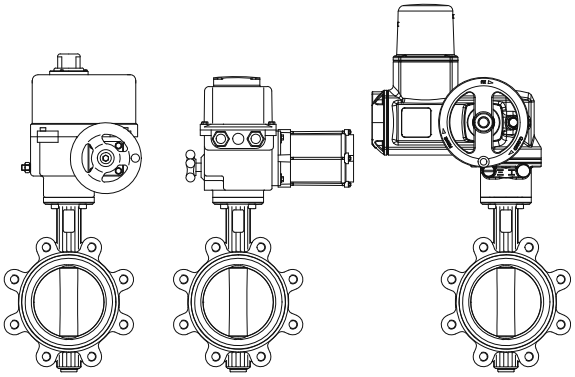
[2] Max. permissible differential pressure 6bar

ARI-ZIVA®-GE

Lug type butterfly valves;
soft sealed - maintenance-free -
with electric rotary actuator
Disc in stainless steel 1.4581

PN 10 / 16 - DN25 - 600 of EN-JS1030

EPDM - seat max: 130 °C
NBR - seat max: 80 °C
FPM (Viton) - seat max: 150 °C



ARI-OM 230V 50Hz 1~ | **Deufra** 230V 50Hz 1~ | **AUMA** 400V 50Hz 3~

- Fig. 22.015 -

Registration for drinking water and gas

Standard: **NBR** DN25 / 32 - DN600 **with DVGW-registration** NG-4313BQ0462 acc. to DIN EN 13774 for gas
EPDM DN25 / 32 - DN600 **with DVGW-registration** NW-6201BQ0460 acc. to DIN EN 1074-1/-2 for drinking water (W270)

Fig. 21.015 PN 10 Fig. 22.015 PN 16			DN											
			25	32	40	50	65	80	100	125	150	200	250	300 [1]
I23	Actuator ARI-OM	Operat.time s	13	13	13	13	13	13	24	17	26	26	18	18
		Type	OM-1						OM-A	OM-2	OM-3		OM-4	
		PN10/16	656,-	656,-	696,-	714,-	757,-	777,-	1.147,-	1.429,-	1.623,-	2.212,-	3.152,-	3.608,-

Fig. 21.015 PN 10 Fig. 22.015 PN 16			DN											
			25	32	40	50	65	80	100	125	150	200	250	300
I23	Actuator Deufra	Operat.time s	6	6	6	6	6	6	6	6	6	15	10	30
		Type	SQ4						SQ6	SQ10		SQ15	SQ25	SQ60
		PN10/16	1.041,-	1.041,-	1.081,-	1.099,-	1.142,-	1.162,-	1.447,-	1.688,-	1.759,-	2.782,-	3.457,-	4.209,-

Fig. 21.015 PN 10 Fig. 22.015 PN 16			DN				
			350	400	450	500	600
I23	Actuator Deufra	Operat.time s	30	30	30	30	70
		Type	SQ60	SQ120			SQ250
		PN10 /16	6.078,-	8.240,-	9.122,-	11.067,-	on request

Fig. 21.015 PN 10 Fig. 22.015 PN 16			DN											
			25	32	40	50	65	80	100	125	150	200	250	300
I23	Actuator AUMA	Operat.time s	16	16	16	16	16	16	16	16	16	16	16	16
		Type	SQ05.2										SQ07.2	SQ10.2
		PN10/16	2.320,-	2.320,-	2.360,-	2.378,-	2.422,-	2.441,-	2.551,-	2.683,-	2.754,-	3.343,-	4.161,-	4.892,-

Fig. 21.015 PN 10 Fig. 22.015 PN 16			DN					
			350	400	450	500	600	
I23	Actuator AUMA	Operat.time s	16	22	22	22		
		Type	SQ10.2	SQ12.2			on request	
		PN10 /16	6.761,-	7.883,-	8.765,-	10.710,-		

Additional performance	DN											
	25	32	40	50	65	80	100	125	150	200	250	300
Stem mat.-no.1.4571	34,-	34,-	40,-	40,-	40,-	40,-	65,-	105,-	232,-	338,-	434,-	634,-
Additional price for seat of FPM (not for hot water)	121,-	121,-	155,-	201,-	285,-	353,-	394,-	562,-	643,-	1.061,-	1.920,-	2.159,-

	DN					
	350	400	450	500	600	
Additional price for seat of FPM (not for hot water)	2.321,-	4.859,-	6.311,-	6.652,-	8.917,-	**Body in EN-JS1049 on request.**

Design acc. to data sheet

[1] Max. permissible differential pressure 6bar

ARI-ZIVA®-ZP

Wafer type butterfly valves;
soft sealed - maintenance-free -
with pneumatic rotary actuator
Disc in stainless steel 1.4581

PN 6 / 10 / 16 - DN20 - 600 of EN-JS1030
DN20 only suitable for flanges PN16

EPDM	- seat max: 130°C
NBR	- seat max: 80°C
FPM (Viton)	- seat max: 150°C

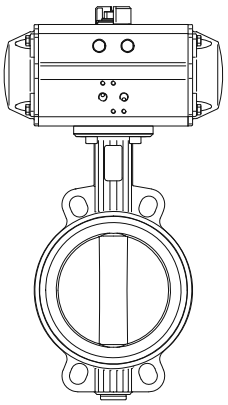


Fig. 22.014
actuator "AIR TORQUE"
Air supply: 6 bar

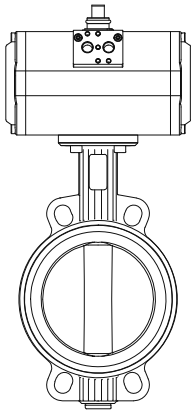


Fig. 22.014
actuator "bar"
Air supply: 6 bar

Registration for drinking water and gas

Standard: **NBR** DN25 / 32 - DN600 **with DVGW-registration** NG-4313BQ0462 acc. to DIN EN 13774 for gas
EPDM DN25 / 32 - DN600 **with DVGW-registration** NW-6201BQ0460 acc. to DIN EN 1074-1/-2 for drinking water (W270)

Fig. 22.014 [1] PN 6 / 10 / 16				**DN**											
				20/25	**32**	**40**	**50**	**65**	**80**	**100**	**125**	**150**	**200**	**250**	**300**
I23	Actuator "AIR TORQUE"	single acting	Type open	SO 30-5				SO 60-5	SO 100-5		SO 150-5	SO 220-5		SO 450-5	SO 900-5
			Type close	SC 30-6				SC 60-6	SC 100-6	SC 150-6	SC 220-6	SC 300-6	SC 450-6	SC 600-6	SC 1200-6
			PN 6 / 10 / 16	493,-	493,-	538,-	559,-	703,-	863,-	1.052,-	1.128,-	1.358,-	2.198,-	2.721,-	4.211,-
		double acting	Type	DR30						DR60	DR100		DR150	DR220	DR450
			PN 6 / 10 / 16	322,-	322,-	367,-	388,-	410,-	463,-	568,-	709,-	826,-	1.393,-	1.938,-	2.756,-

Fig. 22.014 [1] PN 10 / 16				**DN**				
				350	**400**	**450**	**500**	**600**
I23	Actuator "AIR TORQUE"	single acting	Type open	SO 900-5	SO 1200-5	SO 2000-6	SO 2000-5	on request
			Type close	SC 1200-6	SC 2000-6		SC 3000-6	
			PN 10 / 16	6.031,-	8.736,-	9.786,-	11.819,-	
		double acting	Type	DR450	DR600	DR900	DR1200	
			PN 10 / 16	4.469,-	5.690,-	7.273,-	8.727,-	

Fig. 22.014 [1] PN 6 / 10 / 16				**DN**											
				20/25	**32**	**40**	**50**	**65**	**80**	**100**	**125**	**150**	**200**	**250**	**300**
I23	Actuator "bar"	single acting	Type open	GTE68				GTE78	GTE88	GTE110		GTE115	GTE127	GTE143	GTE210
			Type close	GTE68				GTE78	GTE88	GTE98	GTE110	GTE115	GTE127	GTE143	GTE210
			PN 6 / 10 / 16	546,-	546,-	591,-	612,-	634,-	821,-	1.130,-	1.206,-	1.366,-	2.030,-	2.777,-	4.288,-
		double acting	Type	GTD58					GTD68		GTD98		GTD110	GTD115	GTD143
			PN 6 / 10 / 16	291,-	291,-	336,-	357,-	379,-	463,-	510,-	692,-	809,-	1.421,-	1.931,-	2.734,-

Fig. 22.014 [1] PN 10 / 16				**DN**				
				350	**400**	**450**	**500**	**600**
I23	Actuator "bar"	single acting	Type open	GTE210	GTE250			on request
			Type close	GTE210	GTE250			
			PN 10 / 16	6.068,-	9.949,-	10.999,-	12.320,-	
		double acting	Type	GTD143	GTD163	GTD185	GTD210	
			PN 10 / 16	4.514,-	5.656,-	7.223,-	8.610,-	

Additional performance	**DN**											
	20/25	**32**	**40**	**50**	**65**	**80**	**100**	**125**	**150**	**200**	**250**	**300**
Stem mat.-no. 1.4571	34,-	34,-	40,-	40,-	40,-	40,-	65,-	105,-	232,-	338,-	434,-	634,-
Additional price for seat of FPM (not for hot water)	121,-	121,-	155,-	201,-	285,-	353,-	394,-	562,-	643,-	1.061,-	1.920,-	2.159,-

	DN					
	350	**400**	**450**	**500**	**600**	
Additional price for seat of FPM (not for hot water)	2.321,-	4.859,-	6.311,-	6.652,-	8.917,-	**Body in EN-JS1049 on request.**

Design acc. to data sheet

[1] Includes 20.014 and 21.014
(only 21.014 from DN350 onwards)

ARI-ZIVA®-GP

Lug type butterfly valves;
soft sealed - maintenance-free -
with pneumatic rotary actuator
Disc in stainless steel 1.4581

PN 10 / 16 - DN25 - 600 of EN-JS1030

EPDM	- seat max: 130°C
NBR	- seat max: 80°C
FPM (Viton)	- seat max: 150°C

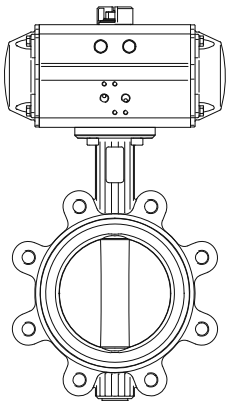


Fig. 22.015
actuator "AIR TORQUE"
Air supply: 6 bar

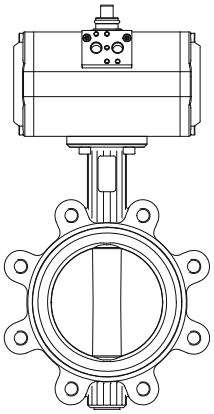


Fig. 22.015
actuator "bar"
Air supply: 6 bar

Registration for drinking water and gas

Standard: **NBR** DN25 / 32 - DN600 **with DVGW-registration** NG-4313BQ0462 acc. to DIN EN 13774 for gas
EPDM DN25 / 32 - DN600 **with DVGW-registration** NW-6201BQ0460 acc. to DIN EN 1074-1/-2 for drinking water (W270)

Fig. 21.015 PN 10 Fig. 22.015 PN 16				DN											
				25	32	40	50	65	80	100	125	150	200	250	300
I23	Actuator "AIR TORQUE"	single acting	Type open	SO 30-5				SO 60-5	SO 100-5		SO 150-5	SO 220-5		SO 450-5	SO 900-5
			Type close	SC 30-6				SC 60-6	SC 100-6	SC 150-6	SC 220-6	SC 300-6	SC 450-6	SC 600-6	SC 1200-6
			PN 10 / 16	595,-	595,-	635,-	653,-	818,-	945,-	1.197,-	1.329,-	1.513,-	2.412,-	3.057,-	4.564,-
		double acting	Type	DR30						DR60	DR100		DR150	DR220	DR450
			PN 10 / 16	424,-	424,-	464,-	482,-	525,-	545,-	713,-	910,-	981,-	1.607,-	2.274,-	3.109,-

Fig. 21.015 PN 10 Fig. 22.015 PN 16				DN				
				350	400	450	500	600
I23	Actuator "AIR TORQUE"	single acting	Type open	SO 900-5	SO 1200-5	SO 2000-6	SO 2000-5	on request
			Type close	SC 1200-6	SC 2000-6		SC 3000-6	
			PN 10 / 16	6.473,-	9.228,-	10.110,-	12.767,-	
		double acting	Type	DR450	DR600	DR900	DR1200	
			PN 10 / 16	4.911,-	6.182,-	7.597,-	9.675,-	

Fig. 21.015 PN 10 Fig. 22.015 PN 16				DN											
				25	32	40	50	65	80	100	125	150	200	250	300
I23	Actuator "bar"	single acting	Type open	GTE68				GTE78	GTE88	GTE110		GTE115	GTE127	GTE143	GTE210
			Type close	GTE68				GTE78	GTE88	GTE98	GTE110	GTE115	GTE127	GTE143	GTE210
			PN 10 / 16	648,-	648,-	688,-	706,-	749,-	903,-	1.275,-	1.407,-	1.521,-	2.274,-	3.113,-	4.641,-
		double acting	Type	GTD58					GTD68		GTD98		GTD110	GTD115	GTD143
			PN 10 / 16	393,-	393,-	433,-	451,-	494,-	545,-	655,-	893,-	964,-	1.635,-	2.267,-	3.087,-

Fig. 21.015 PN 10 Fig. 22.015 PN 16				DN				
				350	400	450	500	600
I23	Actuator "bar"	single acting	Type open	GTE210	GTE250			on request
			Type close	GTE210	GTE250			
			PN 10 / 16	6.510,-	10.441,-	11.323,-	13.268,-	
		double acting	Type	GTD143	GTD163	GTD185	GTD210	
			PN 10 / 16	4.956,-	6.148,-	7.847,-	9.558,-	

Additional performance	DN											
	25	32	40	50	65	80	100	125	150	200	250	300
Stem mat.-no. 1.4571	34,-	34,-	40,-	40,-	40,-	40,-	65,-	105,-	232,-	338,-	434,-	634,-
Additional price for seat of FPM (not for hot water)	121,-	121,-	155,-	201,-	285,-	353,-	394,-	562,-	643,-	1.061,-	1.920,-	2.159,-

	DN					
	350	400	450	500	600	
Additional price for seat of FPM (not for hot water)	2.321,-	4.859,-	6.311,-	6.652,-	8.917,-	**Body in EN-JS1049 on request.**

Design acc. to data sheet

ARI-ZEDOX®

NEW! from ARI

Double offset butterfly valve, wafer type

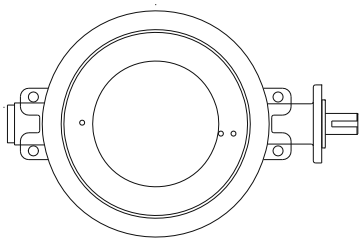


Fig. 34.-35.120 / 54.-55.120

Disc in stainless steel 1.4460

PN 10 / 16 / 25 [1) 2)] - DN 80-800 up to 260°C [3)]
cast steel 1.0619+N
stainless steel 1.4408

PN 40 - DN 80-200 up to 260°C
cast steel 1.0619+N
stainless steel 1.4408

with lever / worm gear,
with electric, pneumatic or hydraulic actuator

				DN													
				80	100	125	150	200	250	300	350	400	450	500	600	700	800
1.0619+N	PN 10 - PN 25	Fig. 34.120	Sealing element in PTFE+C (TS)	on request												--	--
			Sealing element in stainless steel [4)] (CS)	on request													
	PN 40	Fig. 35.120		on request					--	--	--	--	--	--	--	--	--
1.4408	PN 10 - PN 25	Fig. 54.120	Sealing element in PTFE+C (TS)	on request												--	--
			Sealing element in stainless steel [4)] (CS)	on request													
	PN 40	Fig. 55.120		on request					--	--	--	--	--	--	--	--	--

Additional performance		DN													
		80	100	125	150	200	250	300	350	400	450	500	600	700	800
Face-to-face dimension series 25 acc. to DIN EN 558 / ISO 5752		on request								--	--	--	--	--	--
Face-to-face dimension series 16 acc. to DIN EN 558 / ISO 5752 (Fig. 34./35.120)		on request													
Sealing leakage: Leakage rate A acc. to ISO 5208 / DIN EN 12266-1 (for design with sealing element in stainless steel (CS))															
Closing pressure (Δp): 25 bar (Fig. 34. / 54.120)															
Flange	ANSI Class 150														
	GOST 33259-2015														
Design acc. to ATEX Directive 2014/34/EU															
Version for use in gas systems (Fig. 34.120)															
Version acc. to Fire-Safe (Fig. 54. / 55.120)															

Design acc. to data sheet

Other materials (incl. ASTM) on request

Larger nominal diameters on request

Pressure-temperature-ratings on page 225

[1)] From DN 450 onwards please indicate when ordering.

[2)] Closing pressure (Δp) 16 bar and Leakage rate A as standard

[3)] PTFE+C sealing element (TS), temperature range -40°C to +180°C
Stainless steel sealing element (CS), temperature range -40°C to +260°C

[4)] Leakage rate B as standard

ARI-ZEDOX®

Double offset butterfly valve with butt weld ends

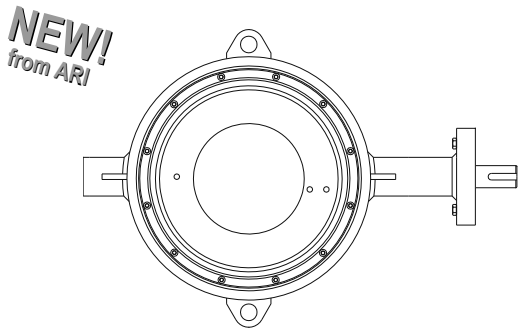


Fig. 84.121 / 54.121

Disc in stainless steel 1.4460

PN 6 / 10 / 16 / 25 [1] - DN 200-1600 up to 260°C [2]
steel 1.0425
stainless steel 1.4307 [3]

with worm gear,
with electric, pneumatic or hydraulic actuator

				DN													
				200	250	300	350	400	450	500	600	700	800	900	1000	1200	1400	1600
1.0425	PN 6 - PN 25	Fig. 84.121	Sealing element in PTFE+C (TS)	on request									--	--	--	--	--	--
			Sealing element in stainless steel [4] (CS)	on request														
1.4307		Fig. 54.121	Sealing element in PTFE+C (TS)	on request									--	--	--	--	--	--
			Sealing element in stainless steel [4] (CS)	on request														

Additional performance	DN															
	200	250	300	350	400	450	500	600	700	800	900	1000	1200	1400	1600
Sealing leakage: Leakage rate A acc. to ISO 5208 / DIN EN 12266-1 (for design with sealing element in stainless steel (CS))	on request														
Closing pressure (Δp): 25 bar															
Butt weld ends acc. to GOST (except DN 450)															
Version for use in gas systems (Fig. 34.121) [5]															

Design acc. to data sheet

Other materials (incl. ASTM) on request

Larger nominal diameters on request

Pressure-temperature-ratings on page 225

[1] Closing pressure (Δp) 16 bar and Leakage rate A as standard
[2] PTFE+C sealing element (TS), temperature range -40°C to +180°C
Stainless steel sealing element (CS), temperature range -40°C to +260°C
[3] 1.4404 is possible
[4] Leakage rate B as standard
[5] With sealing element in PTFE+C (TS) only up to DN 700

ARI-ZEDOX®

NEW! from ARI

Double offset butterfly valve with double flange

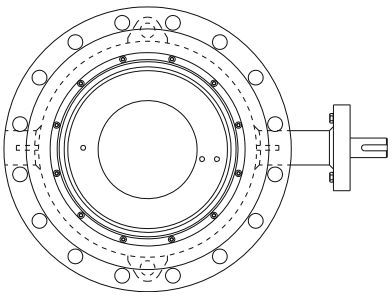


Fig. 84.122 / 54.122

Disc in stainless steel 1.4460

PN 10 / 16 / 25 [1] - DN 200-1200 up to 260°C [2]
steel 1.0425
stainless steel 1.4307 [3]

with worm gear,
with electric, pneumatic or hydraulic actuator

				DN												
				200	250	300	350	400	450	500	600	700	800	900	1000	1200
1.0425	PN 10 - PN 25	Fig. 84.122	Sealing element in PTFE+C (TS)	on request									--	--	--	--
			Sealing element in stainless steel [4] (CS)	on request												
1.4307		Fig. 54.122	Sealing element in PTFE+C (TS)	on request									--	--	--	--
			Sealing element in stainless steel [4] (CS)	on request												

Additional performance		DN												
		200	250	300	350	400	450	500	600	700	800	900	1000	1200
Sealing leakage: Leakage rate A acc. to ISO 5208 / DIN EN 12266-1 (for design with sealing element in stainless steel (CS))		on request												
Closing pressure (Δp): 25 bar														
Flange	ANSI Class 150													
	GOST 33259-2015													
Version for use in gas systems (Fig. 34.122) [5]														

Design acc. to data sheet

Other materials (incl. ASTM) on request.

Pressure-temperature-ratings on page 225

[1] Closing pressure (Δp) 16 bar and Leakage rate A as standard

[2] PTFE+C sealing element (TS), temperature range -40°C to +180°C
Stainless steel sealing element (CS), temperature range -40°C to +260°C

[3] 1.4404 is possible

[4] Leakage rate B as standard

[5] With sealing element in PTFE+C up to DN 700

Notes:

ARI-ZETRIX®

Triple offset butterfly valve, metallic sealed, with double flange

PN 6 / 10 / 16 / 25 / 40
DN 80-1200

Body/Disc in cast steel 1.0619+N
Body/Disc in stainless steel 1.4408

with worm gear,
with electric, pneumatic or hydraulic actuator

NEW!
Face-to-face dimension series 14 and 15

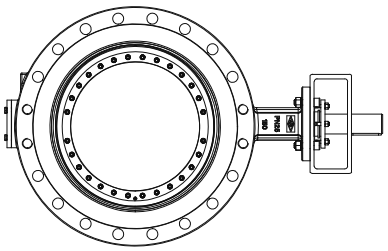


Fig. 30.-35.016 / 50.-55.016

			DN																
			80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000	1200
1.0619+N	PN 6	Fig. 30.016	on request																
	PN 10	Fig. 31.016																	
	PN 16	Fig. 32.016																	
	PN 25	Fig. 34.016																	
	PN 40	Fig. 35.016																	
1.4408	PN 6	Fig. 50.016																	
	PN 10	Fig. 51.016																	
	PN 16	Fig. 52.016																	
	PN 25	Fig. 54.016																	
	PN 40	Fig. 55.016																	

Additional performance		DN																	
		80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000	1200
Limit switch	open or close (1 piece)	on request																
	open and close (2 pieces)																	
Packing acc. to ISO 15848-1 / TA-Luft																		
Blow-out protection acc. to API 609																		
Flush connection																		
Leak-off connection																		
Spring loaded stuffing box																		
Massive sealing ring																		
Welded bottom flange																		
Face-to-face dimension series 14 and 15 acc. to DIN EN 558 / ISO 5752																		

Design acc. to data sheet

ARI-ZETRIX®ANSI

Triple offset butterfly valve, metallic sealed, with double flange

ANSI 150 / 300
NPS 3" - 48"

Body/Disc in cast steel SA216WCB
Body/Disc in stainless steel SA351CF8M

with worm gear,
with electric, pneumatic or hydraulic actuator

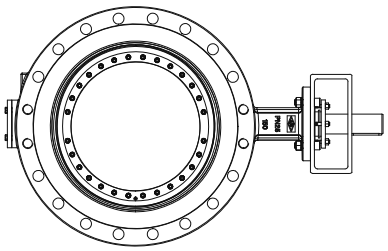


Fig. 32.-35.016 / 52.-55.016

			DN / NPS																
			80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000	1200
			3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"	28"	32"	36"	40"	48"
SA216WCB	ANSI150	Fig. 32.016	on request																
	ANSI300	Fig. 35.016																	
SA351CF8M	ANSI150	Fig. 52.016																	
	ANSI300	Fig. 55.016																	

Additional performance		DN / NPS																	
		80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000	1200
		3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"	28"	32"	36"	40"	48"
Limit switch	open or close (1 piece)	on request																
	open and close (2 pieces)																	
Packing acc. to ISO 15848-1 / TA-Luft																		
Blow-out protection acc. to API 609																		
Flush connection																		
Leak-off connection																		
Spring loaded stuffing box																		
Massive sealing ring																		
Welded bottom flange																		

Design acc. to data sheet

ARI-ZETRIX®

Triple offset butterfly valve, metallic sealed, fully lugged

PN 6 / 10 / 16 / 25 / 40 / 63 / 100
DN 80-600

Body/Disc in cast steel 1.0619+N
Body/Disc in stainless steel 1.4408

with worm gear,
with electric, pneumatic or hydraulic actuator

NEW!
PN 63 / 100

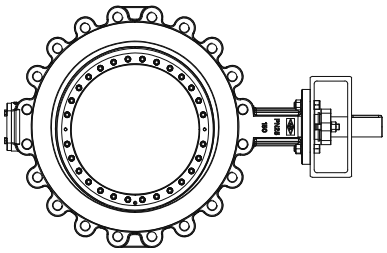


Fig. **30.-35.018 / 50.-55.018**
36.-37.018 / 56.-57.018

			DN										
			80	100	125	150	200	250	300	350	400	450	500	600
1.0619+N	PN 6	Fig. 30.018	on request											
	PN 10	Fig. 31.018												
	PN 16	Fig. 32.018												
	PN 25	Fig. 34.018												
	PN 40	Fig. 35.018												
	PN 63	Fig. 36.018												
	PN 100	Fig. 37.018												
1.4408	PN 6	Fig. 50.018												
	PN 10	Fig. 51.018												
	PN 16	Fig. 52.018												
	PN 25	Fig. 54.018												
	PN 40	Fig. 55.018												
	PN 63	Fig. 56.018												
	PN 100	Fig. 57.018												

Additional performance		DN											
		80	100	125	150	200	250	300	350	400	450	500	600
Limit switch	open or close (1 piece)	on request											
	open and close (2 pieces)												
Packing acc. to ISO 15848-1 / TA-Luft													
Blow-out protection acc. to API 609													
Flush connection													
Leak-off connection													
Spring loaded stuffing box													
Massive sealing ring													
Welded bottom flange													

Design acc. to data sheet

ARI-ZETRIX®ANSI

Triple offset butterfly valve, metallic sealed, fully lugged

ANSI 150 / 300 / 600
NPS 3" - 24"

Body/Disc in cast steel SA216WCB
Body/Disc in stainless steel SA351CF8M

with worm gear,
with electric, pneumatic or hydraulic actuator

NEW!
ANSI 600

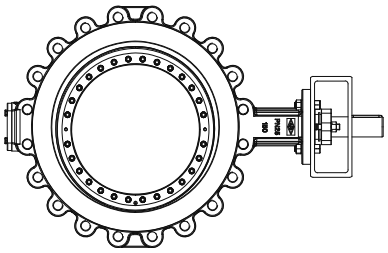


Fig. 32.-35.018 / 52.-55.018 37.018 / 57.018

			DN / NPS										
			80	100	125	150	200	250	300	350	400	450	500	600
			3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"
SA216WCB	ANSI150	Fig. 32.018	on request											
	ANSI300	Fig. 35.018												
	ANSI600	Fig. 37.018												
SA351CF8M	ANSI150	Fig. 52.018												
	ANSI300	Fig. 55.018												
	ANSI600	Fig. 57.018												

Additional performance		DN / NPS											
		80	100	125	150	200	250	300	350	400	450	500	600
		3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"
Limit switch	open or close (1 piece)	on request											
	open and close (2 pieces)												
Packing acc. to ISO 15848-1 / TA-Luft													
Blow-out protection acc. to API 609													
Flush connection													
Leak-off connection													
Spring loaded stuffing box													
Massive sealing ring													
Welded bottom flange													

Design acc. to data sheet

ARI-ZETRIX®

Triple offset butterfly valve, metallic sealed, with butt weld ends

PN 6 / 10 / 16 / 25 / 40
DN 80-600

NEW! from ARI

Body/Disc in cast steel 1.0619+N

with worm gear,
with electric, pneumatic or hydraulic actuator

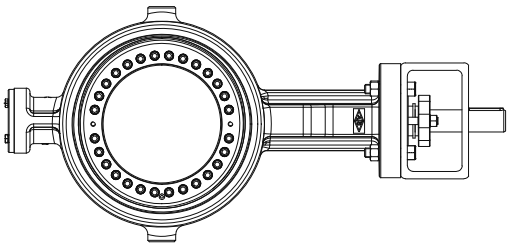


Fig. 34.-35.019

			DN										
			80	100	125	150	200	250	300	350	400	450	500	600
1.0619+N	**PN6 - PN25**	**Fig. 34.019**	on request											
	PN 40	**Fig. 35.019**												

Additional performance		DN											
		80	100	125	150	200	250	300	350	400	450	500	600
Limit switch	open or close (1 piece)	on request											
	open and close (2 pieces)												
Packing acc. to ISO 15848-1 / TA-Luft													
Blow-out protection acc. to API 609													
Flush connection													
Leak-off connection													
Spring loaded stuffing box													
Massive sealing ring													
Welded bottom flange													

Design acc. to data sheet

ARI-ZETRIX®ANSI

Triple offset butterfly valve, metallic sealed, with butt weld ends

ANSI 150 / 300
NPS 3" - 24"

Body/Disc in cast steel SA216WCB

with worm gear,
with electric, pneumatic or hydraulic actuator

NEW! from ARI

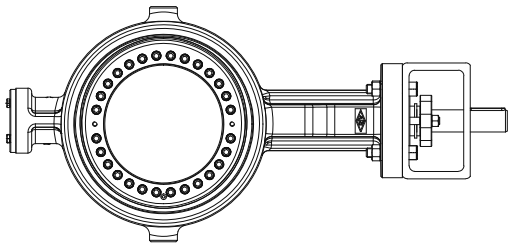


Fig. 32.-35.019

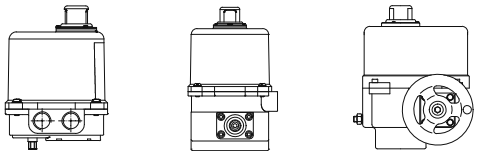
			DN / NPS										
			80	100	125	150	200	250	300	350	400	450	500	600
			3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"
SA216WCB	**ANSI150**	**Fig. 32.019**	on request											
	ANSI300	**Fig. 35.019**												

Additional performance		DN / NPS											
		80	100	125	150	200	250	300	350	400	450	500	600
		3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"
Limit switch	open or close (1 piece)	on request											
	open and close (2 pieces)												
Packing acc. to ISO 15848-1 / TA-Luft													
Blow-out protection acc. to API 609													
Flush connection													
Leak-off connection													
Spring loaded stuffing box													
Massive sealing ring													
Welded bottom flange													

Design acc. to data sheet

Electric rotary actuator ARI-OM

Type: **OM-1, OM-A, OM-2, OM-3, OM-4**
Supply voltage: 230V, 50Hz 1~
Mode of operation: Discontinuous and continuous service 30%
Switch off: Limit switches in both directions
Enclosure: IP 67
Standard: Manual operating device up to DN100, worm gear from DN125 onwards
(OM-1: 4kt wrench size 8; OM-A: internal hexagon, width across flats 5; OM-2/-3/-4: handwheel)



Actuator ARI-OM		OM-1	OM-A	OM-2	OM-3	OM-4
Standard	Operat.time	13s	24s	17s	26s	18s
	Voltage	230V 50Hz 1~				
	PRICE	402,-	662,-	812,-	935,-	1.332,-

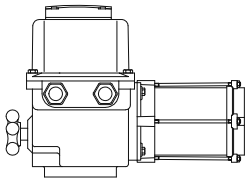
Additional performance for other voltages					
24V 50/60Hz 1~ / 24V DC	197,-	197,-	197,-	197,-	197,-

Additional performance for accessories		
2 add. limit- or intermediate switches (max. 4 pieces add.)	set	144,-
Potentiometer 1000Ohm	piece	322,-
Electronic positioner, signals 4 - 20mA 2 - 10V incl. electronic position indicator	piece	1.163,-
Electronic position indicator 4 - 20mA	piece	981,-
Heating	piece	125,-

Design acc. to data sheet

Electric rotary actuator Deufra

Type: **SQ**
Supply voltage: 230V, 50Hz 1~
Mode of operation: S4 30%
Switch off: Limit switches in both directions for SQ4 - SQ15
Limit- and torque switches in both directions for SQ25 - SQ250
Enclosure: IP 67
Standard: Manual operating device



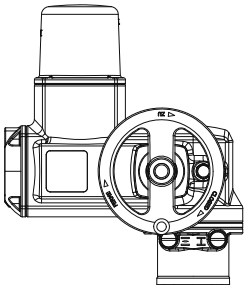
Actuator Deufra [1)]		SQ4	SQ6	SQ10	SQ15	SQ25	SQ60	SQ120	SQ250
Standard	Operat.time	6s	6s	6s	15s	10s	30s	30s	70s
	Voltage	230V 50Hz 1~							
	PRICE	787,-	962,-	1.071,-	1.505,-	1.637,-	1.933,-	3.065,-	on request

Additional performance for other voltages								
24V 50 Hz 1~	--	395,-	497,- (30s)	516,-	--	--	--	on request
24V =	--	1.215,-	1.276,-	1.420,-	1.889,-	3.049,-	3.350,-	
115V 50Hz 1~	--	72,-	72,-	72,-	72,-	72,-	142,-	
400V 50Hz 3~	--	without additional price						

Additional performance for accessories		
2 add. limit- or intermediate switch (max. 2 pieces add.)	set	144,-
Potentiometer 100, 200, 500, 1000Ohm (max. 2 pieces add.)	piece	322,-
Electric position retransmitter TAM output signal 0 - 20mA 4 - 20mA	piece	981,-

Design acc. to data sheet
[1)] Control model on request

Electric rotary actuator AUMA



Type: **SQ 05.2 - SQ 12.2**
Supply voltage: 400V, 50Hz 3~
Mode of operation: Temporary service S2 - 10min
Switch off: Limit- and torque switches in both directions
Enclosure: IP 68
Standard: Manual operating device

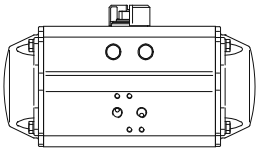
Actuator AUMA [1]		**SQ 05.2**	**SQ 07.2**	**SQ 10.2**	**SQ 12.2**
Standard	Operat.time	16s	16s	16s	22s
	Voltage	400V 50Hz 3~			
	PRICE	2.066,-	2.341,-	2.616,-	2.708,-

Additional performance for other voltages				
110V 50Hz 1~ / 230V 50Hz 1~	163,-	197,-	240,-	260,-

Additional performance for accessories		
Tandem-limit switch	set	176,-
Tandem-torque switch	set	176,-
Duo-limit switch with 4 single switches	piece	439,-
Potentiometer	piece	319,-
Electronic position indicator	piece	952,-

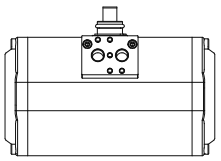
Design acc. to data sheet
[1] Control model on request

Pneumatic rotary actuator AIR TORQUE



Type: **DR30 - DR1200; SO 30-5 - SO 2000-5; SC 30-6 - SC 3000-6**
Function: Double acting
Single acting, Spring closes (opens) the seat
Actuating pressure: 6bar (0,6MPa), other actuating pressures on request

Pneumatic rotary actuator bar



Type: **GTD 58/90 - GTD210/90; GTE 68/90 - 250/90**
Function: Double acting
Single acting, Spring closes (opens) the seat
Actuating pressure: 6bar (0,6MPa), other actuating pressures on request

Additional performance for accessories				
Limit switch assembled (not at positioner)	Micro-switch in aluminium housing		2 pieces	410,-
	Inductive switch namur, in plastic housing		2 pieces	598,-
3/2-way-solenoid valve 230V 50Hz / 24V 50Hz / 24V=			piece	238,-
5/2-way-solenoid valve 230V 50Hz / 24V 50Hz / 24V=	1 full home position (spring loaded)		piece	254,-
	2 full home position (pulse operated)		piece	631,-
Exhaust silencer (double acting)			piece	13,-
Throttle (single acting)			piece	510,-
Travel indicator (only at actuator bar)			piece	16,-
Electro-pneumatic positioner, single acting, incl. fitting and adjustment		4 - 20mA or split range		1.786,-
Electro-pneumatic positioner, double acting, incl. fitting and adjustment		4 - 20mA or split range		2.214,-
Explosion proved design on request				

Design acc. to data sheet

Pneumatic actuated stop valve in straight through form

Body: EN-JL1040 / EN-JS1049 / 1.0619+N / 1.4408

Trim: Body in EN-JL1040 / EN-JS1049 / 1.0619+N: X20Cr13+QT (1.4021+QT)
Body in 1.4408: X6CrNiMoTi17-12-2 (1.4571)

Stem sealing: DN15-150 spring loaded
PTFE-V-ring unit -10 ...+220 °C
DN200-250 PTFE packing -10 ...+250 °C
Further designs up to +450°C acc. to data sheet

Flow characteristic: Open / close

Actuators: ARI-DP single acting pneumatic actuators

Action: Spring closes / opens the seat on air failure

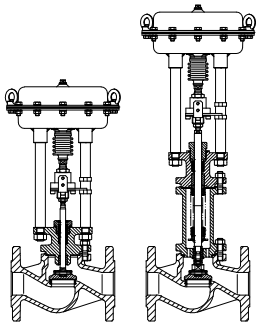


Fig. ...405 Fig. ...460
ARI-DP

Nominal diameter						DN	15	20	25	32	40	50	65	80	100	125	150	200	250
Kvs - values							4,2	7,4	12	19	31	47	77	120	188	288	410	725	1145
DP32	Spring closes	Air supply press. min (bar)	1,4	Closing press. (bar)			40	40	22,4	14,3	5,4								
	Spring opens		1,4				40 a)	40 a)	22,4 a)	14,3 a)	5,4 a)								
			6						40 a)	40 a)	40 a)	40 a)	29	18,1	10,7				
Fig. No.	12.405	PN16	EN-JL1040				1.193,-	1.204,-	1.240,-	1.272,-	1.349,-	1.414,-	1.581,-	1.784,-	2.031,-				
	23.405	PN16/25	EN-JS1049				1.273,-	1.316,-	1.342,-	1.432,-	1.510,-	1.617,-	1.799,-	2.031,-	2.380,-				
	35.405	PN25/40	1.0619+N				1.647,-	1.675,-	1.692,-	1.823,-	1.976,-	2.119,-	2.488,-	2.951,-	3.484,-				
	55.405	PN25/40	1.4408				1.992,-	2.045,-	2.085,-	2.486,-	2.527,-	2.801,-	3.786,-	4.985,-	6.605,-				
DP33	Spring closes	Air supply press. min (bar)	1,4	Closing press. (bar)			40 c)	40 c)	40 c)	33,9 c)	16,9 c)	8,5 c)	3						
	Spring opens		1,4				40 d)	40 d)	40 d)	34,1 d)	17 d)	8,6 d)	3 d)						
			6							40 d)	40 d)	40 d)	40	33,1	20,4	12,2	7,9		
Fig. No.	12.405	PN16	EN-JL1040				1.427,-	1.438,-	1.474,-	1.506,-	1.583,-	1.648,-	1.815,-	2.018,-	2.265,-	2.885,-	3.437,-		
	23.405	PN16/25	EN-JS1049				1.507,-	1.550,-	1.576,-	1.666,-	1.744,-	1.851,-	2.033,-	2.265,-	2.614,-	3.390,-	4.129,-		
	35.405	PN25/40	1.0619+N				1.881,-	1.909,-	1.926,-	2.057,-	2.210,-	2.353,-	2.722,-	3.185,-	3.718,-	4.767,-	5.938,-		
	55.405	PN25/40	1.4408				2.226,-	2.279,-	2.319,-	2.720,-	2.761,-	3.035,-	4.020,-	5.219,-	6.839,-	8.961,-	10.666,-		
DP34	Spring closes	Air supply press. min (bar)	1,4	Closing press. (bar)						40 f)	40 f)	28,2 f)	14,8 b)	8,5 b)	4,3 b)	1,6			
	Spring opens		1,4										10,8 c)	5,4 b)	1,7 b)	1,6 a)			
			6										40 c)	40 b)	30,3 b)	23 a)	15,5 a)	10,2	6,5
Fig. No.	12.405	PN16	EN-JL1040							2.410,-	2.487,-	2.552,-	2.719,-	2.922,-	3.169,-	3.789,-	4.341,-	6.525,-	9.095,-
	23.405	PN16 PN25	EN-JS1049							2.570,-	2.648,-	2.755,-	2.937,-	3.169,-	3.518,-	4.294,-	5.033,-	8.045,-	12.858,-
	35.405	PN25/40	1.0619+N							2.961,-	3.114,-	3.257,-	3.626,-	4.089,-	4.622,-	5.671,-	6.842,-	10.161,-	16.045,-
	55.405	PN25 PN40	1.4408							3.624,-	3.665,-	3.939,-	4.924,-	6.123,-	7.743,-	9.865,-	11.570,-	25.761,-	40.413,-
																		on request	
DP34T	Spring closes	Air supply press. min (bar)	1,7	Closing press. (bar)											1)	5,4 b)	2,7 b)		
	Spring opens		1,5													6,6 c)	3,5 b)		
			4,5													36,4 c)	28,6 b)	15 b)	9,6 b)
Fig. No.	12.405	PN16	EN-JL1040													6.665,-	7.217,-	9.401,-	11.971,-
	23.405	PN16 PN25	EN-JS1049													7.170,-	7.909,-	10.921,-	15.734,-
	35.405	PN25/40	1.0619+N													8.547,-	9.718,-	13.037,-	18.921,-
	55.405	PN25 PN40	1.4408													12.741,-	14.446,-	28.556,-	43.209,-
																		on request	
DP34Tri	Spring closes	Air supply press. min (bar)	1,7	Closing press. (bar)											1)	9,5 d)	5,1 d)	1,2 d)	2)
Fig. No.	12.405	PN16	EN-JL1040													10.953,-	11.505,-	13.689,-	16.259,-
	23.405	PN16 PN25	EN-JS1049													11.458,-	12.197,-	15.209,-	20.022,-
	35.405	PN25/40	1.0619+N													12.835,-	14.006,-	17.325,-	23.209,-
	55.405	PN25 PN40	1.4408													17.029,-	18.734,-	35.237,-	47.349,-
																		on request	
DP35	Spring closes (1,8 - 3,8)	Air supply press. min (bar)	4,3	Closing press. (bar)											1)		40	23,5	13,8
	Spring opens		1,5													12,5 b)	8 b)	3,6 b)	1,7 b)
			4,5													40 b)	40 b)	29,1 b)	18,4 b)
Fig. No.	12.405	PN16	EN-JL1040													on request			
	23.405	PN16 PN25	EN-JS1049																
	35.405	PN25/40	1.0619+N																
	55.405	PN25 PN40	1.4408																

Additional performance for further closing pressures

Fig. 405/460 - ARI-DP

Action: Spring closes the seat on air failure

Nominal diameter				DN	15	20	25	32	40	50	65	80	100	125	150	200	250
Kvs - values					4,2	7,4	12	19	31	47	77	120	188	288	410	725	1145
DP32	Air supply pressure min. (bar)	2,8	Closing press.	bar			40										
			Add. performance				37,-										
		3,2	Closing press.	bar				40	28,9	15,3	6,4	2,7					
			Add. performance					50,-	50,-	50,-	50,-	50,-					
		4,1	Closing press.	bar					40	22,3	10,1	4,9					
			Add. performance						174,-	174,-	174,-	174,-					
DP33		2,7	Closing press.	bar				40 a)	40 a)	23,2 a)	10,8	5,4	1,8				
			Add. performance					65,-	65,-	65,-	65,-	65,-	65,-				
		3,3	Closing press.	bar							13	8	4,7				
			Add. performance								69,-	69,-	69,-				
		4,5	Closing press.	bar						33,5	19,4	12,2	7,4				
			Add. performance							140,-	140,-	140,-	140,-				
DP34		2,7	Closing press.	bar						40 d)	34,5	20,9	11,6	5,7	2,9		
			Add. performance							174,-	174,-	174,-	174,-	174,-	174,-		
		3,3	Closing press.	bar							39,7	25,7	16,2	9,6	5,7	1,9	
			Add. performance								192,-	192,-	192,-	192,-	192,-	192,-	
		4,5	Closing press.	bar							40	37,3	21,3	11,2	8	3,1	1,8
			Add. performance								532,-	532,-	532,-	532,-	532,-	532,-	921,-
DP34T		2,9	Closing press.1)	bar										13,6	7,6	2,1	
			Add. performance											228,-	228,-	228,-	
		3,5	Closing press.1)	bar										21,5	13,3	5,5	
			Add. performance											362,-	362,-	362,-	
		4,5	Closing press.1)	bar										25,7	17,8	7,9	4,9
			Add. performance											1.068,-	1.068,-	1.068,-	1.839,-
DP34Tri		2,9	Closing press.1)	bar										21,7 b)	12,5 b)	4 b)	2,4 b)
			Add. performance											296,-	296,-	296,-	468,-
		3,5	Closing press.1)	bar										33,6 a)	21 a)	9 a)	5,7 a)
			Add. performance											417,-	417,-	417,-	704,-
		4,5	Closing press.1)	bar										40 a)	27,8 a)	12,6 a)	8 a)
			Add. performance											1.386,-	1.386,-	1.386,-	1.398,-

Special design		Additional performance												
Nominal diameter	DN	15	20	25	32	40	50	65	80	100	125	150	200	250
Stem-/bellows unit Fig.23./35.460		474,-	474,-	532,-	532,-	551,-	551,-	573,-	625,-	663,-	728,-	789,-	1.503,-	1.503,-
Stem-/bellows unit Fig. 55.460		1.602,-	1.602,-	1.631,-	1.631,-	1.670,-	1.670,-	1.746,-	1.769,-	1.887,-	1.994,-	2.680,-	on request	
Trim X6CrNiMoTi17-12-2 (1.4571) 3)		104,-	104,-	114,-	121,-	134,-	168,-	197,-	234,-	285,-	364,-	592,-	1.207,-	2.060,-
Plug with PTFE-soft seal max. 200°C		60,-	60,-	74,-	86,-	86,-	88,-	101,-	113,-	123,-	145,-	172,-	368,-	542,-
Butt weld ends (only available for Fig. 35.405/460)		145,-	145,-	145,-	174,-	174,-	197,-	248,-	309,-	439,-	619,-	883,-	1.251,-	1.682,-

Air supply pressure: max. 6 bar (ARI-DP34Tri: 5 bar) a) 5 bar b) 4,5 bar c) 4 bar d) 3,5 bar e) 3 bar f) 2,5 bar

Additional performance for special design and accessories of actuators - refer to pages 54 to 58 Larger nominal diameters on page 144.

Special flange drillings by agreement (refer to page 220)

1) DN125-150 with PTFE-packing

2) Base price (refer to "Additional performance for further closing pressures")

3) Standard for body in 1.4408

Further closing pressures refer to data sheet

Pneumatic actuated stop valve in straight through form

Body: EN-JS1049 / 1.0619+N
Trim: X20Cr13+QT (1.4021+QT)
Stem sealing: PTFE-packing -10 ...+250 °C
Further designs up to +450°C acc. to data sheet
Flow characteristic: Open / close

Actuators: ARI-DP single acting pneumatic actuators
Action: Spring closes / opens the seat on air failure

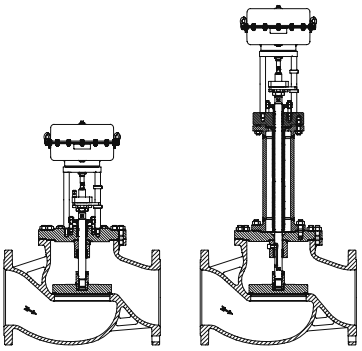


Fig. ...405 Fig. ...460
ARI-DP

Nominal diameter						DN	300	350	400	500
Kvs - values				standard			1635	2220	3180	4530
DP34	Spring opens		Air supply press. min (bar)	4	Closing press. (bar)		1,3			
				6			3,4			
Fig. No. 22.405		PN16	EN-JS1049				on request			
Fig. No. 35.405		PN25/40	1.0619+N				on request			
DP34T	Spring opens		Air supply press. min (bar)	3	Closing press. (bar)		2,2			
				6 [1]			8,5			
Fig. No. 22.405		PN16	EN-JS1049				on request			
Fig. No. 35.405		PN25/40	1.0619+N				on request			
DP35	Spring closes (1,8 - 3,8)		Air supply press. min (bar)	4,3	Closing press. (bar)		7,8	4,9	3,7	1,9
Fig. No. 22.405		PN16	EN-JS1049				on request			
Fig. No. 35.405		PN25/40	1.0619+N				on request			

Special design	Additional performance
Nominal diameter DN	300 / 350 / 400 / 500
Stem-/bellows unit Fig. 22./35.460	on request
Trim X6CrNiMoTi17-12-2 (1.4571)	
Plug with PTFE-soft seal max. 200 °C	
Butt weld ends only for Fig. 35.405/460	

Air supply pressure max. 6 bar

Add. performance for special designs and accessories of actuators - refer to pages 54 to 58

[1] Strengthened actuator version

Electric actuated stop valve in straight through form

Body: EN-JL1040 / EN-JS1049 / 1.0619+N /1.4408

Trim: Body in EN-JL1040 / EN-JS1049 / 1.0619+N: X20Cr13+QT (1.4021+QT)
Body in 1.4408: X6CrNiMoTi17-12-2 (1.4571)

Stem sealing: DN15-150: spring loaded PTFE-V-ring unit -10 ...+220 °C
DN200-250: PTFE-packing -10 ...+250 °C
Further designs up to +450°C acc. to data sheet

Flow characteristic: Open / close

Actuators: ARI-PREMIO®

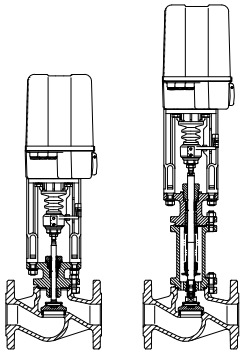


Fig. ...405 Fig. ...460
ARI-PREMIO®

Nominal diameter				DN	15	20	25	32	40	50	65	80	100	125	150	200	250
Kvs - values					4,2	7,4	12	19	31	47	77	120	188	288	410	725	1145
PREMIO® 2,2 kN (230V)		Closing pressure		bar	36,2	36,2	21,6	14,8	7,1	3,5	1,1						
		Operating time		s	11	13	18	21	26	34	45						
Fig. No.	12.405	PN16	EN-JL1040		1.581,-	1.592,-	1.628,-	1.660,-	1.737,-	1.802,-	1.969,-						
	23.405	PN16/25	EN-JS1049		1.661,-	1.704,-	1.730,-	1.820,-	1.898,-	2.005,-	2.187,-						
	35.405	PN25/40	1.0619+N		2.035,-	2.063,-	2.080,-	2.211,-	2.364,-	2.507,-	2.876,-						
	55.405	PN25/40	1.4408		2.380,-	2.433,-	2.473,-	2.874,-	2.915,-	3.189,-	4.174,-						
PREMIO® 5 kN (100-240V)		Closing pressure		bar	40	40	40	40	26,2	15,9	8,6	5,1	2,8	1,3			
		Operating time		s	11	13	18	21	26	34	45	53	66	84			
Fig. No.	12.405	PN16	EN-JL1040		1.876,-	1.887,-	1.923,-	1.955,-	2.032,-	2.097,-	2.264,-	2.467,-	2.714,-	3.334,-			
	23.405	PN16/25	EN-JS1049		1.956,-	1.999,-	2.025,-	2.115,-	2.193,-	2.300,-	2.482,-	2.714,-	3.063,-	3.839,-			
	35.405	PN25/40	1.0619+N		2.330,-	2.358,-	2.375,-	2.506,-	2.659,-	2.802,-	3.171,-	3.634,-	4.167,-	5.216,-			
	55.405	PN25/40	1.4408		2.675,-	2.728,-	2.768,-	3.169,-	3.210,-	3.484,-	4.469,-	5.668,-	7.288,-	9.410,-			
PREMIO® 12 kN (100-240V)		Closing pressure		bar					40	40	27,5	17,7	11	6,6	4,3	2	1,1
		Operating time		s					26	34	45	53	66	84	100	132	171
Fig. No.	12.405	PN16	EN-JL1040						2.554,-	2.619,-	2.786,-	2.989,-	3.236,-	3.856,-	4.408,-	6.592,-	9.162,-
	23.405	PN16 PN25	EN-JS1049						2.715,-	2.822,-	3.004,-	3.236,-	3.585,-	4.361,-	5.100,-	8.112,-	12.925,-
	35.405	PN25/40	1.0619+N						3.181,-	3.324,-	3.693,-	4.156,-	4.689,-	5.738,-	6.909,-	10.228,-	16.112,-
	55.405	PN25 PN40	1.4408						3.732,-	4.006,-	4.991,-	6.190,-	7.810,-	9.932,-	11.637,-	25.826,-	40.476,-
																on request	
PREMIO® 15 kN (100-240V)		Closing pressure		bar							35,6	23,1	14,5	8,9	5,9	2,9	1,7
		Operating time		s							45	53	66	84	100	132	171
Fig. No.	12.405	PN16	EN-JL1040								2.998,-	3.201,-	3.448,-	4.068,-	4.620,-	6.804,-	9.374,-
	23.405	PN16 PN25	EN-JS1049								3.216,-	3.448,-	3.797,-	4.573,-	5.312,-	8.324,-	13.137,-
	35.405	PN25/40	1.0619+N								3.905,-	4.368,-	4.901,-	5.950,-	7.121,-	10.440,-	16.324,-
	55.405	PN25 PN40	1.4408								5.203,-	6.402,-	8.022,-	10.144,-	11.849,-	26.035,-	40.685,-
																on request	
PREMIO® 25 kN (100-240V)		Closing pressure		bar										16,5	11,2	5,9	3,6
		Operating time		s										84	100	132	171
Fig. No.	12.405	PN16	EN-JL1040											4.922,-	5.474,-	7.658,-	10.228,-
	23.405	PN16 PN25	EN-JS1049											5.427,-	6.166,-	9.178,-	13.991,-
	35.405	PN25/40	1.0619+N											6.804,-	7.975,-	11.294,-	17.178,-
	55.405	PN25 PN40	1.4408											10.998,-	12.703,-	27.641,-	41.517,-
																on request	
Special design					Additional performance												
Nominal diameter				DN	15	20	25	32	40	50	65	80	100	125	150	200	250
Stem-/bellows unit Fig.23./35.460					474,-	474,-	532,-	532,-	551,-	551,-	573,-	625,-	663,-	728,-	789,-	1.503,-	1.503,-
Stem-/bellows unit Fig. 55.460					1.602,-	1.602,-	1.631,-	1.631,-	1.670,-	1.670,-	1.746,-	1.769,-	1.887,-	1.994,-	2.680,-	on request	
Trim X6CrNiMoTi17-12-2 (1.4571) [1]					104,-	104,-	114,-	121,-	134,-	168,-	197,-	234,-	285,-	364,-	592,-	1.207,-	2.060,-
Plug with PTFE-soft seal max. 200 °C					60,-	60,-	74,-	86,-	86,-	88,-	101,-	113,-	123,-	145,-	172,-	368,-	542,-
Butt weld ends only for Fig. 35.405/460					145,-	145,-	145,-	174,-	174,-	197,-	248,-	309,-	439,-	619,-	883,-	1.251,-	1.682,-

Supply voltages, add. performance for special designs and accessories of actuators - see page 61
Special flange drillings by agreement (refer to page 220)
[1] Standard for body in 1.4408
Further closing pressures refer to data sheet

Electric actuated stop valve in straight through form

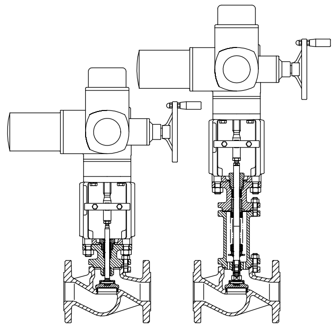


Fig. ...405 Fig. ...460
AUMA

Body: EN-JL1040 / EN-JS1049 / 1.0619+N / 1.4408

Trim: Body in EN-JL1040 / EN-JS1049 / 1.0619+N: X20Cr13+QT (1.4021+QT)
Body in 1.4408: X6CrNiMoTi17-12-2 (1.4571)

Stem sealing: DN15-150 spring loaded PTFE-V-ring unit -10 ...+220 °C
DN200-250 PTFE-packing -10 ...+250 °C
Further designs up to +450°C acc. to data sheet

Flow characteristic: Open / close

Actuators: AUMA

Supply voltage: 400V 50Hz 3~ Protection class: IP 68

Nominal diameter			**DN**	**15**	**20**	**25**	**32**	**40**	**50**	**65**	**80**	**100**	**125**	**150**	**200**	**250**
Kvs - values				**4,2**	**7,4**	**12**	**19**	**31**	**47**	**77**	**120**	**188**	**288**	**410**	**725**	**1145**
AUMA SA 07.2	Closing pressure		bar	40	40	40	40	40	40	39,7	25,8	16,3	10	6,7		
	Operating time		s	11	13	19	21	27	35	16	19	23	30	36		
Fig. No.	12.405	PN16	EN-JL1040	3.520,-	3.531,-	3.567,-	3.599,-	3.676,-	3.741,-	3.908,-	4.111,-	4.358,-	4.978,-	5.530,-		
	23.405	PN16/25	EN-JS1049	3.600,-	3.643,-	3.669,-	3.759,-	3.837,-	3.944,-	4.126,-	4.358,-	4.707,-	5.483,-	6.222,-		
	35.405	PN25/40	1.0619+N	3.974,-	4.002,-	4.019,-	4.150,-	4.303,-	4.446,-	4.815,-	5.278,-	5.811,-	6.860,-	8.031,-		
	55.405	PN25/40	1.4408	4.319,-	4.372,-	4.412,-	4.813,-	4.854,-	5.128,-	6.113,-	7.312,-	8.932,-	11.054,-	12.759,-		
AUMA SA 07.6	Closing pressure		bar							40	37,3	23,8	14,9	10,1	5,3	3,3
	Operating time		s							13	15	19	24	29	38	49
Fig. No.	12.405	PN16	EN-JL1040							4.008,-	4.211,-	4.458,-	5.078,-	5.630,-	7.814,-	10.384,-
	23.405	PN16 PN25	EN-JS1049							4.226,-	4.458,-	4.807,-	5.583,-	6.322,-	9.334,-	14.147,-
	35.405	PN25/40	1.0619+N							4.915,-	5.378,-	5.911,-	6.960,-	8.131,-	11.450,-	17.334,-
	55.405	PN25 PN40	1.4408							6.213,-	7.412,-	9.032,-	11.154,-	12.859,-	27.015,- on request	41.664,-
AUMA SA 10.2	Closing pressure		bar								40	28,3	26,5	18,3	12,3	7,9
	Operating time		s								15	19	24	29	38	49
Fig. No.	12.405	PN16	EN-JL1040								5.024,-	5.271,-	5.891,-	6.443,-	8.627,-	11.197,-
	23.405	PN16 PN25	EN-JS1049								5.271,-	5.620,-	6.396,-	7.135,-	10.147,-	14.960,-
	35.405	PN25/40	1.0619+N								6.191,-	6.724,-	7.773,-	8.944,-	12.263,-	18.147,-
	55.405	PN25 PN40	1.4408								8.225,-	9.845,-	11.967,-	13.672,-	27.804,- on request	42.451,-
AUMA SA 14.2	Closing pressure [1]		bar										40	39,3	22	14,2
	Operating time		s										20	24	31	41
Fig. No.	12.405	PN16	EN-JL1040										7.843,-	8.395,-	10.579,-	13.149,-
	23.405	PN16 PN25	EN-JS1049										8.348,-	9.087,-	12.099,-	16.912,-
	35.405	PN25/40	1.0619+N										9.725,-	10.896,-	14.215,-	20.099,-
	55.405	PN25 PN40	1.4408										13.919,-	15.624,-	32.061,- on request	44.349,-
AUMA SA 14.6 with LE100.1	Closing pressure [1]		bar											40	29,4	19,1
	Operating time		s											30	39	51
Fig. No.	12.405	PN16	EN-JL1040													15.436,-
	23.405	PN16 PN25	EN-JS1049													19.095,-
	35.405	PN25/40	1.0619+N												16.473,-	22.191,-
	55.405	PN25 PN40	1.4408												32.361,- on request	47.008,-
Special design				**Additional performance**												
Nominal diameter			**DN**	**15**	**20**	**25**	**32**	**40**	**50**	**65**	**80**	**100**	**125**	**150**	**200**	**250**
Stem-/bellows unit Fig.23./35.460				474,-	474,-	532,-	532,-	551,-	551,-	573,-	625,-	663,-	728,-	789,-	1.503,-	1.503,-
Stem-/bellows unit Fig. 55.460				1.602,-	1.602,-	1.631,-	1.631,-	1.670,-	1.670,-	1.746,-	1.769,-	1.887,-	1.994,-	2.680,-	on request	
Trim X6CrNiMoTi17-12-2 (1.4571) [2]				104,-	104,-	114,-	121,-	134,-	168,-	197,-	234,-	285,-	364,-	592,-	1.207,-	2.060,-
Plug with PTFE-soft seal max.200 °C				60,-	60,-	74,-	86,-	86,-	88,-	101,-	113,-	123,-	145,-	172,-	368,-	542,-
Butt weld ends only for Fig. 35.405/460				145,-	145,-	145,-	174,-	174,-	197,-	248,-	309,-	439,-	619,-	883,-	1.251,-	1.682,-

Add. performance for special design and accessories of actuators - see page 64
Larger nominal diameters on page 147
Special flange drillings by agreement (refer to page 220)
Further closing pressures refer to data sheet

[1] DN125-150 with PTFE-packing

[2] Standard for body in 1.4408

Electric actuated stop valve in straight through form

Body: EN-JS1049 / 1.0619+N
Trim: X20Cr13+QT (1.4021+QT)
Stem sealing: PTFE-packing -10 ...+250 °C
Further designs up to +450°C acc. to data sheet
Flow characteristic: Open / close

Actuators: AUMA
Supply voltage: 400 V, 50 Hz 3~ Protection class: IP 68

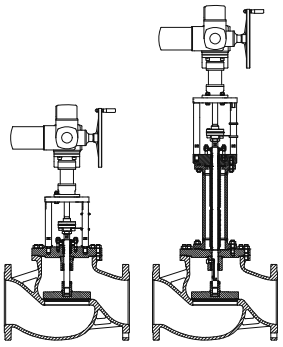


Fig. ...405 Fig. ...460

Nominal diameter				DN	300	350	400	500
Kvs - values			Standard		1635	2220	3180	4530
AUMA SA 07.6 with LE25.1		Closing pressure		bar	1,4			
		Operating time		s	41			
Fig. No.	22.405	PN16	EN-JS1049		on request			
	35.405	PN25/40	1.0619+N					
AUMA SA 10.2 with LE50.1		Closing pressure		bar	3,3	2,3	2	1,2
		Operating time		s	47	41	45	36
Fig. No.	22.405	PN16	EN-JS1049		on request			
	35.405	PN25/40	1.0619+N					
AUMA SA 14.2 with LE70.1		Closing pressure		bar	6,8	4,9	4	2,5
		Operating time		s	40	48	39	45
Fig. No.	22.405	PN16	EN-JS1049		on request			
	35.405	PN25/40	1.0619+N					
AUMA SA 14.6 with LE100.1		Closing pressure		bar	15,4	11,2	8,9	5,6
		Operating time		s	40	48	39	45
Fig. No.	22.405	PN16	EN-JS1049		on request			
	35.405	PN25/40	1.0619+N					
AUMA SA 16.2 with LE200.1		Closing pressure		bar	27,3	20	15,7	10
		Operating time		s	51	42	47	39
Fig. No.	22.405	PN16	EN-JS1049		on request			
	35.405	PN25/40	1.0619+N					

Special design	Additional performance
Stem-/bellows unit Fig.22./35.460	on request
Trim X6CrNiMoTi17-12-2 (1.4571)	
Plug with PTFE-soft seal max.200 °C	
Butt weld ends only for Fig. 35.405/460	

Nominal diameter	DN	300	350	400	500

Add. performance for special designs and accessories of actuators - see page 64

ARI-STEVI®BBD 415

Pneumatic actuated blow down valve in straight through form

Body: 1.0619+N

Trim: X20Cr13+QT (1.4021+QT)

Stem sealing: Spring loaded PTFE-V-ring unit -10 ...+240 °C

Flow characteristic: Open / close

Actuators: Single acting pneumatic actuators

Action: Spring closes the seat on air failure

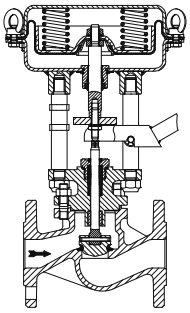


Fig. ...415

Nominal diameter					DN	25	32	40	50
Kvs - values						6,4	6,4	14,7	14,7
Pneumatic actuator	Spring closes	Air supply press. min. (bar)	3	Closing press. (bar)		35	20	25	25
			3,5			40	25	40	35
			4				40		40
Fig. No. 35.415	PN40	1.0619+N				1.421,-	1.626,-	1.820,-	1.856,-

Accessories	
Handlever	244,-
Air-set including gauge 0,5-10 bar incl. fitting	refer to page 56
3/2-way solenoid valve 230V 50Hz, seat-Ø 2,5mm, IP65, Bürkert Type 6014	refer to page 57
3/2-way solenoid valve 230V 50Hz, seat-Ø 2,5mm, IP65, Bürkert Type 6014, incl. digital timer Type 1087	on request

Air supply pressure max. 6 bar

Special flange drillings by agreement (refer to page 220)

ARI-CHECKO®-V

Check valves - metallic sealing

PN 6 / 16 up to 300°C cast iron EN-JL1040
PN 16 / 25 up to 350°C nodular iron EN-JS1049
PN 25 / 40 up to 450°C cast steel 1.0619+N
PN 40 up to 450°C forged steel 1.0460

German "TA-Luft" TÜV-Test-No. TA 09 2016 C04 acc. to EN ISO 15848-1

TRB 801 No. 45 [1] (without 10./12.003)

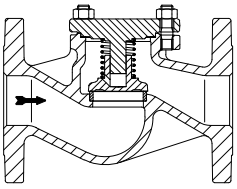


Fig. 10.003 - 35.003

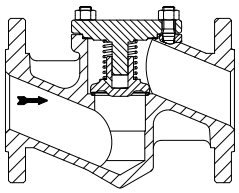


Fig. 45.003

G41		DN																
		15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400	500
EN-JL1040	PN 6 **Straight thr. Fig. 10.003**	119,-	140,-	163,-	187,-	215,-	258,-	358,-	453,-	606,-	944,-	1.202,-	2.767,-					
	PN 16 **Straight thr. Fig. 12.003**	120,-	141,-	164,-	188,-	217,-	267,-	361,-	456,-	610,-	954,-	1.214,-	2.795,-	4.762,-	6.978,-			

G42		DN																
		15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400	500
EN-JS1049	PN 16 **Straight thr. Fig. 22.003**	192,-	217,-	237,-	304,-	345,-	431,-	551,-	665,-	898,-	1.365,-	1.781,-	4.087,-	7.058,-	10.347,-	12.258,-		

G43		DN																
		15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400	500
EN-JS1049	PN 25 **Straight thr. Fig. 23.003**	192,-	217,-	237,-	304,-	345,-	431,-	551,-	665,-	921,-	1.385,-	1.795,-						

I61		DN																
		15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400	500
1.0619+N	PN 25 **Straight thr. Fig. 34.003**	204,-	229,-	251,-	321,-	385,-	458,-	689,-	912,-	1.250,-	1.774,-	2.384,-	4.023,-	7.959,-	12.132,-	19.764,-	26.870,-	34.825,-
	PN 40 **Straight thr. Fig. 35.003**												4.973,-	9.177,-	15.889,-	23.140,-	30.681,-	38.302,-
1.0460	PN 40 **Straight thr. Fig. 45.003**	214,-	230,-	254,-	326,-	410,-	484,-											

Additional performance	DN																
	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400	500
Plug design PTFE (max. 200°C)	50,-	50,-	65,-	72,-	75,-	79,-	84,-	91,-	108,-	112,-	147,-	309,-	448,-	539,-			
Special flange drilling	refer to page 220																

Blow down v. STEVI® BBD 415 / CHECKO®

Design acc. to data sheet (Observe information for critical application.)
Set gauge pressures: 0,1 bar
Angle pattern on request

[1] Additional certification is necessary - acc. to EN 10204-3.1 (for additional costs refer to page 221, 1.1 and 1.2)
Certifications on page 221.

ARI-CHECKO®-V

Check valves - metallic sealing

with butt weld ends

PN 40 up to 450°C cast steel 1.0619+N
PN 40 up to 450°C forged steel 1.0460

German "TA-Luft" TÜV-Test-No. TA 09 2016 C04 acc. to EN ISO 15848-1

TRB 801 No. 45 [1)]

stainless steel with flanges

PN 16 / 25 / 40 up to 400°C
stainless steel 1.4408

German "TA-Luft" TÜV-Test-No. TA 09 2016 C04 acc. to EN ISO 15848-1

TRB 801 No. 45 [1)]

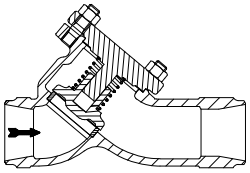


Fig. 35.063

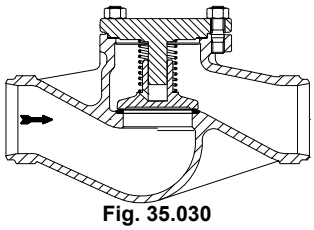


Fig. 35.030

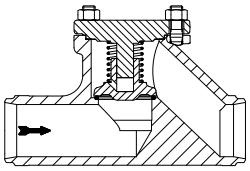


Fig. 45.030

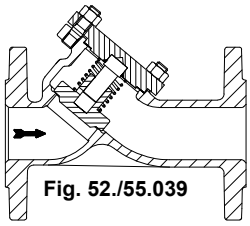


Fig. 52./55.039

I63		DN													
		15	20	25	32	40	50	65	80	100	125	150	200	250	300
1.0619+N	PN 40 - Y-pattern **Fig. 35.063**	225,-	237,-	257,-	340,-	411,-	467,-	712,-	922,-	1.221,-	1.547,-	2.176,-	3.979,-	6.638,-	2)
1.0619+N	PN 40 - Straight thr. **Fig. 35.030**							822,-	1.086,-	1.513,-	2.273,-	3.004,-	6.171,-	8.514,-	2)
1.0460	PN 40 - Straight thr. **Fig. 45.030**	223,-	242,-	264,-	341,-	413,-	496,-								

I62		DN													
		15	20	25	32	40	50	65	80	100	125	150	200	250	300
1.4408	PN 16 - Y-pattern **Fig. 52.039**	350,-	443,-	477,-	605,-	723,-	840,-	1.024,-	1.273,-	1.551,-	3.257,-	4.360,-	8.089,-		Application down to -60°C
1.4408	PN 25 / 40 - Y-pattern **Fig. 55.039**							1.629,-	1.912,-	2.328,-	4.946,-	6.539,-	10.506,-		

Additional performance	DN													
	15	20	25	32	40	50	65	80	100	125	150	200	250	300
Plug design PTFE (max. 200°C)	50,-	50,-	65,-	72,-	75,-	79,-	84,-	91,-	108,-	112,-	147,-	309,-	448,-	
Special flange- or weld-end shaping	refer to page 220													

Set gauge pressures: 0,1 bar

ARI-CHECKO®-D

Wafer pattern check valves - metallic sealing

of stainless steel - clamping version

PN 40 up to 400°C of stainless steel 1.4408

TRB 801 No. 45 [1)]

Application down to -60°C

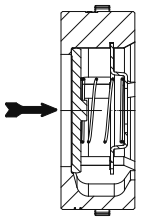


Fig. 55.001

I65		DN														
		15	20	25	32	40	50	65	80	100	125	150	200	250	300	350
1.4408	PN 40 Wafer pattern **Fig. 55.001**	74,-	86,-	114,-	140,-	155,-	192,-	303,-	426,-	559,-	2.143,-	2.638,-	4.684,-	on request		

Additional performance	DN														
	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350
Plug design EPDM (max. 120°C) NBR (max. 80°C) FPM (Viton) (max. 150°C) [3)] PTFE (max. 200°C) [4)]	16,-	16,-	16,-	17,-	17,-	17,-	28,-	34,-	44,-	156,-	180,-	202,-	on request		

Set gauge pressures: 0,02 bar

Certifications on page 221.

Design acc. to data sheet (Observe information for critical application.)

[1)] Up to DN100 additional certification is necessary - acc. to EN 10204-3.1 (for additional costs refer to page 221, 1.1 and 1.2)

[2)] Further DN on request

[3)] FPM (Viton) not suitable for hot water

[4)] From DN125 onwards

ARI-CHECKO®-V PN63/100/160

with flanges and butt weld ends

Check valves - metallic sealing

DN10-50:
up to 450°C forged steel 1.0460 [1)]
up to 530°C high temperature steel 1.5415 [2)]
up to 550°C high temperature steel 1.7335 [2)]

DN65-100:
up to 400°C cast steel 1.0619+N [1)]
up to 530°C high temperature steel 1.7357 [2)]

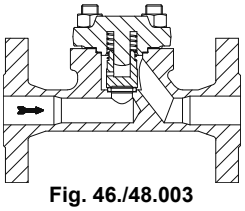


Fig. 46./48.003

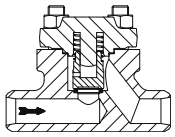


Fig. 48.030

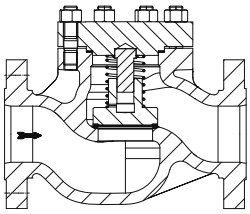


Fig. 38.003

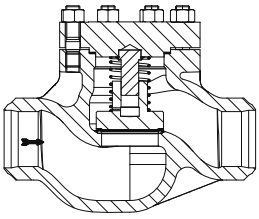


Fig. 38.030

				DN										
				10	15	20	25	32	40		50	65	80	100
Flanges	1.0460	PN 63	Fig. 46.003....40	(PN63 for DN10-40 is covered by PN160)						PN 63	980,-			
		PN 63 / 100 / 160	Fig. 48.003....40	374,-	374,-	421,-	421,-	814,-	814,-	PN 100 / 160	1.099,-			
	1.7335	PN 63	Fig. 86.003....81	(PN63 for DN10-40 is covered by PN160)						PN 63	1.407,-			
		PN 63 / 100 / 160	Fig. 88.003....81	552,-	552,-	616,-	616,-	1.171,-	1.171,-	PN 100 / 160	1.530,-			
	1.0619+N	PN 63 / 100 / 160	Fig. 36./37./38.003....30									1.162,-	1.533,-	1.893,-
	1.7357	PN 63 / 100 / 160	Fig. 86./87./88.003....89									1.950,-	2.176,-	5.494,-
Butt weld ends	1.0460	PN 63 / 100 / 160	Fig. 46./47./48.030....40	369,-	369,-	397,-	397,-	749,-	749,-		1.014,-			
	1.5415	PN 63 / 100 / 160	Fig. 86./87./88.030....80	442,-	442,-	527,-	527,-	946,-	946,-		1.326,-			
	1.7335	PN 63 / 100 / 160	Fig. 86./87./88.030....81	530,-	530,-	569,-	569,-	1.053,-	1.053,-		1.497,-			
	1.0619+N	PN 63 / 100 / 160	Fig. 36./37./38.030....30									1.320,-	1.659,-	2.114,-
	1.7357	PN 63 / 100 / 160	Fig. 86./87./88.030....89									3.691,-	4.375,-	5.906,-

Additional performance	DN										
	10	15	20	25	32	40		50	65	80	100
Special flange drilling / weld end shaping	refer to page 220										

Design acc. to data sheet
Set gauge pressures: 0,15 bar
[1)] Inspection: Final certificate and Material certificate acc.to DIN EN 10204-3.1 is standard.
Further certifications on page 221.
[2)] Inspection: Final certificate acc.to DIN EN 10204-3.1 and Material certificate acc.to DIN EN 10204-3.2 is standard.

ARI-Strainers

PN 6 / 16 up to 300°C cast iron EN-JL1040

PN 16 / 25 up to 350°C nodular iron EN-JS1049

PN 25 / 40 up to 450°C cast steel 1.0619+N

German "TA-Luft" TÜV-Test-No. TA 09 2016 C04 acc. to EN ISO 15848-1

TRB 801 No. 45 [1] (without Fig.10./12.050)

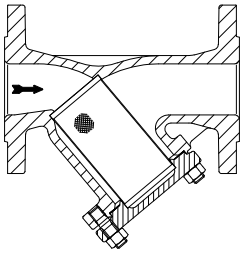


Fig. 10.050-35.050
Y-Pattern

Screen DN15 - DN50 1 mm
Screen DN65 - DN80 1,25 mm
Screen DN100 - DN300 1,6 mm
Fine screen 0,25 mm

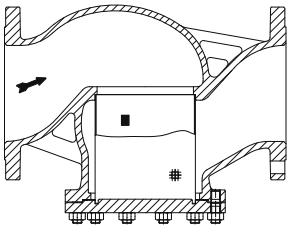


Fig. 22./34./35.050
Straight through

Screen DN250 - DN300 1,6 mm
Screen DN350 - DN500 3 mm
Fine screen DN250 - DN300 0,25 mm
Fine screen DN350 - DN500 0,8 mm

G51		DN																
		15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400	500
EN-JL1040	PN 6 Fig.10.050	44,-	48,-	56,-	67,-	98,-	110,-	164,-	221,-	303,-	506,-	696,-	1.336,-					
	with fine screen	53,-	58,-	69,-	87,-	119,-	136,-	199,-	264,-	373,-	615,-	832,-	1.675,-					
	PN 16 Fig.12.050	46,-	50,-	62,-	73,-	102,-	123,-	179,-	241,-	328,-	552,-	773,-	1.456,-	4.292,-	6.358,-			
	with fine screen	54,-	60,-	74,-	94,-	122,-	148,-	213,-	285,-	400,-	661,-	909,-	1.795,-	4.794,-	7.202,-			

G52		DN																
		15	20	25	32	40	50	65	80	100	125	150	200	250	300	350 [3]	400	500
EN-JS1049	PN 16 Fig.22.050	116,-	124,-	156,-	179,-	252,-	372,-	435,-	588,-	814,-	1.241,-	1.675,-	3.069,-	5.598,-	9.063,-	on request		
	with fine screen	125,-	137,-	167,-	198,-	272,-	396,-	470,-	629,-	885,-	1.350,-	1.812,-	3.410,-	6.098,-	9.907,-			

G53		DN																
		15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400	500
EN-JS1049	PN 25 Fig.23.050	116,-	124,-	156,-	179,-	252,-	372,-	435,-	588,-	933,-	1.472,-	1.996,-						
	with fine screen	125,-	137,-	167,-	198,-	272,-	396,-	470,-	629,-	1.004,-	1.582,-	2.131,-						

I71		DN																
		15	20	25	32	40	50	65	80	100	125	150	200	250 [3]	300 [3]	350 [3]	400 [3]	500 [3]
1.0619+N	PN 40 Fig.35.050	267,-	292,-	312,-	413,-	499,-	597,-	856,-	1.123,-	1.405,-	2.056,-	2.708,-	5.431,-	9.454,-	16.060,-			
	with fine screen	277,-	303,-	324,-	431,-	524,-	620,-	892,-	1.165,-	1.451,-	2.165,-	2.843,-	5.773,-	9.928,-	16.863,-	on request		
	PN 25 Fig.34.050												4.619,-	8.200,-	12.502,-			
	with fine screen												4.956,-	8.672,-	13.305,-			

Additional performance		DN																
		15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400	500
Drain screw	size INCH	3/8	3/8	3/4	3/4	1	1	1	1	1 1/2	1 1/2	1 1/2	2	2	2	on request		
		14,-	14,-	14,-	14,-	19,-	19,-	19,-	19,-	25,-	25,-	25,-	37,-	37,-	37,-			
Supporting basket		19,-	19,-	25,-	25,-	30,-	30,-	37,-	39,-	43,-	54,-	always with supporting basket						
Holes for differential pressure measurement [2]		60,-	60,-	60,-	60,-	60,-	60,-	67,-	67,-	75,-	75,-	172,-	172,-	auf Anfrage				
Bar magnet Tmax. 450°C		456,-	456,-	456,-	456,-	460,-	460,-	460,-	460,-	466,-	466,-	466,-	569,-	720,-	867,-			
Plug screw with magnet Tmax. 210°C		103,-	103,-	103,-	103,-	107,-	107,-	107,-	107,-	112,-	112,-	112,-	123,-	123,-	123,-			
Special flange drilling		refer to page 220																

Design acc. to data sheet
Screens from DN150 onwards with supporting baskets
[1] Additional certification is necessary - acc. to EN 10204-3.1 (for additional costs refer to page 221, 1.1 and 1.2)
[2] Not for all nominal sizes available (on request)
[3] Only in straight through
Certifications on page 221.

ARI-Strainers

with butt weld ends

PN 40 up to 450°C cast steel 1.0619+N

German "TA-Luft" TÜV-Test-No. TA 09 2016 C04 acc. to EN ISO 15848-1

TRB 801 No. 45 [1)]

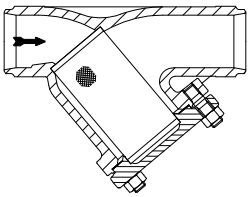


Fig. 35.080

Screen DN15 - DN50 1 mm
Screen DN65 - DN80 1,25 mm
Screen DN100 - DN300 1,6 mm
Fine screen 0,25 mm

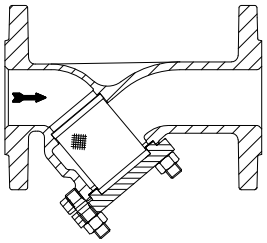


Fig. 52./55.059

Screen DN15 - DN50 1 mm
Screen DN65 - DN80 1,25 mm
Screen DN100 - DN200 1,6 mm
Fine screen 0,25 mm

stainless steel with flanges

PN 16 / 25 / 40 up to 400°C stainless steel 1.4408

German "TA-Luft" TÜV-Test-No. TA 09 2016 C04 acc. to EN ISO 15848-1

TRB 801 No. 45 [1)]

I73		DN													
		15	20	25	32	40	50	65	80	100	125	150	200	250	300
1.0619+N	PN 40 Fig. 35.080	268,-	293,-	312,-	413,-	527,-	598,-	943,-	1.235,-	1.600,-	2.256,-	2.987,-	5.374,-	7.077,-	10.597,-
	with fine screen	278,-	304,-	324,-	431,-	562,-	622,-	978,-	1.277,-	1.671,-	2.366,-	3.124,-	5.715,-	7.582,-	11.447,-

I72		DN													
		15	20	25	32	40	50	65	80	100	125	150	200	250	300
1.4408	PN 16 Fig. 52.059	473,-	557,-	658,-	747,-	925,-	1.062,-	1.283,-	1.560,-	1.926,-	3.219,-	5.147,-	8.188,-	Application down to -60°C	
	with fine screen	501,-	593,-	691,-	787,-	978,-	1.125,-	1.378,-	1.678,-	2.110,-	3.507,-	5.487,-	9.065,-		
	PN 25 / 40 Fig. 55.059	473,-	557,-	658,-	747,-	925,-	1.062,-	1.704,-	2.107,-	2.612,-	4.077,-	5.871,-	11.129,-		
	with fine screen	501,-	593,-	691,-	787,-	978,-	1.125,-	1.797,-	2.222,-	2.798,-	4.363,-	6.209,-	12.004,-		

Additional performance		DN													
		15	20	25	32	40	50	65	80	100	125	150	200	250	300
Drain screw	Size INCH/ weld ends	3/8	3/8	3/4	3/4	1	1	1	1	1 1/2	1 1/2	1 1/2	2	2	2
		14,-	14,-	14,-	14,-	19,-	19,-	19,-	19,-	25,-	25,-	25,-	37,-	37,-	37,-
	Size INCH/ stainless steel	3/8	3/8	3/4	3/4	1	1	1	1	1 1/2	1 1/2	1 1/2	2		
		28,-	28,-	28,-	28,-	34,-	34,-	34,-	34,-	38,-	38,-	38,-	51,-		
Supporting basket	Butt weld ends	19,-	19,-	25,-	25,-	30,-	30,-	37,-	39,-	43,-	54,-	always with supporting basket			
	Stainless steel	36,-	36,-	40,-	40,-	47,-	47,-	57,-	57,-	67,-	73,-				
Holes for differential pressure measurement [2)]		60,-	60,-	60,-	60,-	60,-	60,-	67,-	67,-	75,-	75,-	172,-	172,-	on request	
Bar magnet Tmax. 450°C		456,-	456,-	456,-	456,-	460,-	460,-	460,-	460,-	466,-	466,-	466,-	569,-	720,-	867,-
Plug screw with magnet Tmax. 210°C		103,-	103,-	103,-	103,-	107,-	107,-	107,-	107,-	112,-	112,-	112,-	123,-	123,-	123,-
Special flange- or weld end shaping		refer to page 220													

Design acc. to data sheet
Screens from DN150 onwards with supporting baskets
[1)] Additional certification is necessary - acc. to EN 10204-3.1 (for additional costs refer to page 221, 1.1 and 1.2)
[2)] For Fig. 35.080
Certifications on page 221.

ARI-Strainers PN63/100/160

with flanges and butt weld ends

DN10-50:
up to 450°C forged steel 1.0460 [1)]
up to 550°C high temperature steel 1.7335 [2)]

DN65-100:
up to 400°C cast steel 1.0619+N [1)]
up to 530°C high temperature steel 1.7357 [2)]

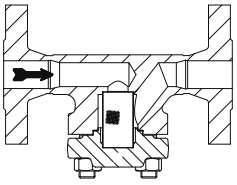


Fig. 46./48.050
screen 1 mm

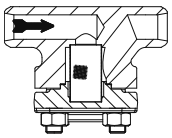


Fig. 48.080
screen 1 mm

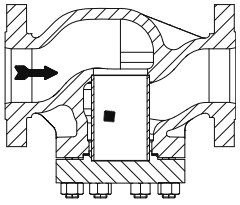


Fig. 38.050

screen DN15 - DN50	1 mm
screen DN65 - DN80	1,25 mm
screen DN100	1,6 mm
fine screen	0,25 mm

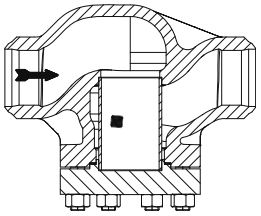


Fig. 38.080

screen DN15 - DN50	1 mm
screen DN65 - DN80	1,25 mm
screen DN100	1,6 mm
fine screen	0,25 mm

				DN									
				10	15	20	25	32	40		50	65	80	100
Flanges	1.0460	PN 63	Fig. 46.050....40	(PN63 for DN10-40 is covered by PN160)						PN 63	1.078,-			
		PN 63 / 100 / 160	Fig. 48.050....40	448,-	448,-	503,-	503,-	894,-	894,-	PN 100 / 160	1.210,-			
	1.7335	PN 63	Fig. 86.050....81	(PN63 for DN10-40 is covered by PN160)						PN 63	1.479,-			
		PN 63 / 100 / 160	Fig. 88.050....81	607,-	607,-	676,-	676,-	1.231,-	1.231,-	PN 100 / 160	1.609,-			
	1.0619+N	PN 63 / 100 / 160	Fig. 36./37./38.050....30									1.337,-	1.764,-	2.177,-
	1.7357	PN 63 / 100 / 160	Fig. 86./87./88.050....89									2.243,-	2.504,-	6.319,-
Butt weld ends	1.0460	PN 63 / 100 / 160	Fig. 46./47./48.080....40	440,-	440,-	477,-	477,-	824,-	824,-		1.114,-			
	1.7335	PN 63 / 100 / 160	Fig. 86./87./88.080....81	581,-	581,-	626,-	626,-	1.106,-	1.106,-		1.571,-			
	1.0619+N	PN 63 / 100 / 160	Fig. 36./37./38.080....30									1.517,-	1.908,-	2.430,-
	1.7357	PN 63 / 100 / 160	Fig. 86./87./88.080....89									4.247,-	5.032,-	6.793,-

Additional performance		DN										
		10	15	20	25	32	40		50	65	80	100
Drain screw	size **INCH**	3/8	3/8	3/8	3/8	3/4	3/4		3/4	1	1	1 1/2
		68,-	68,-	68,-	68,-	68,-	68,-		68,-	162,-	162,-	243,-
Special flange drilling / weld end shaping		refer to page 220										

Design acc. to data sheet

[1)] Inspection: Final certificate and Material certificate acc.to DIN EN 10204-3.1 is standard.

Further certifications on page 221.

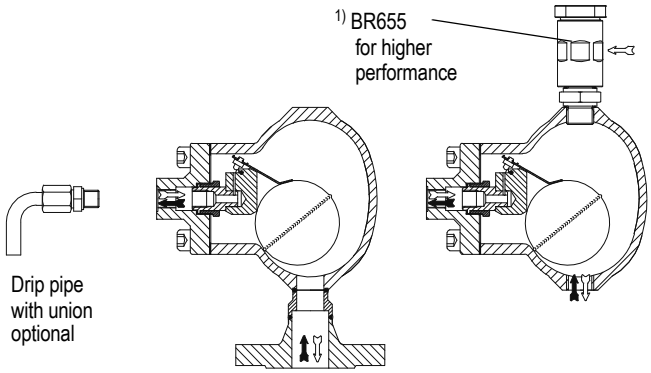
[2)] Inspection: Final certificate acc.to DIN EN 10204-3.1 and Material certificate acc.to DIN EN 10204-3.2 is standard.

Automatic air vents

Automatic air vents for liquid systems

Types of connection:	BR
Flanges (acc. to DIN)	656....1
Screwed sockets (Rp- and NPT)	656....2
Socket-weld ends	656....3
Butt-weld ends	656....4

<u>Standard installation</u>: vertical (Inlet at the bottom)



BR 656....1 **BR 656....2**

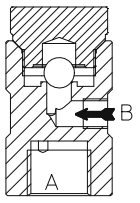
		Figure	Controller	DN - NPS 15 - 1/2"	20 - 3/4"	25 - 1"
PN 16	Cover **1.0460** / Hood **EN-JS1049**	**22.656....240**	**R14**	322,-	--	--
PN 25	Cover **1.0460** / Hood **1.0619+N**	**34.656....140**	**R21**	660,-	660,-	660,-
		34.656....240		567,-	567,-	567,-
		34.656....340 **34.656....440**		615,-	615,-	615,-
	Cover **1.4541** / Hood **1.4308**	**54.656....156**	**R21**	1.129,-	1.129,-	1.129,-
		54.656....256		993,-	993,-	993,-
		54.656....356 **54.656....456**		1.052,-	1.052,-	1.052,-
PN 40	Cover **1.0460** / Hood **1.0619+N**	**35.656....140**	**R21**	780,-	780,-	780,-
		35.656....240		661,-	661,-	661,-
		35.656....340 **35.656....440**		693,-	693,-	693,-
	Cover **1.4541** / Hood **1.4308**	**55.656....156**	**R21**	1.302,-	1.302,-	1.302,-
		55.656....256		1.123,-	1.123,-	1.123,-
		55.656....356 **55.656....456**		1.154,-	1.154,-	1.154,-
1) For higher performance, please order the vacuum breaker (BR655 + connector) additionally.						218,-
Drip pipe (angle) with union joint						28,-
Ball with extended arm (for thermal fluid)						29,-

Design acc. to data sheet
Other materials (incl. ASTM) on request
Other types of connection on request

Special design on page 220 / Certifications on page 221
Pressure-temperature-ratings on page 204 or data sheet
Types of connection on page 205

Vacuum breaker

Types of connection:	BR
Inlet A (Rp 1/2 DIN EN10226-1)	655....2



BR 655....2

		Figure	DPMX bar	TS °C	DN - NPS 15 - 1/2"
PN 16	1.4301	**52.655....253**	**13**	**400**	174,-
PN 40		**55.655....253**	**21**	**220**	174,-

Notes:

ARI-SAFE Fig.901/902/911/912

Safety valves acc. to EN ISO 4126-1, TRD 421 and AD2000-A2
Type test approval TÜV•SV• . . -663•D/G/F
Further approvals: see data sheet

PN 16 up to 300°C cast iron EN-JL1040
PN 40 up to 350°C nodular iron EN-JS1049
PN 40 up to 450°C cast steel 1.0619+N

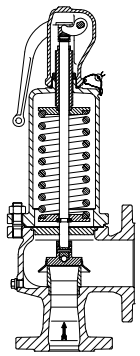


Fig. 12.901 - 35.912

				DN [1]												
					20/32	25/40	32/50	40/65	50/80	65/100	80/125	100/150	125/200	150/250		
PN 16 EN-JL1040	closed bonnet	G62	closed lifting device Fig.12.901		512,-	523,-	628,-	773,-	975,-	1.529,-	2.004,-	2.855,-	3.672,-	5.362,-		
		I91	open lifting device Fig.12.912		476,-	483,-	584,-	724,-	928,-	1.438,-	1.912,-	2.766,-	3.575,-	5.242,-		
			gastight cap Fig.12.911		464,-	465,-	531,-	671,-	879,-	1.372,-	1.847,-	2.693,-	3.507,-	5.003,-		
	open bonnet		open lifting device Fig.12.902		476,-	483,-	584,-	724,-	928,-	1.438,-	1.912,-	2.766,-	3.575,-	5.242,-		
	Set gauge press. (from 0,2 bar) up to max.				16 bar											

				DN												
				15/25	20/32	25/40	32/50	40/65	50/80	65/100	80/125	100/150	125/200	150/250		200/300	250/350
PN 40 EN-JS1049	closed bonnet	I91	closed lifting device Fig.25.901		568,-	578,-	722,-	875,-	1.057,-	1.559,-	2.039,-	2.948,-	3.851,-	5.887,-	PN 25 / PN 40	9.894,-	19.011,-
			open lifting device Fig.25.912		526,-	529,-	637,-	814,-	1.017,-	1.451,-	1.935,-	2.869,-	3.725,-	5.712,-		9.781,-	18.878,-
			gastight cap Fig.25.911		513,-	515,-	618,-	766,-	952,-	1.388,-	1.862,-	2.757,-	3.653,-	5.483,-		9.573,-	18.688,-
	open bonnet		open lifting device Fig.25.902		526,-	529,-	637,-	814,-	1.017,-	1.451,-	1.935,-	2.869,-	3.725,-	5.712,-		9.781,-	18.878,-
	Set gauge press. (from 0,2 bar) up to max.				40 bar						25 bar	24 bar	27 bar	26 bar		25 bar	20 bar
PN 40 1.0619+N	closed bonnet	I91	closed lifting device Fig.35.901	750,-	775,-	782,-	962,-	1.170,-	1.470,-	1.980,-	2.598,-	3.694,-	5.232,-	7.486,-	PN 25 / PN 40	11.724,-	20.164,-
			open lifting device Fig.35.912	729,-	740,-	745,-	916,-	1.126,-	1.424,-	1.896,-	2.512,-	3.614,-	5.149,-	7.391,-		11.611,-	20.034,-
			gastight cap Fig.35.911	714,-	726,-	728,-	867,-	1.072,-	1.374,-	1.823,-	2.443,-	3.545,-	5.078,-	7.164,-		11.362,-	19.773,-
	open bonnet		open lifting device Fig.35.902	729,-	740,-	745,-	916,-	1.126,-	1.424,-	1.896,-	2.512,-	3.614,-	5.149,-	7.391,-		11.611,-	20.034,-
	Set gauge press. (from 0,2 bar) up to max.			40 bar							25 bar	24 bar	27 bar	26 bar		25 bar	20 bar

Additional performance		DN												
		15/25	20/32	25/40	32/50	40/65	50/80	65/100	80/125	100/150	125/200	150/250	200/300	250/350
Seal kit			on request											
Stem unit kit [2]			on request											
Plug unit kit [2]			on request											
Bellows of stainless steel [3]		351,-	356,-	356,-	494,-	592,-	724,-	979,-	1.246,-	1.861,-	2.073,-	3.109,-	4.146,-	4.146,-
Single springs		80,-	80,-	80,-	104,-	172,-	244,-	292,-	467,-	853,-	1.498,-	2.258,-	on request	
Soft sealing disc [4]	EPDM up to 150°C	85,-	103,-	103,-	131,-	144,-	144,-	168,-	219,-	219,-	261,-	303,-	342,-	399,-
	Viton (FPM) up to 180°C	85,-	103,-	103,-	131,-	144,-	144,-	168,-	219,-	219,-	261,-	303,-	342,-	399,-
	Neoprene up to 100°C	85,-	103,-	103,-	131,-	144,-	144,-	168,-	219,-	219,-	261,-	303,-	on request	
	SHR up to 220°C [5]		111,-	111,-	144,-	156,-	156,-	185,-	240,-	240,-	287,-	331,-	376,-	438,-
Proximity switch	Fig. 901/911 [6]	on request												
	Fig. 902/912	on request												
Special flange drilling		refer to page 220												

Design acc. to data sheet

Certifications on page 221.

[1] Additional sizes in 1.0619+N on request
DN40/50 (DN32/50 d_0 29)
DN40/80 (DN40/65 d_0 36)
DN80/100 (DN65/100 d_0 58,5)

[2] Seal kit included

[3] Only Fig. 901, 911: Spring ranges and minimum/maximum set pressures - observe data sheet!

[4] Minimum set pressure - observe data sheet!

[5] SHR soft sealing disc for steam and hot water up to 220°C, type approved acc. to VdTÜV100 by TÜV Nord

[6] Compression proof

Order data: 1. Figure-No.; 2. Nominal diameter (DN); 3. Nominal pressure (PN); 4. Body material; 5. Set gauge pressures; 6. Special design / Accessories

ARI-SAFE Fig.901/911
STAINLESS STEEL

Safety valve acc. to EN ISO 4126-1, TRD 421 and AD2000-A2
Type test approval TÜV•SV• . . -663•D/G/F
Further approvals: see data sheet

PN 40 up to 400°C stainless steel 1.4408

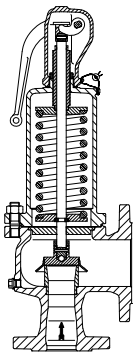


Fig. 55.901/55.911

			DN [1] NEW! from ARI												
			15/25	20/32	25/40	32/50	40/65	50/80	65/100	80/125	100/150	125/200	150/250	200/300	250/350	
PN 40 1.4408	closed bonnet	closed lifting device **Fig.55.901**	1.910,-	2.042,-	2.174,-	3.330,-	3.744,-	4.490,-	6.362,-	8.627,-	12.155,-	17.278,-	25.019,-	40.328,-	46.353,-	Application down to -60°C
		gastight cap **Fig.55.911**	1.740,-	1.850,-	1.956,-	2.996,-	3.398,-	4.166,-	6.028,-	8.290,-	11.827,-	16.812,-	24.371,-	39.679,-	45.704,-	
	Set gauge press. (from 0,2 bar) up to max.		**40 bar**	**32 bar**	**30 bar**	**24 bar**			**19 bar**	**13 bar**	**11 bar**	**17 bar**	**10 bar**	**5,6 bar**	**0,9 bar**	

Additional performances		DN												
		15/25	20/32	25/40	32/50	40/65	50/80	65/100	80/125	100/150	125/200	150/250	200/300	250/350
Seal kit			on request											
Stem unit kit [2] NEW! from ARI			on request											
Plug unit kit [2]			on request											
Bellows of stainless steel [3]		351,-	356,-	356,-	494,-	592,-	724,-	979,-	1.246,-	1.861,-	2.073,-	3.109,-	4.146,-	4.146,-
Single springs		126,-	126,-	130,-	155,-	202,-	301,-	356,-	569,-	1.031,-	on request			
Soft sealing disc [4]	EPDM up to150°C	85,-	103,-	103,-	131,-	144,-	144,-	168,-	219,-	219,-	261,-	303,-	342,-	399,-
	Viton (FPM) up to 180°C	85,-	103,-	103,-	131,-	144,-	144,-	168,-	219,-	219,-	261,-	303,-	342,-	399,-
	Neoprene up to 100°C	85,-	103,-	103,-	131,-	144,-	144,-	168,-	219,-	219,-	261,-	303,-	on request	
	NEW! from ARI SHR up to 220°C [5]		111,-	111,-	144,-	156,-	156,-	185,-	240,-	240,-	287,-	331,-	376,-	438,-
Drain hole with plug		60,-	60,-	60,-	60,-	60,-	60,-	60,-	60,-	60,-	60,-	60,-	60,-	60,-
Proximity switch [6]		on request												
Special flange drilling		refer to page 220												

Design acc. to data sheet

[1] Additional sizes in 1.4408 on request
DN40/50 (DN32/50 d_0 29)
DN40/80 (DN40/65 d_0 36)
DN80/100 (DN65/100 d_0 58,5)

[2] Seal kit included

[3] Spring ranges and minimum/maximum set pressures - observe data sheet!

[4] Minimum set pressure - observe data sheet!

[5] SHR soft sealing disc for steam and hot water up to 220°C, type approved acc. to VdTÜV100 by TÜV Nord

[6] Compression proof

Certifications on page 221.

Order data: 1. Figure-No.; 2. Nominal diameter (DN); 3. Nominal pressure (PN); 4. Body material; 5. Set gauge pressures; 6. Special design / Accessories

ARI-SAFE P Fig.921/922/923/924

Safety valve acc. to EN ISO 4126-1, TRD 421 and AD2000-A2
Type test approval TÜV•SV• . . -811•D/G/F

PN 16 up to 300°C cast iron EN-JL1040
PN 16 up to 350°C nodular iron EN-JS1049
PN 40 up to 450°C cast steel 1.0619+N

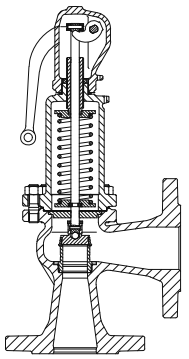


Fig. 12.921 - 35.924

				DN									
				15	20	25	32	40	50	65	80	100	
PN 16 EN-JL1040	closed bonnet	G62	closed lifting device **Fig.12.921**	415,-	424,-	434,-	476,-	526,-	615,-	788,-	948,-	1.354,-	
		I91	open lifting device **Fig.12.922**	375,-	384,-	395,-	435,-	493,-	567,-	747,-	908,-	1.292,-	
			gastight cap **Fig.12.923**	344,-	355,-	365,-	417,-	450,-	551,-	689,-	856,-	1.241,-	
	open bonnet		open lifting device **Fig.12.924**	375,-	384,-	395,-	435,-	493,-	567,-	747,-	908,-	1.292,-	
	Set gauge press. (from 0,2 bar) up to max.			**16 bar**									

				DN										
				15	20	25	32	40	50	65	80	100	125	150
PN 16 EN-JS1049	closed bonnet	I91	closed lifting device **Fig.22.921**										2.115,-	2.891,-
			open lifting device **Fig.22.922**										2.050,-	2.814,-
			gastight cap **Fig.22.923**										1.988,-	2.745,-
	open bonnet		open lifting device **Fig.22.924**										2.050,-	2.814,-
	Set gauge press. (from 0,2 bar) up to max.												**16 bar**	
PN 40 1.0619+N	closed bonnet	I91	closed lifting device **Fig.35.921**	684,-	697,-	707,-	730,-	812,-	981,-	1.241,-	1.599,-	2.381,-	3.535,-	5.020,-
			open lifting device **Fig.35.922**	646,-	660,-	668,-	688,-	778,-	943,-	1.192,-	1.551,-	2.333,-	3.480,-	4.961,-
			gastight cap **Fig.35.923**	618,-	631,-	637,-	661,-	745,-	915,-	1.137,-	1.502,-	2.283,-	3.420,-	4.895,-
	open bonnet		open lifting device **Fig.35.924**	646,-	660,-	668,-	688,-	778,-	943,-	1.192,-	1.551,-	2.333,-	3.480,-	4.961,-
	Set gauge press. (from 0,2 bar) up to max.			**40 bar**										**25 bar**

Additional performance		DN										
		15	20	25	32	40	50	65	80	100	125	150
Seal kit			on request									
Stem unit kit [1] NEW! from ARI			on request									
Plug unit kit [1]			on request									
Bellows of stainless steel [2]		361,-	361,-	361,-	361,-	244,-	507,-	608,-	739,-	1.020,-	on request	
Single springs		76,-	76,-	76,-	76,-	76,-	80,-	104,-	172,-	244,-	on request	
Soft sealing disc [3]	EPDM up to150°C	83,-	100,-	100,-	100,-	100,-	100,-	127,-	140,-	140,-	163,-	213,-
	Viton (FPM) up to 180°C	83,-	100,-	100,-	100,-	100,-	100,-	127,-	140,-	140,-	163,-	213,-
	Neoprene up to 100°C	83,-	100,-	100,-	100,-	100,-	100,-	127,-	140,-	140,-	163,-	213,-
Proximity switch	Fig. 921/923 [4]	on request										
	Fig. 922/924	on request										
Special flange drilling		refer to page 220										

Design acc. to data sheet

[1] Seal kit included

[2] Only Fig. 921, 923: Spring ranges and minimum/maximum set pressures - observe data sheet!

[3] Minimum set pressure - observe data sheet!

[4] Compression proof

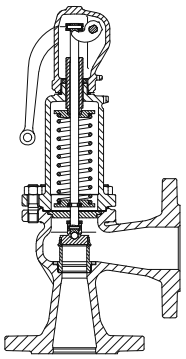
Certifications on page 221.

Order data: 1. Figure-No.; 2. Nominal diameter (DN); 3. Nominal pressure (PN); 4. Body material; 5. Set gauge pressures; 6. Special design / Accessories

ARI-SAFE P Fig.921/923
STAINLESS STEEL

Safety valve acc. to EN ISO 4126-1, TRD 421 and AD2000-A2
Type test approval TÜV•SV• . . -811•D/G/F
Further approvals: see data sheet

PN 40 up to 400°C stainless steel 1.4408



SAFE P

Fig. 55.921/55.923

			DN									
			15	20	25	32	40	50	65	80	100	
PN 40 1.4408	closed bonnet	closed lifting device **Fig.55.921**	1.577,-	1.593,-	1.673,-	2.062,-	2.311,-	2.658,-	3.875,-	4.451,-	6.807,-	Application down to -60°C
		gastight cap **Fig.55.923**	1.386,-	1.399,-	1.466,-	1.842,-	2.101,-	2.447,-	3.544,-	4.092,-	6.453,-	
	Set gauge press. (from 0,2 bar) up to max.		**40 bar**					**30 bar**			**25 bar**	

Additional performances		DN									
		15	20	25	32	40	50	65	80	100	
Seal kit			on request								
Stem unit kit [1] NEW! from ARI			on request								
Plug unit kit [1]			on request								
Bellows of stainless steel [2]		361,-	361,-	361,-	361,-	400,-	507,-	608,-	739,-	1.020,-	
Single springs		126,-	126,-	126,-	126,-	126,-	130,-	155,-	202,-	301,-	
Soft sealing disc [3]	EPDM up to150°C	83,-	100,-	100,-	100,-	100,-	100,-	127,-	140,-	140,-	
	Viton (FPM) up to 180°C	83,-	100,-	100,-	100,-	100,-	100,-	127,-	140,-	140,-	
	Neoprene up to 100°C	83,-	100,-	100,-	100,-	100,-	100,-	127,-	140,-	140,-	
Proximity switch [4]		on request									
Special flange drilling		refer to page 220									

Design acc. to data sheet

[1] Seal kit included

[2] Spring ranges and minimum/maximum set pressures - observe data sheet!

[3] Minimum set pressure - observe data sheet!

[4] Compression proof

Certifications on page 221.

Order data: 1. Figure-No.; 2. Nominal diameter (DN); 3. Nominal pressure (PN); 4. Body material; 5. Set gauge pressures; 6. Special design / Accessories

Notes:

ARI-SAFE-TC Fig.941/942/943

Safety valves acc. to EN ISO 4126-1, TRD 421 and AD2000-A2

Type test approval TÜV•SV• . . -995•D/G/F

PN 40 -10°C up to 350°C nodular iron EN-JS1049
PN 40 -60°C up to 400°C stainless steel 1.4408

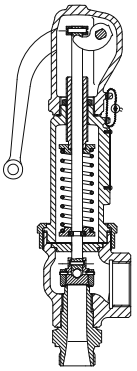


Fig. 25./55.941

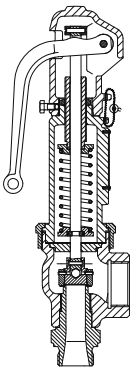


Fig.25.942

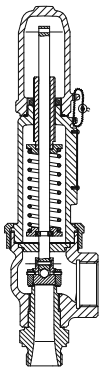


Fig.25./55.943

			DN			
			15	20	25	
			G1/2" x G3/4"	G3/4" x G1"	G1" x G1 1/4" G1" x G1 1/2"	
PN 40 EN-JS1049	closed bonnet	closed lifting device **Fig.25.941**	458,-	490,-	584,-	
		open lifting device **Fig.25.942**	411,-	458,-	544,-	
		gastight cap **Fig.25.943**	383,-	428,-	520,-	
	Set gauge press. (from 0,2 bar) up to max.		**40 bar**			
PN 40 1.4408	closed bonnet	closed lifting device **Fig.55.941**	1.185,-	1.370,-	1.872,-	**Application down to -60°C**
		gastight cap **Fig.55.943**	996,-	1.170,-	1.696,-	
	Set gauge press. (from 0,2 bar) up to max.		**40 bar**			

Additional performance		DN			
		15	20	25	
		G1/2" x G3/4"	G3/4" x G1"	G1" x G1 1/4" G1" x G1 1/2"	
Bellows of stainless steel [1]	Fig.25.941/943	328,-	328,-	328,-	
	Fig.55.941/943	491,-	491,-	491,-	
Single springs		77,-	77,-	83,-	
Springs of stainless steel		127,-	127,-	134,-	
Soft sealing disc [2]	EPDM up to150°C	103,-	103,-	103,-	
	Viton (FPM) up to 180°C	103,-	103,-	103,-	
	Neoprene up to 100°C	103,-	103,-	103,-	
Proximity switch	Fig. 941/943 [3]	on request			
	Fig. 942	on request			
Special thread		refer to page 220			

Design acc. to data sheet

[1] Only Fig. 941 and 943: Spring ranges and minimum/maximum set pressures - observe data sheet!

[2] Minimum set pressure - observe data sheet!

[3] Compression proof

Certifications on page 221.

Order data: 1. Figure-No.; 2. Nominal diameter (DN); 3. Nominal pressure (PN); 4. Body material; 5. Set gauge pressures; 6. Special design / Accessories

ARI-SAFE-TCP Fig.961/962/963

Safety valves acc. to EN ISO 4126-1 and AD2000-A2
Type test approval TÜV•SV• . . -1041•D/G/F

PN 100 -10°C up to 300°C nodular iron EN-JS1049
PN 100 -60°C up to 300°C stainless steel 1.4581

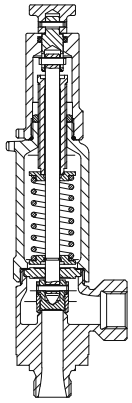


Fig. 67./57.961

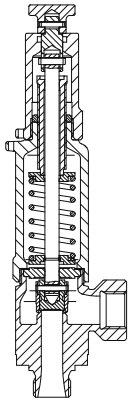


Fig.67.962

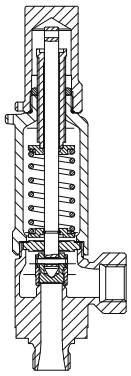


Fig.67./57.963

				DN 1)			
				15	20	25	
				G1/2" x G1/2"	G3/4" x G1/2"	G1" x G1 "	
PN 100 1.4581 / EN-JS1049	closed bonnet	G64	closed lifting device **Fig.67.961**	325,-	345,-	359,-	
		I92	open lifting device **Fig.67.962**	286,-	300,-	311,-	
			gastight cap **Fig.67.963**	253,-	268,-	283,-	
	Set gauge press. (from 0,2 bar) up to max.			**100 bar**			
PN 100 1.4581	closed bonnet	I92	closed lifting device **Fig.57.961**	742,-	782,-	820,-	Application down to -60°C
			gastight cap **Fig.57.963**	635,-	676,-	709,-	
	Set gauge press. (from 0,2 bar) up to max.			**80 bar**			

Additional performance		DN 1)			
		15	20	25	
		G1/2" x G1/2"	G3/4" x G1/2"	G1" x G1 "	
Single springs		76,-	76,-	76,-	
Springs of stainless steel		121,-	121,-	121,-	
Lifting lever (Fig.961/962)		19,-	19,-	19,-	
Soft sealing disc 2) (max. 40 bar)	EPDM up to150°C	103,-	103,-	103,-	
	Viton (FPM) up to 180°C	103,-	103,-	103,-	
	Neoprene up to 100°C	103,-	103,-	103,-	
Special thread		refer to page 220			

Design acc. to data sheet

1) Further connections on request
DN15: G 1/2" x G 3/4"
DN20: G 3/4" x G 3/4"; G3/4" x G1"

2) Minimum set pressure - observe data sheet!

Certifications on page 221.

Order data: 1. Figure-No.; 2. Nominal diameter (DN); 3. Nominal pressure (PN); 4. Body material; 5. Set gauge pressures; 6. Special design / Accessories

ARI-SAFE-TCS Fig.951/952/953

ALSO FOR HORIZONTAL APPLICATION [1)]

Safety valves acc. to EN ISO 4126-1 and AD2000-A2
Type test approval TÜV•SV• . . -1041•D/G/F

PN 100 -10°C up to 300°C nodular iron EN-JS1049
PN 100 -60°C up to 300°C stainless steel 1.4581

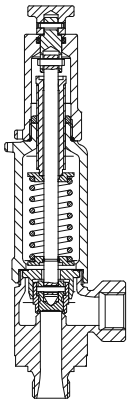


Fig. 67./57.951

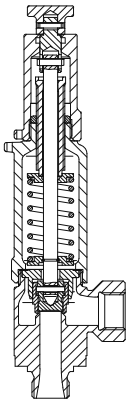


Fig.67.952

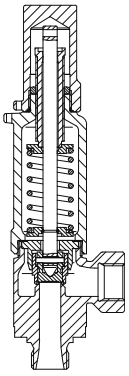


Fig.67./57.953

				DN [2)]			
				15	20	25	
				G1/2" x G1/2"	G3/4" x G1/2"	G1" x G1 "	
PN 100 1.4581 / EN-JS1049	closed bonnet	G64	closed lifting device **Fig.67.951**	325,-	345,-	359,-	SAFE-TCP / SAFE-TCS
		I92	open lifting device **Fig.67.952**	286,-	300,-	311,-	
			gastight cap **Fig.67.953**	253,-	268,-	283,-	
	Set gauge press. (from 0,2 bar) up to max.			**100 bar**			
PN 100 1.4581	closed bonnet	I92	closed lifting device **Fig.57.951**	742,-	782,-	820,-	Application down to -60°C
			gastight cap **Fig.57.953**	635,-	676,-	709,-	
	Set gauge press. (from 0,2 bar) up to max.			**80 bar**			

Additional performance		DN [2)]			
		15	20	25	
		G1/2" x G1/2"	G3/4" x G1/2"	G1" x G1 "	
Single springs		76,-	76,-	76,-	
Springs of stainless steel		121,-	121,-	121,-	
Lifting lever (Fig.951/952)		19,-	19,-	19,-	
Soft sealing disc [3)] (max. 40 bar)	EPDM up to150°C	103,-	103,-	103,-	
	Viton (FPM) up to 180°C	103,-	103,-	103,-	
	Neoprene up to 100°C	103,-	103,-	103,-	
Special thread		refer to page 220			

Design acc. to data sheet

[1)] Mounting position horizontal / vertical up to 5 bar set pressure; please indicate when ordering

[2)] Further connections on request
DN15: G 1/2" x G 3/4"
DN20: G 3/4" x G 3/4"; G3/4" x G1"

[3)] Minimum set pressure - observe data sheet!

Certifications on page 221.

Order data: 1. Figure-No.; 2. Nominal diameter (DN); 3. Nominal pressure (PN); 4. Body material; 5. Set gauge pressures; 6. Special design / Accessories

ARI-SAFE-SN ANSI Fig.901/902/911/912

Safety valves acc. to
ASME Code Section VIII-Division 1.
UV-stamp NB-stamp

TRD 421, EN ISO 4126-1 and AD2000-A2
Type test approval TÜV•SV• . . -663•D/G/F Size 1" x 2" - 6" x 10"

ANSI150/150, ANSI300/150 up to 800°F SA216WCB

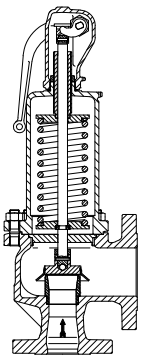


Fig. 32.901 - 35.912

		NPS	1" x 2"	1 1/2" x 2	1 1/2"x 2 1/2"	1 1/2" x 3"	2" x 3"	3" x 4"	4" x 6"	6" x 8"	6" x 10"
		Bodysize	D/E	F	G	H	J	L	M P	Q	R
ANSI150/150 SA 216 WCB	closed bonnet	closed lifting device **Fig.32.901**	805,-	999,-	1.077,-	1.213,-	1.520,-	2.477,-	3.824,-	5.412,-	7.749,-
		open lifting device **Fig.32.912**	775,-	949,-	1.023,-	1.165,-	1.472,-	2.373,-	3.737,-	5.329,-	7.651,-
		gastight cap **Fig.32.911**	747,-	898,-	971,-	1.110,-	1.422,-	2.285,-	3.668,-	5.254,-	7.416,-
	open bonnet	open lifting device **Fig.32.902**	775,-	949,-	1.023,-	1.165,-	1.472,-	2.373,-	3.737,-	5.329,-	7.651,-
	TÜV-type test acc. to EN ISO 4126-1 Set gauge press. (from 0,2 bar) up to max.		**19,6 bar**								
	ASME Code Sect. VIII - Div. 1 Set gauge press. (from 15 psig) up to max.		**285 psig**						**276 psig**	**285 psig**	
ANSI300/150 SA 216 WCB	closed bonnet	closed lifting device **Fig.35.901**	805,-	999,-	1.077,-	1.213,-	1.520,-	2.477,-	3.824,-	5.412,-	7.749,-
		open lifting device **Fig.35.912**	775,-	949,-	1.023,-	1.165,-	1.472,-	2.373,-	3.737,-	5.329,-	7.651,-
		gastight cap **Fig.35.911**	747,-	898,-	971,-	1.110,-	1.422,-	2.285,-	3.668,-	5.254,-	7.416,-
	open bonnet	open lifting device **Fig.35.902**	775,-	949,-	1.023,-	1.165,-	1.472,-	2.373,-	3.737,-	5.329,-	7.651,-
	TÜV-type test acc. to EN ISO 4126-1 Set gauge press. (from 0,2 bar) up to max.		**40 bar**						**24 bar**	**27 bar**	**26 bar**
	ASME Code Sect. VIII - Div. 1 Set gauge press. (from 15 psig) up to max.		**493 psig**					**406 psig**	**276 psig**	**392 psig**	**305 psig**

Additional performance

		NPS	1" x 2"	1 1/2" x 2"	1 1/2"x 2 1/2"	1 1/2" x 3"	2" x 3"	3" x 4"	4" x 6"	6" x 8"	6" x 10"
		Bodysize	D/E	F	G	H	J	L	M P	Q	R
Bellows of stainless steel [1]			356,-	494,-	592,-	724,-	724,-	979,-	1.861,-	2.073,-	3.109,-
Single springs			80,-	104,-	172,-	244,-	292,-	467,-	853,-	1.498,-	2.258,-
Soft sealing disc [2]	EPDM up to 302°F		103,-	131,-	131,-	131,-	144,-	168,-	219,-	261,-	303,-
	Viton (FPM) up to 356°F		103,-	131,-	131,-	131,-	144,-	168,-	219,-	261,-	303,-
	Neoprene (CR) 212°F		103,-	131,-	131,-	131,-	144,-	168,-	219,-	261,-	303,-
	NEW! from ARI SHR up to 428°F [3]		111,-	144,-	144,-	144,-	156,-	156,-	185,-	240,-	287,-
Proximity switch	Fig. 901/911 [4]		on request								
	Fig. 902/912		on request								
Special flange drilling			refer to page 220								

Design acc. to data sheet

[1] Only Fig. 901, 911: Spring ranges and minimum/maximum set pressures - observe data sheet!

[2] Minimum set pressure - observe data sheet!

[3] Application for steam and hot water up to 428°F

[4] Compression proof

Certifications on page 221.

Order data: 1. Figure-No.; 2. Nominal pipe size (NPS); 3. Nominal pressure (Class); 4. Body material; 5. Bodysize; 6. Set gauge pressures; 7. Special design / Accessories

ARI-SAFE-SN ANSI Fig.901/911

STAINLESS STEEL

Safety valves acc. to
ASME Code Section VIII-Division 1.
UV-stamp NB-stamp

TRD 421, EN ISO 4126-1 and AD2000-A2
Type test approval TÜV•SV• . . -663•D/G/F Size 1" x 2" - 6" x 10"

ANSI150/150, ANSI300/150 up to 750°F SA351CF8M

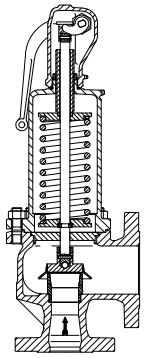


Fig. 52.901 - 55.911

NEW! from ARI

		NPS	1" x 2"	1 1/2" x 2"	1 1/2" x 2 1/2"	1 1/2" x 3"	2" x 3"	3" x 4"	4" x 6"		6" x 8"	6" x 10"
		Bodysize	D/E	F	G	H	J	L	M	P	Q	R
ANSI150/150 SA 351 CF8M	closed bonnet	closed lifting device **Fig.52.901**	2.238,-	3.456,-	3.730,-	3.878,-	4.640,-	7.961,-	12.576,-		17.856,-	25.574,-
		gastight cap **Fig.52.911**	2.020,-	3.124,-	3.397,-	3.534,-	4.319,-	7.627,-	12.248,-		17.339,-	24.473,-
	TÜV-type test acc. to EN ISO 4126-1 set gauge press. (from 0,2 bar) up to max.		**19,6 bar**					**19 bar**	**11 bar**		**17 bar**	**10 bar**
	ASME Code Sect. VIII - Div. 1 set gauge press. (from 15 psig) up to max.		**285 psig**					**276 psig**	**160 psig**		**100 psig**	**80 psig**
ANSI300/150 SA 351 CF8M	closed bonnet	closed lifting device **Fig.55.901**	2.238,-	3.456,-	3.730,-	3.878,-	4.640,-	7.961,-	12.576,-		17.856,-	25.574,-
		gastight cap **Fig.55.911**	2.020,-	3.124,-	3.397,-	3.534,-	4.319,-	7.627,-	12.248,-		17.339,-	24.473,-
	TÜV-type test acc. to EN ISO 4126-1 set gauge press. (from 0,2 bar) up to max.		**30 bar**	**24 bar**				**19 bar**	**11 bar**		**17 bar**	**10 bar**
	ASME Code Sect. VIII - Div. 1 set gauge press. (from 15 psig) up to max.		**435 psig**	**348 psig**				**276 psig**	**160 psig**		**100 psig**	**80 psig**

SAFE-SN ANSI

Additional performance

		NPS	1" x 2"	1 1/2" x 2"	1 1/2" x 2 1/2"	1 1/2" x 3"	2" x 3"	3" x 4"	4" x 6"		6" x 8"	6" x 10"
		Bodysize	D/E	F	G	H	J	L	M	P	Q	R
Bellows of stainless steel [1]			356,-	494,-	592,-	724,-	724,-	979,-	1.861,-		2.073,-	3.109,-
Single springs			130,-	144,-	155,-	155,-	301,-	356,-	1.031,-		on request	
Soft sealing disc [2]	EPDM up to 302°F		103,-	131,-	131,-	144,-	144,-	168,-	219,-		261,-	303,-
	Viton (FPM) up to 356°F		103,-	131,-	131,-	144,-	144,-	168,-	219,-		261,-	303,-
	Neoprene (CR) 212°F		103,-	131,-	131,-	144,-	144,-	168,-	219,-		261,-	303,-
	NEW! from ARI SHR up to 428°F [3]		111,-	144,-	144,-	156,-	156,-	185,-	240,-		287,-	331,-
Proximity switch	Fig. 901/911 [4]		on request									
Special flange drilling			refer to page 220									

Design acc. to data sheet

[1] Only Fig. 901, 911: Spring ranges and minimum/maximum set pressures - observe data sheet!

[2] Application for steam and hot water up to 428°F

[3] Minimum set pressure - observe data sheet!

[4] Compression proof

Certifications on page 221.

Order data: 1. Figure-No.; 2. Nominal pipe size (NPS); 3. Nominal pressure (Class); 4. Body material; 5. Bodysize; 6. Set gauge pressures; 7. Special design / Accessories

ARI-REYCO® R Series Fig.971/973/974

Safety relief valves acc. to API526
ASME Code Section VIII-Division 1.
UV-stamp NB-stamp

Body and bonnet of SA216WCC, Spring of Chrome Alloy

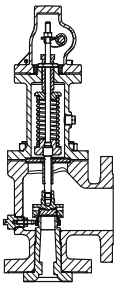


Fig. 35.971

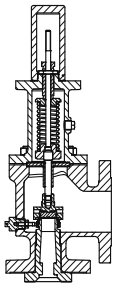


Fig. 35.973

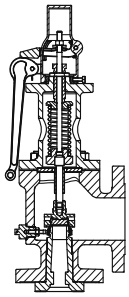


Fig. 35.974

NPS 1" x 2" - 8" x 10"

ANSI150/150, ANSI300L/150,
ANSI300/150, ANSI600/150

Temperature range: up to 343°C / 650°F
(with open bonnet up to 399°C / 750°F)

On request: ANSI900/(150)300, ANSI1500/(150)300, ANSI2500/300

Optional:
Spring of stainless steel or Inconel
up to 427°C / 800°F:
(refer to page 171 Additional performance)

ANSI150/150	NPS	1" x 2"		1 1/2" x 2"	1 1/2" x 3"		2" x 3"	3" x 4"		4" x 6"			6" x 8"		8" x 10"
	Orifice	D	E	F	G	H	J	K	L	M	N	P	Q	R	T
closed bonnet	closed lifting device **Fig.32.971**	1.927,-	1.959,-	2.003,-	2.093,-	2.388,-	2.795,-	3.013,-	3.952,-	5.016,-	5.220,-	6.510,-	8.016,-	8.818,-	15.051,-
	gastight cap **Fig.32.973**	1.528,-	1.561,-	1.575,-	1.670,-	1.933,-	2.398,-	2.556,-	3.476,-	4.539,-	4.642,-	5.558,-	7.066,-	7.913,-	14.497,-
open bonnet	open lifting device **Fig.32.974**	1.680,-	1.712,-	1.779,-	1.874,-	2.149,-	2.653,-	2.864,-	3.866,-	4.929,-	5.124,-	6.196,-	7.739,-	8.588,-	14.840,-
Bellows of Inconel		780,-	780,-	982,-	1.133,-	1.202,-	1.503,-	1.566,-	1.927,-	2.130,-	2.342,-	2.536,-	2.878,-	3.195,-	3.381,-

ANSI300L/150	NPS	1" x 2"		1 1/2" x 2"	1 1/2" x 3"		2" x 3"	3" x 4"		4" x 6"			6" x 8"		8" x 10"
	Orifice	D	E	F	G	H	J	K	L	M	N	P	Q	R	T
closed bonnet	closed lifting device **Fig.35.971(L)**	1.940,-	2.046,-	2.084,-	2.249,-	2.648,-	3.047,-	3.291,-	4.189,-	5.236,-	5.578,-	6.726,-	8.240,-	9.031,-	15.432,-
	gastight cap **Fig.35.973(L)**	1.541,-	1.653,-	1.659,-	1.834,-	2.209,-	2.665,-	2.850,-	3.725,-	4.770,-	5.020,-	5.785,-	7.304,-	8.140,-	14.900,-
open bonnet	open lifting device **Fig.35.974(L)**	1.693,-	1.805,-	1.861,-	2.038,-	2.424,-	2.920,-	3.156,-	4.115,-	5.162,-	5.502,-	6.424,-	7.977,-	8.814,-	15.231,-
Bellows of Inconel		780,-	780,-	982,-	1.133,-	1.202,-	1.503,-	1.566,-	1.927,-	2.130,-	2.342,-	2.536,-	2.878,-	3.195,-	3.381,-

ANSI300/150	NPS	1" x 2"		1 1/2" x 2"	1 1/2" x 3"	2" x 3"	3" x 4"		4" x 6"				6" x 8"	6" x 10"	8" x 10"
	Orifice	D	E	F	G	H	J	K	L	M	N	P	Q	R	T
closed bonnet	closed lifting device **Fig.35.971**	2.039,-	2.065,-	2.167,-	2.333,-	2.704,-	3.182,-	3.432,-	4.232,-	5.370,-	5.855,-	7.281,-	8.709,-	10.107,-	19.145,-
	gastight cap **Fig.35.973**	1.648,-	1.674,-	1.748,-	1.924,-	2.270,-	2.810,-	3.001,-	3.769,-	4.913,-	5.315,-	6.376,-	7.801,-	9.545,-	18.839,-
open bonnet	open lifting device **Fig.35.974**	1.799,-	1.828,-	1.951,-	2.128,-	2.483,-	3.064,-	3.306,-	4.159,-	5.304,-	5.798,-	7.012,-	8.474,-	9.832,-	18.947,-
Bellows of Inconel		780,-	780,-	982,-	1.133,-	1.202,-	1.503,-	1.566,-	1.927,-	2.130,-	2.342,-	2.536,-	2.878,-	3.195,-	3.381,-

ANSI600/150	NPS	1" x 2"		1 1/2" x 2"	1 1/2" x 3"	2" x 3"	3" x 4"		4" x 6"				6" x 8"	6" x 10"
	Orifice	D	E	F	G	H	J	K	L	M	N	P	Q	R
closed bonnet	closed lifting device **Fig.37.971**	2.108,-	2.135,-	2.259,-	2.425,-	3.179,-	3.922,-	4.456,-	4.549,-	5.785,-	6.585,-	8.776,-	10.344,-	11.702,-
	gastight cap **Fig.37.973**	1.722,-	1.748,-	1.847,-	2.022,-	2.771,-	3.595,-	4.088,-	4.105,-	5.355,-	6.090,-	7.959,-	9.531,-	11.151,-
open bonnet	open lifting device **Fig.37.974**	1.874,-	1.902,-	2.051,-	2.224,-	2.986,-	3.849,-	4.394,-	4.495,-	5.745,-	6.572,-	8.596,-	10.206,-	11.600,-
Bellows of Inconel		780,-	780,-	982,-	1.133,-	1.202,-	1.503,-	1.566,-	1.927,-	2.130,-	2.342,-	2.536,-	2.878,-	3.195,-

Design acc. to data sheet
Additional performance on page 171.
Certifications on page 221.

Order data: 1. Figure-No.; 2. Nominal pipe size (NPS); 3. Nominal pressure (Class); 4. Body material; 5. Orifice; 6. Set gauge pressures; 7. Special design / Accessories

ARI-REYCO® R Series Fig.971/973/974

Safety relief valves acc. to API526
ASME Code Section VIII-Division 1.
UV-stamp NB-stamp

Body and bonnet of SA217WC6
Spring of Inconel

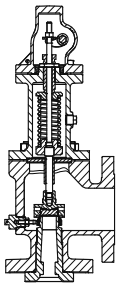


Fig. 35.971

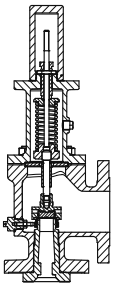


Fig. 35.973

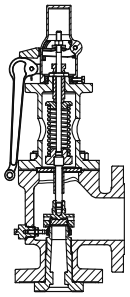


Fig. 35.974

NPS 1" x 2" - 8" x 10"

ANSI300L/150, ANSI300/150,
ANSI600/150

Temperature range: up to 538°C / 1000°F

On request: ANSI900/(150)300, ANSI1500/(150)300, ANSI2500/300

ANSI300/150	NPS	1" x 2"		1 1/2" x 2"	1 1/2" x 3"	2" x 3"	3" x 4"		4" x 6"				6" x 8"	6" x 10"	8" x 10"
	Orifice	D	E	F	G	H	J	K	L	M	N	P	Q	R	T
closed bonnet	closed lifting device **Fig.35.971**	on request													
	gastight cap **Fig.35.973**	on request													
open bonnet	open lifting device **Fig.35.974**	on request													
Bellows of Inconel		on request													

ANSI600/150	NPS	1" x 2"		1 1/2" x 2"	1 1/2" x 3"	2" x 3"	3" x 4"		4" x 6"				6" x 8"	6" x 10"
	Orifice	D	E	F	G	H	J	K	L	M	N	P	Q	R
closed bonnet	closed lifting device **Fig.37.971**	on request												
	gastight cap **Fig.37.973**	on request												
open bonnet	open lifting device **Fig.37.974**	on request												
Bellows of Inconel		on request												

Design acc. to data sheet
Additional performance on page 171.
Certifications on page 221.

Order data: 1. Figure-No.; 2. Nominal pipe size (NPS); 3. Nominal pressure (Class); 4. Body material; 5. Orifice; 6. Set gauge pressures; 7. Special design / Accessories

ARI-REYCO® R Series Fig.971/973

Safety relief valves acc. to API526
ASME Code Section VIII-Division 1.
UV-stamp NB-stamp

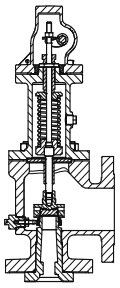


Fig. 55.971

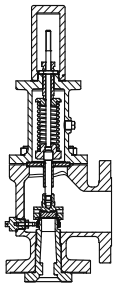


Fig. 55.973

Body and bonnet of SA351CF8M
Spring of Stainless Steel

NPS 1" x 2" - 8" x 10"

ANSI150/150, ANSI300L/150,
ANSI300/150, ANSI600/150

Temperature range: up to 427°C / 800°F

On request: ANSI900/(150)300, ANSI1500/(150)300, ANSI2500/300

Optional: Spring of Inconel
up to 538°C / 1000°F
(refer to page 171 Additional performance)

ANSI150/150	NPS	1" x 2"		1 1/2"x2"	1 1/2" x 3"		2" x 3"	3" x 4"		4" x 6"			6" x 8"		8" x 10"
	Orifice	D	E	F	G	H	J	K	L	M	N	P	Q	R	T
closed bonnet	closed lifting device **Fig.52.971**	4.989,-	5.020,-	5.069,-	5.196,-	5.828,-	6.734,-	7.598,-	9.380,-	11.227,-	12.091,-	14.066,-	17.077,-	19.417,-	30.788,-
	gastight cap **Fig.52.973**	4.473,-	4.505,-	4.518,-	4.648,-	5.227,-	6.168,-	6.960,-	8.663,-	10.442,-	11.199,-	12.719,-	15.640,-	17.977,-	29.322,-
Bellows of Inconel		780,-	780,-	982,-	1.133,-	1.202,-	1.503,-	1.566,-	1.927,-	2.130,-	2.342,-	2.536,-	2.878,-	3.195,-	3.381,-

ANSI300L/150	NPS	1" x 2"		1 1/2"x2"	1 1/2" x 3"		2" x 3"	3" x 4"		4" x 6"			6" x 8"		8" x 10"
	Orifice	D	E	F	G	H	J	K	L	M	N	P	Q	R	T
closed bonnet	closed lifting device **Fig.55.971(L)**	4.998,-	5.111,-	5.152,-	5.362,-	5.984,-	6.860,-	7.738,-	9.628,-	11.457,-	12.471,-	14.292,-	17.317,-	19.642,-	31.192,-
	gastight cap **Fig.55.973(L)**	4.483,-	4.597,-	4.602,-	4.812,-	5.383,-	6.294,-	7.098,-	8.910,-	10.677,-	11.576,-	12.947,-	15.878,-	18.204,-	29.725,-
Bellows of Inconel		780,-	780,-	982,-	1.133,-	1.202,-	1.503,-	1.566,-	1.927,-	2.130,-	2.342,-	2.536,-	2.878,-	3.195,-	3.381,-

ANSI300/150	NPS	1" x 2"		1 1/2"x2"	1 1/2"x 3"	2" x 3"	3" x 4"		4" x 6"				6" x 8"	6" x 10"	8" x 10"
	Orifice	D	E	F	G	H	J	K	L	M	N	P	Q	R	T
closed bonnet	closed lifting device **Fig.55.971**	5.108,-	5.134,-	5.242,-	5.454,-	6.040,-	7.003,-	7.887,-	9.675,-	11.600,-	12.765,-	14.883,-	17.813,-	20.963,-	35.294,-
	gastight cap **Fig.55.973**	4.592,-	4.618,-	4.693,-	4.903,-	5.441,-	6.437,-	7.247,-	8.955,-	10.818,-	11.872,-	13.536,-	16.377,-	19.523,-	33.829,-
Bellows of Inconel		780,-	780,-	982,-	1.133,-	1.202,-	1.503,-	1.566,-	1.927,-	2.130,-	2.342,-	2.536,-	2.878,-	3.195,-	3.381,-

ANSI600/150	NPS	1" x 2"		1 1/2"x2"	1 1/2"x 3"	2" x 3"	3" x 4"		4" x 6"				6" x 8"	6" x 10"
	Orifice	D	E	F	G	H	J	K	L	M	N	P	Q	R
closed bonnet	closed lifting device **Fig.57.971**	5.181,-	5.211,-	5.341,-	5.547,-	6.548,-	7.792,-	8.974,-	10.008,-	12.040,-	13.542,-	16.467,-	19.547,-	21.549,-
	gastight cap **Fig.57.973**	4.667,-	4.693,-	4.789,-	4.997,-	5.948,-	7.227,-	8.334,-	9.288,-	11.259,-	12.646,-	15.122,-	18.109,-	20.113,-
Bellows of Inconel		780,-	780,-	982,-	1.133,-	1.202,-	1.503,-	1.566,-	1.927,-	2.130,-	2.342,-	2.536,-	2.878,-	3.195,-

Design acc. to data sheet
Additional performance on page 171.
Certifications on page 221.

Order data: 1. Figure-No.; 2. Nominal pipe size (NPS); 3. Nominal pressure (Class); 4. Body material; 5. Orifice; 6. Set gauge pressures; 7. Special design / Accessories

ARI-REYCO® R Series Fig.971/973/974

Additional performance

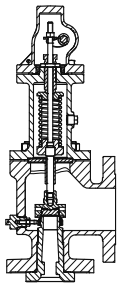


Fig. 971

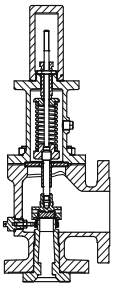


Fig. 973

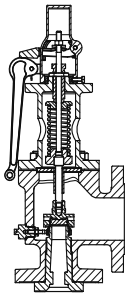


Fig. 974

Additional performance															
Orifice		D	E	F	G	H	J	K	L	M	N	P	Q	R	T
Springs of stainless steel		415,-			565,-	745,-	1.215,-	1.417,-	1.709,-	2.008,-	2.455,-	3.004,-	4.003,-	5.053,-	7.633,-
Spring of Inconel X750		1.241,-			2.418,-	3.188,-	4.241,-	4.495,-	5.271,-	6.020,-	7.362,-	11.064,-	on request		
Disc stellited		413,-				439,-		484,-				592,-			688,-
Nozzle stellited		413,-				439,-		484,-				592,-			688,-
Soft sealing disc	Chemraz -20°F up to 450°F	334,-				529,-			616,-			792,-			1.053,-
	Fluoraz -20°F up to 500°F	334,-				529,-			616,-			792,-			1.053,-
	Kalrez® -20°F up to 550°F	334,-				529,-			616,-			792,-			1.053,-
	BUNA-N -65°F up to 275°F	82,-				93,-			98,-			131,-			177,-
	EPR -65°F up to 325°F	82,-				93,-			98,-			131,-			177,-
	Viton® -65°F up to 400°F	82,-				93,-			98,-			131,-			177,-
	Silicone -150°F up to 450°F	82,-				93,-			98,-			131,-			177,-
Proximity switch	Fig. 971/973 [1)]	973,-			997,-			1.135,-							
	Fig. 974	669,-			694,-			836,-							
Test gag		125,-										210,-			316,-
Bolted cap		254,-										415,-			529,-
Special flange drilling	Inlet - RTJ	247,-		343,-		529,-		624,-		711,-				782,-	
	Inlet - Key type / groove	415,-				529,-		650,-				993,-			1.432,-
	Outlet - Key type / groove	on request													
NACE MR 0175		on request													

Design acc. to data sheet

[1)] Compression proof

Special flange drilling on request

Certifications on page 221.

ARI-REYCO® RL Series Fig.966/968/969

Safety relief valves acc. to ASME Code Section VIII-Division 1.
UV-stamp NB-stamp

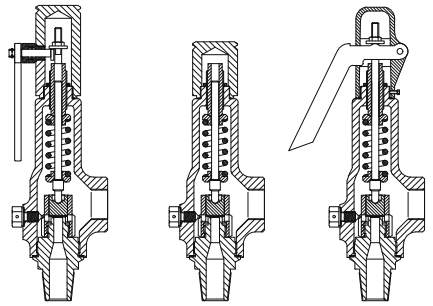


Fig. 39.966 Fig. 39.968 Fig. 39.969

Body and bonnet of SA216WCC, Spring of Chrome Alloy

NPS 1/2" x 1" - 2" x 2", ANSI1500
NPS 3/4" x 2" - 1" x 2", ANSI2500
Temperature range: up to 343°C / 650°F

Optional with flanges:
ANSI150/150, ANSI300/(150)300, ANSI600/(150)300, ANSI900/300, ANSI1500/300, ANSI2500/300 or socket ends, butt-weld ends, page 174 (Additional performance)

Optional: Spring of Inconel up to 399°C / 750°F (refer to page 174 Additional performance)

RL 14 Series		Inlet: Male NPT / Outlet: Female NPT					
ANSI1500	NPS	1/2" x 1"	3/4" x 1"	1" x 1"	1/2" x 1"	3/4" x 1"	1" x 1"
	Orifice (not acc. to API)	A (0,078 in²)			D (0,122 in²)		
closed bonnet	closed lifting device Fig.39.966	745,-	782,-	782,-	745,-	782,-	782,-
	gastight cap Fig.39.968	564,-	564,-	601,-	564,-	564,-	601,-
	open lifting device Fig.39.969	650,-	650,-	687,-	650,-	650,-	687,-

RL 40 Series		Inlet: Female NPT / Outlet: Female NPT			
ANSI1500	NPS	3/4" x 1"	1" x 1 1/2"	1 1/2" x 2"	2" x 2"
	Orifice (not acc. to API)	B (0,152 in²)	C (0,235 in²)	G (0,563 in²)	
closed bonnet	closed lifting device Fig.39.966	983,-	1.506,-	1.548,-	1.669,-
	gastight cap Fig.39.968	652,-	1.175,-	1.215,-	1.339,-
	open lifting device Fig.39.969	810,-	1.332,-	1.376,-	1.494,-

RL 41 Series		Inlet: Female NPT / Outlet: Female NPT	
ANSI2500	NPS	3/4" x 2"	1" x 2"
	Orifice (not acc. to API)	B (0,152 in²)	C (0,235 in²)
closed bonnet	closed lifting device Fig.3c.966	1.471,-	1.630,-
	gastight cap Fig.3c.968	1.140,-	1.299,-
	open lifting device Fig.3c.969	1.299,-	1.456,-

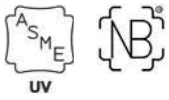
Design acc. to data sheet

Further connections (socket ends / butt-weld ends / flanges) refer to page 174.
Additional performance on page 174.
Certifications on page 221.

Order data: 1. Figure-No.; 2. Nominal pipe size (NPS); 3. Nominal pressure (Class); 4. Body material; 5. Orifice (Area); 6. Set gauge pressures; 7. Special design / Accessories

ARI-REYCO® RL Series Fig.966/968

Safety relief valves acc. to ASME Code Section VIII-Division 1.
UV-stamp NB-stamp



Body and bonnet of SA351CF8M
Spring of Stainless Steel

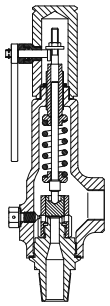


Fig. 59.966

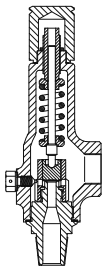


Fig. 59.968

NPS 1/2" x 1" - 2" x 2", ANSI1500
NPS 3/4" x 2" - 1" x 2", ANSI2500
Temperature range: up to 399°C / 750°F

Optional with flanges:
ANSI150/150, ANSI300/(150)300, ANSI600/(150)300, ANSI900/300, ANSI1500/300, ANSI2500/300
or socket ends, butt-weld ends, page 174 (Additional performance)

Optional: Spring of Inconel
up to 399°C / 750°F
(refer to page 174 Additional performance)

RL 14 Series		**Inlet: Male NPT / Outlet: Female NPT**					
ANSI1500	**NPS**	**1/2" x 1"**	**3/4" x 1"**	**1" x 1"**	**1/2" x 1"**	**3/4" x 1"**	**1" x 1"**
Orifice (not acc. to API)		**A (0,078 in²)**			**D (0,122 in²)**		
closed bonnet	closed lifting device **Fig.59.966**	1.190,-	1.190,-	1.249,-	1.190,-	1.190,-	1.249,-
	gastight cap **Fig.59.968**	974,-	974,-	1.102,-	974,-	974,-	1.102,-

RL 40 Series		**Inlet: Female NPT / Outlet: Female NPT**			
ANSI1500	**NPS**	**3/4" x 1"**	**1" x 1 1/2"**	**1 1/2" x 2"**	**2" x 2"**
Orifice (not acc. to API)		**B (0,152 in²)**	**C (0,235 in²)**	**G (0,563 in²)**	
closed bonnet	closed lifting device **Fig.59.966**	2.100,-	3.266,-	3.308,-	3.617,-
	gastight cap **Fig.59.968**	1.769,-	2.938,-	2.979,-	3.289,-

RL 41 Series		**Inlet: Female NPT / Outlet: Female NPT**	
ANSI2500	**NPS**	**3/4" x 2"**	**1" x 2"**
Orifice (not acc. to API)		**B (0,152 in²)**	**C (0,235 in²)**
closed bonnet	closed lifting device **Fig.5c.966**	2.587,-	2.965,-
	gastight cap **Fig.5c.968**	2.414,-	2.793,-

Design acc. to data sheet

Further connections (socket ends / butt-weld ends / flanges) refer to page 174.
Additional performance on page 174.
Certifications on page 221.

Order data: 1. Figure-No.; 2. Nominal pipe size (NPS); 3. Nominal pressure (Class); 4. Body material; 5. Orifice (Area); 6. Set gauge pressures; 7. Special design / Accessories

ARI-REYCO® RL Series Fig.966/968/969

Additional performance

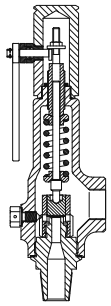


Fig. 39.966

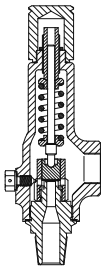


Fig. 39.968

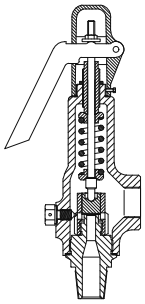


Fig. 39.969

Additional performance				RL 14			RL 40 / RL 41					
NPS				1/2" x 1"	3/4" x 1"	1" x 1"	3/4" x 1"	3/4" x 2"	1" x 1 1/2"	1 1/2" x 2"	1" x 2"	2" x 2"
Orifice (not acc. to API)				A / D (0,078 in² / 0,122 in²)			B / C / G (0,152 in² / 0,235 in² / 0,563 in²)					
Springs of stainless steel				207,-			428,-					
Spring of Inconel				219,-					449,-			
Disc stellited				413,-					439,-			
Nozzle stellited				413,-					439,-			
Soft sealing disc		Chemraz -20°F up to 450°F		334,-								
		Fluoraz -20°F up to 500°F		334,-								
		Kalrez® -20°F up to 550°F		334,-								
		BUNA-N -65°F up to 275°F		82,-								
		EPR -65°F up to 325°F		82,-								
		Viton® -65°F up to 400°F		82,-								
		Silicone -150°F up to 450°F		82,-								
Test gag				125,-								
Cast steel SA216WCC	Male thread NPT (Inlet)			standard			on request					
	Female thread NPT (Inlet or Outlet)			560,-			standard					
	Socket weld end (Inlet or Outlet)			396,-								
	Butt-weld end (Inlet or Outlet)			483,-								
Stainless steel SA351CF8M	Male thread NPT (Inlet)			standard			on request					
	Female thread NPT (Inlet or Outlet)			649,-			standard					
	Socket weld end (Inlet or Outlet)			396,-								
	Butt-weld end (Inlet or Outlet)			483,-								
Cast steel SA216WCC	Flanges	ANSI150/150 RF		on request								
		ANSI300/150 RF										
		ANSI300/300 RF										
		ANSI600/150 RF										
		ANSI600/300 RF										
		ANSI900/300 RF										
		ANSI1500/300 RF										
		ANSI2500/300 RF										
Stainless steel SA351CF8M		ANSI150/150 RF										
		ANSI300/150 RF										
		ANSI300/300 RF										
		ANSI600/150 RF										
		ANSI600/300 RF										
		ANSI900/300 RF										
		ANSI1500/300 RF										
		ANSI2500/300 RF										
Additional to option "Flanges"		Inlet	RTJ	174,-					293,-			
		Outlet	RTJ	on request								
		Inlet	Key type / groove	415,-								
		Outlet	Key type / groove	on request								

Design acc. to data sheet
Special flange drilling on request
Certifications on page 221.

Notes:

ARI-SAFE Combi-C Changeover valve

Suitable for a combination with safety valves.

DN25 - 250

PN 16 - 40 -10°C up to 425°C cast steel 1.0619
PN 16 - 40 -60°C up to 400°C stainless steel 1.4408

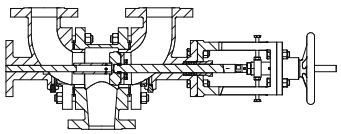


Fig. Z10-22

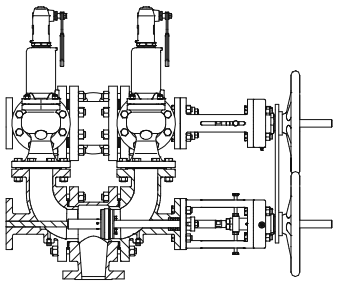


Fig. Z10-24

			DN									
			25	40	50	65	80	100	125	150	200	250
PN 16 - 40 1.0619	Inlet Design Type 60	with gland seal **Fig. Z10-22**	on request									
		with bellows seal **Fig. Z10-21**										
	Inlet/outlet Design Type 69	with gland seal **Fig. Z10-24**										
		with bellows seal **Fig. Z10-23**										
PN 16 - 40 1.4408	Inlet Design Type 60	with gland seal **Fig. Z10-22**	on request									
		with bellows seal **Fig. Z10-21**										
	Inlet/outlet Design Type 69	with gland seal **Fig. Z10-24**										
		with bellows seal **Fig. Z10-23**										

Additional performance	DN									
	25	40	50	65	80	100	125	150	200	250
Bellows seal design Type 60 Fig. Z10-21	on request									
Bellows seal design Type 69 Fig. Z10-23										

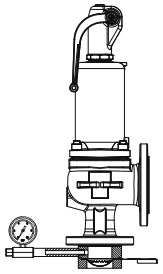
Design acc. to data sheet

ARI-SAFE Combi-R Rupture disc

Suitable for a combination with safety valves.

DN20 - 250
PN 16 - 40

Rupture disc stainless steel 1.4401 / 1.4404
Holder stainless steel 1.4571
Hastelloy, Titanium, Tantalum, Monel, Nickel on request



BT-KUB

			DN										
			20	25	32	40	50	65	80	100	125	150	200	250
PN 16 - 40 1.4401 / 1.4404	Rupture disc Type BT-KUB Holder Type IG-KUB	**BT-KUB**	on request											

Additional performance	DN											
	20	25	32	40	50	65	80	100	125	150	200	250
Excess flow valve unit G 1/4" 1.4404 / 1.4571 [1)]	on request											

Design acc. to data sheet
[1)] Standard execution without manometer

ARI-REYCO® Combi-C Changeover valve

Suitable for a combination with safety valves.

NPS 1" - 10"

ANSI150 - 300 -20°F up to 800°F cast steel SA216WCB
ANSI150 - 300 -300°F up to 1000°F stainless steel SA351CF8M

SA352LCB / SA352LCC on request

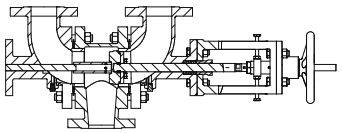


Fig. Z10-22...90

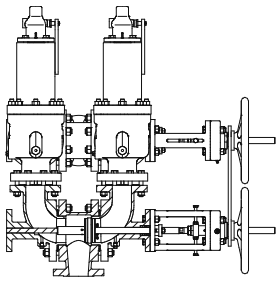


Fig. Z10-24....90

			NPS								
			1"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"	10"
ANSI150 - 300 SA216WCB	Inlet Design Type 60	with gland seal **Fig. Z10-22....90**	on request									
		with bellows seal **Fig. Z10-21....90**										
	Inlet / outlet Design Type 69	with gland seal **Fig. Z10-24....90**										
		with bellows seal **Fig. Z10-23....90**										
ANSI150 - 300 SA351CF8M	Inlet Design Type 60	with gland seal **Fig. Z10-22....90**	on request									
		with bellows seal **Fig. Z10-21....90**										
	Inlet / outlet Design Type 69	with gland seal **Fig. Z10-24....90**										
		with bellows seal **Fig. Z10-23....90**										

Additional performance	NPS									
	1"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"	10"
Bellows seal design Type 60 Fig. Z10-21....90	on request									
Bellows seal design Type 69 Fig. Z10-23....90										

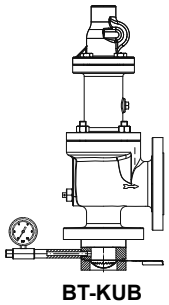
Design acc. to data sheet

ARI-REYCO® Combi-R Rupture disc

Suitable for a combination with safety valves.

ANSI150 - 600
NPS 3/4" - 10"

Rupture disc stainless steel SA479Gr.316L
Holder stainless steel SA479Gr.316L
Hastelloy, Titanium, Tantalum, Monel, Nickel on request



BT-KUB

			NPS								
			3/4"	1"	1 1/2"	2"	3"	4"	5"	6"	8"
ANSI150 - 600 SA479Gr.316L	Rupture disc Type BT-KUB Holder Type IG-KUB	**BT-KUB**	on request								

Additional performance	NPS								
	3/4"	1"	1 1/2"	2"	3"	4"	5"	6"	8"
Excess flow valve unit G 1/4" SA479Gr.316L [1]	on request								

Design acc. to data sheet
[1] Standard execution without manometer

Notes:

Example: Figure-No.-Code

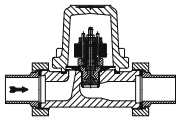
1260000401....

Body material	1. Position
Nominal pressure	2. Position
Type of steam trap	3.-5. Position
Nominal diameter	6.-9. Position
Type of connection	10. Position
Version / Control element	11.-14. Position

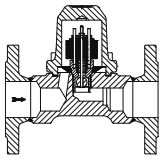
ARI-CONA®B Bimetallic steam traps

For the discharge of condensate sub-cooled between 10 and 30 K

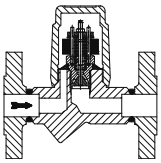
Types of connection:	BR
Flanges (acc. to DIN)	600/601....1
Screwed sockets (Rp- and NPT)	600/601....2
Socket weld ends	600/601....3
Butt weld ends	600/601....4
Union butt-weld ends	600....5



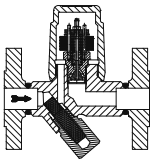
BR 600....5
(inside strainer)



BR 600....1 DN40-50
(inside strainer)



BR 600....1
(inside strainer)



BR 601....1 (outside strainer)
(for add. costs refer to add. perform.)

					DN - NPS				
			Figure	Controller	15 - 1/2"	20 - 3/4"	25 - 1"	40 - 1 1/2"	50 - 2"
PN 16	inside strainer	EN-JL1040	12.600....110	R13	--	--	239,-	--	819,-
			12.600....510		189,-	189,-	--	--	--
PN 40		1.0460	45.600....140	R13 R22 R32	285,-	285,-	285,-	1.048,-	1.119,-
			45.600....240		250,-	250,-	250,-	967,-	992,-
			45.600....340 45.600....440		260,-	260,-	260,-	1.018,-	1.090,-
		1.0571	85.600....177	R13 R22 R32	342,-	342,-	342,-	1.258,-	1.343,-
			85.600....277		300,-	300,-	300,-	1.160,-	1.190,-
			85.600....377 85.600....477		312,-	312,-	312,-	1.222,-	1.308,-
		1.5415	85.600....180	R13 R22 R32	483,-	483,-	483,-	1.412,-	1.581,-
			85.600....280		433,-	433,-	433,-	1.233,-	1.380,-
			85.600....380 85.600....480		441,-	441,-	441,-	1.298,-	1.453,-
		1.4541	55.600....156	R13 R22 R32	581,-	593,-	607,-	2.101,-	2.250,-
			55.600....256		478,-	478,-	478,-	2.051,-	2.199,-
			55.600....356 55.600....456		483,-	483,-	483,-	2.068,-	2.229,-

Additional performance		DN - NPS				
		15 - 1/2"	20 - 3/4"	25 - 1"	40 - 1 1/2"	50 - 2"
Blow down valve with integrated strainer (only BR 601, not EN-JL1040)		48,-	48,-	48,-	134,-	134,-
Ball valve as blow down valve (only BR 601, restricted to 13 bar, 200 °C)		80,-	80,-	80,-	204,-	204,-
Version with outside strainer (not for EN-JL1040)	Figure 45.601 and Figure 85.601	24,-	24,-	24,-	59,-	59,-
	Figure 55.601	24,-	24,-	24,-	87,-	87,-

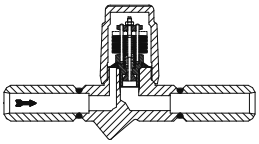
Design acc. to data sheet
Other materials (incl. ASTM) on request
Other types of connection on request

Special design on page 220 / Certifications on page 221
Pressure-temperature-ratings on page 204 or data sheet
Types of connection on page 205

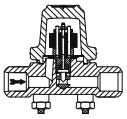
ARI-CONA®B High pressure bimetallic steam traps

For the discharge of condensate sub-cooled between 10 and 30 K

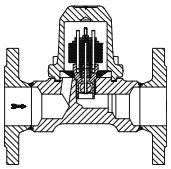
Types of connection:	BR
Flanges (acc. to DIN)	600....1
Socket weld ends	600....3
Butt weld ends	600....4



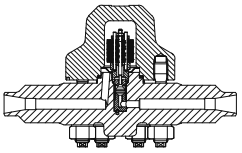
BR 600....4
PN 63 (R46)
(inside strainer)



BR 600....4
PN 63 (R56)- PN 250
(inside strainer)



BR 600....1
PN 63 DN50
(inside stainer)



BR 600....4
PN 320/400/30
(inside strainer)

					DN - NPS				
			Figure	Controller	15 - 1/2"	20 - 3/4"	25 - 1"	40 - 1 1/2"	50 - 2"
PN 63	inside strainer	1.5415	86.600....18064	R46	801,-	801,-	801,-	--	--
			86.600....38064 86.600....48064		743,-	743,-	743,-	--	--
			86.600....18067	R56	1.067,-	1.067,-	1.067,-	2.829,-	2.838,-
			86.600....38067 86.600....48067		992,-	992,-	992,-	1.989,-	2.002,-
PN 100		1.5415	87.600....180	R56 R90	1.709,-	1.709,-	1.709,-	--	--
			87.600....380 87.600....480		1.433,-	1.433,-	1.433,-	--	--
PN 160		1.7335	88.600....181	R130	2.128,-	--	2.128,-	--	--
			88.600....381 88.600....481		1.689,-	1.689,-	1.689,-	--	--
PN 250		1.7380	89.600....182	R150	2.985,-	--	2.985,-	--	--
			89.600....382 89.600....482		2.461,-	2.461,-	2.461,-	--	--
PN 630 / 400 / 320		1.7380	8a./8b.600....182	R270	4.417,-	--	4.417,-	--	--
			8a./8b./8c.600....382 8a./8b./8c.600....482		3.409,-	3.409,-	3.409,-	--	--
		1.4903	8a./8b./8c.600....383 8a./8b./8c.600....483		5.526,-	5.526,-	5.526,-	--	--
		1.4901	8a./8b./8c.600....387 8a./8b./8c.600....487	R320	8.925,-	8.925,-	8.925,-	--	--

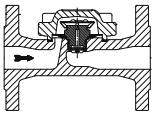
Design acc. to data sheet
Other materials (incl. ASTM) on request
Other types of connection on request

Special design on page 220 / Certifications on page 221
Pressure-temperature-ratings on page 204 or data sheet
Types of connection on page 205

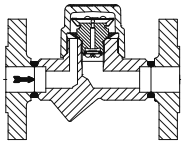
ARI-CONA®M Thermostatic steam traps

For the discharge of condensate sub-cooled up to 40 K

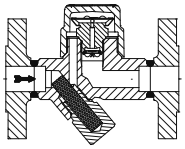
Types of connection:	BR
Flanges (acc. to DIN)	610/612....1
	611/613....1
Screwed sockets (Rp- and NPT)	610/612....2
	611/613....2
Socket weld ends	610/612....3
	611/613....3
Butt weld ends	610/612....4
	611/613....4
Union butt-weld ends	610....5



BR 610....1 PN16
(inside strainer)

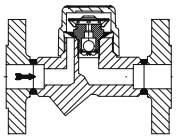


BR 610....1
(inside strainer)

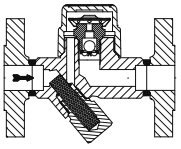


BR 612....1
(outside strainer)

(for add. costs for outside strainer refer to add. perform)



BR 611....1
(inside strainer)



BR 613....1
(outside strainer)

					DN - NPS		
			Figure	Controller	15 - 1/2"	20 - 3/4"	25 - 1"
PN 16	inside strainer	EN-JL1040	12.610....110	R5 R13	--	--	193,-
			12.610....510		167,-	167,-	--
PN 40		1.0460	45.610....140	R5 R22	277,-	277,-	277,-
			45.610....240		234,-	234,-	234,-
			45.610....340 45.610....440		241,-	241,-	241,-
		1.0571	85.610....177	R5 R22	332,-	332,-	332,-
			85.610....277		281,-	281,-	281,-
			85.610....377 85.610....477		289,-	289,-	289,-
		1.4541	55.610....156	R5 R22	539,-	554,-	564,-
			55.610....256		459,-	459,-	459,-
			55.610....356 55.610....456		469,-	469,-	469,-
		1.0460	45.611....140	R32	277,-	277,-	277,-
			45.611....240		234,-	234,-	234,-
			45.611....340 45.611....440		241,-	241,-	241,-
		1.0571	85.611....177	R32	332,-	332,-	332,-
			85.611....277		281,-	281,-	281,-
			85.611....377 85.611....477		289,-	289,-	289,-
		1.5415	85.611....180	R32	389,-	389,-	389,-
			85.611....280		326,-	326,-	326,-
			85.611....380 85.611....480		335,-	335,-	335,-
		1.4541	55.611....156	R32	539,-	554,-	564,-
			55.611....256		459,-	459,-	459,-
			55.611....356 55.611....456		469,-	469,-	469,-

Additional performance		DN - NPS		
		15 - 1/2"	20 - 3/4"	25 - 1"
Blow down valve with integrated strainer (only BR 612/613, not EN-JL1040)		48,-	48,-	48,-
Ball valve as blow down valve (only BR 612/613, restricted to 13 bar, 200 °C)		80,-	80,-	80,-
Version with outside strainer (not for EN-JL1040)	Fig. 45.612 / 613 and Figure 85.612 / 613	24,-	24,-	24,-
	Fig. 55.612 / 613	24,-	24,-	24,-

Design acc. to data sheet
Other materials (incl. ASTM) on request
Other types of connection on request

Special design on page 220 / Certifications on page 221
Pressure-temperature-ratings on page 204 or data sheet
Types of connection on page 205

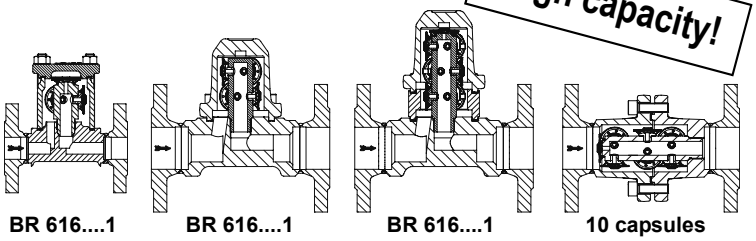
Please indicate the type of controller and capsule in your order, e.g. R13.
Capsule No. 1 - for condensate discharge at boiling temperature - only applicable to Series 610 / 612 R5 up to 5 bar inlet pressure
Capsule No. 2 - for condensate sub-cooling about approx. 10K (Standard)
Capsule No. 3 - for condensate sub-cooling about approx. 30K
Capsule No. 4 - for condensate sub-cooling about approx. 40K - only applicable to Series 610/612 up to 16 bar inlet pressure, especially suitable for tracing systems with low and medium pressure steam

ARI-CONA®M Multi-capsule thermostatic steam traps

For the discharge of condensate sub-cooled up to 40 K

High capacity!

Types of connection:	BR
Flanges (acc. to DIN)	616....1
Screwed sockets (Rp- and NPT)	616....2
Socket weld ends	616....3
Butt weld ends	616....4



BR 616....1 4 capsules | **BR 616....1 6 capsules** | **BR 616....1 10 capsules** | **10 capsules In-line design**

					DN - NPS		
			Figur	Controller	25 - 1"	40 - 1 1/2"	50 - 2"
PN 40	without strainer	1.0460 4 capsules	45.616....1404K2	R32	436,-	--	--
			45.616....2404K2		403,-	--	--
			45.616....3404K2 45.616....4404K2		413,-	--	--
		1.0460 6 capsules (standard)	45.616....1406K2	R32	--	1.075,-	1.196,-
			45.616....2406K2		--	1.004,-	1.115,-
			45.616....3406K2 45.616....4406K2		--	1.020,-	1.134,-
		1.0460 10 capsules	45.616....14010K2	R32	--	1.458,-	1.621,-
			45.616....24010K2		--	1.344,-	1.495,-
			45.616....34010K2 45.616....44010K2		--	1.369,-	1.519,-
		1.0460 10 capsules (In-line design)	45.616....14010K2	R32	--	1.279,-	1.421,-
		1.0571 4 Kapseln	85.616....1774K2	R32	523,-	--	--
			85.616....2774K2		484,-	--	--
			85.616....3774K2 85.616....4774K2		496,-	--	--
		1.0571 6 Kapseln (Standard)	85.616....1776K2	R32	--	1.290,-	1.435,-
			85.616....2776K2		--	1.205,-	1.338,-
			85.616....3776K2 85.616....4776K2		--	1.224,-	1.361,-
		1.0571 10 Kapseln	85.616....17710K2	R32	--	190,-	1.945,-
			85.616....27710K2		--	1.613,-	179,-
			85.616....37710K2 85.616....47710K2		--	1.643,-	1.823,-
		1.0571 10 Kapseln (In-line design)	85.616....17710K2	R32	on request		

Standard capsule = capsule-No. 2.

1.4541 on request.

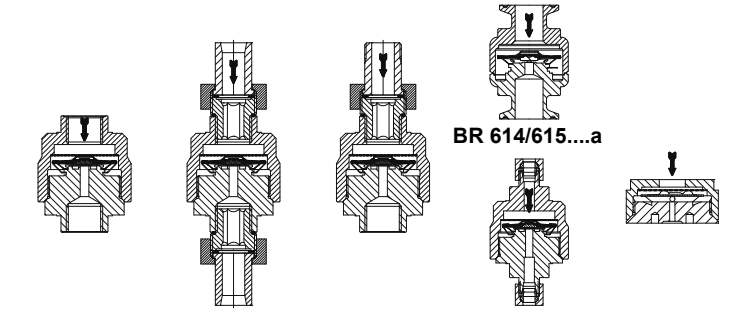
Design acc. to data sheet
Other materials (incl. ASTM) on request
Other types of connection on request

Special design on page 220 / Certifications on page 221
Pressure-temperature-ratings on page 204 or data sheet
Types of connection on page 205

ARI-CONA®M Thermostatic steam traps

For the discharge of condensate sub-cooled up to 40 K and thermal air vent for gas systems

Types of connection:	BR
Screwed sockets (Rp- and NPT)	614/615....2
Union butt-weld ends	614....5
Screwed male / Screwed female (Rp)	614....9
Clamp connection (DIN32676 or BS4825-3)	614....a / 615....a
Compression ring connection	614....c
Wafer pattern	619....6



BR 614/615....2 BR 614....5 BR 614....9 BR 614/615....a BR 614....c BR 619....a

					DN - NPS				
			Figure	Controller	8 - 1/4"	10 - 3/8"	15 - 1/2"	20 - 3/4"	25 - 1"
PN 16	inside strainer	1.4305	52.614....a52	R32	--	--	371,-	371,-	371,-
		1.4301	52.615....a53		--	--	314,-	314,-	314,-
PN 40		1.4305	55.614....252	R32	218,-	218,-	218,-	218,-	234,-
			55.614....552		241,-	241,-	241,-	--	--
			55.614....952		--	--	241,-	241,-	--
			55.614....c52		255,-	--	--	--	--
		1.4301	55.615....253	R32	184,-	184,-	184,-	--	--
		1.4305	55.619....652	R21	--	--	166,-	172,-	180,-

Additional performance	DN - NPS				
	8 - 1/4"	10 - 3/8"	15 - 1/2"	20 - 3/4"	25 - 1"
Drip pipe when used as air vent	on request				

Design acc. to data sheet
Other materials (incl. ASTM) on request
Other types of connection on request

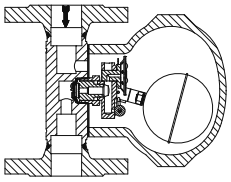
Special design on page 220 / Certifications on page 221
Pressure-temperature-ratings on page 204 or data sheet
Types of connection on page 205

Please indicate the type of capsule in your order (standard capsule = capsule-No. 2).

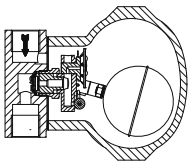
ARI-CONA®SC Ball float steam traps

For discharge of condensate at boiling temperature

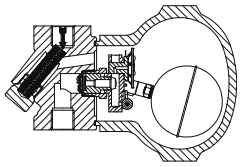
Types of connection:	BR
Flanges (acc. to DIN)	634....1
Screwed sockets (Rp- and NPT)	634....2
Socket weld ends	634....3
Butt weld ends	634....4



BR 634....1
PN16/25



BR 634....2
PN16/25



BR 634....2 (Y)
PN40

Standard installation: vertical (Inlet from above)
For horizontal installation,
please indicate inlet (left or right).

CONA®SC
CONA®SC -Plus

			Figure	Controller	DN - NPS 15 - 1/2"	20 - 3/4"	25 - 1"
PN 16	without strainer	Body 1.0460 / Hood EN-JS1049	42.634....140	R4 R14	404,-	404,-	404,-
			42.634....240		300,-	300,-	300,-
			42.634....340 42.634....440		345,-	345,-	345,-
PN 25		Body 1.0460 / Hood 1.0619+N	44.634....140	R4 R14 R21	410,-	410,-	410,-
			44.634....240		381,-	381,-	381,-
			44.634....340 44.634....440		400,-	400,-	400,-
		Gehäuse 1.0571 / Haube 1.6220+QT	84.634....177		492,-	492,-	492,-
			84.634....277		457,-	457,-	457,-
			84.634....377 84.634....477		480,-	480,-	480,-
		Body 1.4541 / Hood 1.4308	54.634....156		924,-	924,-	924,-
			54.634....256		812,-	812,-	812,-
			54.634....356 54.634....456		859,-	859,-	859,-
PN 40	outside strainer	Body 1.0460 / Hood 1.0619+N	45.634....140	R4 R14 R21 R32	619,-	619,-	619,-
			45.634....240		526,-	526,-	526,-
			45.634....340 45.634....440		546,-	546,-	546,-
		Gehäuse 1.0571 / Haube 1.6220+QT	85.634....177		743,-	743,-	743,-
			85.634....277		631,-	631,-	631,-
			85.634....377 85.634....477		655,-	655,-	655,-
		Body 1.4541 / Hood 1.4308	55.634....156		1.065,-	1.065,-	1.065,-
			55.634....256		880,-	880,-	880,-
			55.634....356 55.634....456		921,-	921,-	921,-

Additional performance	DN - NPS 15 - 1/2"	20 - 3/4"	25 - 1"
Ball valve as blow down valve (restric. to 13 bar, 200 °C)	80,-	80,-	80,-

Design acc. to data sheet
Other materials (incl. ASTM) on request
Other types of connection on request

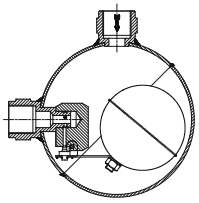
Special design on page 220 / Certifications on page 221
Pressure-temperature-ratings on page 204 or data sheet
Types of connection on page 205

Please indicate the type of controller in your order, e.g. R4.

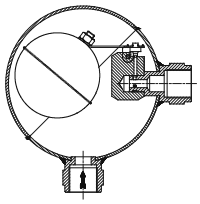
ARI-CONA®SC Ball float steam traps

For discharge of condensate

Types of connection:	BR
Screwed sockets (Rp- and NPT)	629....2



BR 629....2



Also as automatic air vent with inlet from the bottom useable (refer to Fig. 656 on page 198)

				R- / NPT
		Figure	Controller	1/2"
PN 16	1.4301	52.629....253	R5 R13	321,-

Design acc. to data sheet
Other materials (incl. ASTM) on request
Other types of connection on request

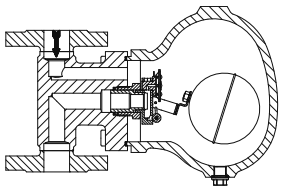
Special design on page 220 / Certifications on page 221
Pressure-temperature-ratings on page 204 or data sheet
Types of connection on page 205

ARI-CONA®SC-Plus Ball float steam traps

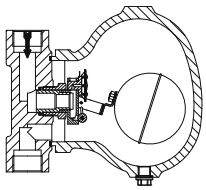
For discharge of condensate at boiling temperature

Types of connection:	BR
Flanges (acc. to DIN)	635....1
Screwed sockets (Rp- and NPT)	635....2

<u>Standard installation</u>: vertical (Inlet from above)
For horizontal installation,
please indicate inlet (left or right).



BR 635....1



BR 635....2

				DN - NPS
		Figure	Controller	25 - 1"
PN 16	Body **EN-JL1040** / Hood **EN-JL1040**	12.635....110	R5 R10 R14	629,-
		12.635....210		578,-
PN 40	Body **EN-JS1049** / Hood **EN-JS1049**	25.635....120		795,-
		25.635....220		732,-
	Body **1.0460** / Hood **1.0619+N**	45.635....140		1.193,-
		45.635....240		1.070,-
	Gehäuse **1.0571** / Haube **1.6220+QT**	85.635....177		1.432,-
		85.635....277		1.284,-
	Body **1.4541** / Hood **1.4308**	55.635....156		2.759,-
		55.635....256		2.656,-

High capacity!

Design acc. to data sheet
Other materials (incl. ASTM) on request
Other types of connection on request

Special design on page 220 / Certifications on page 221
Pressure-temperature-ratings on page 204 or data sheet
Types of connection on page 205

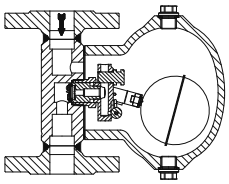
Please indicate the type of controller in your order, e.g. R5.

ARI-CONA®SC Ball float steam traps

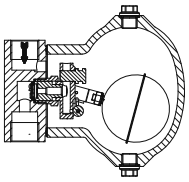
For discharge of water from compressed air and gas

(acc. to PED 2014/68/EU fluid group 1, subject to suitability for medium and material resistance)

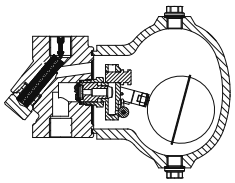
Types of connection:	BR
Flanges (acc. to DIN)	636....1
Screwed sockets (Rp- and NPT)	636....2
Socket weld ends	636....3
Butt weld ends	636....4



BR 636....1
PN16/25



BR 636....2
PN16/25



BR 636....2 (Y)
PN40

Standard installation: vertical (Inlet from above)
For horizontal installation, please indicate inlet (left or right), recovery pipe for PN40 recommended.

			Figure	Controller	DN - NPS 15 - 1/2"	20 - 3/4"	25 - 1"
PN 16	without strainer	Body 1.0460 / Hood EN-JS1049	42.636....140	R4 R14	398,-	398,-	398,-
			42.636....240		296,-	296,-	296,-
			42.636....340 42.636....440		343,-	343,-	343,-
PN 25	without strainer	Body 1.0460 / Hood 1.0619+N	44.636....140	R4 R14 R21	431,-	431,-	431,-
			44.636....240		375,-	375,-	375,-
			44.636....340 44.636....440		404,-	404,-	404,-
		Gehäuse 1.0571 / Haube 1.6220+QT	84.636....177		517,-	517,-	517,-
			84.636....277		450,-	450,-	450,-
			84.636....377 84.636....477		485,-	485,-	485,-
		Body 1.4541 / Hood 1.4308	54.636....156		826,-	826,-	826,-
			54.636....256		726,-	726,-	726,-
			54.636....356 54.636....456		771,-	771,-	771,-
PN 40	outside strainer	Body 1.0460 / Hood 1.0619+N	45.636....140	R4 R14 R21 R32	574,-	574,-	574,-
			45.636....240		490,-	490,-	490,-
			45.636....340 45.636....440		527,-	527,-	527,-
		Gehäuse 1.0571 / Haube 1.6220+QT	85.636....177		689,-	689,-	689,-
			85.636....277		588,-	588,-	588,-
			85.636....377 85.636....477		632,-	308,-	632,-
		Body 1.4541 / Hood 1.4308	55.636....156		1.076,-	1.076,-	1.076,-
			55.636....256		890,-	890,-	890,-
			55.636....356 55.636....456		932,-	932,-	932,-

Additional performance	DN - NPS 15 - 1/2"	20 - 3/4"	25 - 1"
Soft sealing ball FPM (Viton); max. 120°C	43,-	43,-	43,-

Design acc. to data sheet
Other materials (incl. ASTM) on request
Other types of connection on request

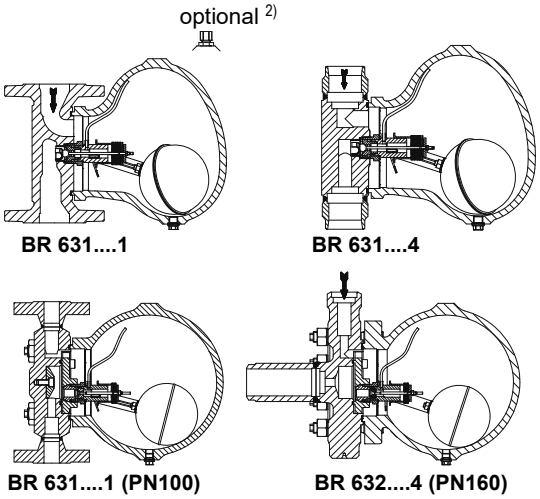
Special design on page 220 / Certifications on page 221
Pressure-temperature-ratings on page 204 or data sheet
Types of connection on page 205

Please indicate the type of controller in your order (e.g. R4).

ARI-CONA®S Ball float steam traps

For discharge of condensate at boiling temperature

Types of connection:	BR
Flanges (acc. to DIN)	631/632....1
Screwed sockets (Rp- and NPT)	631....2
Socket weld ends	631....3
Butt weld ends	631/632....4



Standard installation: vertical (Inlet from above)
For horizontal installation,
please indicate inlet (left or right).

					DN - NPS							
			Figure	Controller	15 - 1/2"	20 - 3/4"	25 - 1"	40 - 1 1/2"	50 - 2"	65 - 2 1/2"	80 - 3"	100 - 4"
PN 16	Body / Hood EN-JL1040	I82	12.631....110	R4 R8 R13 only DN40-100: R4-S R8-S R13-S only PN40: R22 R32	511,-	562,-	631,-	1.208,- 1)	1.306,- 1)	--	--	--
			12.631....210		468,-	512,-	581,-	1.087,- 1)	--	--	--	--
PN 40	Body / Hood EN-JS1049		25.631....120		636,-	690,-	775,-	1.436,- 1)	1.532,- 1)	--	--	--
			25.631....220		592,-	623,-	713,-	1.297,- 1)	--	--	--	--
	Body 1.0460 / Hood 1.0619+N		45.631....140		1.113,-	1.132,-	1.197,-	2.278,- 1)	2.454,- 1)	2.757,- 1)	3.404,- 1)	3.800,- 1)
			45.631....240		966,-	1.006,-	1.072,-	1.962,- 1)	2.125,- 1)	--	--	--
			45.631....340 45.631....440		966,-	1.006,-	1.072,-	1.962,- 1)	2.125,- 1)	--	--	--
	Gehäuse 1.0571 / Haube 1.6220+QT		85.631....177		1.336,-	1.358,-	1.436,-	2.734,-	2.945,-	3.308,-	4.085,-	4.560,-
			85.631....277		1.159,-	1.207,-	1.286,-	2.354,-	2.550,-	--	--	--
			85.631....377 85.631....477		1.159,-	1.207,-	1.286,-	2.354,-	2.550,-	--	--	--
	Body 1.4541 / Hood 1.4308		55.631....156		2.634,-	2.692,-	2.764,-	5.337,- 1)	6.202,- 1)	--	--	--
			55.631....256		2.549,-	2.585,-	2.656,-	5.215,- 1)	6.075,- 1)	--	--	--
			55.631....356 55.631....356		2.621,-	2.683,-	2.709,-	5.261,- 1)	6.100,- 1)	--	--	--
PN 63	Body 1.5415 / Hood 1.7357	I83	86.631....180	R50	2.299,-	2.375,-	2.449,-	3.521,-	3.653,-	--	--	--
			86.631....480		1.989,-	2.074,-	2.142,-	2.920,-	3.121,-	--	--	--
PN 100	Body 1.5415 / Hood 1.7357		87.631....180	R64	2.489,-	--	2.751,-	3.466,-	3.760,-	--	--	--
			87.631....480		2.299,-	2.393,-	2.487,-	3.169,-	3.382,-	--	--	--
	Body 1.7335 / Hood 1.7357		87.631....181	R64 R80	4.207,-	--	4.429,-	4.534,-	4.634,-	--	--	--
			87.631....481		3.857,-	3.927,-	4.024,-	4.210,-	4.352,-	--	--	--
PN 160	Body 1.7335 / Hood 1.7357		88.631....181	R80 R110	7.163,-	--	7.424,-	--	8.278,-	--	--	--
			88.631....481		6.773,-	--	6.773,-	--	6.955,-	--	--	--
			88.632....181	R80 R110	8.076,-	--	8.374,-	--	9.331,-	--	--	--
			88.632....481		7.294,-	--	7.636,-	--	7.841,-	--	--	--

Additional performance	DN - NPS							
	15 - 1/2"	20 - 3/4"	25 - 1"	40 - 1 1/2"	50 - 2"	65 - 2 1/2"	80 - 3"	100 - 4"
Blow down valve	48,-	48,-	48,-	48,-	48,-	48,-	48,-	48,-
Manual air vent valve	48,-	48,-	48,-	48,-	48,-	48,-	48,-	48,-
Connection for pressure recovery pipe 2)	40,-	40,-	40,-	40,-	40,-	40,-	40,-	40,-

Design acc. to data sheet
Other materials (incl. ASTM) on request
Other types of connection on request
Please indicate the type of controller in your order.
Socket weld ends for PN63-160 on request.

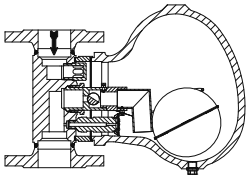
Special design on page 220 / Certifications on page 221
Pressure-temperature-ratings on page 204 or data sheet
Types of connection on page 205

1) In case of horizontal installation and differential pressures lower than 1 bar at controller R4-S the steam traps can be fitted on request with an external vent (see page 192).

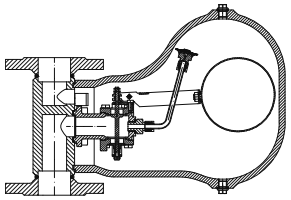
ARI-CONA®S Ball float steam traps

For discharge of large condensate flow rates at boiling temperature

Types of connection:	BR
Flanges (acc. to DIN)	633....1
Screwed sockets (Rp- and NPT)	633....2
Socket weld ends	633....3
Butt weld ends	633....4



BR 633....1 [1)]



BR 633....1 with double seat

			Figure	Controller	DN - NPS 40 - 1 1/2"	50 - 2"	65 - 2 1/2"	80 - 3"	100 - 4"
PN 40		Body **1.0460** / Hood **1.0619+N**	**45.633....140** [1)]	**R4-P**	3.132,-	3.237,-	3.918,-	4.053,-	4.577,-
		Body **1.0571** / Hood**1.6220+QT**	**85.633....177** [1)]		3.758,-	3.884,-	4.702,-	4.864,-	5.492,-
	with double seat	Body **1.0460** / Hood **1.0619+N**	**45.633....140**	**R13 R22 R32**	3.042,-	3.110,-	3.717,-	3.938,-	4.159,-
			45.633....240		2.843,-	2.906,-	3.609,-	3.824,-	4.038,-
			45.633....340		2.843,-	2.906,-	3.609,-	3.824,-	4.038,-
			45.633....440		2.843,-	2.906,-	3.609,-	3.824,-	4.038,-
		Body **1.0571** / Haube **1.4308**	**85.633....177**	**R13 R22 R32**	3.650,-	3.732,-	4.460,-	4.726,-	4.991,-
			85.633....277		3.412,-	3.487,-	4.331,-	4.589,-	4.846,-
			85.633....377		3.412,-	3.487,-	4.331,-	4.589,-	4.846,-
			85.633....477		3.412,-	3.487,-	4.331,-	4.589,-	4.846,-
		Body **1.4541** / Hood **1.4308**	**55.633....156**	**R13 R22 R32**	on request				
			55.633....256						
			55.633....356						
			55.633....456						

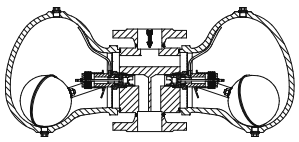
CONA®S
CONA®P
CONLIFT®

[1)] In case of horizontal installation and differential pressures lower than 1 bar the steam traps can be fitted on request with an external vent (see page 192).
1.4541 on request.
Please indicate the installation position in your order.

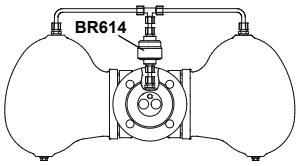
ARI-CONA®S Ball float steam traps

For discharge of large condensate flow rates at boiling temperature

Types of connection:	BR
Flanges (acc. to DIN)	639....1



BR 639....1



BR 639....1 with external vent [2)]

		Figure	Controller	DN - NPS 50 - 2"	65 - 2 1/2"	80 - 3"	100 - 4"
PN 16	Body **1.0460** / Hood **EN-JL1040**	**42.639....140**	**R4-S** [2)] **/ R8-S / R13-S**	3.866,-	5.542,-	6.139,-	6.512,-
			R4-P [2)]	5.768,-	6.290,-	6.885,-	7.074,-
PN 40	Body **1.0460** / Hood **1.0619+N**	**45.639....140**	**R4-S** [2)] **/ R8-S / R13-S / R22 / R32**	3.973,-	5.700,-	6.277,-	6.468,-
			R4-P [2)]	5.906,-	6.446,-	7.022,-	7.214,-
	Gehäuse **1.0571**/ Haube **1.6220+QT**	**85.639....177**	**R4-S** [2)] **/ R8-S / R13-S / R22 / R32**	4.639,-	6.650,-	7.367,-	7.814,-
			R4-P [2)]	6.922,-	7.548,-	8.262,-	8.489,-
	Body **1.4541** / Hood **1.4308**	**55.639....156**	**R4-S** [2)] **/ R8-S / R13-S / R22 / R32**	8.075,-	8.328,-	9.176,-	9.448,-
			R4-P [2)]	8.820,-	9.075,-	9.922,-	10.192,-

Design acc. to data sheet
Other materials (incl. ASTM) on request
Other types of connection on request

Special design on page 220 / Certifications on page 221
Pressure-temperature-ratings on page 204 or data sheet
Types of connection on page 205

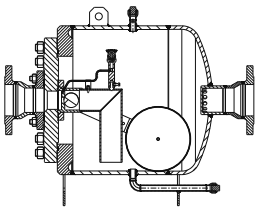
[2)] At controller R4-S and R4-P the steam traps are fitted with an external vent.
Please indicate the type of controller and installation position in your order.

ARI-CONA®S Ball float steam traps

For discharge of extremely large condensate flow rates at boiling temperature

Types of connection:	BR
Flanges (acc. to DIN)	637....1

Standard installation: Straight through, horizontally



BR 637....1

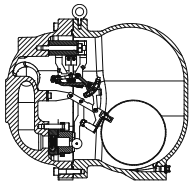
				DN - NPS			
		Figure	Controller	50 - 2"	65 - 2 1/2"	80 - 3"	100 - 4"
PN 16	Body **1.0345 /** Dished boiler end **1.0425 /** Cover **1.0565 /** Pipe **1.0345**	**82.637....178**	**R4 R14**	10.386,-	10.386,-	10.481,-	10.608,-
PN 40		**85.637....178**	**R4 R14 R23 R30**	11.452,-	11.452,-	11.557,-	11.695,-

Angle pattern design on request

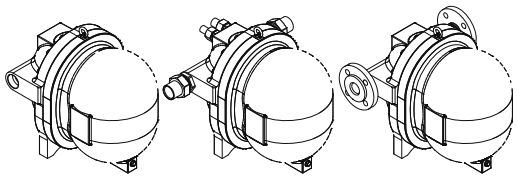
ARI-CONA® P Pump trap

For condensate discharge and pumping under difficult operating conditions, e.g. heat exchangers controlled from the steam side

Types of connection:	BR
Screwed sockets (Rp)	694....2
Union butt-weld ends	694....5
Loose flange	694....7



BR 694



BR 694....2 **BR 694....5** **BR 694....7**

				DN - NPS		
		Figure	Controller	25	40 - 1 1/2"	50
PN 16	Body / Hood **EN JS-1049**	**22.694....220**	**R8/5 R8/8**	--	3.153,-	--
		22.694....520	**R13/5 R13/8 R13/13**	3.297,-	3.332,-	3.403,-
		22.694....720		--	3.476,-	3.547,-

ARI-CONLIFT® Condensate pump

For pumping hot condensate to a higher pressure level

Types of connection:	BR
Flanges (acc. to DIN)	691....1

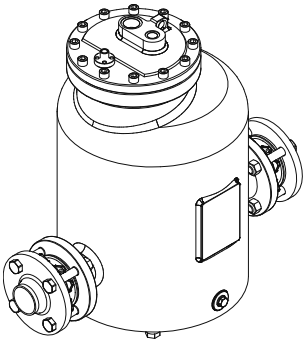


Fig. 22.691....1

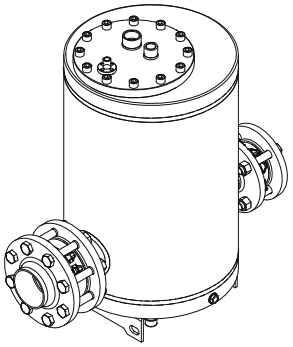


Fig. 82.691....1

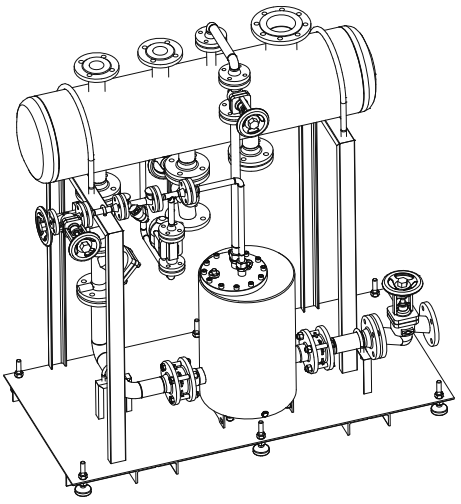
				DN			
		Figure	Controller	25 / 25	40 / 40	50 / 50	80 / 50
PN 16	Body / Cover **EN-JS1049**	**22.691....120**	**R10 R14**	--	--	3.582,-	3.893,-
	Jacket **1.0345/** Bottom flanges and flanges **1.0460 /** Bottoms **1.0425 /** Cover **1.0425**	**82.691....185**	**R10**	3.600,-	3.869,-	3.980,-	4.325,-
	Body / Cover **1.4571**	**52.691....151**	**R10**	10.441,-	11.219,-	11.541,-	12.541,-

Additional performance	DN			
	25 / 25	40 / 40	50 / 50	80 / 50
Connection for motive pressure and exhaust with union for butt weld ends	139,-	139,-	139,-	139,-
L-profile pedestal	34,-	34,-	34,-	34,-
Electronic stroke counter	695,-	695,-	695,-	695,-
Insulating jacket	1.248,-	1.248,-	1.309,-	1.309,-
Pressure gauge	on request			

Field of application:

Pumping station

Pumping station, fully plumbed incl. all necessary valves, manifolds and connections, mounted on a frame ready to connect

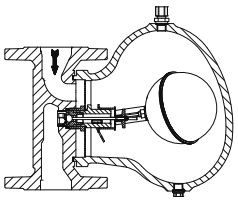


ARI-CONA®S Ball float steam traps

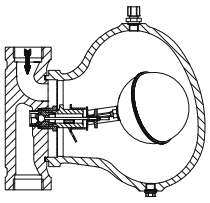
For discharge of water from compressed air and gas

(acc. to PED 2014/68/EU fluid group 1, subject to suitability for medium and material resistance)

Types of connection:	BR
Flanges (acc. to DIN)	630....1
Screwed sockets (Rp- and NPT)	630....2
Socket weld ends	630....3
Butt weld ends	630....4



BR 630....1



BR 630....2

<u>Standard installation</u>: vertical (Inlet from above)
For horizontal installation,
please indicate inlet (left or right), recovery pipe necessary.

				DN - NPS				
		Figure	Controller	15 - 1/2"	20 - 3/4"	25 - 1"	40 - 1 1/2"	50 - 2"
PN 16	Body / Hood **EN-JL1040**	**12.630....110**	R4 R8 R13 <u>only PN40</u>: R22 R32	483,-	511,-	590,-	1.187,-	1.194,-
		12.630....210		448,-	472,-	552,-	1.007,-	--
PN 40	Body / Hood **EN-JS1049**	**25.630....120**		610,-	653,-	726,-	1.267,-	1.428,-
		25.630....220		581,-	622,-	684,-	1.149,-	--
	Body / **1.0460** Hood **1.0619+N**	**45.630....140**		997,-	1.048,-	1.125,-	2.110,-	2.240,-
		45.630....240		942,-	985,-	1.055,-	2.026,-	2.157,-
		45.630....340 **45.630....340**		942,-	985,-	1.055,-	2.026,-	2.157,-
	Gehäuse **1.0571 /** Haube **1.6220+QT**	**85.630....177**		1.196,-	1.258,-	1.350,-	2.532,-	2.688,-
		85.630....277		1.130,-	1.182,-	1.266,-	2.431,-	2.588,-
		85.630....377 **85.630....477**		1.130,-	1.182,-	1.266,-	2.431,-	2.588,-
	Body **1.4541 /** Hood **1.4308**	**55.630....156**		2.504,-	2.559,-	2.626,-	5.070,-	5.890,-
		55.630....256		2.421,-	2.455,-	2.525,-	4.957,-	5.773,-
		55.630....356 **55.630....456**		2.490,-	2.549,-	2.577,-	4.999,-	5.794,-

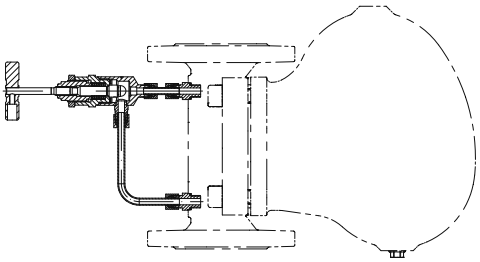
Design acc. to data sheet
Other materials (incl. ASTM) on request
Other types of connection on request
Please indicate the type of controller in your order.

Special design on page 220 / Certifications on page 221
Pressure-temperature-ratings on page 204 or data sheet
Types of connection on page 205

Bypass for

ARI-CONA®S

Bypass CONA®S (BR631) consists of a AWH angle pattern stop valve (from DN25 onwards)	404,-

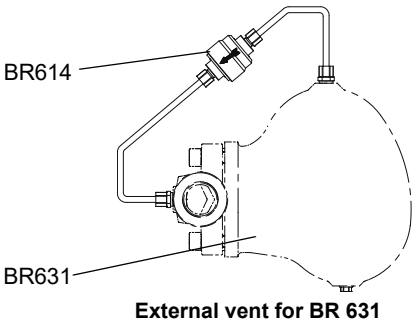


Bypass for BR 631

External vent for

ARI-CONA®S

Bypass for CONA®S (BR631) consists of a piping and CONA®M (BR614)	273,-



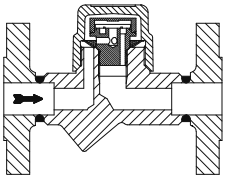
External vent for BR 631

Notes:

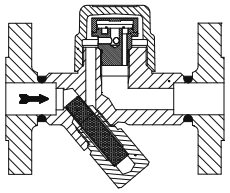
ARI-CONA®TD Thermodynamic steam traps

For discharge of condensate with limited sub-cooling

Types of connection:	BR
Flanges (acc. to DIN)	640/641....1
Screwed sockets (Rp- and NPT)	640/641....2
Socket weld ends	640/641....3
Butt weld ends	640/641....4



BR 640....1



BR 641....1
(outside strainer)
(for add. costs refer to additional performance)

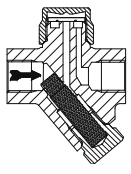
						DN - NPS		
				Figure	Controller	15 - 1/2"	20 - 3/4"	25 - 1"
PN 40	inside strainer	1.0460	I82	45.640....140	R32	260,-	260,-	260,-
				45.640....240		221,-	221,-	221,-
				45.640....340 45.640....440		234,-	234,-	234,-
		1.0571		85.640....177	R32	312,-	312,-	312,-
				85.640....277		265,-	265,-	265,-
				85.640....377 85.640....477		281,-	281,-	281,-
		1.5415		85.640....180	R32	392,-	392,-	392,-
				85.640....280		331,-	331,-	331,-
				85.640....380 85.640....480		348,-	348,-	348,-
		1.4541		55.640....156	R32	465,-	465,-	465,-
				55.640....256		407,-	407,-	407,-
				55.640....356 55.640....456		418,-	418,-	418,-
PN 63		16Mo3	I83	86.640....180	R42	693,-	693,-	693,-
				86.640....380 86.640....480		642,-	642,-	642,-

Additional performance		DN - NPS		
		15 - 1/2"	20 - 3/4"	25 - 1"
Version with outside strainer	Figure 45./85./86.641	24,-	24,-	24,-
	Figure 55.641	24,-	24,-	24,-

ARI-CONA®TD Thermodynamic steam traps

For discharge of condensate with limited sub-cooling

Types of connection:	BR
Screwed sockets (Rp- and NPT)	641....2
Socket weld ends	641....3



BR 641....2 PN63
(outside strainer)

						DN - NPS			
				Figure	Controller	10 - 3/8"	15 - 1/2"	20 - 3/4"	25 - 1"
PN 63	outside strainer	A743 CA40 (at 1" 1.4006)	I83	56.641....2	R42	213,-	213,-	257,-	323,-
				56.641....3		--	223,-	265,-	--

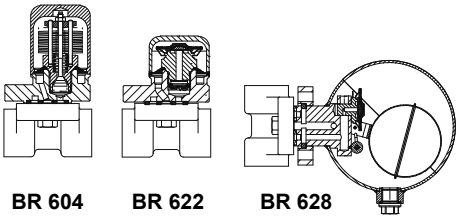
Design acc. to data sheet
Other materials (incl. ASTM) on request
Other types of connection on request

Special design on page 220 / Certifications on page 221
Pressure-temperature-ratings on page 204 or data sheet
Types of connection on page 205

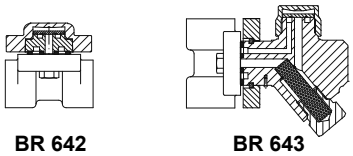
ARI-CONA®Universal

For the discharge of condensate sub-cooled
(BR 604/622/642/643)
and condensate at boiling temperature
(BR 628)

Types of connection:
Universal flange 2 x 3/8" UNC-thread



BR 604 **BR 622** **BR 628**



BR 642 **BR 643**
(outside strainer)

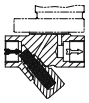
					DN
			Figure	Controller	2 x 3/8" UNC
Class 300	inside strainer	SA351CF8	55.604 CONA®B-Universal	R22	243,-
		SA351CF8	55.622 CONA®M-Universal	R32	243,-
	without strainer	Body SA182F321 / Hood SA240Gr.304	55.628 CONA®S-Universal	R32	382,-
	without strainer	SA470Gr.410	55.642 CONA®TD-Universal	R32	171,-
	outside strainer (Y-strainer)	SA182F6 A	55.643 CONA®TD-Universal	R32	202,-

ARI-CONA®Connector

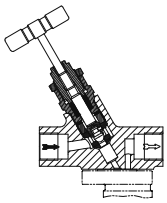
System connectors for 2 x 3/8" UNC-thread

Types of connection:	BR
Flanges (acc. to DIN) (on request)	682 / 683 / 684...1
Screwed sockets (Rp- and NPT)	681 / 682 / 683 / 684...2
Socket weld ends	681 / 682 / 683 / 684...3
Butt weld ends (on request)	682 / 683 / 684...4

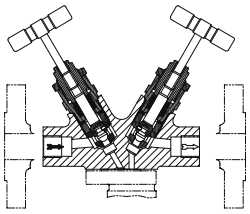
BR 681
System connector



BR 682
System connector with outside strainer



BR 683
System connector with stop function at inlet with gland seal)



BR 684
System connector with stop function at inlet and outlet with gland seal)

				DN - NPS		
			Figure	15 - 1/2"	20 - 3/4"	25 - 1"
Class 300 / PN 40	System connector	SA351CF8	55.681....294 55.681....394	103,-	109,-	145,-
	System connector with outside strainer	SA182F321 (SA105 on request)	55.682....192	232,-	249,-	270,-
			55.682....292 55.682....392	171,-	187,-	210,-
	System connector with stop function at inlet (with gland seal)		55.683....192	414,-	414,-	497,-
			55.683....292 55.683....392	352,-	352,-	435,-
	System connector with stop function at inlet and outlet (with gland seal)		55.684....192	590,-	590,-	685,-
			55.684....292 55.684....392	530,-	530,-	625,-

Additional performance	DN - NPS		
	15 - 1/2"	20 - 3/4"	25 - 1"
Stop valve with bellows seal	210,-	210,-	210,-
Hand wheel at the stop valve (standard = hand grip) (per each valve)	on request		

Design acc. to data sheet
Other materials (incl. ASTM) on request
Other types of connection on request

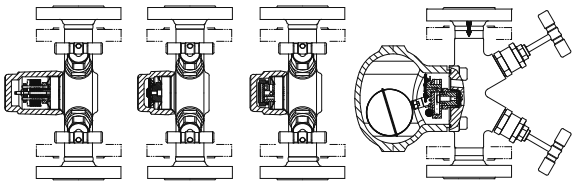
Special design on page 220 / Certifications on page 221
Pressure-temperature-ratings on page 204 or data sheet
Types of connection on page 205

ARI-CONA®All-in-one

For the discharge of sub-cooled condensate (BR 60A/61A/64A) and of condensate at boiling temperature (BR 63A)

NEW!
Face-to-face dimension FTF-1 acc. to DIN EN 26554

Types of connection:	BR
Flanges (acc. to DIN)	60A/61A/64A/63A....1
Screwed sockets (Rp- and NPT)	60A/61A/64A/63A....2
Socket weld ends	60A/61A/64A/63A....3
Butt weld ends	60A/61A/64A/63A....4



BR 60A BR 61A BR 64A BR 63A

						DN		
			Figure		Controller	15 - 1/2"	20 - 3/4"	25 - 1"
PN40	Stop valve with gland seal	1.0460	CONA®B All-in-one	45.60A....140	R32 R22 R13	799,-	799,-	799,-
				45.60A....240		716,-	716,-	716,-
				45.60A....340 45.60A....440		748,-	748,-	748,-
		1.4541		55.60A....156		1.407,-	1.407,-	1.407,-
				55.60A....256		1.265,-	1.265,-	1.265,-
				55.60A....356 55.60A....456		1.321,-	1.321,-	1.321,-
		1.0460	CONA®M All-in-one	45.61A....140	R32	733,-	733,-	733,-
				45.61A....240		661,-	661,-	661,-
				45.61A....340 45.61A....440		688,-	688,-	688,-
		1.4541		55.61A....156		1.290,-	1.290,-	1.290,-
				55.61A....256		1.162,-	1.162,-	1.162,-
				55.61A....356 55.61A....456		1.212,-	1.212,-	1.212,-
		1.0460	CONA®TD All-in-one	45.64A....140	R32	684,-	684,-	684,-
				45.64A....240		617,-	617,-	617,-
				45.64A....340 45.64A....440		641,-	641,-	641,-
		1.4541		55.64A....156		1.213,-	1.213,-	1.213,-
				55.64A....256		1.088,-	1.088,-	1.088,-
				55.64A....356 55.64A....456		1.131,-	1.131,-	1.131,-
		Body **1.0460** / Hood **1.0619+N**	CONA®SC All-in-one	45.63A....140	R32 R21 R14 R4	904,-	904,-	904,-
				45.63A....240		815,-	815,-	815,-
				45.63A....340 45.63A....440		852,-	852,-	852,-
		Body **1.4541** / Hood **1.4308**		55.63A....156		1.595,-	1.595,-	1.595,-
				55.63A....256		1.435,-	1.435,-	1.435,-
				55.63A....356 55.63A....456		1.500,-	1.500,-	1.500,-

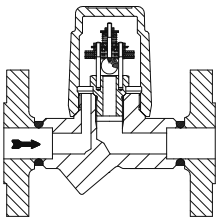
Additional performance	DN		
	15 - 1/2"	20 - 3/4"	25 - 1"
Drain valve	48,-		
Ball valve (restricted to 13 bar, 200 °C)	80,-		
Stop valve with bellows seal (per each valve)	210,-		
Hand wheel at the stop valve (standard = hand grip) (per each valve)	on request		

Design acc. to data sheet
Other types of connection on request

Special design on page 220 / Certifications on page 221
Pressure-temperature-ratings on page 204 or data sheet
Types of connection on page 205

Liquid drainer

Types of connection:	BR
Flanges (acc. to DIN)	665....1
Screwed sockets (Rp- and NPT)	665....2
Socket weld ends	665....3
Butt weld ends	665....4
Union butt-weld ends	665....5



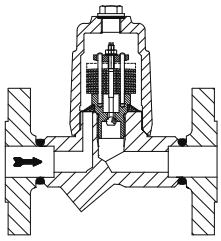
BR 665....1

			Figure	Closing press. DP	DN - NPS 15 - 1/2"	20 - 3/4"	25 - 1"
PN 16		EN-JL1040	12.665....110	1,5 bar (standard) 1,0 bar 0,5 bar	--	--	244,-
			12.665....510		188,-	188,-	--
PN 40		1.0460	45.665....140		385,-	385,-	385,-
			45.665....240		343,-	343,-	343,-
			45.665....340 45.665....440		353,-	353,-	353,-

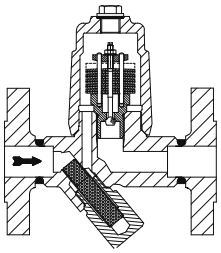
1.4541 on request.

Condensate discharge temperature limiter

Types of connection:	BR
Flanges (acc. to DIN)	645/647....1
Screwed sockets (Rp- and NPT)	645/647....2
Socket weld ends	645/647....3
Butt weld ends	645/647....4



BR 645....1



BR 647....1
(outside strainer)
(for add. costs refer to additional performance)

			Figure	Controller	DN - NPS 15 - 1/2"	20 - 3/4"	25 - 1"
PN 40	inside strainer	1.0460	45.645....140	R32	331,-	331,-	331,-
			45.645....240		279,-	279,-	279,-
			45.645....340 45.645....440		297,-	297,-	297,-

Additional performance		DN - NPS 15 - 1/2"	20 - 3/4"	25 - 1"
Temperature display and thermometer adapter		98,-	98,-	98,-
Blow down valve with integrated strainer (only BR 647)		48,-	48,-	48,-
Version with outside strainer	Figure 45.647	24,-	24,-	24,-

Design acc. to data sheet
Other materials (incl. ASTM) on request
Other types of connection on request

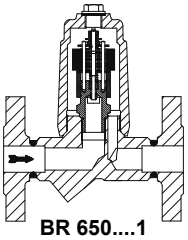
Special design on page 220 / Certifications on page 221
Pressure-temperature-ratings on page 204 or data sheet
Types of connection on page 205

Please indicate P1 (upstream pressure) and closing temperature in your order.

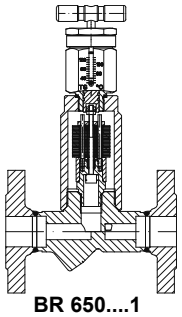
further components

Liquid return temperature limiter

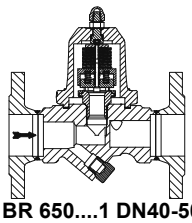
Types of connection:	BR
Flanges (acc. to DIN)	650....1
Screwed sockets (Rp- and NPT)	650....2
Socket-weld ends	650....3
Butt-weld ends	650....4



BR 650....1



BR 650....1
external adjustment
with temperature scale



BR 650....1 DN40-50
external adjustment

			DPMX	TS	DN - NPS				
		Figure	bar	°C	15 - 1/2"	20 - 3/4"	25 - 1"	40 - 1 1/2"	50 - 2"
PN 40	1.0460	45.650....140	6	180	556,-	568,-	598,-	1.246,-	1.367,-
		45.650....240			508,-	531,-	543,-	1.367,-	1.273,-
		45.650....340 45.650....440			521,-	541,-	558,-	1.212,-	1.273,-
Additional performance					DN - NPS				
					15 - 1/2"	20 - 3/4"	25 - 1"	40 - 1 1/2"	50 - 2"
Thermometer insert with adapter					98,-	98,-	98,-	98,-	98,-
External adjustment					187,-	187,-	187,-	standard	

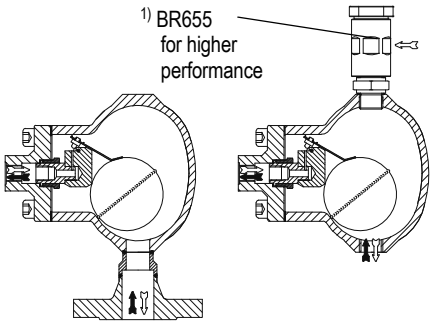
Adjustable closing temperature from 60°C up to 130°C (further temperature ranges on request).

Automatic air vents

Automatic air vents for liquid systems

Types of connection:	BR
Flanges (acc. to DIN)	656....1
Screwed sockets (Rp- and NPT)	656....2
Socket-weld ends	656....3
Butt-weld ends	656....4

Drip pipe
with union
optional



BR 656....1

BR 656....2

Standard installation: vertical (Inlet at the bottom)

				DN - NPS		
		Figure	Controller	15 - 1/2"	20 - 3/4"	25 - 1"
PN 16	Cover **1.0460** / Hood **EN-JS1049**	22.656....240	R14	322,-	--	--
PN 25	Cover **1.0460** / Hood **1.0619+N**	34.656....140	R21	660,-	660,-	660,-
		34.656....240		567,-	567,-	567,-
		34.656....340 34.656....440		615,-	615,-	615,-
	Cover **1.4541** / Hood **1.4308**	54.656....156	R21	1.129,-	1.129,-	1.129,-
		54.656....256		993,-	993,-	993,-
		54.656....356 54.656....456		1.052,-	1.052,-	1.052,-
PN 40	Cover **1.0460** / Hood **1.0619+N**	35.656....140	R21	780,-	780,-	780,-
		35.656....240		661,-	661,-	661,-
		35.656....340 35.656....440		693,-	693,-	693,-
	Cover **1.4541** / Hood **1.4308**	55.656....156	R21	1.302,-	1.302,-	1.302,-
		55.656....256		1.123,-	1.123,-	1.123,-
		55.656....356 55.656....456		1.154,-	1.154,-	1.154,-
1) For higher performance, please order the vacuum breaker (BR655 + connector) additionally.						218,-
Drip pipe (angle) with union joint						28,-
Ball with extended arm (for thermal fluid)						29,-

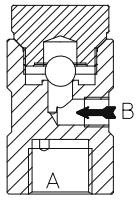
Design acc. to data sheet
Other materials (incl. ASTM) on request
Other types of connection on request

Special design on page 220 / Certifications on page 221
Pressure-temperature-ratings on page 204 or data sheet
Types of connection on page 205

further components / accessories

Vacuum breaker

Types of connection:	BR
Inlet A (Rp 1/2 DIN EN10226-1)	655....2

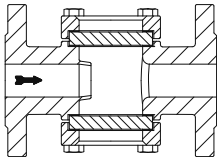


BR 655....2

				ΔPMX	TS	DN
			Figure	bar	°C	15 - 1/2"
PN 16	1.4301	I84	52.655....253	13	400	174,-
PN 40			55.655....253	21	220	174,-

Double window sight glasses

Types of connection:	BR	
Flanges (acc. to DIN)	660....1	
Screwed sockets (Rp- and NPT)	660....2	
Butt weld ends	660....4	
Kind of glasses:	280°C	Borosilicate glass


BR 660....1

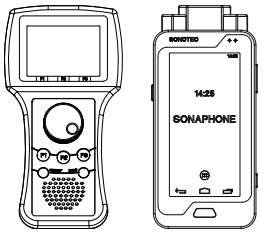
				TS	DN - NPS								
			Figure	°C	15 - 1/2"	20 - 3/4"	25 - 1"	32 - 1 1/4"	40 - 1 1/2"	50 - 2"	65 - 2 1/2"	80 - 3"	100 - 4"
PN 16	EN-JL1040	I81	12.660....110	280	248,-	262,-	331,-	407,-	459,-	517,-	838,-	1.125,-	1.563,-
			12.660....210 (not NPT)		207,-	234,-	272,-	352,-	362,-	459,-	--	--	--
	Body 1.0619+N / Cover 1.0460		32.660....130	280	452,-	504,-	574,-	683,-	812,-	920,-	on request		
			32.660....230		377,-	430,-	539,-	576,-	748,-	885,-	--	--	--
	1.4408		52.660....150	280	635,-	699,-	777,-	983,-	1.186,-	1.436,-	on request		
			52.660....250		503,-	563,-	767,-	816,-	1.090,-	1.425,-	--	--	--
PN 40	Body 1.0619+N / Cover 1.0460		35.660....130	280	491,-	512,-	559,-	709,-	873,-	1.043,-	1.642,-	2.030,-	3.163,-
			35.660....230		388,-	407,-	521,-	626,-	831,-	967,-	--	--	--
			35.660....430		759,-	842,-	935,-	1.154,-	1.195,-	1.418,-	1.995,-	2.441,-	4.142,-
	1.4408		55.660....150	280	698,-	796,-	938,-	1.206,-	1.471,-	1.894,-	on request		
			55.660....250		596,-	657,-	875,-	986,-	1.313,-	1.829,-	--	--	--
			55.660....450		935,-	1.034,-	1.186,-	1.455,-	1.738,-	2.195,-	on request		

Design acc. to data sheet
Other materials (incl. ASTM) on request
Other types of connection on request

Special design on page 220 / Certifications on page 221
Pressure-temperature-ratings on page 204 or data sheet
Types of connection on page 205

Multifunction tester for steam traps

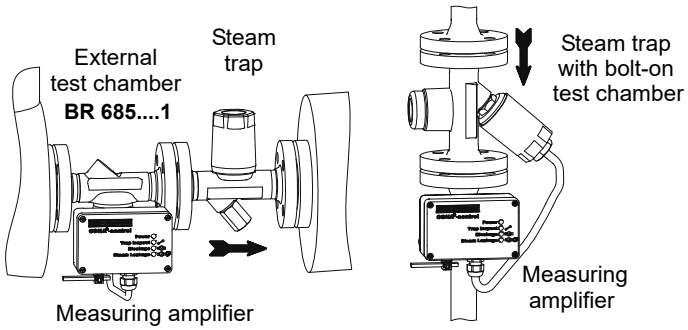
Sonaphone	I84	Digital ultrasonic flaw detector with TFT display, built-in camera, micro-USB port, broadband structure-borne sound sensor with infrared thermometer, headphones and carrying case	1 piece	7.587,- (net)
Sonaphone E with Ex protection (ATEX)		Ultrasonic flaw detector with graphic display, structure-borne sound sensor, surface temperature sensor, data logger with USB interface, headphones and carrying case	1 piece	5.471,- (net)
Additional performance				
Leakexpert app for Sonaphone with broadband airborne sound sensor and accessories			1 piece	2.161,- (net)
Airborne sound sensor with Ex protection (ATEX) for Sonaphone E			1 piece	893,- (net)



Sonaphone E Sonaphone

CONA®-control Monitoring system for steam traps

Types of connection:	BR
Flanges (acc. to DIN)	685....1
Screwed sockets (Rp- and NPT)	685....2
Socket weld ends	685....3
Butt weld ends	685....4



Standard-design (Stand-alone-operation)

with LED-card, on-site indication by LED's, incl. calorimetric sensor and 1m sensor cable (sensor and measuring amplifier wired)

				DN - NPS				
			Figure	15 - 1/2"	20 - 3/4"	25 - 1"	40 - 1 1/2"	50 - 2"
PN 40	External test chamber with measuring amplifier	1.0460	45.685....1/2/3/4	637,-	637,-	637,-	855,-	855,-
		1.4541	55.685....1/2/3/4	818,-	818,-	818,-	1.346,-	1.346,-
Optional for CONA® -steam traps (BR 601, 612, 613, 641 DN15-40, DN50 on request)				Connecting thread				
				M20 x 1,5			M27 x 1,5	
PN 40	Bolt-on test chamber with measuring amplifier	1.0460		567,-			575,-	
		1.4541		619,-			625,-	

Additional performance	DN - NPS				
	15 - 1/2"	20 - 3/4"	25 - 1"	40 - 1 1/2"	50 - 2"
Power supply (Supply voltage 100V - 240V AC, output voltage 30V DC)	481,-				

Relay-design (Stand-alone-operation)

with relay-card, on-site indication by LED's, incl. calorimetric sensor and 1m sensor cable (sensor and measuring amplifier wired)

				DN - NPS				
			Figure	15 - 1/2"	20 - 3/4"	25 - 1"	40 - 1 1/2"	50 - 2"
PN 40	External test chamber with measuring amplifier	1.0460	45.685....1/2/3/4	734,-	734,-	734,-	951,-	951,-
		1.4541	55.685....1/2/3/4	915,-	915,-	915,-	1.440,-	1.440,-
Optional for CONA® -steam traps (BR 601, 612, 613, 641 DN15-40, DN50 on request)				Connecting thread				
				M20 x 1,5			M27 x 1,5	
PN 40	Bolt-on test chamber with measuring amplifier	1.0460		663,-			669,-	
		1.4541		712,-			722,-	

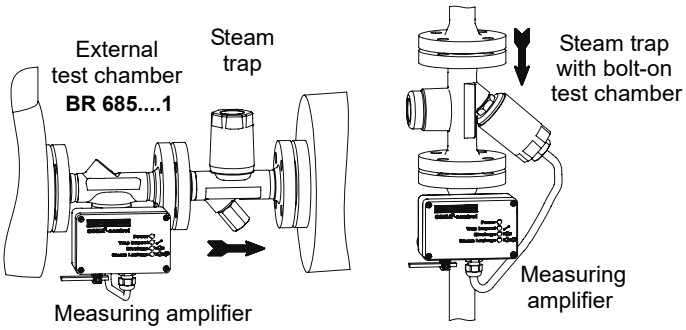
Additional performance	DN - NPS				
	15 - 1/2"	20 - 3/4"	25 - 1"	40 - 1 1/2"	50 - 2"
Power supply (Supply voltage 100V - 240V AC, output voltage 30V DC)	481,-				

Design acc. to data sheet
Other materials (incl. ASTM) on request

Special design on page 220 / Certifications on page 221
Pressure-temperature-ratings on page 204 or data sheet
Types of connection on page 205

CONA®-control Monitoring system for steam traps

Types of connection:	BR
Flanges (acc. to DIN)	685....1
Screwed sockets (Rp- and NPT)	685....2
Socket weld ends	685....3
Butt weld ends	685....4



AS-i-design (Central status indication)

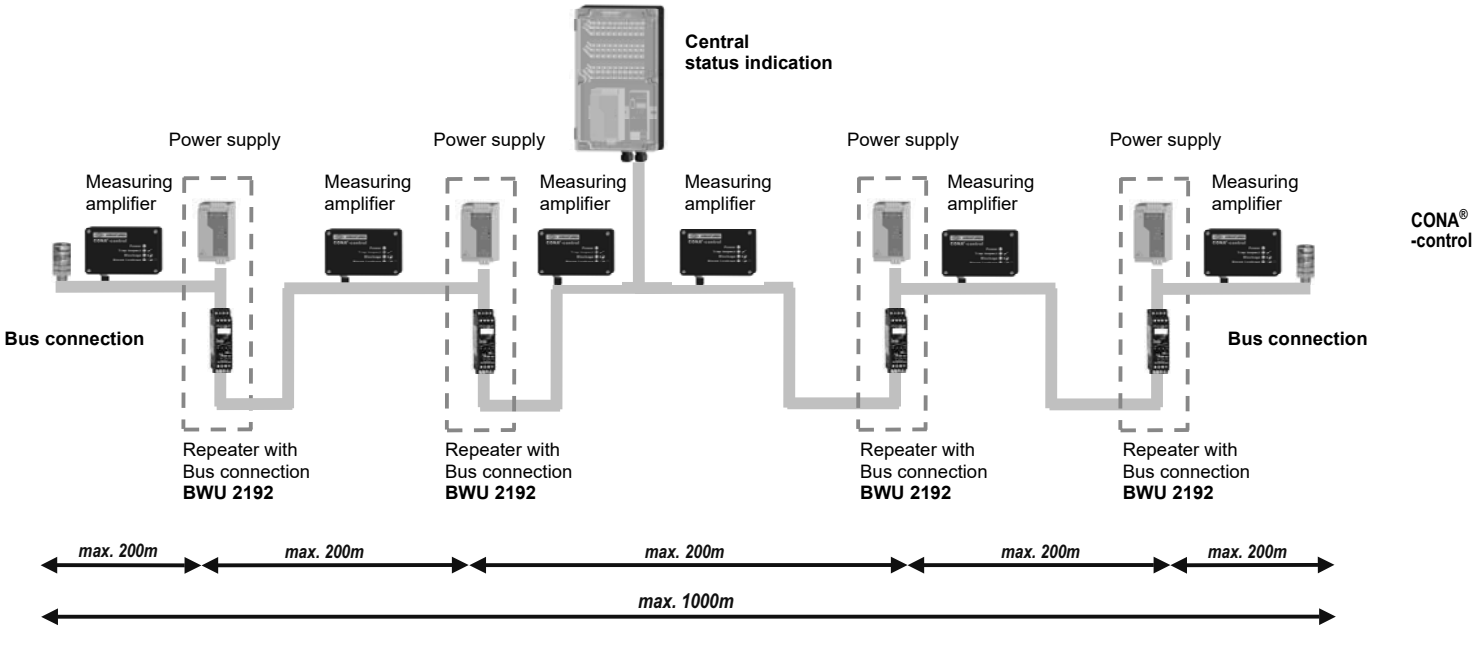
with AS-i-Bus card, on-site indication by LED's, incl. calorimetric sensor and 1m sensor cable (sensor and measuring amplifier wired)

				DN - NPS				
			Figure	15 - 1/2"	20 - 3/4"	25 - 1"	40 - 1 1/2"	50 - 2"
PN 40	External test chamber with measuring amplifier	1.0460	45.685....1/2/3/4	742,-	742,-	742,-	959,-	959,-
		1.4541	55.685....1/2/3/4	922,-	922,-	922,-	1.449,-	1.449,-
Optional for CONA® -steam traps (BR 601, 612, 613, 641 DN15-40, DN50 on request)				Connecting thread				
				M20 x 1,5			M27 x 1,5	
PN 40	Bolt-on test chamber with measuring amplifier	1.0460		670,-			678,-	
		1.4541		723,-			730,-	

Additional performance	DN - NPS				
	15 - 1/2"	20 - 3/4"	25 - 1"	40 - 1 1/2"	50 - 2"
Central status indication	1.655,-				
Indication card (1 pcs. necessary for each status indication)	73,-				
AS-i-Repeater IP20 for line extension by about 100m	on request				
AS-i-Bus connection for doubling of the AS-i-line length	on request				

Design acc. to data sheet
Other materials (incl. ASTM) on request
Other types of connection on request

Special design on page 220 / Certifications on page 221
Pressure-temperature-ratings on page 204 or data sheet
Types of connection on page 205



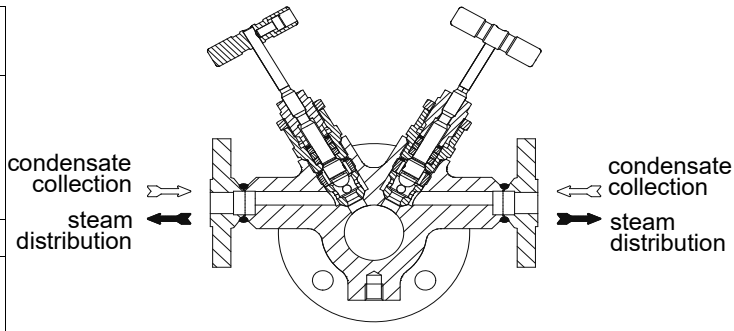
ARI-CODI®S

Manifolds for condensate collection and steam distribution

with stuffing box (BR 671)

For collecting and distributing condensate, steam and liquids

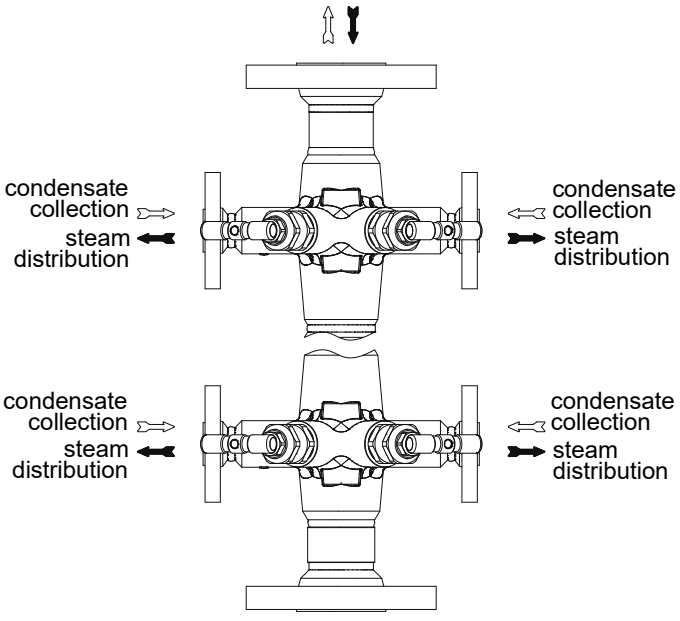
primary connection top and bottom:	BR	nominal diameters DN - NPS
Flanges (acc. to DIN EN and ASME)	671....1	25 / 40 / 50 - 1" / 1 1/2" / 2"
Socket ends	671....3	
Butt weld ends	671....4	
secondary connections:		
Flanges (acc. to DIN EN and ASME)	671....1	15 / 20 / 25 - 1/2" / 3/4" / 1"
Socket ends	671....3	
Butt weld ends	671....4	



I82		
PN 40 - 1.0460		
Connection	**....1**	**....3 / 4**
45.671....-02	935,-	694,-
45.671....-04	1.623,-	1.361,-
45.671....-06	2.296,-	1.880,-
45.671....-08	2.846,-	2.340,-
45.671....-10	3.568,-	2.971,-
45.671....-12	4.239,-	3.557,-
45.671....-14	5.002,-	4.230,-

I82		
PN 40 - 1.4541		
Connection	**....1**	**....3 / 4**
55.671....-02	1.212,-	858,-
55.671....-04	2.170,-	1.679,-
55.671....-06	2.951,-	2.321,-
55.671....-08	3.448,-	2.890,-
55.671....-10	4.578,-	3.671,-
55.671....-12	5.436,-	4.389,-
55.671....-14	6.407,-	5.218,-

	Additional performance		
	Insulating jacket (1 piece)	Fastening parts (1 set)	Immersion tube (1 piece)
BR....-02	--	5,-	--
BR....-04	303,-	17,-	76,-
BR....-06	387,-	34,-	87,-
BR....-08	490,-	34,-	98,-
BR....-10	560,-	39,-	106,-
BR....-12	675,-	39,-	113,-
BR....-14	768,-	48,-	126,-



In case of Steam distribution or condensate collection

Design acc. to data sheet
Other materials (incl. ASTM) on request
Other types of connection on request

Special design on page 220 / Certifications on page 221
Pressure-temperature-ratings on page 204 or data sheet
Types of connection on page 205

Extra prices for additional equipment on primary and secondary connections as well as for accessories on request.
For inquiries or when placing orders, please use the order form of the catalogue.

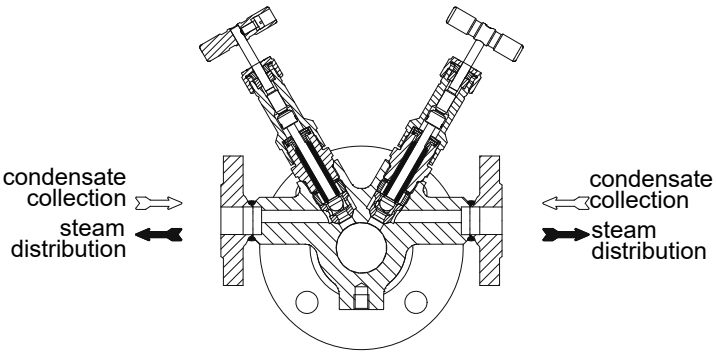
ARI-CODI®B

Manifolds for condensate collection and steam distribution

with bellows seal (BR 675) maintenance-free

For collecting and distributing condensate, steam and liquids

primary connection top and bottom:	BR	nominal diameters DN - NPS
Flanges (acc. to DIN EN and ASME)	675....1	25 / 40 / 50 - 1" / 1 1/2" / 2"
Socket ends	675....3	
Butt weld ends	675....4	
secondary connections:		
Flanges (acc. to DIN EN and ASME)	675....1	15 / 20 / 25- 1/2" / 3/4" / 1"
Socket ends	675....3	
Butt weld ends	675....4	

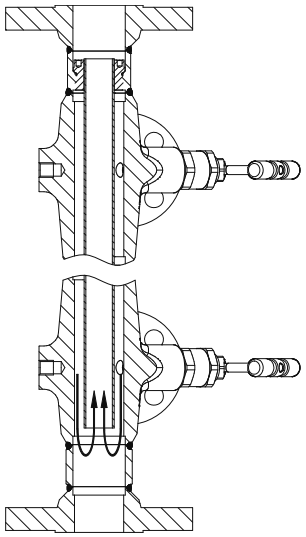


I82		
PN 40 - 1.0460		
Connection	**....1**	**....3 / 4**
45.675....-02	1.208,-	973,-
45.675....-04	2.170,-	1.907,-
45.675....-06	3.052,-	2.634,-
45.675....-08	3.788,-	3.277,-
45.675....-10	4.760,-	4.165,-
45.675....-12	5.662,-	4.978,-
45.675....-14	6.693,-	5.920,-

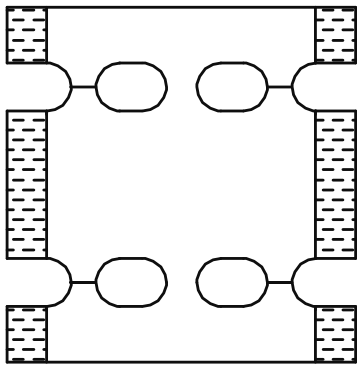
I82		
PN 40 - 1.4541		
Connection	**....1**	**....3 / 4**
55.675....-02	1.553,-	1.202,-
55.675....-04	2.840,-	2.351,-
55.675....-06	3.879,-	3.251,-
55.675....-08	4.603,-	4.048,-
55.675....-10	6.047,-	5.142,-
55.675....-12	7.194,-	6.145,-
55.675....-14	8.491,-	7.306,-

I83		
PN 63 - 1.0460		
Connection	**....1**	**....3 / 4**
46.675....-02	1.410,-	1.070,-
46.675....-04	2.578,-	2.096,-
46.675....-06	3.509,-	2.897,-
46.675....-08	4.148,-	3.607,-
46.675....-10	5.464,-	4.577,-
46.675....-12	6.498,-	5.478,-
46.675....-14	7.667,-	6.512,-

	Additional performance		
	Insulating jacket (1 piece)	Fastening parts (1 set)	Immersion tube (1 piece)
BR....-02	--	5,-	--
BR....-04	303,-	17,-	76,-
BR....-06	387,-	34,-	87,-
BR....-08	490,-	34,-	98,-
BR....-10	560,-	39,-	106,-
BR....-12	675,-	39,-	113,-
BR....-14	768,-	48,-	126,-



Option: Immersion tube [1)]



Option: Insulation jacket against heat radiation

Design acc. to data sheet
Other materials (incl. ASTM) on request
Other types of connection on request

Special design on page 220 / Certifications on page 221
Pressure-temperature-ratings on page 204 or data sheet
Types of connection on page 205

[1)] Immersion tube only for execution as condensate collection

Extra prices for additional equipment on primary and secondary connections as well as for accessories on request.
For inquiries or when placing orders, please use the order form of the catalogue.

Pressure-temperature-ratings for steam traps and components (Abridgement)

Ratings acc. to DIN/EN

Material	PN	Temperature (°C)										Pressures in bar(g)						
		20-120	200	250	300	350	400	450	500	510	520	530	540	550	580	600	630	650
EN-JL1040 (acc. DIN EN 1092-2)	**16**	16	12,8	11,2	9,6													
1.0460/EN-JS1049	**16**	16	14	14	14													
1.4301	**16**	16	13	13	13													
1.0345/1.0565	**25**	25	17	17	17													
1.0460/1.0619+N	**25**	25	22	20	17	16	14											
1.0460	**25**	25	22	20	17	16	13											
1.0571/1.6220+QT [1]	**25**	21	21	21	21													
1.4308	**25**	25	21	21	21													
EN-JS1049	**40**	40	32	32	27	22												
1.0619+N	**40**	40	35	32	28	24	21											
1.0460	**40**	40	35	32	28	24	21	14,5										
1.0571/1.6220+QT [1]	**40**	40	32	32	32													
1.0571 [1]	**40**	40	32	32	32	32	28											
1.5415	**40**	40	40	40	35	31	30	28										
1.0345/1.0565	**40**	40	29	29	25	22												
1.4301	**40**	40	32	32	28	25	22											
1.4541	**40**	40	32	32	32	32	22											
1.4308	**40**	40	32	32	28													
1.4006	**63**	63	42	42	42	42	42											
1.5415/1.7357	**63**	63	63	63	56	50	47	45										
1.5415	**63**	63	63	63	56	50	47	45										
1.5415/1.7357	**100**	100	100	100	87	78	64	50										
1.5415	**100**	100	100	100	90	90	90	90	54	45	36	27						
1.7335/1.7357	**100**	100	100	100	100	95	91	87	74	60	40							
1.7335/1.7357	**160**	160	160	160	160	153	146	139	118	100	79	62	46	35				
1.7335	**160**	160	160	160	160	153	146	139	118	100	79	62	46	35				
1.7380	**250**	250	250	250	250	238	227	217	184	154	124	108	95	81				
1.7380	**320**	320	320	320	320	304	292	278	237	200	158	139	121	104				
1.7380	**400**	400	400	400	400	380	364	348	295	250	198	174	151	130				
1.7380	**630**	630	300	300	300	300	300	300	300	300	300	300	292	250	162			
1.4901	**630**	630	320	320	320	320	320	320	320	320	320	320	320	320	320	320	220	160
1.4903	**630**	630	300	300	300	300	300	300	300	300	300	300	300	298	280	130		

- Operating limits for controller have to be observed !
- Values not acc. to DIN EN 1092 (except EN-JL1040)!
- PN630 acc. to AWH-factory specifications

Design and operating limits
- acc. to data sheet
- acc. to calculation program ARI-myValve

Intermediate values for max. permissible operational pressures only above 120°C can be determined by linear interpolation of the given temperature / pressure chart.

Attention:
The operating conditions of steam traps are related to the temperature- and pressure values of the steam saturation curve. This chart comprises the commonly used operating conditions of ARI/AWH steam traps.
e.g.: PN100, 1.5415 with 100bar at 250°C is water, because of the boiling point (at approx. 310°C).

[1] Applicable up to -50°C

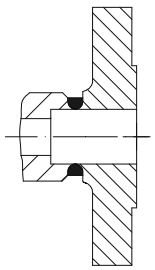
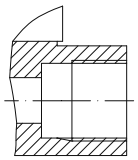
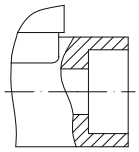
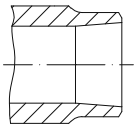
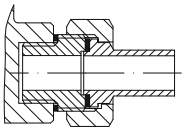
Ratings acc. to ASME B16.34 Edition 2017 Standard Class

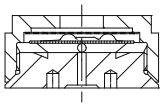
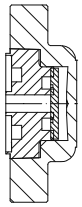
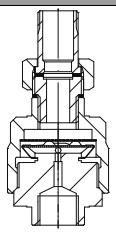
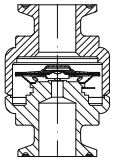
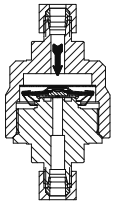
Material Group	Material example	ANSI Class	Temperature in °F										Pressures in psig					
			100	200	300	400	500	600	650	700	750	800	850	900	950	1000	1050	1100
1.1	**SA105**	**150**	285	260	230	200	170	140	125	110	95	80						
1.1	**SA350LF2** [2]	**150**	285	260	230	200	170	140	125	110	95							
2.4	**F321**	**150**	275	250	230	200	170	140	125	110	95	80	65	50	35			
1.1	**SA105**	**300**	740	680	655	635	605	570	550	530	505	410						
1.1	**SA350LF2** [2]	**300**	740	680	655	635	605	570	550	530	505							
2.4	**F321**	**300**	720	650	595	550	515	485	475	465	460	450	445	440	385			
1.1	**SA105**	**600**	1480	1360	1310	1265	1205	1135	1100	1060	1015	825						
1.17	**F12 Cl.2**	**600**	1500	1470	1400	1335	1290	1210	1175	1135	1065	1015	975	745	550	400		
1.17	**F12 Cl.2**	**900**	2250	2210	2100	2005	1940	1815	1765	1705	1595	1525	1460	1120	825	595		
1.10	**F22 Cl.3**	**1500**	3750	3750	3640	3530	3325	3025	2940	2840	2660	2540	2435	2245	1930	1335		
1.10	**F22 Cl.3**	**2500**	6250	6250	6070	5880	5540	5040	4905	4730	4430	4230	4060	3745	3220	2230	1455	915
1.15	**F91**	**2500**	6250	6250	6070	5880	5540	5040	4905	4730	4430	4230	4060	3745	3220	3030	3000	2515

Material Group	Material example	ANSI Class	Temperature in °C										Pressures in in bar(g)					
			37,8	93,3	148,9	204,4	260,0	315,6	343,3	371,1	398,9	426,7	454,4	482,2	510,0	537,8	565,6	593,3
1.1	**SA105**	**150**	19,7	17,9	15,9	13,8	11,7	9,7	8,6	7,6	6,6	5,5						
1.1	**SA350LF2** [2]	**150**	19,7	17,9	15,9	13,8	11,7	9,7	8,6	7,6	6,6							
2.4	**F321**	**150**	19,0	17,2	15,9	13,8	11,7	9,7	8,6	7,6	6,6	5,5	4,5	3,4	2,4			
1.1	**SA105**	**300**	51,0	46,9	45,2	43,8	41,7	39,3	37,9	36,6	34,8	28,3						
1.1	**SA350LF2** [2]	**300**	51,0	46,9	45,2	43,8	41,7	39,3	37,9	36,6	34,8							
2.4	**F321**	**300**	49,7	44,8	41,0	37,9	35,5	33,4	32,8	32,1	31,7	31,0	30,7	30,3	26,6			
1.1	**SA105**	**600**	102,1	93,8	90,3	87,2	83,1	78,3	75,9	73,1	70,0	56,9						
1.17	**F12 Cl.2**	**600**	103,4	101,4	96,6	92,1	89,0	83,4	81,0	78,3	73,4	70,0	67,2	51,4	37,9	27,6		
1.17	**F12 Cl.2**	**900**	155,2	152,4	144,8	138,3	133,8	125,2	121,7	117,6	110,0	105,2	100,7	77,2	56,9	41,0		
1.10	**F22 Cl.3**	**1500**	258,6	258,6	251,0	243,4	229,3	208,6	202,8	195,9	183,4	175,2	167,9	154,8	133,1	92,1		
1.10	**F22 Cl.3**	**2500**	431,0	431,0	418,6	405,5	382,1	347,6	338,3	326,2	305,5	291,7	280,0	258,3	222,1	153,8	100,3	63,1
1.15	**F91**	**2500**	431,0	431,0	418,6	405,5	382,1	347,6	338,3	326,2	305,5	291,7	280,0	258,3	222,1	209,0	206,9	173,4

[2] Applicable up to -46°C / -50 °F

Types of connection

Flanges 1	Screwed sockets 2	Socket weld ends 3	Butt weld ends 4	Union / butt-weld nipples 5
				
acc. to DIN / EN or ANSI	acc. to data sheet respect. as desired	acc. to DIN EN 12760 (previous DIN 3239 T1)	acc. to DIN EN 12627 (previous DIN 3239 T2)	acc. to data sheet respect. as desired

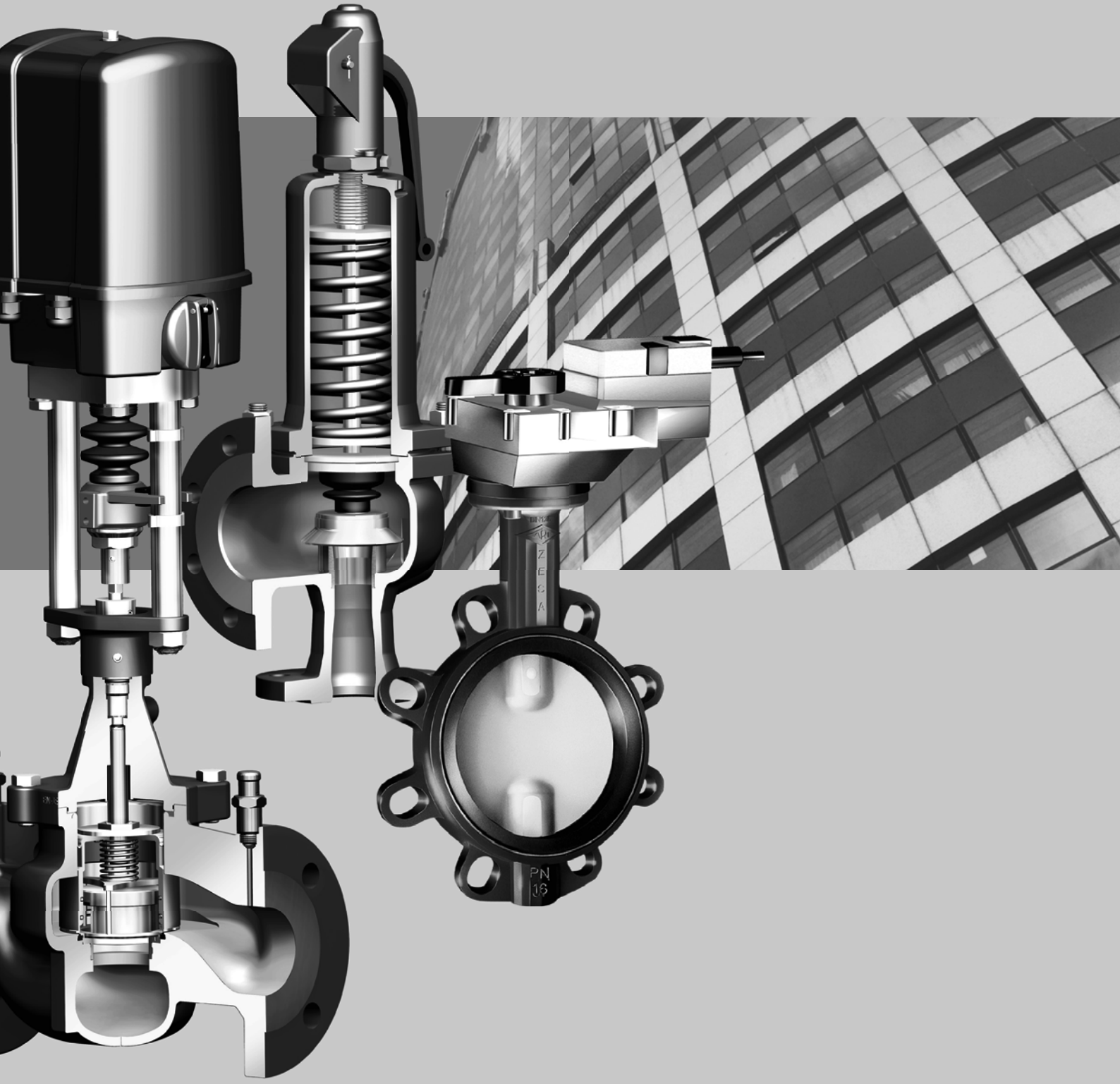
Wafer pattern 6	Loose flange 7	Screwed male / female 9	Clamp connection ....a	Compression ring connection c
				
acc. to data sheet respect. as desired	acc. to data sheet respect. as desired	acc. to data sheet respect. as desired	acc. to DIN 32676 or BS 4825-3	acc. to DIN 2353 or EN ISO 8434-1

Special models refer to page 220

Further connections on request

Notes:

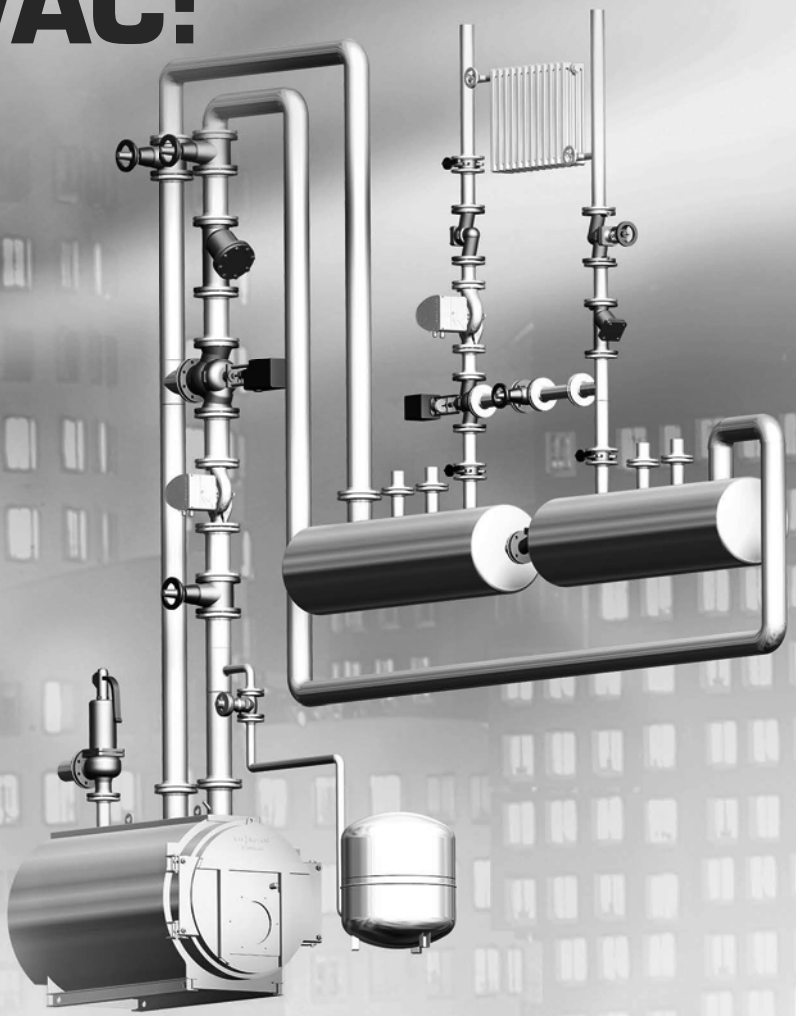
BUILDING TECHNOLOGY



ARMATUREN

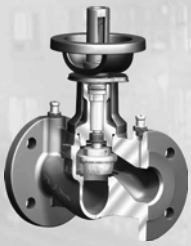
BUILDING
TECHNO-
LOGY

Your tailor made system for HVAC!



ZESA® / GESA®
Butterfly Valves

Variable, Safe, Flexible: Reliable tight shut-off due to the chambered sealing mechanism and more economical due to smaller electrical actuator (ZESA®-EA)



ASTRA® / ASTRA®-Plus
Flow Regulating Valves

Systemized Flow Regulation: Cost effectiveness through digital precision. ARImetec-DX designed for hydraulic balancing. Optimal handling by Smartphone capability and wireless operation based on “Bluetooth” technology

EURO-WEDI®
Soft-seated Isolation Valves

Low closing torque and low wearing sealing with optimized control characteristic.

SAFE Safety Valves

Security for building technology, heating, cooling and hotwater systems. Acc. to DIN EN 12828, EN ISO 4126-1 and TRD 721.

ARI ARMATUREN

ARI- EURO-WEDI®

Stop valves with soft seal
face-to-face dimension EN 558 FTF-14
- maintenance-free - / Zeta-value approx. 1,2

PN 6 / 16 up to 120°C (130°C for a short time)
cast iron EN-JL1040

Standard:
Locking device and travel limiter [1)],
insulating cap with integrated dew point barrier,
throttling function and indicator

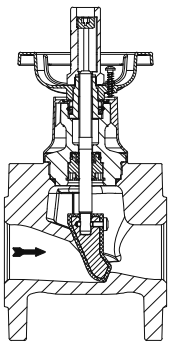


Fig. 10./12.070

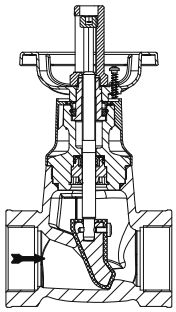


Fig. 12.076

Stop- and hood-valves acc. to EN 558 FTF-14			DN										
			15	20	25	32	40	50	65	80	100	125	150	200
G11	PN 6 straight through	**Fig.10.070**	138,-	150,-	174,-	193,-	210,-	244,-	319,-	383,-	525,-	753,-	1.003,-	2.466,-
		Locking device and travel limiter	standard											2.693,-
	PN 16 straight through	**Fig.12.070**	138,-	150,-	174,-	193,-	210,-	258,-	359,-	454,-	612,-	979,-	1.229,-	2.835,-
		Locking device and travel limiter	standard											3.061,-
	Hood-valves	**PN 6 straight thr. Fig.10.072**	206,-	221,-	245,-	264,-	281,-	339,-	415,-	485,-	625,-	1.161,-	1.380,-	2.931,-
		PN 16 straight thr. Fig.12.072	206,-	221,-	245,-	264,-	281,-	346,-	458,-	580,-	737,-	1.348,-	1.609,-	3.267,-

Stop valve with screwed socket acc. to EN 558 FTF-14			INCH					
			1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
G13	PN 16 straight through	**Fig.12.076**	120,-	139,-	158,-	168,-	186,-	232,-
		Locking device and travel limiter	standard					
	Hood-valve	**PN 16 straight thr. Fig. 12.078**	187,-	200,-	216,-	221,-	240,-	282,-

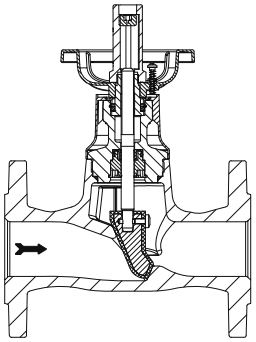
Design acc. to data sheet

[1)] Optional at DN200

ARI- EURO-WEDI®

Stop valves with soft seal
face-to-face dimension EN 558 FTF-1
- maintenance-free - / Zeta-value approx. 1,2

PN 6 / 16 up to 120°C (130°C for a short time)
cast iron EN-JL1040



EURO-WEDI®

Fig. 10./12.071

Standard:
Locking device and travel limiter [1)],
insulating cap with integrated dew point barrier,
throttling function and indicator

Stop- and hood-valves acc. to EN 558 FTF-1			DN											
			15	20	25	32	40	50	65	80	100	125	150	200
G12	PN 6 straight through	**Fig.10.071**	166,-	186,-	206,-	237,-	265,-	299,-	398,-	475,-	657,-	938,-	1.265,-	2.717,-
		Locking device and travel limiter	standard											2.962,-
	PN 16 straight through	**Fig.12.071**	166,-	186,-	206,-	237,-	265,-	321,-	443,-	566,-	760,-	1.226,-	1.531,-	3.526,-
		Locking device and travel limiter	standard											3.777,-
	Hood-valve	**PN 6 straight thr. Fig.10.073**	245,-	263,-	282,-	318,-	374,-	409,-	476,-	597,-	772,-	1.100,-	1.438,-	3.341,-
		PN16 straight thr. Fig.12.073	245,-	263,-	282,-	318,-	374,-	414,-	559,-	692,-	898,-	1.383,-	2.123,-	4.232,-

Design acc. to data sheet

[1)] Optional at DN200

ARI-ASTRA®

Combined flow regulating valve face-to-face dimension EN 558 FTF-1 - maintenance-free -

PN 16 up to 120°C (130°C for a short time) (DN15-200)
PN 16 up to 200°C [1] (DN250-500) cast iron EN-JL1040

Standard with regulating plug, digital travel indicator and integrated pressure gauge studs

Insulating cap with integrated dew point barrier and EDD at DN15 - 200, with gland seal from DN250

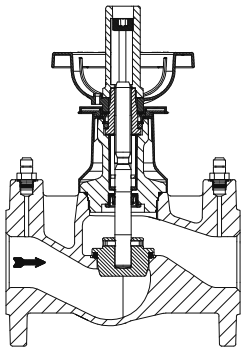


Fig. 12.020 (DN15-200) maintenance-free

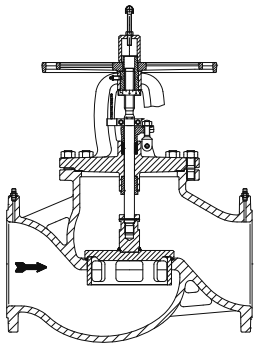


Fig. 12.042 (DN250-500)

Combined flow regulating valve			DN										
			15	20	25	32	40	50	65	80	100	125	150	200
G14	PN 16 straight thr.	Fig. 12.020 EN-JL1040	276,-	316,-	354,-	400,-	475,-	526,-	677,-	1.135,-	1.662,-	2.240,-	2.986,-	6.413,-

Combined flow regulating valve			DN				
			250	300	350	400	500
G15	PN 16 straight thr.	Fig. 12.042 EN-JL1040	6.785,-	9.825,-	11.503,-	14.709,-	38.108,-

Design acc. to data sheet

[1] Refer to page 224, Pressure-temperature-ratings acc. to DIN EN 1092-1/-2

ARI-ASTRA® PLUS

Combined flow regulating valve face-to-face dimension EN 558 FTF-1 - maintenance-free -

PN 16 up to 175°C [1] (DN15-150) nodular iron EN-JS1049
PN 16 up to 350°C [1] (DN200-400)nodular iron EN-JS1049

German "TA-Luft" (clean air act) TÜV-approval

Standard with regulating plug, digital travel indicator and integrated pressure gauge studs (DN15-150)

Bellows sealing with safety gland at DN15 - 200, gland seal from DN250

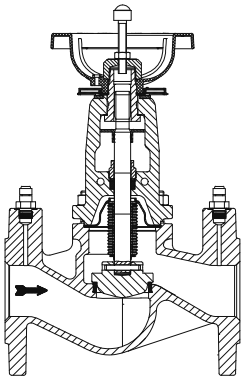


Fig. 22.042 (DN15-200) maintenance-free

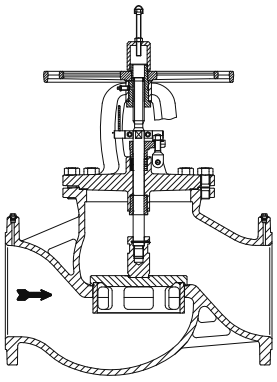


Fig. 22.042 (DN250-400)

Combined flow regulating valve			DN									
			15	20	25	32	40	50	65	80	100	125	150
G16	PN 16 straight thr.	Fig. 22.042 EN-JS1049	341,-	381,-	410,-	489,-	577,-	638,-	824,-	1.269,-	1.852,-	2.502,-	3.329,-

Combined flow regulating valve			DN				
			200	250	300	350	400
G16	PN 16 straight thr.	Fig. 22.042 EN-JS1049	6.846,-	11.967,-	17.226,-	20.896,-	28.501,-

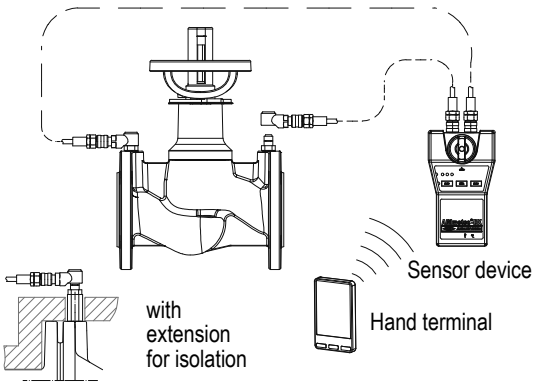
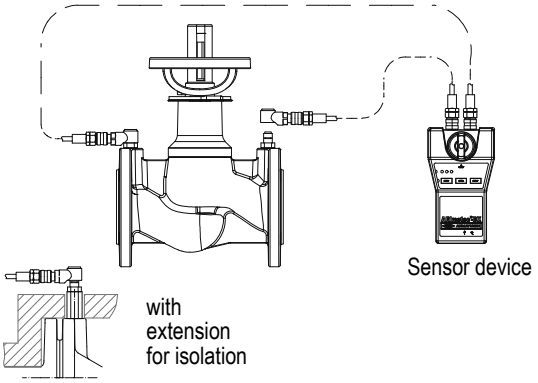
Design acc. to data sheet

PN25 on request

[1] Refer to page 224, Pressure-temperature-ratings acc. to DIN EN 1092-1/-2

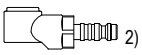
Additional performance

ARI-ASTRA® ARI-ASTRA® PLUS

		Quantity	Price
Balancing instrument ARImetec®-DX is used for flow and differential pressure measurement in hydraulic system, consisting of sensor device and **hand terminal (Android PDA)**		1 pcs.	2.487,- (net)
Balancing instrument ARImetec®-DX is used for flow and differential pressure measurement in hydraulic system, consisting of sensor device and **Smartphone-App** *		1 pcs.	1.848,- (net)

ASTRA®
ASTRA®-Plus
ARImetec®-DX

Accessories ARImetec®-DX		
Surface temperature sensor (PT100) - measuring range -30°C up to 120°C	1 pcs.	on request
* Smartphone-App (Android) available in Google Play Store	unlimited	free of charge
ARImetec®-DX - Power (for measuring of heat quantity)	1 pcs.	on request
Annual calibration	--	on request

Design 1	 1) 2)	Pressure gauge stud with sealing	Fig. 12.020 / 12.042	2 pcs.	standard
			Fig. 22.042 (DN15-150)	2 pcs.	standard
			Fig. 22.042 (DN200-400)	2 pcs.	42,-
	 2)	Adapter for Pressure gauge stud	(One pair is enough for the checking device in one plant)	2 pcs.	68,-
Design 2	 1) 2)	Measuring valve with sealing	(DN50-400)	2 pcs.	48,-
A	 1) 2)	Extension	40 mm (DN32-400)	2 pcs.	41,-

1) Thread side for body connection

Temperature range: **Accessories -10°C up to +90°C**
for measuring -10°C up to +90°C

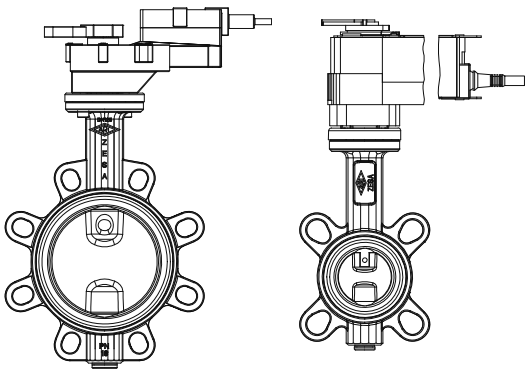
2) Is not permitted for mineral oil medium

ARI-ZESA®-EA

Wafer type butterfly valves;
soft sealed - maintenance-free -
with electric rotary actuator
for HVAC applications
Disc of stainless steel 1.4581 (DN20-80)
or EN-JS1030 with zinc-lamella coating (DN100-200)

PN6/10/16 - DN20-200 of EN-JS1030
DN20 only suitable for flanges PN16
Differential pressure: 6 bar / 3 bar

EPDM-seat: -10°C up to +100°C



EA / EAY
230V 50/0Hz
or 24V AC/DC

EA-SR
230V 0/60Hz
or 24V AC/DC

- Fig. 22.012 -

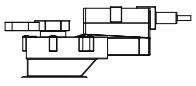
Registration for drinking water

Standard: **DN20/25 - DN80: EPDM seat with DVGW-registration** DW-6201BR0244, acc. to DIN EN 1074-1/-2
incl. disinfection inspection, DVGW W 363 (P) and DVGW W270 for drinking water

Fig. 22.012 [1] PN 6 / 10 / 16					DN									
					20/25	32	40	50	65	80	100	125	150	200
G23	Actuator EA	Open / Close or 3-point	Operat.time s		90	90	90	90	90	90	90	150	150	150
			Type		EA1							EA2		
			ΔP bar		6	6	6	6	6	6	6	6	3	3
					457,-	457,-	495,-	510,-	528,-	573,-	607,-	768,-	931,-	1.265,-
	Actuator EAY	Modulating	Operat.time s		90	90	90	90	90	90	90	150	150	150
			Type		EA1Y							EA2Y		
			ΔP bar		6	6	6	6	6	6	6	6	3	3
					642,-	642,-	680,-	695,-	713,-	758,-	792,-	954,-	1.117,-	1.451,-
	Actuator EA-SR 230V, 50/60Hz	Open / Close	Operat.time s	On	75	75	75	75	75	75	75			
				Off	20 s on electrical power failure									
			Type		EA-SR									
			ΔP bar		6	6	6	6	6	6	6			
					948,-	948,-	986,-	1.001,-	1.019,-	1.064,-	1.098,-			
	Actuator EA-SR 24V AC/DC		Operat.time s	On	90	90	90	90	90	90	90			
				Off	20 s on electrical power failure									
			Type		EA-SR									
			ΔP bar		6	6	6	6	6	6	6			
					1.032,-	1.032,-	1.070,-	1.085,-	1.103,-	1.148,-	1.182,-			

Design acc. to data sheet
[1] Includes 20.012 and 21.012

Electric rotary actuator EA



Type: **EA1, EA2 (open/close or 3-point)**
EA1Y, EA2Y (modulating) 0(2)-10V

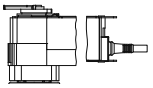
Supply voltage: EA1, EA2: 230V 50/60Hz or 24V AC/DC
EA1Y, EA2Y: 24V AC/DC

Disconnection: Limit switches in both directions

Enclosure: IP 54

Additional performance for accessories		
Box with 2 limit switches for signalisation	set	121,-

Electric rotary actuator EA-SR with fail-safe function



Type: **EA-SR (open/close)**

Supply voltage: 230V 50/60Hz or 24V AC/DC

Equipment: 2 limit switches for signalisation,
Reset to start on failure (Spring closes on electrical power failure / NC)
(optionally: spring opens (NO))

Enclosure: IP 54

G24

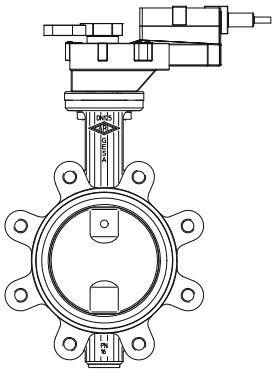
Design acc. to data sheet

ARI-GESA®-EA

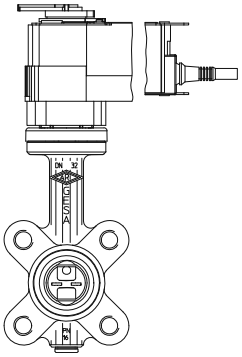
Lug type butterfly valves;
soft sealed - maintenance-free -
with electric rotary actuator
for HVAC applications
Disc of stainless steel 1.4581 (DN20-80)
or EN-JS1030 with zinc-lamella coating (DN100-200)
Installation between two flanges

PN10/16 - DN20-200 of EN-JS1030
Differential pressure: 6 bar / 3 bar

EPDM-seat: -10°C up to +100°C



EA / EAY
230V 50/0Hz
or 24V AC/DC



EA-SR
230V 0/60Hz
or 24V AC/DC

- Fig. 22.013 -

Registration for drinking water

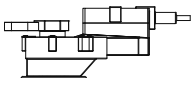
Standard: **DN25 - DN80: EPDM seat with DVGW-registration** DW-6201BR0244, acc. to DIN EN 1074-1/-2
incl. disinfection inspection, DVGW W 363 (P) and DVGW W270 for drinking water

Fig. 21.013 PN 10 Fig. 22.013 PN 16					DN									
					25	32	40	50	65	80	100	125	150	200
G23	Actuator EA	Open / Close or 3-point	Operat.time	s	90	90	90	90	90	90	90	150	150	150
			Type		EA1							EA2		
			Δp	bar	6	6	6	6	6	6	6	6	3	3
					543,-	558,-	574,-	589,-	625,-	638,-	734,-	929,-	988,-	1.395,-
	Actuator EAY	Modulating	Operat.time	s	90	90	90	90	90	90	90	150	150	150
			Type		EA1Y							EA2Y		
			Δp	bar	6	6	6	6	6	6	6	6	3	3
					728,-	743,-	759,-	774,-	810,-	823,-	919,-	1.115,-	1.174,-	1.581,-
	Actuator EA-SR 230V, 50/60Hz	Open / Close	Operat.time	s On	75	75	75	75	75	75	75			
				Off	20 s on electrical power failure									
			Type		EA-SR									
			Δp	bar	6	6	6	6	6	6	6			
					1.034,-	1.049,-	1.065,-	1.080,-	1.116,-	1.129,-	1.225,-			
	Actuator EA-SR 24V AC/DC		Operat.time	s On	90	90	90	90	90	90	90			
				Off	20 s on electrical power failure									
			Type		EA-SR									
			Δp	bar	6	6	6	6	6	6	6			
					1.118,-	1.133,-	1.149,-	1.164,-	1.200,-	1.213,-	1.309,-			

Design acc. to data sheet

ZESA® / GESA®

Electric rotary actuator EA



Type: **EA1, EA2 (open/close or 3-point)**
EA1Y, EA2Y (modulating) 0(2)-10V

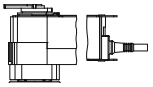
Supply voltage: EA1, EA2: 230V 50/60Hz or 24V AC/DC
EA1Y, EA2Y: 24V AC/DC

Disconnection: Limit switches in both directions

Enclosure: IP 54

Additional performance for accessories		
Box with 2 limit switches for signalisation	set	121,-

Electric rotary actuator EA-SR with fail-safe function



Type: **EA-SR (open/close)**

Supply voltage: 230V 50/60Hz or 24V AC/DC

Equipment: 2 limit switches for signalisation,
Reset to start on failure (Spring closes on electrical power failure / NC)
(optionally: spring opens (NO))

Enclosure: IP 54

G24

Design acc. to data sheet

ARI-SAFE Fig.903/904

Safety valves for heating systems acc. to EN ISO 4126-1, DIN EN 12828 and TRD 721
PN 16 cast iron EN-JL1040
Fig. 12.903 - Set gauge pressures for each nominal diameter (in bar):
2,5/3,0/3,5/4,0/4,5/5,0/5,5/6,0/6,5/7,0/7,5/8,0/8,5/9,0/9,5/10,0
Intermediate values are possible.

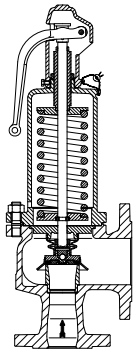


Fig. 12.903/12.904

Fig. 12.903 - for heating systems up to 120 °C and DIN EN 12828
Type test approval TÜV•SV• . . -688•D/G/H
[1] (more than 10 bar Fig. 25.903 in EN-JS1049 / 35.903 in 1.0619+N on request)

Fig. 12.904 - for low pressure steam systems up to 120 °C
Type test approval TÜV•SV• . . -688•D 0,2 - 1,0 bar

			DN									
			20/ 32	25/ 40	32/ 50	40/ 65	50/ 80	65/100	80/125	100/150	125/200	150/250
G61	Spring loaded, WEDI-disc, EPDM-bellow	Fig. 12.903 [1]	605,-	611,-	720,-	923,-	1.191,-	1.546,-	2.077,-	2.908,-	4.288,-	6.121,-
G62	Spring loaded, EPDM-bellow	0,2 - 1,0 bar Fig. 12.904	539,-	546,-	644,-	787,-	1.006,-	1.457,-	2.050,-	2.882,-	3.714,-	5.418,-

Additional performance	DN									
	20/ 32	25/ 40	32/ 50	40/ 65	50/ 80	65/100	80/125	100/150	125/200	150/250
Single springs	80,-	80,-	104,-	172,-	244,-	292,-	467,-	853,-	1.498,-	2.258,-
Drain hole with plug [2]	60,-	60,-	60,-	60,-	60,-	60,-	60,-	60,-	60,-	60,-
Special flange drilling	refer to page 220									

[2] Only Fig. 903

Design acc. to data sheet
Certifications on page 221.

Order data: 1. Figure-No.; 2. Nominal diameter (DN); 3. Nominal pressure (PN); 4. Body material; 5. Set gauge pressures; 6. Special design / Accessories

ARI-SAFE-TC Fig.945/946

Safety valves for heating systems acc. to EN ISO 4126-1, DIN EN 12828 and TRD 721
PN 40 nodular iron EN-JS1049

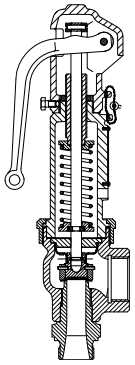


Fig. 25.945/25.946

Fig. 25.945 - for heating systems up to 120 °C-DIN EN 12828
Type test approval TÜV•SV• . . -997•D/G/H

Fig. 25.946 - for low pressure steam systems up to 120 °C
Type test approval TÜV•SV• . . -997•D 0,2 - 1,0 bar

			DN		
			15	20	25
			G1/2" x G3/4"	G3/4" x G1"	G1" x G1 1/4" G1" x G1 1/2"
G63	Spring loaded, WEDI-disc, EPDM-bellow	**Fig. 25.945**	502,-	541,-	558,-
G63	Spring loaded, metal disc, EPDM-bellow	0,2 - 1,0 bar **Fig. 25.946**	472,-	516,-	555,-

Additional performance	DN		
	15	20	25
	G1/2" x G3/4"	G3/4" x G1"	G1" x G1 1/4" G1" x G1 1/2"
Single springs	77,-	77,-	83,-
Special thread	refer to page 220		

Design acc. to data sheet
Certifications on page 221.

Order data: 1. Figure-No.; 2. Nominal diameter (DN); 3. Nominal pressure (PN); 4. Body material; 5. Set gauge pressures; 6. Special design / Accessories

Notes:

GENERAL

Additional performance

DN			10	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400	500
NPS			**3/8"**	**1/2"**	**3/4"**	**1"**	**1 1/4"**	**1 1/2"**	**2"**	**2 1/2"**	**3"**	**4"**	**5"**	**6"**	**8"**	**10"**	**12"**	**14"**	**16"**	**20"**
Operated by impact force		STOBU	395,-	395,-	395,-	395,-	395,-	483,-	483,-	483,-	483,-	483,-	804,-	804,-	804,-	1.238,-	1.238,-	1.238,-	1.238,-	--
Chain wheel [1]		FABA / STOBU / ZESA [2] / GESA [2] / ZIVA [2]	595,-	595,-	595,-	595,-	595,-	665,-	665,-	735,-	735,-	944,-	944,-	944,-	1.125,-	1.125,-	1.125,-	1.125,-	--	--
Stem extension up o max.	500 mm	FABA	233,-	233,-	233,-	233,-	233,-	233,-	233,-	253,-	253,-	253,-	333,-	333,-	333,-	on request		--	--	--
		STOBU	233,-	233,-	233,-	233,-	233,-	397,-	397,-	397,-	853,-	853,-	919,-	1.004,-	1.232,-	1.232,-	1.232,-	--	--	--
	1000 mm	FABA	271,-	271,-	271,-	271,-	271,-	271,-	271,-	271,-	289,-	289,-	289,-	397,-	397,-	on request		--	--	--
		STOBU	271,-	271,-	271,-	271,-	271,-	462,-	462,-	462,-	973,-	973,-	1.092,-	1.192,-	1.469,-	1.469,-	1.469,-	--	--	--
	2500 mm	FABA	394,-	394,-	394,-	394,-	394,-	394,-	394,-	394,-	394,-	412,-	412,-	412,-	553,-	553,-	553,-	--	--	--
		STOBU	394,-	394,-	394,-	394,-	394,-	672,-	672,-	672,-	1.326,-	1.326,-	1.326,-	1.326,-	2.044,-	2.044,-	2.044,-	--	--	--

[1] Add. chain per meter EUR 34,-
endless chain EUR 34,-

[2] Only in combination with worm gear

Special models

The additions, mentioned in percent are calculated on the basic prices:

Special stem with fine thread (standard at FABA)	Valves of cast iron	+30%
	Valves of nodular iron	+25%
	Valves of cast steel	+20%
Valves in weatherproofed design		on request
Valves free of oil and grease at medium touching parts		
Valves free of oil and grease prepared for oxygen acc. to QA026		
Special markings		on request

Special drillings/shapings of flanges, threads, socket weld ends, butt weld ends (Design by agreement)																				
DN	**10**	**15**	**20**	**25**	**32**	**40**	**50**	**65**	**80**	**100**	**125**	**150**	**200**	**250**	**300**	**350**	**400**	**500**
NPS	**3/8"**	**1/2"**	**3/4"**	**1"**	**1 1/4"**	**1 1/2"**	**2"**	**2 1/2"**	**3"**	**4"**	**5"**	**6"**	**8"**	**10"**	**12"**	**14"**	**16"**	**20"**
Straight through	69,-	69,-	73,-	83,-	87,-	105,-	113,-	129,-	147,-	187,-	255,-	334,-	529,-	772,-	1.102,-	on request		
3-way	--	108,-	115,-	125,-	139,-	147,-	174,-	186,-	222,-	292,-	379,-	483,-	788,-	1.226,-	1.768,-	--	--	--

ARI-REYCO® Series	refer to page 171 / 174

Special face-to-face dimensions (Design by agreement)	on request

Special treatment / Special painting (Design by agreement)	on request
ARI-valves made of cast iron, nodular iron and cast steel always receive a painting which is appropriate to protect them against corrosion during transportation or when storing them. If it is required by customers to add heat resistant paintings between 130°C and 400°C, or to protect the valves permanently against climatic conditions and corrosion, it may become necessary to use paintings and materials not standardized.	

Attention: when sizing valves ≥ DN125 and max. PN40!

ARI-stop valves with differential pressures exceeding the following pressures, have to be fitted with a pressure balancing plug

Balancing plug	**DN**	**125**	**150**	**200**	**250**	**300**	**350**	**400**	**500**
Differential pressure	**Δ p**	25 bar	21 bar	14 bar	9 bar	6 bar	4,5 bar	3,5 bar	1,5 bar

Max. permissible differential pressure (Δp) in throttling function for regulating plug see data sheet: Kv-flow diagram.

Operating instructions

Operating instructions in German / English / French and other languages are ready for download at www.ari-armaturen.com or they can be ordered by phone +49 52 07 / 994-0 or fax +49 52 07 / 994-158.

Test reports and inspection certificates according to DIN EN 10204
Control valves - Manual stop valves - Butterfly valves - Safety valves - Steam traps

In the course of production each valve will be inspected in accordance with the state of the art.

a) Shell strength and Shell tightness of the pressure-bearing body, test reference, P10 and P11
b) Seat tightness, test reference P12
c) Operability, Test reference F20

Special inspections must be agreed. For certificates all requirements must be indicated in the order. It is not possible to submit inspection certificates after the delivery has been effected.

1. Inspection certificates

- Inspection certificates acc. to EN 10204-3.1
  Final certificate **and** material certificate

1.1. Final certificates

- Inspection certificates acc. to EN 10204-3.1

- Inspection certificates acc. to EN 10204-3.2

- Inspection certificates acc. to EN 10204-3.2
  (inspection made by authorized surveyor of any classification company
  or TÜV, DIN-requirements or Pressure Equipment Directive)

1.2 Material certificates

- Inspection certificates acc. to EN 10204-3.1

- Inspection certificates acc. to EN 10204-3.2

2. Test reports

- Test report acc. to EN 10204-2.2

3. Set pressure TÜV-certificates

- Set pressure TÜV-certificates for safety valves
  (inspection made by TÜV - surveyor)

Prices on request.

Special inspections on request at the QS.

General Service for Industrial valves

Repair, conversion, TÜV testing of safety valves of any type or construction for a site of installation or in our authorised repair centre.	**Price:** Firm price after inspection at site of installation
Repair and reconditioning of stop and control valves all nominal sizes and nominal pressure ratings	**Price:** Firm price after inspection at site of installation Guaranteed new-price use-value at about 50% of the purchase price of a new valve
Spare parts for all valves as OEM parts of from our range of products	**Price:** on request
Inspections of Steam traps Cleaning, repair, replacement	**Price:** Firm price on request
Fittings acceptance tests by TÜV Germanischer Lloyd Lloyds Register of Shipping Det Norske Veritas Registro Italiano Navale Russian Maritime Register of Shipping in our test facility	**Price:** by agreement
Refurbishment of complete condensate systems Removal and installation or pipelines, pipe valves, pumps and tanks	**Price:** on request
Annual service contract for plants	**Price:** by agreement

Replaced standards - materials	Material-No.	Material designation (standard)		
	new		old	
Cast iron	EN-JL1040	EN-GJL-250 (DIN EN 1561)	0.6025	GG-25 (DIN 1691)
Nodular iron	EN-JS1030	EN-GJS-400-15 (DIN EN 1563)	0.7040	GGG-40 (DIN 1693)
	EN-JS1049	EN-GJS-400-18U-LT(DIN EN 1563)	0.7043	GGG-40.3 (DIN 1693)
Malleable cast iron	EN-JM1130	EN-GJMB-350-10 (DIN EN 1562)	0.8135	GTS-35-10 (DIN 1692)
Cast steel	1.7357	G17CrMo5-5 (DIN EN 10213-2)	1.7357	GS-17CrMo5 5 (DIN 17245)
	1.0619+N	GP240GH+N(DIN EN 10213)	1.0619.01	1.0619+N (GS-C25N) (DIN 17245)
Forged steel	1.0345	P235GH (DIN EN 10216-2)	1.0305	St 35.8 (DIN 17175)
	1.0460	P250 GH (DIN EN 10222-2)	1.0460	C22.8 (DIN 17243)
Stainless steel	1.4057	X17CrNi16-2 (DIN EN 10088-1)	1.4057	X 20 CrNi 17 2 (DIN 17440)
	1.4122.05	X35CrMo17V (SEW 400)	1.4122.05	X 35 CrMo 17 (SEW 400)
	1.4301	X5CrNi18-10 (DIN EN 10088-1)	1.4301	X5CrNi18 10 (DIN 17440)
	1.4305	X8CrNiS18-9(DIN EN 10088-1)	1.4305	X10CrNiS18 9 (DIN 17440)
	1.4308	GX5CrNi19-10 (DIN EN 10213-1)	1.4308	G-X6CrNi 18 9 (DIN 17145)
	1.4310	X10CrNi18-8 (DIN EN 10270-3)	1.4310	X12CrNi17 7 (DIN 17224)
	1.4401	X5CrNiMo17-12-2 (DIN EN 10088-1)	1.4401	X5CrNiMo17 12 2 (DIN 17440)
	1.4404	X2CrNiMo17-12-2 (DIN EN 10088-1)	1.4404	X2CrNiMo17 12 2 (DIN 17440)
	1.4408	GX5CrNiMo19-11-2 (DIN EN 10213-4)	1.4408	G-X6CrNiMo18 10 (DIN 17445)
	1.4439	G-X2CrNiMoN17 13 5 (VdTÜV WB 458)	1.4439	G-X2CrNiMoN17 13 5 (DIN 17445)
	1.4439	X2CrNiMoN17-13-5 (DIN EN 10088-1)	1.4439	X2CrNiMoN17 13 5 (DIN 17441)
	1.4541	X6CrNiTi18-10 (DIN EN 10088-1)	1.4541	X6CrNiTi18 10 (DIN 17440)
	1.4571	X6CrNiMoTi17 12 2 (DIN EN 10088-1)	1.4571	X6CrNiMoTi17 12 2 (DIN 17440)
	1.4581	GX5CrNiMoN19-11-2 (DIN EN 10213-4)	1.4581	G-X5CrNiMoNb18 10 (DIN 17445)
	1.4923	X22CrMoV12-1 (DIN EN 10269)	1.4923	X22CrMoV12 1 (DIN 1724)
	1.4021+QT	X20Cr13+QT (DIN EN 10088-1)	1.4021.05	X20Cr13V (DIN 17440)
	1.4104+QT	X14CrMoS17+QT (DIN EN 10088-1)	1.4104	X12CrMoS17V (DIN 17440)
	1.4122+QT	X39CrMo17-1+QT (DIN EN 10088-1)	1.4122	X35CrMo17V (DIN 17440)
Red brass / non-iron material	CC480K	CuSn10-Cu (DIN EN 1982)	2.1050.01	G-CuSn 10 (DIN 1705)
	CC491K	CuSn5Zn5Pb5-C (DIN EN 1982)	2.1096.01	G-CuSn5ZnPb (DIN 1705)
	CC499K	CuSn5Zn5Pb2-C	--	--
	CW452K	CuSn6 (DIN EN 12163)	2.1020	CuSn6 (DIN 17672-1)
	CW453K	CuSn8 (DIN EN 12163)	2.1030	CuSn8 (DIN 17672-1)
	CW508L	CuZn37 (DIN EN 12163)	2.0321	CuZn37 (DIN 17672-1)
	CW614N	CuZn39Pb3 (DIN EN 12164)	2.0401	CuZn39Pb3 (DIN 17672-1)
	CW710R	CuZn35Ni3Mn2AlPb (DIN EN 12163)	2.0540	CuZn35Ni2 (DIN 17672-1)
	CW710R-R490	CuZn35Ni3Mn2AlPb-R490 (DIN EN 12163)	2.0540.27	CuZn35Ni2F49 (DIN 17672-1)
High temperature steel / steel	1.0037	S235JR (DIN EN 10025)	1.0037	St 37 (DIN 17100)
	1.0330	DC01 (DIN EN 10139)	1.0330	St 2 (DIN 1624)
	1.0330	Fe P01 (DIN EN 10130)	1.0330	St 12-03 (DIN 1623-1)
	1.0425	P265 GH (DIN EN 10028-2)	1.0425	Kbl. HII (DIN 17200)
	1.0565	P355NH (DIN EN 10028-3)	1.0565	WStE 355 (DIN 17102)
	1.0571	P355QH1 (DIN EN 10222-4)	1.0566	TStE 355 (DIN 17103)
	1.1181	C35E (DIN EN 10269)	1.1181	Ck 35 (DIN 17240)
	1.1191	C45E (DIN EN 10083-1)	1.1191	Ck 45 (DIN 17200)
	1.2067	102Cr6 (DIN EN ISO 4957)	1.2067	100 Cr 6 (DIN 17350)
	1.5026	56Si7 (DIN EN 10132-4)	1.0904	55Si7 (DIN 17222)
	1.5415	16Mo3 (DIN EN 10028-2)	1.5415	15 Mo 3 (DIN 17175)
	1.7218	25CrMo4 (DIN EN 10269)	1.7258	24 CrMo 5 (DIN 17240)
	1.7335	13CrMo4-5 (DIN EN 10028-2)	1.7335	13 CrMo 44 (DIN 17155)
	1.7380	10CrMo9-10 (DIN EN 10028-2)	1.7380	10 CrMo 9 10 (DIN 17155-2)
	1.7709	21CrMoV5-7 (DIN EN 10269)	1.7709	21CrMoV5 7 (DIN 17240)
	1.8159	51CrV4 (DIN EN 10089)	1.8159	50 Cr V4 (DIN 17221)
	1.0335+QT	DD13+QT (DIN EN 10111)	1.0335.05	StW24V (DIN 1614-2)
	1.0715+C	11SMn30+C (DIN EN 10087)	1.0715	9SMn28K (DIN 1651)
	1.0727+C	46S20+C (DIN EN 10087)	1.0727	45S20K (DIN 1651)
Welding material	--	G19 9 Nb Si (DIN EN 12072)	1.4551	X5CrNiNb 19 9 (DIN 8556)

Changed designs	Standards	
	new	old
Face-to-face dimension of valves with flanges	DIN EN 558 series FTF-1	DIN 3202 T1 F1
	DIN EN 558 series FTF-14	DIN 3202 T1 F4
Round flanges for valves	DIN EN 1092-2	DIN 2531 / 32 / 33; DIN 2860...
Flange seals	DIN EN 1514-1	DIN 2690 PN 6-40

Every valve and strainer-application requires checking of the temperature and pressure limitation of the body for basic materials.
Please check furthermore the temperature and pressure resp. pressure drop limitation of gland packings, linings, coatings, seat and trim.
Please check in the tables below the temperature and pressure limitation for the body-materials of our valves and strainers.

Pressure-temperature-ratings acc. to DIN EN 1092-1/-2 and manufacturers standard

(Cast iron, nodular iron, cast steel, forged steel, stainless steel, high temperature steel, red brass)

acc. to DIN EN 1092-2			Temperature								
Material (Body)			-60°C up to <-10°C [1]	-10°C up to 120°C	150°C	200°C	250°C	300°C	350°C	400°C	450°C
EN-JL1040 (GG-25)	**PN 6**	(bar)	--	6	5,4	4,8	4,2	3,6	--	--	--
	PN 16	(bar)	--	16	14,4	12,8	11,2	9,6	--	--	--
EN-JS1049 (GGG-40.3)	**PN 10**	(bar)	on request	10	9,7	9,2	8,7	8	7	--	--
	PN 16	(bar)	on request	16	15,5	14,7	13,9	12,8	11,2	--	--
	PN 25	(bar)	on request	25	24,3	23	21,8	20	17,5	--	--
	PN 40	(bar)	on request	40	38,8	36,8	34,8	32	28	--	--

acc. to manufacturers standard			Temperature								
Material (Body)			-60°C up to <-10°C [1]	-10°C up to 50°C	120°C	150°C	200°C	250°C	300°C	350°C	400°C	450°C
1.0619+N (GS-C25N)	**PN 6**	(bar)	--	6	5,38	5,2	5	4,5	4,1	3,8	3,5	1,9
	PN 10	(bar)	--	10	9,2	8,8	8,3	7,6	6,9	6,4	5,9	3,2
	PN 16	(bar)	12	16	16	15,3	14	13	11	10,2	9,5	5,2
	PN 25	(bar)	18,7	25	25	23,9	22	20	17,2	16	14,8	8,2
	PN 40	(bar)	30	40	40	38,1	35	32	28	25,7	23,8	13,1

acc. to manufacturers standard			Temperature							
Material (Body)			-10°C up to 50°C	100°C	150°C	200°C	250°C	300°C	350°C	400°C
1.0619+N (GS-C25N)	**PN 63**	(bar)	63	59	56	53	48	44	41	38
	PN 100	(bar)	100	93	88	83	76	69	64	60
	PN 160	(bar)	160	149	141	133	122	110	103	95

acc. to manufacturers standard			Temperature								
Material (Body)			-60°C up to <-10°C [1]	-10°C up to 120°C	150°C	200°C	250°C	300°C	350°C	400°C	450°C
1.0460 (C22.8)	**PN 25**	(bar)	18,7	25	23,9	22	20	17,2	16	14,8	10
	PN 40	(bar)	30	40	38,1	35	32	28	25,7	23,8	16
	PN 63	(bar)	--	63	58	50	45	40	36	32	24
	PN 100	(bar)	--	100	90	80	70	60	56	50	38
	PN 160	(bar)	--	160	145	130	112	96	90	80	60

acc. to DIN EN 1092-1			Temperature								
Material (Body)			-60°C up to <-10°C [1]	-10°C up to 100°C	150°C	200°C	250°C	300°C	350°C	400°C	450°C
1.4408	**PN 6**	(bar)	--	6	5,4	5	4,7	4,4	4,2	4,1	--
	PN 10	(bar)	--	10	9	8,4	7,9	7,4	7,1	6,8	--
	PN 16	(bar)	16	16	14,5	13,4	12,7	11,8	11,4	10,9	--
	PN 25	(bar)	25	25	22,7	21	19,8	18,5	17,8	17,1	--
	PN 40	(bar)	40	40	36,3	33,7	31,8	29,7	28,5	27,4	--
1.4581	**PN 16**	(bar)	8	16	15,6	14,9	14,1	13,3	12,8	12,4	--
	PN 25	(bar)	12,5	25	24,5	23,3	22,1	20,8	20,1	19,5	--
	PN 40	(bar)	20	40	39,2	37,3	35,4	33,3	32,1	31,2	--
	PN 100	(bar)	50	100	98	93,3	88,5	83,3	80,4	78	--

acc. to manufacturers standard			Temperature									
Material (Body)			-10°C up to 250°C	300°C	350°C	400°C	450°C	500°C	520°C	530°C	540°C	550°C
1.5415	**PN 63**	(bar)	63	56	50	47	45	29	16	14	--	--
	PN 100	(bar)	100	87	78	74	70	45	27	22	--	--
	PN 160	(bar)	160	139	125	118	112	72	43	35	--	--
1.7335	**PN 63**	(bar)	63	63	61	58	56	47	32	25	20	15
	PN 100	(bar)	100	100	95	91	87	74	49	38	31	24
	PN 160	(bar)	160	160	153	146	139	118	79	62	46	35
1.7357	**PN 63**	(bar)	63	63	60	57	53	41	28	23	--	--
	PN 100	(bar)	100	100	95	90	84	65	45	37	--	--
	PN 160	(bar)	160	160	152	144	135	104	72	59	--	--

acc. to manufacturers standard			Temperature						
Material (Body)			-10°C up to 400°C	450°C	500°C	520°C	530°C	540°C	550°C
1.7379	**PN 63**	(bar)	63	57,2	35,7	28,4	24,7	21	17,3
	PN 100	(bar)	100	90,8	56,7	45	39,2	33,3	27,5
	PN 160	(bar)	160	145,3	90,7	72	62,7	53,3	44

			Temperature									
Material (Body)			-60°C up to <-10°C [1]	-10°C up to 20°C	100°C	150°C	200°C	250°C	300°C	350°C	400°C	450°C
1.4439	**PN 16**	(bar)	8	16	15,5	14,6	13,9	13,2	12,4	12	11,7	--
	PN 25	(bar)	12,5	25	24,2	22,9	21,8	20,7	19,4	18,8	18,2	--
	PN 40	(bar)	20	40	38,8	36,6	34,8	33,1	31,1	30	29,2	--
CC491K / CC499K	**PN 16**	(bar)	--	16	16	16	--	--	--	--	--	--
	PN 25	(bar)	--	25	25	25	--	--	--	--	--	--

Intermediate values for max. permissible operational pressures can be determined by linear interpolation of the given temperature / pressure chart.

Pressure-temperature-ratings for steam traps and components refer to page 204

[1] Studs and nuts made of A4-70 (at temperatures below -10°C)

Pressure-temperature-ratings for Double offset butterfly valve ZEDOX®

acc. to manufacturers standard			Temperature						
Material (Body)			**-40°C up to -10°C**	**-10°C up to 50°C**	**100°C**	**150°C**	**200°C**	**250°C**	**260°C**
1.0619+N (GS-C25N)	**PN 25**	(bar)	25	25	23,4	22,2	21	19,2	18,8
	PN 40	(bar)	40	40	37,4	35,5	33,6	30,7	30,1

acc. to manufacturers standard			Temperature						
Material (Body)			**-40°C up to <-10°C**	**-10°C up to 50°C**	**100°C**	**150°C**	**200°C**	**250°C**	**260°C**
1.4408	**PN 25**	(bar)	--	25	23,8	21,4	18,9	17,5	17,2
	PN 40	(bar)	--	40	38,1	34,2	30,2	28	27,6
1.4307	**PN 16**	(bar)	16	16	14,8	13,2	11,7	10,8	10,6
	PN 25	(bar)	25	25	23,1	20,7	18,2	16,8	16,5
1.4404	**PN 16**	(bar)	--	16	15,7	14,3	13	11,7	11,4
	PN 25	(bar)	--	25	24,5	22,4	20,3	18,2	17,8

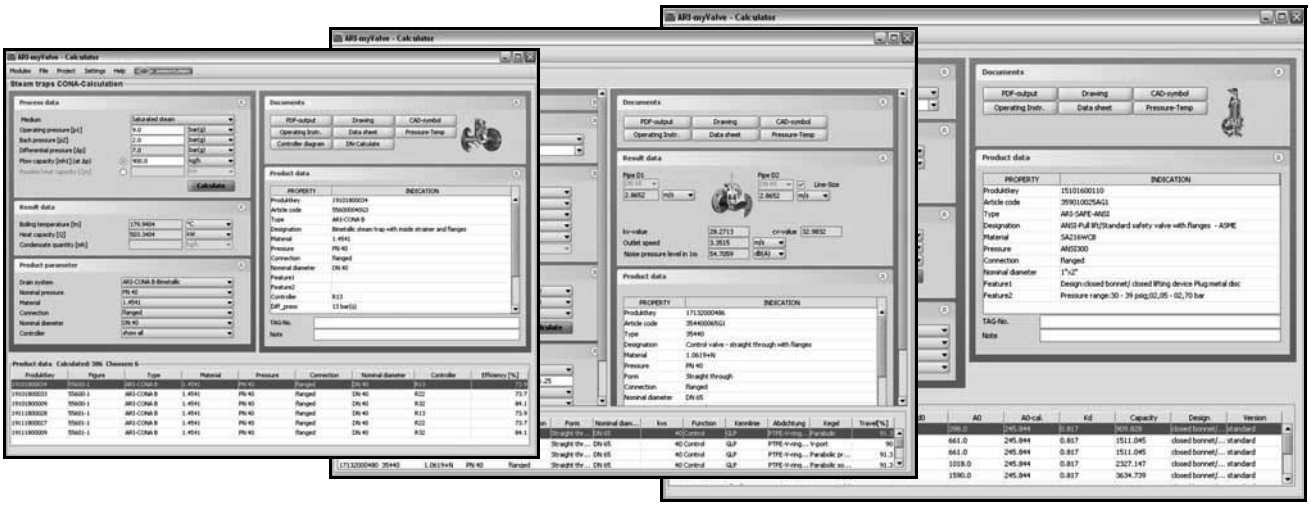
acc. to manufacturers standard			Temperature						
Material (Body)			**-40°C up to <-10°C**	**-10°C up to 50°C**	**100°C**	**150°C**	**200°C**	**250°C**	**260°C**
1.0425 (H II)	**PN 16**	(bar)	16	16	15	14,2	13,4	12,3	12,1
	PN 25	(bar)	25	25	23,4	22,2	21	19,2	18,8

Intermediate values for max. permissible operational pressures can be determined by linear interpolation of the given temperature / pressure chart.

ARI-myValve®

Your new valve sizing program for Control – Isolation – Safety – Steam trapping.

If the valve type and/or the size is not yet determined, we are offering our assistance for sizing.
Please use our calculating program ARI-myValve®.



Contents / Module:

- Control valves (STEVI® for industry applications and STEVI®-H for HVAC applications)
Sizing of flow quantity Kv, volume flow Q, pressure drop p, sound level;
Selecting the valve size with given capacity; Selection of the actuator.

- Butterfly valves - triple offset (ZETRIX®)
Sizing of flow quantity Kv, volume flow Q, pressure drop p, sound level;
Selecting the valve size with given capacity; Selection of the actuator.
Calculation of torque for actuators in flow from shaft side and flow from disc side, as well as dynamic torque curves to show the maximum value and the opening angle at which it is reached.

- Pressure reducing valves (PREDU®) / Excess pressure regulator (PREDEX®)
Sizing of valve-size incl. actuator size with given temperature, capacity, inlet and outlet pressure.

- Temperature controller (TEMPTROL®):
Sizing of flow quantity Kv, sound level and selecting the valve size and controller size with given capacity.

- Pressure regulating valves (PRESO®)
Sizing of valve-size with given temperature, flow, set pressure, opening pressure and set pressure.

- Stop valves (FABA®, STOBU®), Check valves (CHECKO®), Balancing valves (ASTRA®/ASTRA®-Plus)
Sizing of valve-size with given temperature, flow and operating pressure.

- Safety valves (SAFE DIN EN, SAFE ASME, REYCO® Series)
Sizing of valve-size with given capacity, temperature, set pressure and back pressure;
Calculation acc. to SAFE DIN EN, AD2000, ASME VIII, API520

- Steam traps (CONA®)
Sizing of steam trap systems with given flow capacity or heat capacity.
Calculation of nominal diameter acc. to given pressure, condensate quantity, condensate sub-cooling and speed.

Media:

Integrated media-databank (more than 160 media) with conditions:
- Gas / vapour
- Steam (saturated and superheated)
- Liquids
- Compressed air

Own media can be managed and additional information can be retrieved.

Special features:

- Project administration of the calculation and product data incl. spare part drawings relating to the project and tag number
- Direct output or calculation and product data in PDF format
- Product data could be taken for a direct order
- SI- and ANSI-units with direct conversion to another databank
- Settings with over pressure or absolute pressure
- All ARI valves are integrated in a databank
- Direct access relating to the product on data sheets, operating instructions, pressure-temperature-diagram, controller characteristics, spare part drawings and CAD-symbols
- Operation in company networks possible (no complex installations on individually PC's necessary)
- Extensive catalogue extending over several product groups

System requirements:

Windows operating systems, Linux, etc.

A program DVD can be ordered
by phone +49 52 07 / 994-0 or fax +49 52 07 / 994-158.

Notes:

Notes:

I. Application of the International Conditions of Sale

1. These International Conditions of Sale apply to all customers of ARI-Armaturen Albert Richter GmbH & Co. KG - hereinafter referred to as ARI - if the relevant place of business of the customer is **not in Germany**. For customers whose place of business is in Germany, the General Conditions of Sale (Allgemeine Verkaufsbedingungen) of ARI apply, which will be forwarded on request. In each case, the relevant place of business is the one which concludes the contract in its own name.
2. These International Conditions of Sale apply to all contracts made with the customer on or after 1 November 2017 whose preponderant object is the **supply of goods** to the customer. Additional obligations assumed by ARI do not affect the application of these International Conditions of Sale.
3. **Terms of business of the customer** conflicting with or differing from these International Conditions of Sale or the provisions applicable according to section IX.-2. or IX.-3. do not bind ARI, even if ARI does not object to them or even if ARI unconditionally renders performance or receives the customer's performance.
4. These International Conditions of Sale do not apply, if the customer buys the goods for **personal, family or household use** and if ARI knew or should have known that at the time of the formation of the contract.

II. Formation of the Contract

1. The customer is under an obligation to give **written notice to ARI prior to the formation of a contract** if
   - the goods to be delivered are to be fit not only for normal use or the customer orders on the assumption of a particular purpose or his expectations are based on public statements, advertising messages or other circumstances outside the formation of the concrete contract,
   - the goods to be delivered will be used in circumstances which are unusual or which present a particular risk to health, safety or the environment, or which require a more demanding use,
   - there is a risk of atypical damages or unusual amounts of loss, in particular exceeding the limits set up in section VII.-1.-d), of which the customer is or ought to be aware or
   - the goods to be delivered will be used in Germany or will be delivered to customer's clients resident in Germany
2. **Orders of the customer** are to be put in writing. If the customer's order deviates from the proposal or the tender submitted by ARI, the customer will emphasize the differences as such.
3. All orders, in particular also those received by employees of ARI, will take effect **exclusively if followed by a written acknowledgement** of the order by ARI. The written acknowledgement of the order can also be formulated on the document which also serves as a delivery note. The actual delivery of the goods ordered, any other conduct of ARI or silence on the part of ARI does not allow the customer to assume the formation of the contract. ARI can dispatch such written acknowledgement of the order up to and including **fourteen (14) calendar days after** the customer's order has been received by ARI. Until this time, the customer's order is irrevocable.
4. The written **acknowledgement of the order** by ARI shall be **received in time**, if it is received by the customer within fourteen (14) calendar days after its date of issue. The customer will inform ARI without delay in writing, if the written acknowledgement of the order is received with some delay.
5. The written acknowledgement of the order by ARI sets out all the **terms of the contract** and brings the **contract into effect** even if - except for the description or the price for the goods and the quantity to be delivered - the written acknowledgement is not consistent with the declarations of the customer in every respect, especially with reference to the exclusive application of these International Conditions of Sale. The contract will only fail to come into existence if the **customer objects in writing** that the acknowledgement of the order by ARI is not completely consistent with the declarations of the customer, the customer specifies the deviations in writing and if the objection is received by ARI within a short time, at the latest seven (7) calendar days, after receipt of the written acknowledgement of the order by the customer.
6. **Particular wishes** of the customer, namely particular expectations of the customer regarding the usage or the condition of the goods, guarantees or warranties with reference to the goods or the performance of the contract, as well as performance declarations, instruction manuals or security-related information requested by the customer in electronic or print form, require express written confirmation by ARI in every case.
7. Confirmations of the contract produced by the customer are of **no effect** without any objection by ARI being necessary. In particular, neither the actual delivery of the goods, any other conduct of ARI or silence on the part of ARI shall give rise to any belief by the customer in the relevance of his confirmation.
8. ARI´s **employees**, commercial agents or other sales intermediaries are not authorized to dispense with the requirement of a written acknowledgement of the order by ARI or to make promises which differ from its content or guarantees. If and to what extent such persons are authorized to make or receive declarations with effect for or against ARI, is to be determined according to German law.
9. **Amendments** to the concluded contract always require written confirmation by ARI.

III. Obligations of ARI

1. Subject to a failure of delivery on part of his suppliers irrespective of a congruent covering transaction or to an exemption according to section VII.-1. b) ARI must **deliver the goods** specified in the written acknowledgement of the order and transfer the property in the goods. ARI is **not obliged to perform obligations** not stated in the written acknowledgment of the order by ARI or in these International Conditions of Sale, in particular ARI is under no obligation if not explicitly agreed upon in writing to give information regarding the goods, to furnish documents or certificates regarding the goods, to deliver accessories, to install additional safety devices, to carry out assemblies or to advise the customer.
2. ARI's obligations under the contract made with the customer are owed only to the customer. **Third parties not involved** in the formation of the contract, in particular the customer's clients, are not entitled to request delivery to be made to them or to assert any other claim arising from the customer's contract with ARI. The customer gives ARI an unlimited indemnity against all claims made by contracting partners of the customer against ARI invoking the contract made between ARI and the customer. The customer's entitlement to take delivery continues to exist even if he **assigns rights to third parties**.
3. Taking account of the **tolerances customary** in trade, ARI undertakes to deliver to the customer goods of the agreed kind and quantity which meet the common standards applicable in Germany and ensures that at the time of delivery the goods are free from rights or claims of private third parties which could prevent its use within the European Union. If the goods cannot be delivered in the condition offered at the time of the formation of the contract because technical improvements to goods of series production were made, ARI is entitled to deliver the goods with the technical improvements. Divergences in measure and size, structure and colour are reserved as far as they result from the nature of the materials used and are customary in trade. ARI is entitled to make **part deliveries** and to invoice them separately.
4. If further **specification** is required in relation to the goods to be delivered, ARI will carry this out having regard to his own interests and to the identifiable and legitimate interests of the customer. A request to the customer to specify the goods, or to participate in the specification, is not required. ARI does not undertake to inform the customer of the specification he has made or to give the customer the option of a differing specification.
5. ARI undertakes to place the goods packaged, marked and labelled according to German standard **at disposal for collection by the customer FCA (Incoterms 2010)** at the place of delivery indicated in the written acknowledgement of the order or - if a place of delivery is not indicated - at the premises in 33758 Schloß Holte-Stukenbrock/Germany at the agreed time of delivery. Previous separation or marking of the goods or notification to the customer of the goods being placed at disposal is not required. Under no circumstances, not even when other clauses of the Incoterms are agreed, is ARI obliged to inform the customer of the delivery or a failure to take the goods by the person nominated according to section IV.-6., to examine the goods with respect to their conformity with the contract on the occasion of delivery, to check the operational safety of the means of transport and the transportation safe loading or to furnish proof of the delivery being effected. The agreement of other clauses of the Incoterms or of clauses such as "delivery free....." or similar ones merely involve a variation of the provisions as to the transportation and the transportation costs; besides that, the provisions laid down in these International Conditions of Sale remain applicable.
6. The **organization of the transport** and the insurance of the goods beyond the place of delivery decisive according to section III.-5. is none of ARI's obligations, but is incumbent upon the customer. If the customer does not give a counter instruction in writing in time, ARI is entitled - even without the customer asking for it or without such a commercial practice existing - to contract on terms usual in Germany in the customer's name and at the customer's expense for carriage of the goods at the customer's risk and for insurance of the transport to the destination indicated by the customer and - if such a destination is not indicated - to the place of business of the customer.
7. Compliance with agreed **delivery time periods** or **delivery dates** is subject to the customer's procuring any required documents, releases, permits, approvals, licences or any other authorizations or consents in sufficient time, opening letters of credit and/or making down-payments as agreed and performing all other obligations incumbent upon him properly and in good time, and that after the formation of the contract no modifications or changes had to be carried out on customer's request, and subject to no delay caused by pre-shipment inspections mandated by not German authorities. Moreover, agreed delivery time-periods begin on the date of the written acknowledgement of the order by ARI. After informing the customer, ARI is entitled to deliver earlier than at the agreed delivery time or to select the date of delivery within the agreed period for delivery.
8. Without prejudice to his continuing legal rights, ARI is entitled to fulfil his obligations **after the delivery time periods or delivery dates agreed upon**, if the customer is informed that ARI will exceed the delivery time limit and of the time period for late performance. Subject to aforesaid conditions, ARI is entitled to make repeated attempts at late performance. The customer can object to late performance within reasonable time, if the late performance is unreasonable. An objection is only effective, if it is received by ARI before commencing late performance. ARI will reimburse necessary additional expenditure, proven and incurred by the customer as a result of exceeding the delivery time to the extent that ARI is liable for this under the provisions laid down in section VII.
9. **Risks as to price and performance** even in relation to goods which are not clearly identifiable to the contract and without it being necessary for ARI to give notice to the customer about the goods being placed at disposal, pass to the customer with delivery pursuant to section III.-5., albeit irrespective thereof with readiness for delivery by ARI according to the originally agreed delivery time periods or delivery dates, if these are postponed on customer's request, or as soon as the title to the goods has passed to the customer. The **loading of the goods** is part of the customer's obligations. The agreement of other clauses of the Incoterms or of clauses such as "delivery free....." or similar ones merely involve a variation of the provisions as to the transportation and the transportation costs; besides that, the provisions laid down in these International Conditions of Sale remain applicable.
10. ARI is neither obliged to clear the goods for export nor to take care of customs advance declarations. However, ARI will apply for necessary export licences and operate **customs formalities** necessary for the export if the customer has requested ARI to do so and has furnished ARI with the data essential for the export in a written notice attending to this purpose exclusively. If the goods are not cleared for export without any intentional or grossly negligent fault on the part of ARI, ARI is entitled to avoid the contract in whole or in part without compensation. The agreement of other clauses of the Incoterms or of clauses such as "delivery free....." or similar ones merely involve a variation of the provisions as to the transportation and the transportation costs; besides that, the provisions laid down in these International Conditions of Sale remain applicable.
11. Unless expressly agreed in written form something different, ARI is **not obliged** to obtain proves of delivery, **documents**, certificates, licences or other authorizations necessary for the export, transit or import, or to achieve **security clearance** of the goods required for the carriage or otherwise or to render assistance to the customer in obtaining them. The agreement of other clauses of the Incoterms or of clauses such as "delivery free....." or similar ones merely involve a variation of the provisions as to the transportation and the transportation costs; besides that, the provisions laid down in these International Conditions of Sale remain applicable.
12. ARI is in no case liable to perform duties associated with the making available of the goods on the market **outside Germany,** to bear levies, duties and charges accruing outside Germany, to comply with weight and measuring systems, packaging, labelling or marking requirements or registration or certification obligations applicable outside Germany or to comply with any other legal provisions applicable to the goods outside Germany. The customer will arrange for translations in any language other than German of instructions, safety information, performance declarations or other written materials about the goods required by law or called for otherwise at his risk and expense.
13. Without prejudice to his continuing legal rights and without a previous notice to the customer being necessary, ARI is entitled to **suspend the performance of his obligations** as long as, in the opinion of ARI, there are grounds for concern that the customer will wholly or partly fail to fulfil his obligations in accordance with the contract. In particular, the right to suspend arises if the customer insufficiently performs his obligations to enable payment to ARI or a third party or pays late or if the limit set by a credit insurer has been exceeded or will be exceeded with the forthcoming delivery. Instead of suspending performance ARI is entitled at his own discretion to make future deliveries, even if confirmed, conditional on payment in advance or on opening of a letter of credit confirmed by one of the big German commercial banks. ARI is not required to continue with performance of his obligations, if an assurance given by the customer to avoid the suspension does not provide adequate security or could be challenged pursuant to an applicable law.
14. Except as provided in section III.-8., ARI is only obliged to inform the customer of **possible disruption in performance,** once the commencement of the disruption is definitely certain for ARI.

IV. Obligations of the Customer

1. Irrespective of continuing obligations of the customer to guarantee or to enable payment, the customer undertakes to pay the **agreed price for the goods** in the currency specified in the written acknowledgement of the order **transferring it** without deduction and free of expenses and costs to one of the financial institutions designated by ARI**.** To the extent that a price for the goods has not been agreed, the price which is at the time of delivery ARI's usual selling price for the goods will apply. ARI's employees, commercial agents or other sales intermediaries are not authorized to accept payments.
2. The payment to be made by the customer is in any event **due for payment** at the time specified in the written acknowledgement of the order or - if a time for payment is not indicated - on receipt of the invoice. The due time for payment arises without any further pre-condition and, in particular, does not depend on whether the customer has already taken delivery of the goods or the documents or has had an opportunity to examine the goods. The **periods granted for payment** will cease to apply and outstanding accounts will be due for immediate payment, if insolvency proceedings relating to the assets of the customer are applied for, if the customer without providing a justifiable reason does not meet fundamental obligations due towards ARI or towards third parties, if the customer has provided inaccurate information regarding his creditworthiness or to the extent that the cover given by a credit insurer for the customer is reduced on grounds for which ARI is not responsible.
3. The customer warrants to have the goods transported abroad, not to transfer the right of disposal to third parties as long as the goods are in Germany, and to fulfil all legal requirements and documentations for the handling regarding **customs laws and value added tax** of the delivery or any service according to the applicable provision in Germany. To the extent that ARI has to pay German or foreign customs duties or German or foreign value added tax, the customer will indemnify ARI in all and every respect without prejudice to any continuing claim by ARI. The indemnity is granted by the customer waiving any further requirements or other defences, in particular waiving the defence of limitation or prescription and also includes the reimbursement of the expenses incurred by ARI.
4. Regardless of the currency and of the jurisdiction of any arbitral tribunal or court, ARI is entitled at his own discretion to **set off** incoming payments against claims existing against the customer by virtue of his own or assigned rights at the time of payment.
5. Any statutory rights of the customer to **set-off** against claims of ARI, to **withhold payment** or taking delivery of the goods, to **suspend** the performance of his obligations or to **raise defences or counterclaims** are excluded, except where the corresponding claim of the customer against ARI is in the same currency, is founded in the customer's own right and is either due and undisputed or has been finally adjudicated or where despite written warning by the customer ARI has committed a fundamental breach of his obligations due and arising out of the same contractual relationship, and has not offered any adequate assurance.
6. The customer undertakes to furnish ARI with the data to apply for the **customs formalities** according to section III.-10. in reasonable time ahead and in writing, **to take delivery** of the goods either by himself or by a person nominated in writing by him to ARI at the delivery time without taking any additional period of time and at the place of delivery resulting from section III.-5. and shall fulfil all the duties imposed by the contract, by these International Conditions of Sale, by the rules of the ICC for the use of the agreed clause of the Incoterms® 2010 and by statutory provisions. The customer is only entitled to refuse to take delivery of the goods if he avoids the contract in accordance with the rules in section VI.-1.
7. The customer will not promise or perform any act with regard to the goods purchased from ARI, if such act is **forbidden** under the applicable provisions in particular of **foreign trade law** including the U.S.

export control regulations. To the extent that the customer is unsure whether such prohibitions exist, the customer shall seek consultation with ARI in writing.

8. The customer will **monitor the goods** purchased from ARI **in the market** and will inform ARI without delay in writing of any concern that the goods might pose a risk for third parties. Moreover, the customer will, without any demand being necessary, inform ARI in writing if ARI has to observe any particular duties of reporting or registration or providing information or prior notification or other **requirements for access to market** or has to comply with **obligations to retain documents**, under the provisions in force in the customer's country or in the country where the goods are to be used.
9. Irrespective of any statutory provisions, the customer shall at his own cost take care of or in any other way ensure renewed utilization, material recycling or otherwise prescribed **waste-disposal** of the goods delivered by ARI to the customer and of the packaging material.

V. Delivery of non-conforming Goods or Goods with Defective Title

1. Without prejudice to any exclusion or reduction of liability of the seller provided by law, goods do **not conform with the contract** if the customer proves that, taking into account the terms in section III., at the time the risk passes the packaging, quantity, quality or the description of the goods is significantly different to the specifications laid down in the written acknowledgement of the order, or in the absence of agreed specifications, the goods are not fit for the purpose which is usual in Germany. Regardless of the stipulation established in sentence 1, the goods shall be deemed to conform with the contract to the extent that the legal regulations applicable at the place of business of the customer do not prevent the usual use of the goods.
2. To the extent that the written acknowledgement of the order by ARI does not contain an explicit statement to the contrary, ARI is in particular **not liable** for the goods being fit for a purpose which is not usual in Germany or for complying with further reaching expectations of the customer or for possessing the qualities of a sample or a model or for their compliance with the legal regulations existing outside Germany, for instance in the customer's country. In particular, slogan-like definitions, references to generally accepted norms, the use of brands, trade-marks, adverts or prospectus do not in themselves constitute a guarantee. ARI shall also not be liable for any non-conformity with the contract that did not exist at the time the risk has passed. To the extent that the customer, either himself or through third parties, initiates the removal of non-conformities without the prior consent of ARI in writing, ARI will be released from his liability.
3. The customer is obliged vis-à-vis ARI to **examine or to have examined** every single delivery comprehensively for any discoverable or typical lack of conformity with the contract and moreover as required by law.
4. Without prejudice to any exclusion or reduction of liability of the seller provided by law, goods have a **deficiency in title** if the customer proves that the goods are not free from enforceable rights or claims of private third parties at the time risk passes. Without prejudice to further legal requirements, third parties' rights or claims founded on industrial or other intellectual property constitute a deficiency in title only to the extent that the rights are registered, made public and in legal force in the European Union and prevent the usual use of the goods in the European Union. Regardless of the stipulation established in sentence 1, title to the goods shall be deemed not to be defective to the extent that the legal regulations applicable at the place of business of the customer do not prevent the usual use of the goods.
5. Without prejudice to the statutory obligations of the customer to give notice within reasonable time, the customer is obliged vis-à-vis ARI to give notice to ARI of any lack of conformity with the contract or any deficiency in title at the latest within one (1) year after taking delivery in accordance with section IV.-6. Such **notice** has to be made in writing and directly to ARI and to be formulated in such a precise manner as to enable ARI to effect remedy measures without need for further inquiries from the customer and to secure claims against ARI's suppliers and moreover as required by law. ARI's employees, commercial agents or other sales intermediaries are not authorised to accept notices outside ARI's premises or to make any statements concerning lack of conformity with the contract or of title and its consequences.
6. Following **due notice** according to section V.-5., the customer can rely on the remedies provided by these International Conditions of Sale. The customer has no other rights or claims whatsoever and no claims of a non-contractual nature due to delivery of non-conforming goods or goods with defective title. In the event of **notice not having been properly given**, the customer may only rely on remedies if ARI has intentionally concealed the lack of conformity with the contract or the deficiency in title. Statements by ARI as to the lack of conformity with the contract or as to the deficiency in title are for the purpose of explaining the factual position only, but do not entail any waiver by ARI of the requirement of proper notice.
7. The customer is **not entitled to remedies** for delivery of non-conforming goods or goods with a deficiency in title, insofar as the customer is liable vis-à-vis third parties for conditions of the goods or their fitness for a use which are not subject of the agreement with ARI, or if the customer's claim is based on foreign law.
8. To the extent that the customer in accordance with the terms of these International Conditions of Sale is entitled to remedies because of delivery of non-conforming goods or goods with defective title, he is entitled to demand in accordance with the terms of the UN Sales Convention **delivery of substitute goods or repair** of ARI **or to reduce the price for the goods**. The delivery of substitute goods or repair does not lead to a recommencement of the limitation period. The reduction of the price for the goods is limited to the damages suffered by the customer. Further claims for performance are not available to the customer. Irrespective of the customer's remedies, ARI is always entitled in accordance with the provision in section III.-8. to repair goods which do not conform with the contract or to supply substitute goods or to avert the customer's remedies by giving him a credit note of an appropriate amount.
9. In case of **unjustified assertion of remedies** for delivery of non-conforming goods or goods with a deficiency in title, although the customer is or ought to have been aware that a non-conformity or a deficiency in title does not exist or that the cause for such non-conformity or deficiency in title claimed are not to be attributed to ARI, the customer is obliged to reimburse ARI for expenses incurred due to the unjustified assertion of claims.

VI. Avoidance of the Contract

1. The **customer** is entitled to declare the contract avoided, if the respective applicable legal requirements are complied with, after he has threatened ARI within reasonable time after the facts justifying the avoidance of the contract had occurred with avoidance of the contract in writing and an additional period of time of reasonable length for performance fixed in writing has expired to no avail. If the customer claims delivery of substitute goods, repair or other performance, he is bound for a reasonable period of time to the chosen remedy, without being able to exercise the right of declaring the contract avoided. In any event, the customer must give notice of avoidance of the contract within reasonable time after the additional period of time has expired in writing and to ARI directly.
2. Without prejudice to his continuing legal rights, **ARI** is entitled to avoid the contract in whole or in part if the customer objects to the application of these International Conditions of Sale, if the implementation or performance of the contract is prohibited by the law, including applicable foreign trade law, in whole or in part, if on grounds for which ARI is not responsible the written acknowledgement of the order by ARI is received by the customer more than fourteen (14) calendar days after its date of issue, if insolvency proceedings relating to the assets of the customer are applied for, or if for other reasons ARI cannot be expected to fulfil his obligations by means which - taking into consideration his own interests and that of the customer as far as ascertainable and legitimate at the time of formation of the contract - are unreasonable, in particular in relation to the agreed counter-performance.
3. Without prejudice to his continuing legal rights, ARI is entitled to avoid the contract in whole or in part after **prior warning** if the customer does not place call off orders as agreed, if he does not furnish ARI with the data necessary to apply for customs formalities in due time, if without providing a justifiable reason he does not meet fundamental obligations due towards ARI or towards third parties, if he has provided inaccurate information regarding his creditworthiness or to the extent that the cover given by a credit insurer is reduced on grounds for which ARI is not responsible.

VII. Damages

1. Without waiving the legal requirements, **ARI** is only obliged to **pay damages** due to the breach of obligations resulting from the contract with the customer, the contractual negotiations carried on with the customer or the business relation with the customer in accordance with the following provisions. These provisions apply equally for all of ARI's obligations to **reimburse expenses**.

a) The customer is required in the first instance to **rely on other remedies** and can only claim damages in the event of a continuing deficiency. The customer cannot claim damages as an alternative to other remedies.

b) **ARI is not liable** for the conduct of suppliers, subcontractors, carriers or freight-forwarders, for damages to which the customer has contributed or for the consequences of customer interference with the security technology of the delivered goods. ARI is not liable if the contract cannot be performed as agreed at the time of its formation due to subsequent statutory or sovereign measures. Neither is ARI liable for impediments which occur, as a consequence of natural or political events, acts of state, industrial disputes, sabotage, accidents, terrorism, biological, physical or chemical processes or comparable circumstances and which cannot be controlled by ARI with reasonable means. Moreover, **ARI is only liable** to the extent that the customer proves that the executive bodies or members of staff of ARI have deliberately or negligently breached contractual obligations owed to the customer.

c) In the event of liability, ARI will compensate within the limits of lit. d) the **losses** of the customer to the extent that the customer proves that he has suffered an unavoidable loss caused by the breach of obligations owed to the customer by ARI and **foreseeable** to ARI, at the time of the formation of the contract in respect of the occurrence of the loss and its amount. Moreover, the customer is required to **mitigate his loss** as soon as a breach of contract is or ought to be known.

d) ARI is **not liable** for loss of profit or damage to reputation. Moreover, the **amount of damages** for late or non-existent delivery is limited to 0.5 per cent for each full week of delay, up to a maximum of 5 per cent, and in case of remedies because of delivery of non-conforming goods and/or goods with a deficiency in title is limited to an amount of 200 per cent of the value of the non-conforming part of the contract. However, this subparagraph does not apply to injury of life, body or health, to intentional concealment of the non-conformity or deficiency in title of the goods and to breaches of contractual obligations due to intentional harm or gross negligence.

e) For breach of contractual, pre-contractual or obligations resulting from the business relation owed to the customer, ARI is obliged to pay damages exclusively in accordance with the provisions of these International Conditions of Sale. Any recourse to **concurrent bases of claim**, in particular of a non-contractual nature, is excluded. Equally excluded is any recourse against ARI's company organs, employees, servants, members of staff, representatives and/or those employed by ARI in the performance of his obligations on grounds of breach of contractual obligations owed by ARI.

f) Insofar as the limitation period may not already have barred the claim, claims for damages brought by the customer are excluded after **six (6) months** beginning with the rejection of the claim for damages by ARI.

2. Irrespective of continuing statutory or contractual claims, the **customer** is obliged to pay **damages** to ARI as follows:

a) In the event of **delay in payment,** the customer will pay a lump sum of EUR 50,00, the costs of arbitral, judicial and extra-judicial means and proceedings, usual and accruing within the country and abroad, as well as (without evidence being necessary) interest at the rate applicable in 33758 Schloß Holte-Stukenbrock/Germany for unsecured short-term loans in the agreed currency, at least however interest at 9 per-cent points over the base rate of the German Federal Bank (Deutsche Bundesbank).

b) In the case of a **late taking delivery** of the goods by the customer by more than two (2) weeks, ARI is entitled to claim damages without evidence being necessary of 5 per cent of the value of the goods to be delivered. In the case of a late taking delivery of the goods by the customer by more than six (6) weeks or an entire failure to take delivery as well as in the event of non-delivery due to a breach of contract by the customer, ARI is entitled to claim damages without evidence being necessary of 20 per cent of the value of the goods to be delivered.

c) If the contract has been **avoided by the customer** without justification, ARI is entitled, insofar as he consents to the avoidance, to claim damages without evidence being necessary in the amount of 20 per cent of the value of the goods to be delivered

3. Within the bounds of what is legally possible as well as within what is usual in the trade, the **customer** is in his commercial relationships with his clients obliged to **limit his liability** both in principle and in amount.

VIII. Other Provisions

1. Without prejudice to claims resulting from a malicious, grossly negligent or intentional conduct as well as claims due to injury of life, body or health, the customer's **claims** in respect of the delivery of non-conforming goods and goods with a defect in title **become time-barred one (1) year after delivery of the goods**.
2. **Title of the goods** that have been delivered **remains with ARI** until settlement of all claims existing against the customer. The allocation of risk as to price and performance in section III.-9. is not affected by the reservation of title.
3. Irrespective of continuing statutory or contractual claims, the customer will indemnify ARI without limit against all claims of third parties which are brought against ARI on the grounds of **product liability** or similar provisions, to the extent that the liability is based on circumstances which - such as, for example, the presentation of the product - were caused by the customer or other third parties without express written consent of ARI. In particular, the indemnity also includes the reimbursement for expenses incurred by ARI and is granted by the customer waiving further conditions or other objections, in particular without requiring compliance with control and recall obligations, and waiving any defence of limitation.
4. In relation to pictures, drawings, calculations and other **documents** and computer-software, which have been made available by ARI in a material or electronic form, the latter reserves all proprietary rights, copyrights, other industrial property rights as well as know-how rights.
5. Subject to written objection by the customer, **personal data**, which ARI receives from the customer in the execution of activities covered by these International Conditions of Sale, are processed by ARI and also by service providers located in Germany or abroad.
6. The transmission of **electronic documents (EDI)** requires special agreements.
7. All communications, declarations, notices etc. are to be drawn up exclusively in **German or English**. Communications by means of fax or e-mail fulfil the requirement of being **in writing.**

IX. General Basis of Contracts

1. The **place of delivery** results from section III.-5. of these International Conditions of Sale and applies likewise to the delivery of substitute goods or the repair of delivered goods. The **place of payment and performance** for all remaining obligations arising from the legal relationship between ARI and the customer is 33758 Schloß Holte-Stukenbrock/Germany. These provisions also apply if ARI assumes the costs of money remittance, renders performance for the customer somewhere else or payment is to be made in exchange of documents or goods or in the case of restitution of performances already rendered. The agreement of other clauses of the Incoterms or of clauses such as "delivery free....." or similar ones merely involve a variation of the provisions as to the transportation and the transportation costs; besides that, the provisions laid down in these International Conditions of Sale remain applicable.
2. The United Nations Convention of 11 April 1980 on Contracts for the International Sale of Goods (**UN Sales Convention / CISG**) in the English version governs the legal relationship with the customer. The UN Sales Convention applies, above and beyond its own area of application, and regardless of reservations adopted by other states, to all contracts to which these International Conditions of Sale are to be applied according to the provisions of section I.
3. The **formation of contract**, including agreements as to the jurisdiction of courts and arbitrators, its amendments or alterations, and the contractual **rights and obligations of the parties,** also including the liability for death or personal injury caused by the goods to any person and breach of pre-contractual and collateral obligations, as well as the interpretation are exclusively governed by the UN Sales Convention together with these International Conditions of Sale. Where standard terms of business are used, in case of doubt the Incoterms® 2010 of the International Chamber of Commerce apply taking into account the provisions stipulated in these International Conditions of Sale. Subject to differing provisions in these International Conditions of Sale, the rest of the legal relationship between the parties is governed by the Swiss Code of Obligations.
4. All contractual and extra-contractual disputes as well as disputes under insolvency law, arising out of or in connection with contracts to which these International Conditions of Sale apply, including their validity, invalidity, breach or cancellation as well as other disputes arising out of the business relationship with the customer shall be finally resolved, without recourse to the ordinary courts of law, by arbitration according to the Swiss Rules of International **Arbitration** of the Swiss Chambers' Arbitration Institution in force on the date when the Notice of Arbitration is received in accordance with these Rules. The tribunal shall consist of three (3) arbitrators, one (1) of them shall be nominated by the claimant, one (1) of them by the respondent and the chairman of the tribunal shall be designated by the two arbitrators so nominated, or if the amount in dispute is inferior to € 250.000, there shall be one (1) arbitrator appointed according to the Swiss Rules of International Arbitration. The place of the arbitration shall be

Zurich/Switzerland, the languages used in the arbitral proceedings shall be German and/or English. The competence of the Arbitral Tribunal excludes especially every statutory competence of state courts, which is provided by reason of a personal or substantive relation. If this arbitration clause is ineffective or ceases to be effective, the non-exclusive jurisdiction of the courts which have jurisdiction for 33758 Schloß Holte-Stukenbrock/Germany is agreed for all disputes instead. **If the relevant place of business of the customer is within the European Economic Area (EWR) or Switzerland**, even if the arbitration clause is ineffective, instead of bringing an action before the arbitral tribunal, **ARI is also entitled to bring an action before the State Court which has jurisdiction for 33758 Schloß Holte-Stukenbrock/Germany or the State Court of the customer's place of business**.

5. If provisions of these International Conditions of Sale should be or become partly or wholly ineffective, the remaining arrangements will continue to apply. The parties are bound to replace the ineffective provision with a legally valid provision, as close as possible to the commercial meaning and purpose of the ineffective provision.

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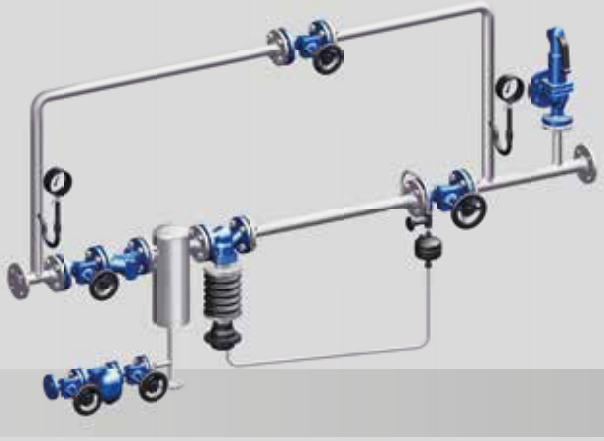

e.g.

for safe pressure reduction and adjustment
(using ARI-PREDU® or ARI-STEVI®).
Optional: Bypass with ARI-FABA® and orifice plate.

e.g.

… for unrestricted condensate return.
With digital indication of the condensate temperature
on the integrated pump and level control.

e.g.

… for waterhammer-free heat exchange from steam
to water by a steam or condensate based control
(using ARI-STEVI® or ARI-TEMPTROL®).

e.g.

… for feeding returned condensate and fresh water to
the boiler via the deaerator dome and the feed water tank. By
removing inert gases from the condensate / fresh water the
boiler life is optmised

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