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PRICE LIST 2020

Currency: **EUR**
Delivery parity: **FCA Olomouc, Czech Republic, Incoterms 2020**
Price list validity: **1.5.2020 - 28.2.2021**



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RESILIENT SEATED BUTTERFLY VALVES

ECONOMY LINE

Series 600 , Wafer type, DN32/40 - DN150	5
Series 600 , Lug type, DN32/40 - DN150	5
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RESILIENT SEATED BUTTERFLY VALVES

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PTFE LINED BUTTERFLY VALVES

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DOUBLE OFFSET BUTTERFLY VALVES

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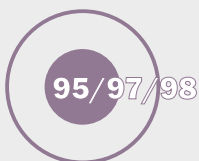
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TRIPLE OFFSET BUTTERFLY VALVES

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SALES TERMS & DELIVERY CONDITIONS

Price base

This price list replaces all previous versions.
Validity of the price level: 1.5.2020 - 28.2.2021. In the case of 3% input material prices increasing, ABO valve Co. reserves its right for changing company price list.

Pricing terms and conditions

All prices for products are gross prices/pc in EUR, excluding packaging.
All prices for services are net prices/unit in EUR.
Delivery terms: FCA Olomouc, Czech Republic, Incoterms 2020.

Minimum order value

Minimum purchase order is 150 EUR.
For orders less than 150 EUR, extra 50 EUR will be invoiced as a processing fee.

General conditions of sale 2020

Are the main part of this price list.

1993

MORE THAN 25 YEARS EXPERIENCE OF MANUFACTURING INDUSTRIAL VALVES

Czech Industrial Valve Manufacturer

ABO valve, Czech Republic is a major manufacturer of concentric and eccentric butterfly valves used for handling of variety media, delivered in various material combinations and comes complete with actuation.

We are a European supplier of high-performance solutions able to deliver valves of a standard design or according to particular customers' requirements.

ABO valve, Czech Republic offers all the services connected with production, assembly and supervision on site, technical consulting, assembly works and engineering services.

The company production programme includes:

- concentric shut-off valves
- eccentric shut-off valves
- check valves
- knife gate valves, gate valves
- ball valves
- ball clack valves
- filters, Y-strainers
- actuators
- accessories

Our products are exported to more than 100 countries worldwide. The company headquarters is located in Olomouc in the region of North Moravia.

The company services are offered worldwide in cooperation with 10 subsidiaries (Slovakia, Russia, Germany, Ukraine, Singapore, China, India, Bahrain, UAE, Turkey).

Professional solutions for your industrial applications

Within the scope of our technical consultancy we are ready to prepare tailored solutions meeting your specific requirements according to particular projects. The Our products are offered for various industrial manufacturing processes like:

- water management
- potable water distribution
- heating, hot water distribution
- industrial water treatment
- seawater treatment
- gas pipelines, biogas distribution
- air distribution, air conditioning
- food industry
- beverage processing
- chemical industry
- waste water and sludge purification
- oil industry, petrochemistry
- fuel, oil, lubricants and grease processing
- cement and lime industries
- conveying powdery materials and distribution
- heat recovery
- paper industry
- processing cellulose
- pharmaceutical industry
- sanitary industry
- mining industry
- distribution and conveying systems
- shipbuilding industry
- aircraft refuelling
- heat and nuclear power industry
- production of dyes and chlorine

ABO facilities include pre-production, engineering and design departments, a test room and above all manufacturing and assembly workshops with all the equipment for mechanical manufacture, final assembly and shipping.

Quality control

We at ABO valve place great emphasis on quality and innovation. Our products are certified by numerous European and international authorities like TÜV Nord, TÜV SUD, Lloyd's Register, ABS, API, etc.

ABO manufacturing facilities are certified in accordance with the ISO 9001:2015 Quality Management System. This certification ensures high quality of ABO products, their durability, as well as meeting of strict safety and environmental regulations by ABO production. Quality management is an integral part of ABO. Quality control is ensured by the in-house quality control department as well as independent third parties.

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RESILIENT SEATED BUTTERFLY VALVES

SERIES 600 - WAFER TYPE - LUG TYPE - DN32/40 - DN150

 **ABO valve**

SERIES 600

B
WAFER
DESIGN

T
LUG
DESIGN



BASIC INFORMATION



Body type	WAFER / LUG / „PIN BODY DESIGN”
Flange connection	PN 6 / PN 10 / PN 16 / Class 150
Face to face dimensions	ISO 5752-20
Body material - type „B”	DN32/40: Ductile iron GGG40 epoxy coated DN50-DN150: Grey cast iron GG25 epoxy coated
Body material - type „T”	DN32/40-DN150: Ductile iron GGG40 epoxy coated
Shaft material	Stainless steel 13% Cr - 1.4021
Pressure rating *	6 bar / 10 bar / 16 bar
Temperature rating **	- 10 °C / +125 °C (EPDM seat) - 10 °C / + 90 °C (NBR seat)
Tightness / Hydraulic tests	Class A - according to EN 12266-1

*) pressure rating depends on temperature, medium and material performance
 **) temperature rating depends on pressure, medium and material performance

WAFER TYPE - EPDM seat

Valve type / DN	32/40	50	65	80	100	125	150
620B with lever (disc - brass)	41	41	45	53	65	-	-
622B with lever (disc - stainless steel 1.4308)	42	43	47	55	67	94	121
623B with lever (disc - GGG40 + epoxy coated)	40	41	42	47	57	75	96
624B with lever (disc - stainless steel 1.4408)	44	45	49	57	72	98	128

Lever material: Aluminium

LUG TYPE - EPDM seat

Valve type / DN	32/40	50	65	80	100	125	150
620T with lever (disc - brass)	47	47	51	62	76	-	-
622T with lever (disc - stainless steel 1.4308)	48	49	53	64	77	108	136
623T with lever (disc - GGG40 + epoxy coated)	46	46	49	56	68	89	111
624T with lever (disc - stainless steel 1.4408)	50	51	55	66	82	112	144

Lever material: Aluminium

ADDITIONAL CHARGES

Valve type / DN	32/40	50	65	80	100	125	150
NBR seat	+3,0	+4,0	+4,0	+4,0	+8,0	+11	+12
Bare shaft (valve without lever)	-4,2	-4,2	-4,2	-4,2	-4,2	-4,2	-4,2
Gearbox + Handwheel	+64	+64	+64	+64	+64	+89	+89

GAS VERSION - WAFER TYPE - NBR seat - PS6 bar max - Yellow lever - Special O-rings around shaft and pivot

Valve type / DN	32/40	50	65	80	100	125	150
610BG with lever (disc - brass)	43	47	48	57	70	-	-
613BG with lever (disc - GGG40)	42	46	47	55	64	82	100

CODING PRINCIPLES

610BG 6 = Serie 600

- Seat material: **1** = NBR, **2** = EPDM
- Disc material: **0** = Brass 2.0402, **2** = Stainless steel 1.4308 (CF8)
- **3** = Cast iron GGG40 epoxy coated, **4** = Stainless steel 1.4408 (CF8M)
- Body design: **B** = Wafer, **T** = Lug
- **G** = **GAS version**

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RESILIENT SEATED BUTTERFLY VALVES

SERIES 900 - WAFER TYPE - LUG TYPE - DN32/40 - DN400

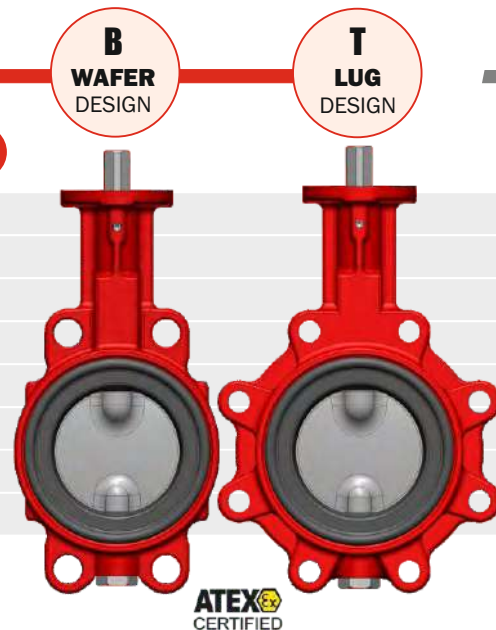
Czech Industrial Valve Manufacturer

BASIC INFORMATION



Body type	WAFER / LUG / „PLUG BODY DESIGN”
Flange connection	PN6 / PN10 / PN16 / Class 150
Face to face dimensions	ISO 5752-20
Material of the body	Ductile iron (0.7040) GGG40 epoxy coated
Material of stem/pivot	Stainless steel 1.4021 (AISI 420)
Pressure rating *)	6 bar / 10 bar / 16 bar
Temperature rating **)	- 25 °C / +130 °C (EPDM-HT seat)
Tightness / Hydraulic tests	Class A - according to EN 12266-1

*) pressure rating depends on temperature, medium and material performance
 **) temperature rating depends on pressure, medium and material performance



WAFER TYPE - EPDM seat

Valve type / DN	32/40	50	65	80	100	125	150	200	250	300	350	400
920B bare shaft (disc - brass)	44	48	51	56	71	-	-	-	-	-	-	-
921B bare shaft (disc - CUAL 2.0966)	46	51	54	61	79	128	158	259	434	700	1007	1329
922B bare shaft (disc - ss 1.4308)	44	48	52	58	73	105	137	209	346	487	862	1100
923B bare shaft (disc - GGG40 + epoxy coated)	42	45	49	52	63	89	111	153	237	320	634	806
924B bare shaft (disc - ss 1.4408)	46	49	54	62	74	112	148	234	391	546	972	1304

LUG TYPE - EPDM seat

Valve type / DN	32/40	50	65	80	100	125	150	200	250	300	350	400
920T bare shaft (disc - brass)	50	54	57	65	82	-	-	-	-	-	-	-
921T bare shaft (disc - CUAL 2.0966)	53	57	60	70	89	142	174	278	477	765	1105	1521
922T bare shaft (disc - ss 1.4308)	51	55	59	68	83	120	153	228	388	552	960	1293
923T bare shaft (disc - GGG40 + epoxy coated)	48	51	55	62	74	103	127	172	279	385	732	998
924T bare shaft (disc - ss 1.4408)	52	55	60	72	85	126	164	252	434	611	1071	1497

ADDITIONAL CHARGES

Valve type / DN	32/40	50	65	80	100	125	150	200	250	300	350	400
Lever *)	+15	+15	+15	+15	+15	+15	+15	+15	+35	+37	-	-
Gearbox + Handwheel	+64	+64	+64	+64	+64	+88	+88	+88	+102	+102	+120	+186

MATERIAL CERTIFICATE 3.1 - EN10204 **)

up to 10 pc	16 EUR
11 - 20 pc	31 EUR
21 - 50 pc	41 EUR
51 - 99 pc	62 EUR
100 pc and more	103 EUR
Certificate of Origin approved by Chamber of Commerce	31 EUR

**) will be charged separately for each valve size stated in the order/offer

CODING PRINCIPLES

924B 9 = Serie 900

- Seat material: **1** = NBR, **2** = EPDM, **3** = Carboxylic NBR, **4** = Viton (FPM)
5 = Steam silicone (VMQ), **6** = Silicone/Food Silicone (VMQ)
7 = Epichlorhydrin (ECO), **8** = Hypalon (CSM), **9** = NBR 70-AG
- Dics material: **0** = Brass 2.0402, **1** = AlBr 2.0975, **2** = ss 1.4308 (CF8)
3 = Ductile iron GGG40 epoxy coated, **4** = ss 1.4408 (CF8M)
5 = Hastelloy, **6** = ss 1.4539 Uranus B6, **7** = Titanium 1.4571
8 = Duplex 1.4469, Super Duplex 1.4410
- Body design: **B** = Wafer, **T** = Lug

*) for DN250-DN300 is possible to use the lever only for PS up to 6 bar
 lever material performance: DN<200 = WCB 1.0625, DN>200 = zinc-coated tube

RESILIENT SEATED BUTTERFLY VALVES

SERIES 900 - WAFER TYPE - LUG TYPE - DN32/40 - DN400



ABO valve

SERIES 900

BODY - ADDITIONAL CHARGES TO „B” VERSION

WAFER DESIGN (-B-) / DN	32/40	50	65	80	100	125	150	200	250	300	350	400
Carbon Steel (WCB) epoxy coated	+24	+25	+30	+37	+46	+52	+53	+80	+98	+137	+236	+281
Stainless steel 1.4408 (CF8M)	+111	+182	+194	+232	+268	+346	+403	+545	+840	+1225	+1506	+2093

BODY - ADDITIONAL CHARGES TO „T” VERSION

LUG DESIGN (-T-) / DN	32/40	50	65	80	100	125	150	200	250	300	350	400
Carbon Steel (WCB) epoxy coated	+33	+36	+42	+51	+57	+78	+91	+104	+215	+243	+370	+662
Stainless steel 1.4408 (CF8M)	+156	+194	+210	+234	+292	+383	+415	+634	+1190	+1470	+1601	+2689

ADDITIONAL CHARGES - SEATS - CHARGES TO THE BASIC TYPE 92..B or 92..T

Other seats material upon request.

Valve type / DN	32/40	50	65	80	100	125	150	200	250	300	350	400
NBR (91xB or T)	+3	+4	+4	+4	+8	+11	+12	+15	+15	+22	+25	+43
Carboxylic NBR (93xB or T)	+7	+8	+9	+10	+10	+11	+19	+22	+42	+46	+108	+153
Viton (FPM-002) (94xB or T)	+37	+57	+62	+90	+135	+175	+259	+436	+534	+799	+1511	+1841
Viton Bio (FPM-006) (94xB or T Bio)	+52	+78	+89	+123	+184	+239	+326	+595	+721	+1094	+2052	+2472
Steam Silicone (Black) (95xB or T)	+33	+37	+40	+43	+70	+93	+134	+179	+310	+398	+776	+1252
Silicone (Red) (96xB or T)	+27	+31	+33	+35	+58	+77	+111	+148	+259	+331	+645	+1046
Epichlorhydrin ECO (97xB or T)	+19	+22	+23	+32	+36	+37	+49	+98	+205	+261	+324	+433
EPDM (White) (EPDM-014 + FDA)	+17	+17	+18	+20	+21	+37	+38	+51	+93	+99	+178	+269
NBR-X (White) (Carboxylic NBR + FDA)	+8	+8	+9	+12	+14	+21	+29	+42	+91	+93	+117	+165
Food Silicone (MVQ + FDA)	+26	+27	+29	+31	+51	+67	+88	+129	+226	+288	+560	+720
EPDM-HT (EPDM-019 + WRAS)	+9	+9	+13	+14	+27	+38	+39	+93	+111	+132	+176	+241
HYPALON (CSM-001) (98xB or T)	+16	+17	+19	+19	+20	+50	+52	+130	+131	+205	+315	+452
FLUCAST AB/P	+3	+3	+3	+3	+5	+8	+8	+15	+20	+30	+47	+74
FLUCAST AB/E	+6	+6	+7	+7	+12	+19	+21	+38	+50	+74	+118	+186
FLUCAST AB/N	+7	+7	+8	+9	+13	+16	+18	+34	+39	+64	+91	+136

ADDITIONAL CHARGES - OTHER MODIFICATIONS (SURFACE FINISHING, etc.)

Other modifications, material options upon request.

Additional charge / DN	32/40	50	65	80	100	125	150	200	250	300	350	400
Stem & Pivot from ss 1.4404 (316L)	+11	+12	+12	+12	+13	+27	+27	+30	+33	+51	+71	+77
Stem & Pivot from duplex 1.4462	+24	+24	+24	+24	+25	+56	+56	+62	+76	+109	+189	+285
Stem & Pivot from MONEL K-500	+111	+111	+111	+111	+123	+241	+252	+303	+485	+642	+1118	+1185
ATEX version accord. to 2014/34/EU	+50	+50	+50	+50	+50	+50	+50	+60	+70	+75	+88	+98
Halar coating of disc	+31	+31	+33	+38	+57	+77	+111	+148	+265	+392	+528	+689
Rilsan coating of disc	+13	+13	+14	+14	+15	+19	+25	+43	+62	+90	+123	+150
Marine protection coating of the body (250 µm acc. to EN ISO12944, grade C4)	+44	+46	+46	+52	+54	+58	+64	+72	+82	+92	+136	+440
Silicone free	+13	+13	+13	+13	+13	+14	+14	+19	+33	+33	+46	+46
Polished stainless steel disc	+39	+50	+66	+83	+127	+132	+154	+270	+325	+385	+446	+528
Disc from duplex steel 1.4469 **)	+10	+11	+16	+22	+38	+58	+85	+199	+356	+561	+871	+1255
Disc from Hastelloy C276 **)	+31	+31	+48	+66	+113	+179	+281	+603	+1113	+1885	+2532	+3650

**) additional charges to version 924T or B

ADDITIONAL CHARGES - BONDING OF THE SEAT - FOR VACUUM APPLICATIONS

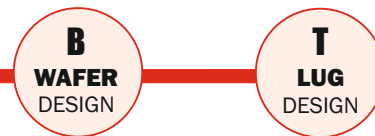
Additional charge / DN	32/40	50	65	80	100	125	150	200	250	300	350	400
Standard seats - EPDM/NBR	+4	+4	+6	+7	+8	+11	+12	+14	+30	+55	+65	+70
Special seats - FPM/ECO/VMQ/MWQ/CSM	+10	+12	+15	+25	+45	+50	+50	+60	+70	+70	+80	+95

RESILIENT SEATED BUTTERFLY VALVES

SERIES 900 - WAFER TYPE - LUG TYPE - DN450 - DN600

SERIES 900 - DOUBLE FLANGED - TYPE „U” - SERIES 20 - DN700 - DN1600

Czech Industrial Valve Manufacturer



BASIC INFORMATION - DN450-DN600



Body type	WAFER / LUG
Flange connection	PN 10 / PN 16 / Class 150
Face to face dimensions	ISO 5752 -20
Body material	Ductile iron (0.7040) GGG40 epoxy coated
Shaft/pivot material	Stainless steel 1.4021 (AISI 420)
Pressure rating *)	10 bar / 16 bar
Temperature rating **)	- 25 °C / +130 °C (EPDM-HT seat)
Tightness / Hydraulic tests	Class A - according to EN 12266-1



*) pressure rating depends on temperature, medium and material performance
 **) temperature rating depends on pressure, medium and material performance

WAFER TYPE - EPDM seat

Valve type / DN	450	500	600
921B (disc - CUAL 2.0966)	2 123	2 821	4 714
922B (disc - ss 1.4308)	1 651	2 100	3 616
923B (disc - GGG40 epoxy coated)	1 167	1 431	2 399
924B (disc - ss 1.4408)	1 735	2 240	3 735

LUG TYPE - EPDM seat

Valve type / DN	450	500	600
921T (disc - CUAL 2.0966)	2 354	3 185	5 332
922T (disc - ss 1.4308)	1 868	2 490	4 200
923T (disc - GGG40 epoxy coated)	1 376	1 802	2 946
924T (disc - ss 1.4408)	1 954	2 590	4 323

BASIC INFORMATION - DOUBLE FLANGED - SERIES 20 - DN700-DN1600

Body type	DOUBLE FLANGED - SHORT PATTERN - SERIES 20
Flange connection	PN 10 / PN 16 / Class 150
Face to face dimensions	ISO 5752-20
Body material	Ductile iron (0.7040) GGG40 epoxy coated
Shaft/pivot material	Stainless steel 1.4021 (AISI 420)
Pressure rating *)	10 bar / 16 bar
Seats temperature rating *)	NBR seat: -10 °C/+90 °C / EPDM seat: -25 °C/+125 °C
Tightness / Hydraulic tests	Class A - according to EN 12266-1

*) pressure rating / temperature rating depends on temperature, medium and material



DOUBLE FLANGED DESIGN - SERIES 20 - DESIGN „U” - EPDM SEAT - BARE SHAFT - PN10

Valve type / DN	700	800	900	1000	1200	1400	1600
921U (disc - CUAL 2.0966)	8 854	11 625	16 691	20 477	33 529	56 949	96 234
922U (disc - ss 1.4308 - CF8)	6 251	7 469	10 088	13 123	22 583	35 223	54 100
923U (disc - GGG40 epoxy coated)	4 459	6 181	7 527	9 730	15 451	25 436	36 049
924U (disc - ss 1.4408 - CF8M)	6 811	8 187	10 962	14 291	24 516	38 663	61 561

*) DN750, DN1050, DN1500, DN>1600 upon request, PN16 upon request

ADDITIONAL CHARGES

Valve type / DN	450	500	600	700	800	900	1000	1200	1400	1600
NBR seat	+45	+52	+62	+91	+101	+136	+161	+213	+332	+397
Viton (FPM)	+1875	+2050	+2853	+4963	+6355	upon request				
Gearbox + Handwheel	+357	+387	+391	+708	+708	+802	+1074	+1391	+3049	+3049

*) DN750, DN1050, DN1500, DN>1600 upon request, PN16 upon request

RESILIENT SEATED BUTTERFLY VALVES**SERIES 900 - DOUBLE FLANGED - TYPE „F” - SERIES 13 - DN50 - DN1600****ABO valve****F**
SERIES
13**BASIC INFORMATION - DOUBLE FLANGED - SERIES 13 - DN50-DN1600**

Body type	DOUBLE FLANGED - LONG PATTERN - SERIES 13
Flange connection	PN 10 / PN 16 / Class 150
Face to face dimensions	ISO 5752-13
Body material	Ductile iron GGG40 epoxy coated
Disc/Shaft material	Disc: ss CF8M / Shaft: ss 1.4021 (AISI 420)
Pressure rating *)	10 bar / 16 bar
Seats temperature rating *)	NBR seat: -10°C / +90°C / EPDM seat: -25°C / +125°C **)
Tightness / Hydraulic tests	Class A - according to EN 12266-1



*) pressure / temperature rating depends on temperature, medium and material performance

**) fully vulcanized seat

BODY MATERIAL = GGG40 EPOXY COATED - EPDM SEAT - BARE SHAFT - PN10

Valve type / DN	50	65	80	100	125	150	200	250	300	350	400
923F (disc - GGG40 epoxy coated)	119	138	159	214	261	329	561	862	898	1148	1647
924F (disc - ss 1.4408 - CF8M)	127	148	167	232	297	358	561	898	1216	1611	2259

Valve type / DN	450	500	600	700	800	900	1000	1200	1400	1600 *)
923F (disc - GGG40 epoxy coated)	1803	2125	3005	5112	6871	8779	12178	18241	31064	48436
924F (disc - ss 1.4408 - CF8M)	2534	3204	4561	7859	10723	13043	17329	28425	46731	75822

*) higher dimensions up to DN2200 upon request

**) working pressure 16 bar upon request, different seats upon request

BODY MATERIAL = WCB EPOXY COATED - EPDM SEAT - BARE SHAFT - PN10

Valve type / DN	50	65	80	100	125	150	200	250	300	350	400
923F (disc - GGG40 epoxy coated)	201	241	277	329	434	514	675	928	1374	1767	2326
924F (disc - ss 1.4408 - CF8M)	192	232	266	325	439	491	672	1007	1631	2107	2783

Valve type / DN	450	500	600	700	800	900	1000	1200	1400	1600 *)
924F (disc - ss 1.4408 - CF8M)	3059	4144	5860	9946	11529	15426	19817	31449	50960	82860

*) higher dimensions up to DN2200 upon request

**) working pressure 16 bar upon request

ADDITIONAL CHARGES

Valve type / DN	50	65	80	100	125	150	200	250	300	350	400
NBR seat	+11	+13	+15	+22	+25	+28	+31	+35	+38	+40	+42
	450	500	600	700	800	900	1000	1200	1400	1600	
	+45	+52	+62	+91	+101	+136	+161	+213	+332	+397	

*) prices for lever, gearbox + handwheel upon request

MATERIAL CERTIFICATE 3.1 - EN10204 *)

up to 10 pc	16 EUR
11 - 20 pc	31 EUR
21 - 50 pc	41 EUR
51 - 99 pc	62 EUR
100 pc and more	103 EUR
Certificate of Origin approved by Chamber of Commerce	31 EUR

*) will be charged separately for each valve size stated in the offer or customer order

RESILIENT SEATED BUTTERFLY VALVES

SERIES 900 - WAFER TYPE - LUG TYPE - DN32/40 - DN400

DVGW APPROVAL FOR GAS APPLICATIONS / POTABLE WATER APPLICATIONS

DVGW FOR GAS
/ POTABLE WATER

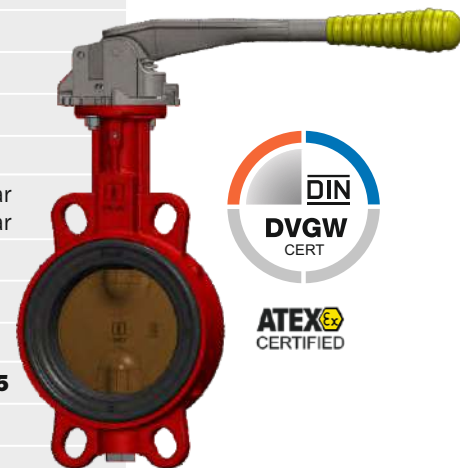
Czech Industrial Valve Manufacturer

BASIC INFORMATION

	GAS VERSION	POTABLE WATER VERSION
Body type	WAFER / LUG / PLUG DESIGN	WAFER / LUG / PLUG DESIGN
Flange connection	PN6 / PN10 / PN16 / Class 150	PN6 / PN10 / PN16 / Class 150
Face to face dimensions	ISO 5752-20	ISO 5752-20
Body material	Ductile iron GGG40 epoxy coated	GGG40 epoxy coated
Disc material	Stainless steel 1.4408	Stainless steel 1.4408
Shaft/pivot material	Stainless steel 1.4021 (AISI 420)	ss 1.4021 (AISI 420)
Pressure rating *	6 bar / 10 bar	DN25-DN400 16 bar DN>400 10 bar
Medium temperature rating **)	-5 °C / +50 °C	0 °C / +40 °C
Outdoor temperature rating **)	-20 °C / +60 °C	-20 °C / +60 °C
Tightness / Hydraulic tests	Class A (EN 12266-1)	Class A (EN 12266-1)
Seat type	NBR-70-AG (NBR-011)	EPDM-Sunaflex T8165
DVGW registration number	NG-4313CN0141	DW-6201CR0174
Test report number	32-0122	39-10716
Tested in accordance with	DIN EN 13774	DIN EN 1074-1, 2

*) pressure rating depends on temperature, medium and material performance

**) temperature rating depends on pressure, medium and material performance



WAFER TYPE - GAS APPLICATIONS

Valve type / DN	32/40	50	65	80	100	125	150	200	250	300	350	400
990B bare shaft (disc - brass)	54	57	60	66	82	-	-	-	-	-	-	-
993B bare shaft (disc - GGG40+epoxy)	52	55	59	63	75	109	132	191	284	427	746	918
994B bare shaft (disc - ss 1.4408)	56	60	64	73	87	130	163	276	431	669	1072	1409

LUG TYPE - GAS APPLICATIONS

Valve type / DN	32/40	50	65	80	100	125	150	200	250	300	350	400
990T bare shaft (disc - brass)	60	64	66	76	93	-	-	-	-	-	-	-
993T bare shaft (disc - GGG40+epoxy)	58	61	65	72	86	123	148	209	326	492	844	1111
994T bare shaft (disc - ss 1.4408)	63	66	70	82	98	145	180	294	473	734	1170	1602

WAFER TYPE - LUG TYPE - POTABLE WATER APPLICATIONS

Valve type / DN	32/40	50	65	80	100	125	150	200	250	300	350	400
924B bare shaft (disc - ss 1.4408)	65	69	75	85	100	158	199	303	475	680	1208	1674
924T bare shaft (disc - ss 1.4408)	72	76	82	95	111	172	216	321	518	745	1306	1868

ADDITIONAL CHARGES

Additional charges / DN	32/40	50	65	80	100	125	150	200	250	300	350	400
Lever *)	+15	+15	+15	+15	+15	+15	+15	+15	+35	+37	-	-
Gearbox + Handwheel	+64	+64	+64	+64	+64	+88	+88	+88	+103	+103	+122	+172

*) lever material performance: DN<200 = WCB 1.0625, DN>200 = zinc-coated tube

RESILIENT SEATED BUTTERFLY VALVES

SERIES 900 - WAFER TYPE - DN32/40 - DN300

VALVES WITH ALUMINIUM BODY



B
WAFER
DESIGN

BASIC INFORMATION

Body type	WAFER / „PLUG BODY DESIGN”
Flange connection	PN 6 / PN 10 / PN 16 / Class 150
Face to face dimensions	ISO 5752-20
Body material	Aluminium 3.2381 (EN AC 43000) ***)
Shaft/pivot material	Stainless steel 1.4021 (AISI 420)
Disc material	Ductile iron 0.7040 (GGG40) / ss 1.4308 (CF8) / ss 1.4408 (CF8M)
Seat type	EPDM-HT (FDA) (EPDM K)
Pressure rating *)	10 bar / 16 bar
Temperature rating **)	- 25 °C / +130 °C
Tightness / Hydraulic tests	Class A - according to EN 12266-1



*) pressure rating depends on temperature, medium and material

**) temperature rating depends on pressure, medium and material

***) standard coating thickness 120 µm / coating thickness for Food & Beverage industry 135 µm

WAFER TYPE - STANDARD COATING FOR CORROSIVE ENVIRONMENT

Valve type / DN	32/40	50	65	80	100	125	150	200	250	300
922B bare shaft (disc - ss 1.4308)	88	90	98	107	132	193	251	337	519	724
923B bare shaft (disc - GGG40 + epoxy coated)	86	88	95	101	123	176	227	281	410	557
924B bare shaft (disc - ss 1.4408)	90	92	100	111	134	199	264	362	565	783

ADDITIONAL CHARGES

Valve type / DN	32/40	50	65	80	100	125	150	200	250	300
Coating for Food & Beverage industry	+8	+9	+10	+11	+12	+13	+14	+16	+17	+19
Lever *)	+15	+15	+15	+15	+15	+15	+15	+15	+35	+38
Gearbox + Handwheel	+64	+64	+64	+64	+64	+88	+88	+88	+103	+103

*) lever material performance: DN<200 = WCB 1.0625, DN>200 = zinc-coated tube

5000

PTFE LINED BUTTERFLY VALVES SERIES 500 - WAFER TYPE - DN50 - DN400

TRIM WITH PTFE
COATING

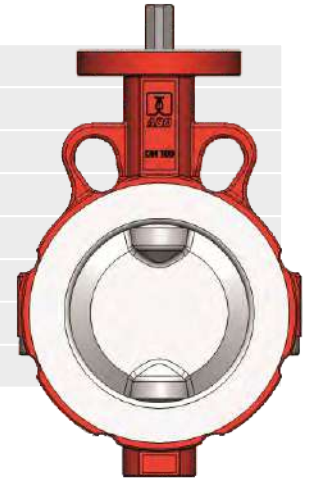
Czech Industrial Valve Manufacturer

B
WAFER
DESIGN



BASIC INFORMATION

Body type	WAFER
Flange connection	PN 6 / PN 10 / PN 16 / Class 150
Face to face dimensions	ISO 5752-20
Body material / Seat	Ductile iron 0.7043 (GGG40.3) / PTFE
Material of disc/stem/pivot	Duplex steel 1.4469 + PTFE coating / Silicone energizer
Pressure rating *)	6 bar / 10 bar
Temperature rating **)	- 40 °C / +200 °C
Tightness / Hydraulic tests	Class A - according to EN 12266-1



*) pressure rating depends on temperature, medium and material
**) temperature rating depends on pressure, medium and material

WAFER TYPE

Valve type / DN	50	65	80	100	125	150	200	250	300	350	400
599B, bare shaft	438	475	638	723	979	1056	1573	1956	2501	5560	6796
579B, bare shaft	415	442	580	687	890	955	1450	1850	2300	-	-

ADDITIONAL CHARGES

Valve type / DN	50	65	80	100	125	150	200	250	300	350	400
Lever (WCB 1.0625)	+20	+20	+20	+20	+23	-	-	-	-	-	-
Gearbox + Handwheel	+88	+88	+88	+88	+88	+99	+99	+163	+163	+177	+177

MATERIAL CERTIFICATE 3.1 - EN10204 *)

up to 10 pc	16 EUR
11 - 20 pc	31 EUR
21 - 50 pc	41 EUR
51 - 99 pc	62 EUR
100 pc and more	103 EUR
Certificate of Origin aproved by Chamber of Commerce	31 EUR

*) will be charged separately for each valve size stated in the order/offer

CODING PRINCIPLES

- 599B**
- **5** = Serie 500
 - **TRIM material:** **9** = Super duplex 1.4469 + PTFE coating
 - **Seat material:** **7** = Super duplex 1.4469 + polished edges
 - **Body design:** **9** = PTFE
 - **B** = Wafer

SUMMARY

RESILIENT SEATED BUTTERFLY VALVES
PTFE LINED BUTTERFLY VALVES



ECONOMY LINE



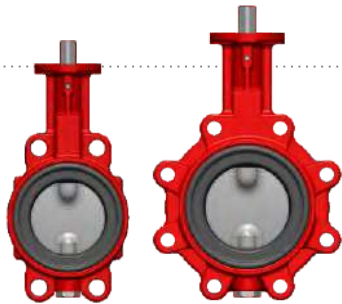
SERIE 600

Nominal size: DN32/40-DN150
Max. working pressure: 16 bar
Working temperature: -10°C/+125°C
Medium: potable water, heating, air conditioning, gas distribution



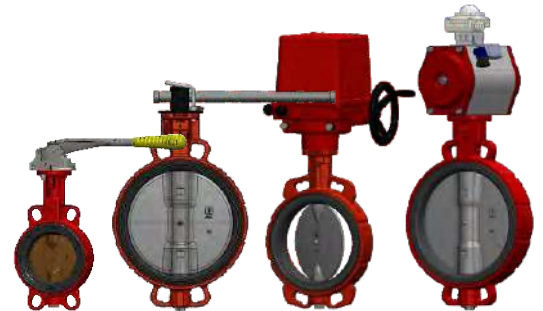
B: WAFER TYPE / T: LUG TYPE
ONLY MANUAL ACTUATION

INDUSTRIAL LINE

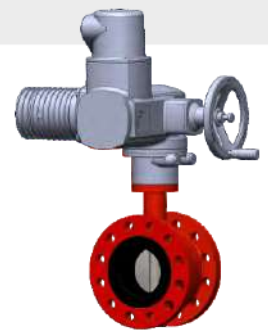


SERIE 900

Nominal size:
 Wafer/Lug: DN32/40-DN600
 Double flanged: DN700-DN1600 (Series 20)
 Double flanged: DN50-DN2200 (Series 13)
Max. working pressure: 16 bar
Working temperature: -25°C/+130°C
Medium: potable water, waste water, hot industrial water, heating water, sea water, chemicals, gas/oil and gas, oil/oil derivatives, loose materials, air, food/beverages, malt, sugar juice
DVGW certification for potable water
DVGW certification for gas
ATEX performance
 With **bonded seat** (for vacuum systems)
Double flanged design with vulcanized seat



SERIE 900 DF



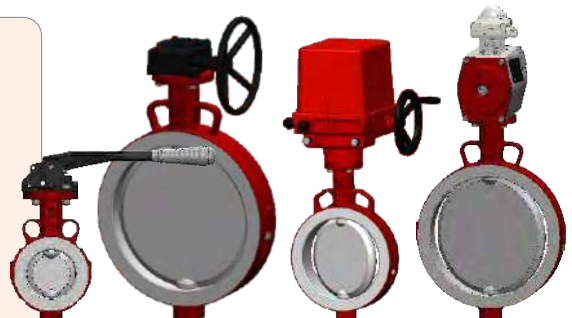
B: WAFER TYPE / T: LUG TYPE
U: SERIE 20 - SHORT PATTERN / F: SERIE 13 - LONG PATTERN
MANUAL / AUTOMATIC ACTUATION

CHEMICAL LINE



SERIE 500

Nominal size: DN50-DN400
Max. working pressure: 10 bar
Working temperature: -40°C/+200°C
Medium: purified industrial water, potable water, industrial cleaners, chemicals, beverages and food, aggressive liquids, toxic media, caustic media, paper mill stock, drugs and pharmaceuticals, chlorine, alkalines, acids, dyes
WRAS certification for potable water
FDA certification



B: WAFER TYPE
MANUAL / AUTOMATIC ACTUATION

2E R-PTFE SEAT

DOUBLE OFFSET BUTTERFLY VALVES

SERIES 2E - WAFER TYPE - LUG TYPE - DN50 - DN400 - R-PTFE SEAT

Czech Industrial Valve Manufacturer

BASIC INFORMATION

	5590	5490
Body type	WAFER / LUG	WAFER / LUG
Seat	R-PTFE reinforced by 25% glass fibre	R-PTFE reinforced by 25% glass fibre
Flange connection	PN 6 / PN 10 / PN 16 / PN 25 / PN 40 Class 150 / Class 300 ****)	PN 6 / PN 10 / PN 16 / PN 25 / PN 40 Class 150 / Class 300 ****)
Face to face dimensions	ISO 5752-20	ISO 5752-20
Body material	Carbon steel 1.0625 (A216WCB) + protective coating	Stainless steel 1.4408 (CF8M)
Disc material	DN50-DN125: ss 1.4409 (ASTM A351 CF3M) DN150-DN400: ss 1.4027 (ASTM CA-40)	DN50-DN125: ss 1.4409 (ASTM A351 CF3M) DN150-DN400: ss 1.4408 (CF8M)
Shaft material	Stainless steel 1.4021 (AISI 420) / ss 1.4542	Duplex steel 1.4462 (2205) / ss 1.4542
Pressure rating *)	16 bar / 25 bar / 40 bar / 50 bar	16 bar / 25 bar / 40 bar / 50 bar
Temperature rating **)	- 29° C / +200° C	- 55° C / +200° C
Tightness/Hydraulic tests	Class A - according to EN 12266-1 ***)	Class A - according to EN 12266-1 ***)

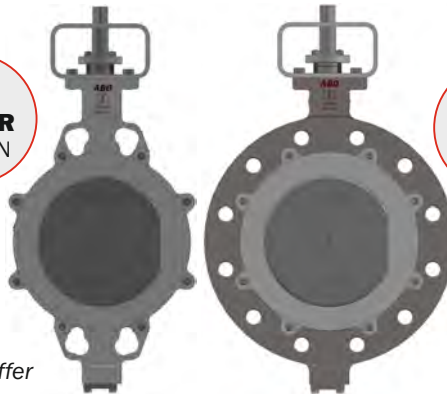
*) pressure rating depends on temperature, medium and material
 **) temperature rating depends on pressure, medium and material
 ***) guaranteed from preferred side

MATERIAL CERTIFICATE 3.1 - EN10204 *)

up to 10 pc	16 EUR
11 - 20 pc	31 EUR
21 - 50 pc	41 EUR
51 - 99 pc	62 EUR
100 pc and more	103 EUR
Certificate of Origin approved by Chamber of Commerce	31 EUR

*) is charged separately for each valve size stated in the order/offer

B
WAFER
DESIGN



T
LUG
DESIGN

WORKING PRESSURE MAX.

DN50-DN125: 50 bar
 DN150-DN200: 40 bar
 DN250-DN450: 25 bar

WAFER TYPE / LUG TYPE - BARE SHAFT - 5590

DN	5590B	5590T	Additional charges			
			Disc from 1.4408 (CF8M)	Lever	Gearbox	Version ATEX *)
50	358	382	-	+20	+89	+58
65	368	392	-	+20	+89	+58
80	382	411	-	+20	+89	+58
100	440	453	-	+20	+89	+58
125	635	679	-	+23	+89	+68
150	804	1050	66	+23**)	+116	+68
200	1019	1205	80	-	+116	+77
250	1773	1829	114	-	+168	+89
300	2193	2578	148	-	+168	+89
350	4329	4766	284	-	+332	+103
400	5702	6454	409	-	+373	+103

*) ATEX according to 2014/34/EU
 **) lever for PS16 only

WAFER TYPE / LUG TYPE - BARE SHAFT - 5490

DN	5490B	5490T	Additional charges		
			Lever	Gearbox	Version ATEX *)
50	487	560	+20	+89	+58
65	547	682	+20	+89	+58
80	585	743	+20	+89	+58
100	750	873	+20	+89	+58
125	913	1247	+23	+89	+68
150	1205	1713	+23**)	+116	+68
200	2113	2622	-	+116	+77
250	3315	4143	-	+116	+89
300	4783	5929	-	+168	+89
350	8176	9308	-	+332	+103
400	10250	11609	-	+373	+103

*) ATEX according to 2014/34/EU
 Dimension DN450 upon request.

******) Flange connection according to „PN6" and „Class 300" has to be consulted with ABO Co.
 For body design DN50-DN125 - see the page No.15
 LCC body available upon request.**

DOUBLE OFFSET BUTTERFLY VALVES

SERIES 2E - WAFER TYPE - LUG TYPE - DN50 - DN125 - METAL/METAL SEAT



ABO valve

BASIC INFORMATION

	5570	5470
Body type	WAFER / LUG	WAFER / LUG
Seat	INCONEL 2.4668, 718	INCONEL 2.4668, 718
Flange connection	PN 6 / PN 10 / PN 16 / PN 25 / PN 40 Class 150 / Class 300 ***)	PN 6 / PN 10 / PN 16 / PN 25 / PN 40 Class 150 / Class 300 ***)
Face to face dimensions	ISO 5752-20	ISO 5752-20
Material of the body	Carbon steel 1.0625 (A216WCB) + protective coating	Stainless steel 1.4408 (CF8M)
Material of disc	Stainless steel 1.4409 (ASTM A351 CF3M) Nickel plated	Stainless steel 1.4409 (ASTM A351 CF3M) Nickel plated
Material of shaft	Stainless steel 1.4021 (AISI 420)	Duplex steel 1.4462 (2205)
Pressure rating *)	16 bar / 25 bar	16 bar / 25 bar
Temperature rating **)	- 29 °C / +325 °C ***)	- 55 °C / +325 °C ***)
Tightness/Hydraulic tests	Class C - according to EN 12266-1	Class C - according to EN 12266-1

*) pressure rating depends on temperature, medium and material
 **) temperature rating depends on pressure, medium and material

MATERIAL CERTIFICATE 3.1 - EN10204 *)

up to 10 pc	16 EUR
11 - 20 pc	31 EUR
21 - 50 pc	41 EUR
51 - 99 pc	62 EUR
100 pc and more	103 EUR
Certificate of Origin approved by Chamber of Commerce	31 EUR

*) charged separately for each valve size stated in the order / offer



WORKING PRESSURE MAX.
 DN50-DN125: 25 bar

WAFER TYPE / LUG TYPE - BARE SHAFT - 5570

DN	5570B	5570T	Additional charges		
			Lever	Gearbox	Version ATEX *)
50	679	740	+20	+89	+58
65	769	832	+20	+89	+58
80	776	845	+20	+89	+58
100	919	990	+20	+89	+58
125	1172	1272	+23	+89	+68

*) ATEX according to 2014/34/EU

WAFER TYPE / LUG TYPE - BARE SHAFT - 5470

DN	5470B	5470T	Additional charges		
			Lever	Gearbox	Version ATEX *)
50	887	1037	+20	+89	+58
65	995	1152	+20	+89	+58
80	1018	1191	+20	+89	+58
100	1165	1350	+20	+89	+58
125	1742	1996	+23	+89	+68

*) ATEX according to 2014/34/EU

Flange connection according to „PN6" and „Class 300" has to be consulted with ABO Co.

For sizes over DN125 „Metal-Metal" seat, please see the page No. 19.
 Higher working temperatures upon request.

***) If the working temperature is higher than +325 °C, please consult with us.

2E FIRE SAFE SEAT

DOUBLE OFFSET BUTTERFLY VALVES

SERIES 2E - WAFER TYPE - LUG TYPE - DN50 - DN125 - FIRE SAFE SEAT

Czech Industrial Valve Manufacturer

BASIC INFORMATION

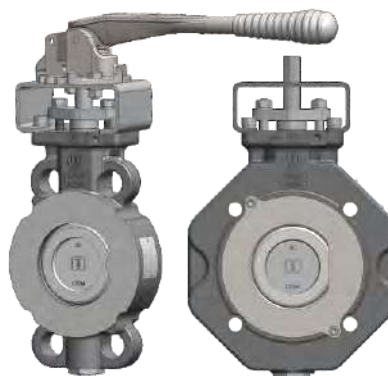
	5580	5480
Body type	WAFER / LUG	WAFER / LUG
Seat	FIRE SAFE (R-PTFE + INCONEL 718) ***)	FIRE SAFE (R-PTFE + INCONEL 718) ***)
Flange connection	PN 6 / PN 10 / PN 16 / PN 25 / PN 40 Class 150 / Class 300 ****)	PN 6 / PN 10 / PN 16 / PN 25 / PN 40 Class 150 / Class 300 ****)
Face to face dimensions	ISO 5752-20	ISO 5752-20
Body material	Carbon steel 1.0625 (A216WCB) + protective coating	Stainless steel 1.4408 (CF8M)
Disc material	Stainless steel 1.4409 (ASTM A351 CF3M) Nickel plated	Stainless steel 1.4409 (ASTM A351 CF3M) Nickel plated
Shaft material	Stainless steel 1.4021 (AISI 420)	Duplex steel 1.4462 (2205)
Pressure rating *)	16 bar / 25 bar	16 bar / 25 bar
Temperature rating **)	-29 °C / +200 °C	-55 °C / +200 °C
Tightness/Hydraulic tests	Class A - according to EN 12266-1	Class A - according to EN 12266-1

*) pressure rating depends on temperature, medium and material
 **) temperature rating depends on pressure, medium and material
 ***) fire safe approved acc. to ISO 10497 and API607

MATERIAL CERTIFICATE 3.1 - EN10204 *)

up to 10 pc	16 EUR
11 - 20 pc	31 EUR
21 - 50 pc	41 EUR
51 - 99 pc	62 EUR
100 pc and more	103 EUR
Certificate of Origin approved by Chamber of Commerce	31 EUR

*) is charged separately for each valve size stated in the order/offer



WORKING PRESSURE MAX.
 DN50-DN125: 25 bar

WAFER TYPE / LUG TYPE - BARE SHAFT - 5580

DN	5580B	5580T	Additional charges		
			Lever	Gearbox	Version ATEX *)
50	791	852	+20	+89	+58
65	906	971	+20	+89	+58
80	933	1003	+20	+89	+58
100	1079	1149	+20	+89	+58
125	1430	1530	+23	+89	+68

*) ATEX according to 2014/34/EU

WAFER TYPE / LUG TYPE - BARE SHAFT - 5480

DN	5480B	5480T	Additional charges		
			Lever	Gearbox	Version ATEX *)
50	1060	1210	+20	+89	+58
65	1125	1283	+20	+89	+58
80	1205	1379	+20	+89	+58
100	1381	1566	+20	+89	+58
125	1908	2163	+23	+89	+68

*) ATEX according to 2014/34/EU

****) Flange connection according to „PN6“ and „Class 300“ has to be consulted with company ABO valve.

CODING PRINCIPLES

5590B 5 = Serie 2E5

- Body material: **7** = Stainless steel 1.4539 (Uranus B6)
6 = Low carbon content steel 1.1156 (A352 LCC)
5 = Carbon steel 1.0625 (A216 WCB)
4 = Stainless steel 1.4408 (A351 CF8M)
- Seat material: **9** = R-PTFE reinforced by 25% glass fibre
8 = Fire safe (R-PTFE+Inconel)
7 = 2.4668 INCONEL 718
- Discs material: **0** = Stainless steel 1.4409 (A351 CF3M)
5 = Carbon steel 1.0625 (A216 WCB)
7 = Stainless steel 1.4539 (Uranus B6)
- Body design: **B** = Wafer, **T** = Lug

DOUBLE OFFSET BUTTERFLY VALVES

SERIES 2E - RS - WAFER/LUG TYPE - DN50 - DN600 - R-PTFE SEAT + Silicone



ABO valve

WORKING PRESSURE MAX.

DN50-DN125: 50 bar
DN150-DN200: 40 bar
DN250-DN600: 25 bar

BASIC INFORMATION

	5590 RS	5490 RS
Body type	WAFER / LUG	WAFER / LUG
Seat	R-PTFE reinforced by 25% glass fibre + Silicone	R-PTFE reinforced by 25% glass fibre + Silicone
Flange connection	PN 6 / PN 10 / PN 16 / PN 25 / PN 40 Class 150 / Class 300 ****)	PN 6 / PN 10 / PN 16 / PN 25 / PN 40 Class 150 / Class 300 ****)
Face to face dimensions	ISO 5752-20	ISO 5752-20
Body material	Carbon steel 1.0625 (A216WCB) + protective coating	Stainless steel 1.4408 (CF8M)
Disc material	Stainless steel 1.4409/1.4409 + Nickel plating	Stainless steel 1.4409/1.4409 + Nickel plating
Shaft material	Stainless steel 1.4021 (AISI 420) / 1.4462	Stainless steel 1.4021 (AISI 420) / 1.4462
Pressure rating *)	6 bar / 10 bar / 16 bar / 25 bar / 40 bar / 50 bar	6 bar / 10 bar / 16 bar / 25 bar / 40 bar / 50 bar
Temperature rating **)	- 29 °C / +200 °C	- 55 °C / +200 °C
Tightness/Hydraulic tests	Class A - according to EN 12266-1 ***)	Class A - according to EN 12266-1 ***)

*) pressure rating depends on temperature, medium and material
**) temperature rating depends on pressure, medium and material
***) not preferred side has the same tightness

****) flange connection according to „PN6" and „Class 300" has to be consulted with company ABO valve

WAFER TYPE / LUG TYPE - BARE SHAFT - 5590 RS

DN	5590B	5590T	Additional charges		
			Lever	Gearbox	Version ATEX*)
50	415	443	+20	+89	+58
65	427	455	+20	+89	+58
80	443	477	+20	+89	+58
100	510	525	+20	+89	+58
125	737	788	+23	+89	+68
150	933	1218	+23	+116	+68
200	1182	1398	-	+116	+77
250	2021	2085	-	+116	+89
300	2500	2939	-	+168	+89
350	4935	5433	-	+332	+103
400	6500	7358	-	+373	+103
450	10961	14477	-	+726	+113
500	11935	15506	-	+726	+113
600	18370	23900	-	+840	+136

*) ATEX according to 2014/34/EU

WAFER TYPE / LUG TYPE - BARE SHAFT - 5490 RS

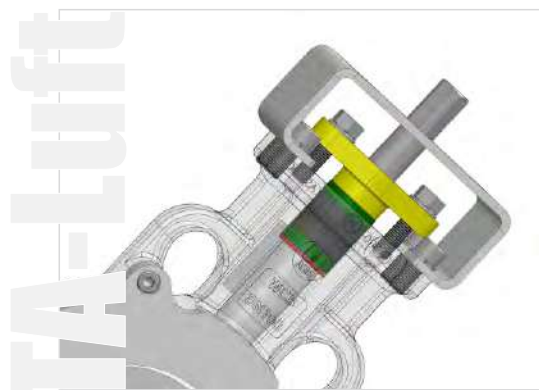
DN	5490B	5490T	Additional charges		
			Lever	Gearbox	Version ATEX*)
50	565	650	+20	+89	+58
65	634	791	+20	+89	+58
80	678	862	+20	+89	+58
100	870	1013	+20	+89	+58
125	1059	1447	+23	+89	+68
150	1398	1991	+23	+116	+68
200	2451	3042	-	+116	+77
250	3779	4723	-	+116	+89
300	5453	6759	-	+168	+89
350	9321	10612	-	+332	+103
400	11685	13234	-	+373	+103
450	15826	19862	-	+726	+113
500	22764	28446	-	+726	+113
600	26560	38890	-	+840	+136

*) ATEX according to 2014/34/EU

SERIES 2E/3E - TA-Luft Stuffing box - DN50-DN400 *)

Valve type / DN	50	65	80	100	125	150
	+35	+35	+35	+35	+35	+50
Valve type / DN	200	250	300	350	400	500
	+50	+57	+69	+94	+115	+138

*) special design of stuffing box upon request



FIRE SAFE SEAT STELLITED BODY

TRIPLE OFFSET BUTTERFLY VALVES

SERIES 3E - WAFER TYPE - LUG TYPE - DN80 - DN125 - FIRE SAFE SEAT

Czech Industrial Valve Manufacturer

BASIC INFORMATION

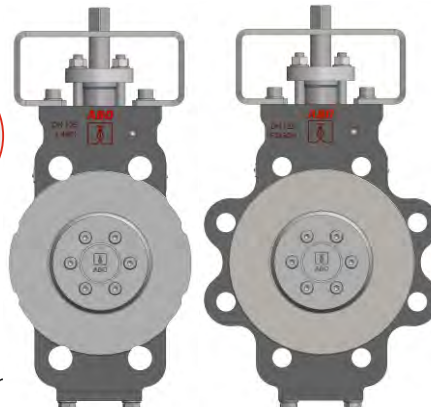
	35sL4	34sL4
Body type	WAFER / LUG / STELLITED BODY	WAFER / LUG / STELLITED BODY
Seat	LAMELLAR - ss 1.4401 (AISI 316) + graphite	LAMELLAR - ss 1.4401 (AISI 316) + graphite
Flange connection	PN 10 / PN 16 / PN 25 / PN 40 Class 150 / Class 300	PN 10 / PN 16 / PN 25 / PN 40 Class 150 / Class 300
Face to face dimensions	ISO 5752-20	ISO 5752-20
Material of the body	Carbon steel 1.0425 + protective coating	Stainless steel 1.4401 (AISI 316)
Material of disc	Stainless steel 1.4408 (CF8M) Nitridated	Stainless steel 1.4408 (CF8M) Nitridated
Material of shaft	Stainless steel 1.4021 (AISI 420)	Duplex steel 1.4462
Pressure rating *)	10 bar / 16 bar / 25 bar / 40 bar / 50 bar	10 bar / 16 bar / 25 bar / 40 bar / 50 bar
Temperature rating **)	-29 °C / +325 °C ***)	-60 °C / +325 °C ***)
Tightness/Hydraulic tests	Class A/B - according to EN 12266-1	Class A/B - according to EN 12266-1

*) pressure rating depends on temperature, medium and material
**) temperature rating depends on pressure, medium and material

MATERIAL CERTIFICATE 3.1 - EN10204 *)

up to 10 pc	16 EUR
11 - 20 pc	31 EUR
21 - 50 pc	41 EUR
51 - 99 pc	62 EUR
100 pc and more	103 EUR
Certificate of Origin approved by Chamber of Commerce	31 EUR

*) is charged separately for each valve size stated in the order/offer



WORKING PRESSURE MAX.
DN80-DN125: 50 bar

WAFER TYPE / LUG TYPE - BARE SHAFT - 35sL4

DN	35sL4B	35sL4T	Additional charges		
			Lever	Gearbox	Version ATEX *)
80	1245	1356	-	+88	+58
100	1311	1428	-	+88	+58
125	1380	1502	-	+88	+58

*) according to 2014/34/EU

WAFER TYPE / LUG TYPE - BARE SHAFT - 34sL4

DN	34sL4B	34sL4T	Additional charges		
			Lever	Gearbox	Version ATEX *)
80	1609	1916	-	+88	+58
100	1694	2017	-	+88	+58
125	1783	2123	-	+88	+68

*) according to 2014/34/EU

CODING PRINCIPLES

35sL4B 3 = Serie 3E

- Body material: **7** = Stainless steel 1.4539 (Uranus B6, AISI 904L)
6 = Low carbon content steel 1.1156 (A352 LCC)
5 = Carbon steel 1.0625 (A216 WCB), 1.0425, 1.0566
4 = Stainless steel 1.4408 (CF8M), 1.4401 (AISI 316)
- **s** = **Stellited body (or disc)**
- Seat material: **L** = Lamellar version - stainless steel 1.4401 (AISI 316) + graphite filler
- Discs material: **7** = Stainless steel 1.4539 (Uranus B6)
4 = Stainless steel 1.4408 (CF8M), 1.4021 (AISI 420), 1.4401 (AISI 316) Nitrided
- Body design: **B** = Wafer, **T** = Lug, **F** = Double flanged

TRIPLE OFFSET BUTTERFLY VALVES

SERIES 3E - WAFER TYPE - LUG TYPE - DN150 - DN500 - FIRE SAFE SEAT



ABO valve

BASIC INFORMATION

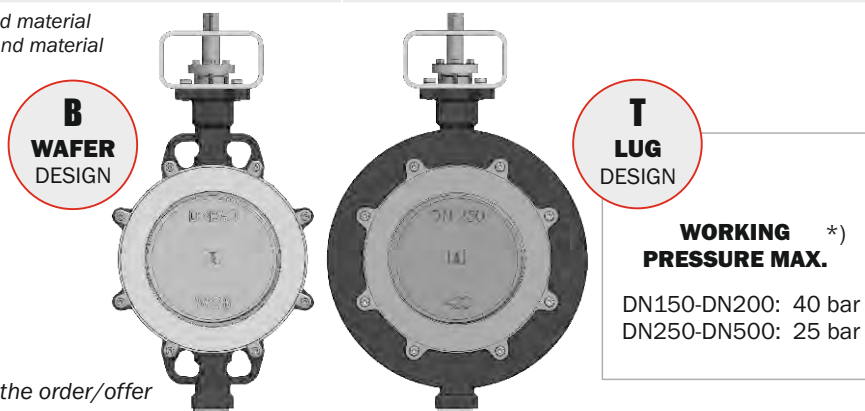
	35L4	34L4
Body type	WAFER / LUG	WAFER / LUG
Seat	LAMELLAR - ss 1.4401 (AISI 316) + graphite	LAMELLAR - ss 1.4401 (AISI 316) + graphite
Flange connection	PN 10 / PN 16 / PN 25 / PN 40 Class 150 / Class 300	PN 10 / PN 16 / PN 25 / PN 40 Class 150 / Class 300
Face to face dimensions	ISO 5752-20	ISO 5752-20
Material of the body	Carbon steel 1.0625 (A216WCB) + protective coating	Stainless steel 1.4408 (CF8M)
Material of disc	Stainless steel 1.4027 (CA40) Nitridated	Stainless steel 1.4408 (A351 CF8M) Nitridated
Material of shaft	Stainless steel 1.4021 (AISI 420) / 1.4542	Duplex steel 1.4462 (2205) / ss 1.4542
Pressure rating *)	10 bar / 16 bar / 25 bar / 40 bar	10 bar / 16 bar / 25 bar / 40 bar
Temperature rating **)	-29°C / +325°C ***)	-60°C / +325°C ***)
Tightness/Hydraulic tests	Class A/B - according to EN 12266-1	Class A/B - according to EN 12266-1

*) pressure rating depends on temperature, medium and material
 **) temperature rating depends on pressure, medium and material

MATERIAL CERTIFICATE 3.1 - EN10204 *)

up to 10 pc	16 EUR
11 - 20 pc	31 EUR
21 - 50 pc	41 EUR
51 - 99 pc	62 EUR
100 pc and more	103 EUR
Certificate of Origin approved by Chamber of Commerce	31 EUR

*) charged separately for each valve size stated in the order/offer



WAFER TYPE / LUG TYPE - BARE SHAFT - 35L4

DN	35L4B	35L4T	Additional charges			
			Disc from 1.4408 (CF8M)	Lever	Gearbox	Version ATEX *)
150	1452	1582	+66	-	+116	+68
200	1771	1959	+80	-	+116	+77
250	2637	2729	+113	-	+116	+89
300	3883	4288	+148	-	+168	+89
350	6215	6436	+284	-	+332	+103
400	7775	8496	+409	-	+378	+103
500	17842	-	+1301	-	+726	+103

*) ATEX according to 2014/34/EU

WAFER TYPE / LUG TYPE - BARE SHAFT - 34L4

DN	34L4B	34L4T	Additional charges		
			Lever	Gearbox	Version ATEX *)
150	1877	2235	-	+116	+68
200	2827	3399	-	+116	+77
250	4391	5243	-	+116	+89
300	5875	7055	-	+168	+89
350	9803	10991	-	+332	+103
400	10909	12308	-	+378	+103
500	32748	-	-	+726	+103

*) ATEX according to 2014/34/EU

Stellited disc

WAFER TYPE / LUG TYPE - BARE SHAFT

Line with	150	200	250	300	350	400	500
Stellited disc	+457	+564	+868	+1280	+1414	+1655	+1985

Flange connection according to „Class 300“ has to be consulted with company ABO valve.
 ***) if the working temperature is higher than +325°C, please consult with us.

TRIPLE OFFSET BUTTERFLY VALVES

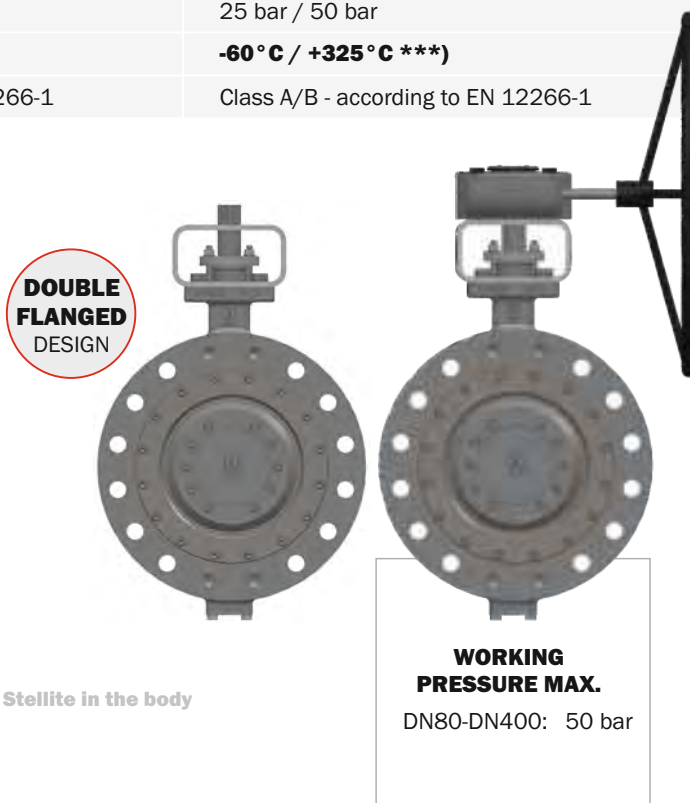
SERIES 3E - DOUBLE FLANGED - „F” TYPE - DN80 - DN400 - FIRE SAFE

Czech Industrial Valve Manufacturer

BASIC INFORMATION

	35sL4F	34sL4F
Body type	DOUBLE FLANGED	DOUBLE FLANGED
Seat	LAMELLAR - ss 1.4401 (AISI 316) + graphite	LAMELLAR - ss 1.4401 (AISI 316) + graphite
Flange connection	PN 10 / PN 16 / PN 25 / PN 40 Class 150 / Class 300	PN 10 / PN 16 / PN 25 / PN 40 Class 150 / Class 300
Face to face dimensions	ISO 5752-13	ISO 5752-13
Material of the body	Carbon steel 1.0625 (A216 WCB) + protective coating	Stainless steel 1.4408 (A351 CF8M)
Material of disc	Stainless steel 1.4408 (A351 CF8M)	Stainless steel 1.4408 (A351 CF8M)
Material of shaft	Stainless steel 1.4021 (AISI 420)/1.4462 Duplex	Stainless steel 1.4021 (AISI 420)/1.4462 Duplex
Pressure rating *)	25 bar / 50 bar	25 bar / 50 bar
Temperature rating **)	-29 °C / +325 °C ***)	-60 °C / +325 °C ***)
Tightness/Hydraulic tests	Class A/B - according to EN 12266-1	Class A/B - according to EN 12266-1

*) pressure rating depends on temperature, medium and material
 **) temperature rating depends on pressure, medium and material



DOUBLE FLANGED TYPE - BARE SHAFT - 35sL4F

DN	35sL4F	Additional charges
		Gearbox
80	1636	+88
100	2214	+88
125	3137	+116
150	3379	+116
200	4670	+116
250	9671	+116
300	14004	+168
350	19664	+332
400	23786	+378

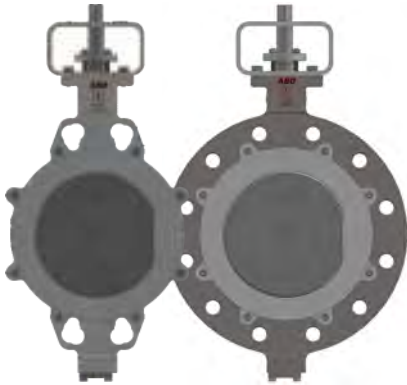
***) If the working temperature is higher than +325 °C, please consult with us.

SUMMARY

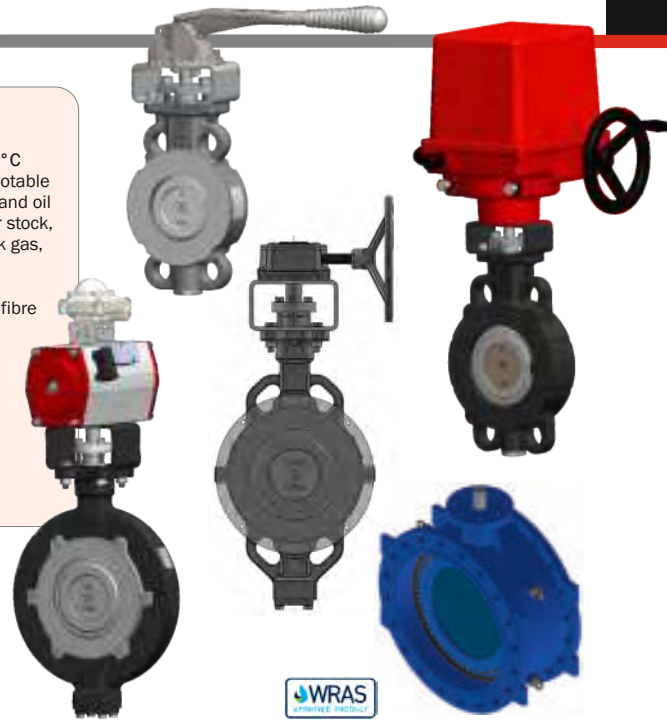
DOUBLE OFFSET BUTTERFLY VALVES
TRIPLE OFFSET BUTTERFLY VALVES



ENERGY LINE



Nominal size: DN50-DN600
Max. working pressure: 50 bar
Working temperature: -60 °C/+325 °C
Medium: waste water, supply water, potable water, hot industrial water, petroleum and oil products, oil, oil derivatives, fuel, paper stock, pulp, natural gas, coke-oven gas, stack gas, non-aggressive liquids and gas, steam, condensate system, air, bitumen
R-PTFE seat reinforced by 25% glass fibre
Metal-metal seat - Inconel design
Fire safe seat - Inconel + R-PTFE
 Nonreversible design
Bidirectional design
SIL2 / SIL3 Certification
ATEX Performance
Ta-Luft Stuffing box •
Double flanged design with nominal size up to DN2000



SERIES
2E



B: WAFER TYPE / T: LUG TYPE / 2E3: DOUBLE FLANGED
MANUAL / AUTOMATIC ACTUATION

POWER LINE



Nominal size: DN80-DN500
Max. working pressure: 50 bar
Working temperature: -60 °C/+325 °C
Medium: waste water, supply water, hot industrial water, abrasive media, crude oil and other oil products, oil derivatives, fuel, paper stock, aggressive acids, gas, vacuum, non-aggressive liquids and gas, condensate system, chemicals, steam - high temperature ranges
Fire safe seat - Lamellar + graphite
SIL2 / SIL3 Certification
Stellited line
ATEX Performance
Ta-Luft Stuffing box •
Double flanged design with **stellited body or disc**



SERIES
3E



B: WAFER TYPE / T: LUG TYPE / F: DOUBLE FLANGED
MANUAL / AUTOMATIC ACTUATION

2000

RIISING STEM KNIFE GATE VALVES WITH HANDWHEEL

SERIES 200 - WAFER TYPE - LUG TYPE - DN50 - DN600

GG25 BODY EPOXY COATED

Czech Industrial Valve Manufacturer

BASIC INFORMATION

Body type	WAFER / LUG	WAFER / LUG
Seat	EPDM / NBR / VITON	METAL
Flange connection	PN6 / PN10 / (PN16 upon request) ANSI B16.5 (Class 150)	PN6 / PN10 / (PN16 upon request) ANSI B16.5 (Class 150)
Material of the body	Grey cast iron (GG25) (GGG40 is possible)	Grey cast iron (GG25) epoxy coated (80 µm)
Material of the gate	Stainless steel 1.4306 (AISI 304L)	Stainless steel 1.4306 (AISI 304L)
Material of rising stem	Stainless steel 1.4305 (AISI 303)	Stainless steel 1.4305 (AISI 303)
Pressure rating *)	2 bar / 4 bar / 6 bar / 10 bar	2 bar / 4 bar / 6 bar / 10 bar
Temperature rating **)	-10 °C / +130 °C (EPDM seat) -10 °C / +90 °C (NBR seat) -10 °C / +150 °C (VITON seat)	-10 °C / +200 °C

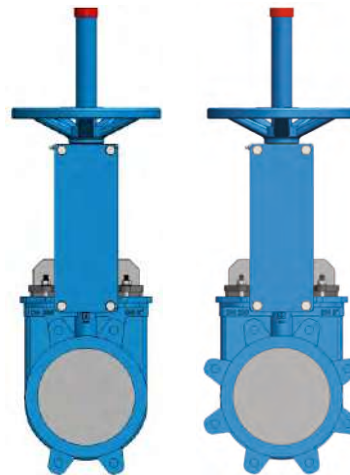
*) pressure rating depends on temperature, medium and material

***) temperature rating depends on pressure, medium and material

MATERIAL CERTIFICATE 3.1 - EN10204

up to 10 pc	16 EUR
11 - 20 pc	31 EUR
21 - 50 pc	41 EUR
51 - 99 pc	62 EUR
100 pc and more	103 EUR
Certificate of Origin approved by Chamber of Commerce	31 EUR

*) will be charged separately for each item stated in the order/offer



WORKING PRESSURE MAX. *)

DN50-DN250:	10 bar
DN300-DN400:	6 bar
DN500-DN600:	4 bar
DN700-DN1200:	2 bar

WAFER TYPE - BODY MATERIAL GG25 - EPDM/NBR/METAL SEAT

Body	GG25	GG25	GG25	GG25
Gate	AISI 304	AISI 304	AISI 304	AISI 304
Seat	METAL	METAL	EPDM/NBR	EPDM/NBR
Stuffing box	Synt.+PTFE	Synt.+PTFE	Synt.+PTFE	Synt.+PTFE
Actuation	Handwheel	Pneu D/A	Handwheel	Pneu D/A
	Rising stem		Rising stem	
DN				
50	256	407	277	431
65	259	429	281	452
80	280	449	304	471
100	315	494	338	498
125	379	580	408	613
150	418	661	450	693
200	622	1039	661	1076
250	814	1426	882	1494
300	1063	1700	1111	1749
350	1746	3016	1824	3102
400	2242	3495	2396	4728
450	3034	4988	3135	5093
500	3003	5682	3409	5802
600	4705	7220	4847	7371

ADDITIONAL CHARGES

DN	WAFER body	LUG body	
	GGG40/50	GG25	GGG40/50
50	+10,0	-	-
65	+12,0	-	-
80	+13,0	+20,0	+23,0
100	+15,0	+20,0	+23,0
125	+19,0	+32,0	+52,0
150	+23,0	+30,0	+64,0
200	+47,0	+47,0	+64,0
250	+66,0	+66,0	+83,0
300	+85,0	+123,0	+170,0
350	+152,0	+142,0	+177,0
400	+190,0	+142,0	+177,0
450	+256,0	+186,0	+232,0
500	+294,0	+256,0	+320,0
600	+370,0	+407,0	+509,0

*) higher dimensions upon request

RISING STEM KNIFE GATE VALVES WITH HANDWHEEL

SERIES 200 - WAFER TYPE - LUG TYPE - DN50 - DN600



ABO valve

BASIC INFORMATION

Body type	WAFER / LUG	WAFER / LUG
Seat	EPDM / NBR / VITON	METAL
Flange connection	PN6 / PN10 / (PN16 upon request) ANSI B16.5 (Class 150)	PN6 / PN10 / (PN16 upon request) ANSI B16.5 (Class 150)
Material of the body	Stainless steel 1.4408 (CF8M)	Stainless steel 1.4408 (CF8M)
Material of the gate	Stainless steel 1.4404 (AISI 316L)	Stainless steel 1.4404 (AISI 316L)
Material of rising stem	Stainless steel 1.4305 (AISI 303)	Stainless steel 1.4305 (AISI 303)
Pressure rating *)	2 bar / 4 bar / 6 bar / 10 bar	2 bar / 4 bar / 6 bar / 10 bar
Temperature rating **)	-25 °C / +130 °C (EPDM seat) -25 °C / +90 °C (NBR seat) -25 °C / +150 °C (VITON seat)	-55 °C / +200 °C

*) pressure rating depends on temperature, medium and material

***) temperature rating depends on pressure, medium and material

WAFER TYPE - BODY MATERIAL CF8M - EPDM or METAL SEAT

Body	CF8M	CF8M	CF8M	CF8M
Gate	AISI 316	AISI 316	AISI 316	AISI 316
Seat	METAL	METAL	EPDM/NBR	EPDM/NBR
Stuffing box	Synt.+PTFE	Synt.+PTFE	Synt.+PTFE	Synt.+PTFE
Actuation	Handwheel	Pneu D/A	Handwheel	Pneu D/A
	Rising stem		Rising stem	
DN				
50	502	674	541	878
65	507	685	551	893
80	556	727	607	984
100	632	804	685	1109
125	728	948	795	1289
150	910	1169	977	1582
200	1311	1752	1388	2249
250	1790	2445	1877	3041
300	2317	3087	2424	3928
350	3953	5735	4079	6608
400	4586	6118	4743	7684
450	6492	8597	6635	10748
500	7641	10275	7832	12688
600	10474	13117	10695	17325

ADDITIONAL CHARGES

2x On/Off Telemecanique XCKM115 mechanical switches	+196 EUR/net per valve
2x On/Off Omrom Plastic D4N-1120 plastic switches	+151 EUR/net per valve
2x On/Off Omrom Proximity sensor	+216 EUR/net per valve
5/2 24vdc Metalwork solenoid valve + tubing	+151 EUR/net per valve (any voltage, same price)
Ductile iron GGG40/50 (valid for GG25 body)	+10%
ANSI 150 flanges	+13% (special flanges to confirm)
LUG PN 10	+10%
Special coating 250µm/300µm	+11%

ADDITIONAL CHARGES

DN	LUG body
	CF8M
50	-
65	-
80	+152,0
100	+152,0
125	+161,0
150	+180,0
200	+228,0
250	+274,0
300	+351,0
350	+474,0
400	+521,0
450	+749,0
500	+965,0
600	+977,0

MATERIAL CERTIFICATE 3.1 - EN10204

up to 10 pc	16 EUR
11 - 20 pc	31 EUR
21 - 50 pc	41 EUR
51 - 99 pc	62 EUR
100 pc and more	103 EUR
Certificate of Origin approved by Chamber of Commerce	31 EUR

*) will be charged separately for each item stated in the order/offer

SWING CHECK VALVES DUAL PLATE CHECK VALVES

SERIES 800 - DN50 - DN300
SERIES 700 - DN50 - DN400

000/700

Czech Industrial Valve Manufacturer

SERIE 800 - BASIC INFORMATION

Serie type	800 - WAFER DESIGN	800 CAR
Seat	EPDM / NBR	EPDM
Flange connection	PN10 / PN16	PN10 / PN16
Face to face dimensions	ČSN EN 558 / ISO 5752	ČSN EN 558 / ISO 5752
Material of the body	Ductile iron 0.7040 (GGG40) epoxy coated	Carbon steel 1.0619 zinc coated
Material of the disc	Stainless steel 1.4308 (CF8)	Carbon steel 1.0619 zinc coated
Material of the holder	Stainless steel 1.4308 (CF8)	Stainless steel 1.4305 (AISI 303)
Pressure rating *)	10 bar / 16 bar	10 bar / 16 bar
Temperature rating **)	-25 °C / +125 °C (EPDM seat) -10 °C / +90 °C (NBR seat)	-10 °C / +125 °C (EPDM seat)



*) pressure rating depends on temperature, medium and material
**) temperature rating depends on pressure, medium and material

SERIE 800 - WAFER TYPE - EPDM/NBR SEAT - PN10/16

Valve type / DN	50	65	80	100	125
824B/814B	24	29	37	47	62
		150	200	250	300
		72	107	200	290

CODING PRINCIPLES

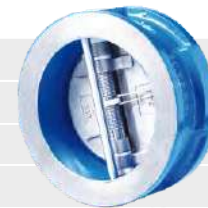
- 824B** **8** = Serie 800
- Seat material: **1** = NBR, **2** = EPDM
 - Disc material: **4** = ss 1.4308 (CF8)
 - Body design: **B** = Wafer

SERIE 800 CAR - EPDM SEAT - PN16

Valve type / DN	40	50	65	80	100	125	150	200	250	300
800 CAR	61	64	70	79	92	117	147	267	343	470

SERIE 700 - BASIC INFORMATION

Serie type	700
Seat	EPDM
Flange connection	PN 10 / PN 16
Face to face dimensions	ČSN EN 558 / ISO 5752
Material of the body	Ductile iron 0.7040 (GGG40) epoxy coated
Material of the plates	Stainless steel 1.4308 (CF8)
Material of the springs	Stainless steel 1.4301 (AISI 304)
Pressure rating	10 bar / 16 bar
Temperature rating	-25 °C / +125 °C



SERIE 700 - PN10/16 - EPDM SEAT

Valve type / DN	50	65	80	100	125	150	200	250	300	350	400
722B	32	39	58	75	100	139	215	363	525	666	1009

*) pressure rating depends on temperature, medium and material
**) temperature rating depends on pressure, medium and material
Dual plate check valves with **aluminium bronze plates or NBR seats** upon request.

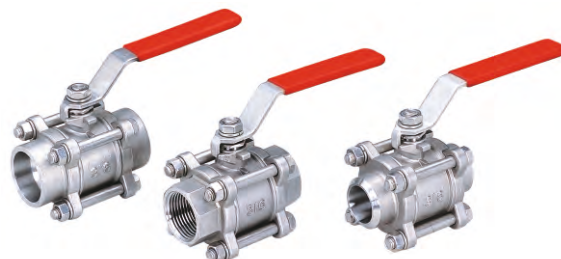
BALL VALVES
SERIES ART.94x - DN10 - DN50
Y-STRAINERS
SERIES FRI-16 - DN40 - DN300



ABO valve

BASIC INFORMATION

Body&Ball material	Stainless steel 1.4408 (CF8M)
Seat material	PTFE fibre glass charged
Operated	Manually by level



ART.940 2-piece Ball Valve Insided bored body Female thread (BSPP/BSPT) DN8-DN25: PN63 DN32-DN50: PN40		ART.941 2-piece Ball Valve + ISO Top Flange Insided bored body Female thread (BSPP/BSPT) DN8-DN25: PN63 DN32-DN50: PN40		ART.942 3-piece Ball Valve Insided bored body Female thread (BSPP/BSPT) DN8-DN25: PN63 DN32-DN50: PN40		ART.943 3-piece Ball Valve Insided bored body Socketed welded ends DN8-DN25: PN63 DN32-DN50: PN40	
DN	EUR/pc	DN	EUR/pc	DN	EUR/pc	DN	EUR/pc
10	14	10	50	10	25	10	25
15	17	15	52	15	27	15	27
20	24	20	54	20	30	20	30
25	35	25	73	25	55	25	55
32	50	32	99	32	79	32	79
40	74	40	129	40	111	40	111
50	101	50	202	50	169	50	169

ART.944 Insided bored body Female thread (BSPP/BSPT) PN63		ART.945 Insided bored body Butt welded PN63		ART.946 Insided bored body Flanged PN16-PN40 (acc. to EN1092) For DN65-DN100: PN16 only		ART.947 Insided bored body Flanged PN16-PN40 (acc. to EN1092) For DN65-DN100: PN16 only	
DN	EUR/pc	DN	EUR/pc	DN	EUR/pc	DN	EUR/pc
10	-	10	-	15	131	15	116
15	-	15	-	20	156	20	153
20	72	20	72	25	204	25	203
25	99	25	99	32	265	32	288
32	139	32	139	40	327	40	357
40	189	40	189	50	429	50	490
50	259	50	259	65	650	65	860
				80	790	80	1117
				100	1024	100	1591

**) other dimensions upon request*

BASIC INFORMATION

Body material	Ductile iron GGG40 epoxy coated
Screen material	Stainless steel 1.4301 (AISI 304)
Flange connection	PN10 / PN16 (max. working pressure 16 bar)
Working temperature	-10° C / +180° C



Y-STRAINERS - PN10/PN16

Valve type / DN	40	50	65	80	100	125	150	200	250	300
FRI-16	42	52	71	90	122	227	291	554	840	1079

**) other dimensions upon request*

PNEUMATIC ACTUATORS

SERIES 95-GT - QUARTER-TURN TYPES - DOUBLE ACTING
AIR OPEN/AIR CLOSE

Czech Industrial Valve Manufacturer

BASIC INFORMATION

Serie type	95-GT
Flange connection	ISO 5211, NAMUR VDI/VDE 3845
Material of the body	Anodized aluminium ASTM 6063, UNI 10681
Material of the end caps	Aluminium UNI EN1706, EN AC-46100 epoxy coated
Material of the pistons	Aluminium UNI EN1706
Material of the pinion	Nickel plated steel AISI SAE 11L37 - ASTM B 656 / Stainless steel
Stroke adjustment	0° position from -25° to +5° 90° position from -5° to +5°
Temperature rating *)	-50 °C / +70 °C (NBR seat - standard - see the prices below) -15 °C / +160 °C (Viton seat) **) -30 °C / +200 °C (Silicone seat) **)



*) temperature rating depends on pressure, medium and material

**) prices upon request

NBR SEAT

EUR/pc	Actuator type	Operating torque (Nm) at 5,5 bar	ISO Top flange	Square	Corresponding valve DN (type 924B)*
121,00	GTW 52x90	22	F03/F05	14	32-50
137,00	GTW 63x90	32,5	F05/F07	14	32-80
140,00	GTW 75x90	56	F05/F07	17	-
144,00	GTW 83x90	81,2	F05/F07	17	100
171,00	GTW 92x90	112	F05/F07	17	125-150
232,00	GTW 110x90	162	F07/F10	22	200
277,00	GTW 118x90	241	F07/F10	22	-
363,00	GTW 127x90	324	F07/F10	22	250
487,00	GTW 143x90	520	F10/F12	27	300
546,00	GTW 160x90	644	F10/F12	27	350
874,00	GTW 190x90	1120	F14	36	-
975,00	GTW 210x90	1344	F14	36	400
1888,00	GTW 254x90	2576	F16	46	450-500**
2077,00	GTW 255x90	3248	F16	46	600
3620,00	GTW 300x90	4480	F16 (F25 upon request)	46 (55)	-

*) valid for water 20 °C with maximum working pressure 10 bar and air pressure 5,5 bar

**) different ISO top flange drilling (butterfly valve/actuator)

Prices for Silicone and Viton design available upon request.

PNEUMATIC ACTUATORS - STANDARD ACCESSORIES

Solenoid valve 230 VAC or 24 VDC, 5/2 way, IP65	71 EUR/pc
Mechanical limit switchbox	71 EUR/pc
Air filter regulator incl. manometer	136 EUR/pc

PNEUMATIC ACTUATORS

SERIES 95 - TYPES GTW - SINGLE ACTING SPRING RETURN ACTUATORS



ABO valve

Actuator type	EUR/pc	ISO Top flange	Actuator type	EUR/pc	ISO Top flange	Actuator type	EUR/pc	ISO Top flange
GTW 63x90 K6 DLS	155,00	F05/F07	GTW 75x90 K6 DLS	160,00	F05/F07	GTW 83x90 K6 DLS	166,00	F05/F07
GTW 63x90 K8 DLS	160,00	F05/F07	GTW 75x90 K8 DLS	167,00	F05/F07	GTW 83x90 K8 DLS	173,00	F05/F07
GTW 63x90 K10 DLS	167,00	F05/F07	GTW 75x90 K10 DLS	174,00	F05/F07	GTW 83x90 K10 DLS	179,00	F05/F07
GTW 63x90 K12 DLS	173,00	F05/F07	GTW 75x90 K12 DLS	180,00	F05/F07	GTW 83x90 K12 DLS	187,00	F05/F07
GTW 92x90 K6 DLS	197,00	F05/F07	GTW 110x90 K6	266,00	F07/F10	GTW 118x90 K6	314,00	F07/F10
GTW 92x90 K8 DLS	206,00	F05/F07	GTW 110x90 K8	277,00	F07/F10	GTW 118x90 K8	326,00	F07/F10
GTW 92x90 K10 DLS	214,00	F05/F07	GTW 110x90 K10	289,00	F07/F10	GTW 118x90 K10	338,00	F07/F10
GTW 92x90 K12 DLS	223,00	F05/F07	GTW 110x90 K12	299,00	F07/F10	GTW 118x90 K12	350,00	F07/F10
GTW 127x90 K6	407,00	F07/F10	GTW 143x90 K6	550,00	F10/F12	GTW 160x90 K6	609,00	F10/F12
GTW 127x90 K8	422,00	F07/F10	GTW 143x90 K8	570,00	F10/F12	GTW 160x90 K8	629,00	F10/F12
GTW 127x90 K10	437,00	F07/F10	GTW 143x90 K10	591,00	F10/F12	GTW 160x90 K10	650,00	F10/F12
GTW 127x90 K12	452,00	F07/F10	GTW 143x90 K12	612,00	F10/F12	GTW 160x90 K12	672,00	F10/F12
GTW 190x90 K6	1022,00	F14	GTW 210x90 K6	1120,00	F14	GTW 254x90 K6	2108,00	F16
GTW 190x90 K8	1070,00	F14	GTW 210x90 K8	1169,00	F14	GTW 254x90 K8	2181,00	F16
GTW 190x90 K10	1119,00	F14	GTW 210x90 K10	1218,00	F14	GTW 254x90 K10	2254,00	F16
GTW 190x90 K12	1168,00	F14	GTW 210x90 K12	1203,00	F14	GTW 254x90 K12	2328,00	F16
GTW 255x90 K6	2296,00	F16	GTW 300x90 K10	3986,00	F16 or F25			
GTW 255x90 K8	2368,00	F16	GTW 300x90 K12	4059,00	F16 or F25			
GTW 255x90 K10	2441,00	F16	GTW 300x90 K14	4132,00	F16 or F25			
GTW 255x90 K12	2514,00	F16	GTW 300x90 K16	4205,00	F16 or F25			

Electroless nickel plated carbon steel shafts, with poligonal female key
Standard dimensions with upper protrusion Namur 20-30 mm, S.S. fasteners
UNI 4522 anodized aluminium bodies - Poliester powder coated and caps

Please contact us to select suitable actuation for your project.



Illustrative photo

ELECTRIC ACTUATORS

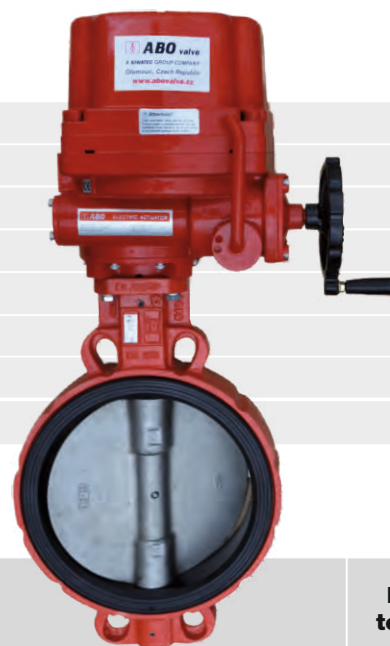
SERIES 97

Czech Industrial Valve Manufacturer

BASIC INFORMATION

Serie type	97AQ / Operating torque - up to 600Nm
Protection class	IP67 / Top flange - F03-F12
Power supply	110/220V AC 1PH (380/440V AC 3PH 50/60 Hz *)
Control power supply	230V AC, 50 Hz
Motor	Induction motor (Reversive motor)
Limit switches	Open / close, SPDT, 250V AC 16A rating
Travel angle	90° +/- 10° (0° - 110°)
Ambient temperature	-20°C / +70°C (except option electronic board)

*) upon request



POWER SUPPLY - 110/220V AC 1PH

Type	EUR/pc	Suitable for valve type	Connection	Description	Max. torque
S97-006	314,00	S900 DN32-80: 16bar DN100: 10 bar	F03/F05/F07, star 14 mm	2 limit switches, 2 positional switches, 2W resistant heater, visual position indicator, manual operating by key	60 Nm
S97-015	847,00	S900 DN100-150: 16bar DN200: 6 bar	F07/F10, star 17 mm	2 limit switches, 2 positional switches, 2 torque switches, 10W resistant heater, mechanical end stops, visual position indicator, handwheel for manual operation	150 Nm
S97-030	1060,00	S900 DN250: 16bar DN300: 6bar	F10/F12, star 22 mm	2 limit switches, 2 positional switches, 2 torque switches, 10W resistant heater, mechanical end stops, visual position indicator, handwheel for manual operation	300 Nm
S97-060	1354,00	S900 DN300: 16bar DN350: 10 bar	F10/F12, star 27 mm	2 limit switches, 2 positional switches, 2 torque switches, 10W resistant heater, mechanical end stops, visual position indicator, handwheel for manual operation	600 Nm

Detailed parameters will be defined during order/offer preparation.

Type	EUR/pc	Max. torque	Voltage	Connection according to ISO 5211		Description
				Flange	Shaft	
S98-331.1-0JFAJ/20	1117,00	50 Nm	230 V AC	F05	14x14	2 limit switches, 2 position switches, space heater on request, position indicator, mechanical stop ends, manual control
S98-281.1-01BAA/16	1374,00	90 Nm	230 V AC	F05/F07	14x14	2 torque switches, 2 limit switches, 2 position switches, thermal protection of electric motor, space heater, position indicator, mechanical stop ends, manual control
S98-281.1-91BAA/16	1429,00	90 Nm	3x400 V AC	F05/F07	14x14	2 torque switches, 2 limit switches, 2 position switches, thermal protection of electric motor, space heater, position indicator, mechanical stop ends, manual control
S98-282.1-02BAA/16	1717,00	145 Nm	230 V AC	F05/F07	17x17	2 torque switches, 2 limit switches, 2 position switches, thermal protection of electric motor, space heater, position indicator, mechanical stop ends, manual control
S98-282.1-02BAE/16	1717,00	145 Nm	230 V AC	F05/F07	14x14	2 torque switches, 2 limit switches, 2 position switches, thermal protection of electric motor, space heater, position indicator, mechanical stop ends, manual control
S98-282.1-92BAA/16	1774,00	145 Nm	3x400 V AC	F05/F07	17x17	2 torque switches, 2 limit switches, 2 position switches, thermal protection of electric motor, space heater, position indicator, mechanical stop ends, manual control
S98-283.1-00BAE/16	2443,00	290 Nm	230 V AC	F07/F10	17x17	2 torque switches, 2 limit switches, 2 position switches, thermal protection of electric motor, space heater, position indicator, mechanical stop ends, manual control
S98-283.1-90BAE/16	2508,00	290 Nm	3x400 V AC	F07/F10	17x17	2 torque switches, 2 limit switches, 2 position switches, thermal protection of electric motor, space heater, position indicator, mechanical stop ends, manual control
S98-284.1-00BAE/16	2657,00	575 Nm	230 V AC	F10/F12	22x22	2 torque switches, 2 limit switches, 2 position switches, thermal protection of electric motor, space heater, position indicator, mechanical stop ends, manual control
S98-284.1-90BAE/16	2904,00	575 Nm	3x400 V AC	F10/F12	22x22	2 torque switches, 2 limit switches, 2 position switches, thermal protection of electric motor, space heater, position indicator, mechanical stop ends, manual control

Detailed parameters will be defined during order/offer preparation.
Please contact us to select suitable actuation.



RESILIENT SEATED GATE VALVE

FLANGED TYPE - SERIE S421 - SERIE S420 - DN32-600

Czech Industrial Valve Manufacturer

BASIC INFORMATION

Serie type	S421 / S420
Body bonnet and wedge material	Ductile cast iron EN-GJS 400-15 Full bored gate valve
Seat - wedge	NBR/EPDM fully vulcanized wedge
Face to face dimensions	Valve type S420 / Series 15 According to EN 558-A1 F5 (DIN 3202) Valve type S421 / Series 14 According to EN 558-A1 F4 (DIN 3202)
Flange connection	According to EN 1092-2; (DIN 2501) pressure PN10; PN16
Coating	Epoxy one / minimum 250 microns according to EN 14091
Working temperature *)	-20 °C / +70 °C
Working pressure *)	up to 1,6 MPa



BARE SHAFT - PN10/PN16 - EPDM/NBR SEAT

DN	S421				S420			
	PN10		PN16		PN10		PN16	
	EPDM	NBR	EPDM	NBR	EPDM	NBR	EPDM	NBR
32			129				193	
40			152	152			198	198
50			164	164			206	206
65			205	205			250	250
80			230	230			255	255
100			271	271			291	291
125			387	387			434	434
150			482	482			506	506
200	708	708	708	708	878	878	878	878
250	1260	1260	1260	1260	1536	1536	1536	1536
300	1612	1612	1612	1612	2098	2098	2098	2098
350	3712	3712	3712	3712	4216	4175	4175	4175
400	4875	4875	4875	4875	6028	6087	6028	6087
450	6084	6084	6084					
500	8175	8175	8175	8175	9032	9032	9032	9032
600	10101	10101	10101	10101	11831	11831	11831	11831

METAL SEATED GATE VALVE

FLANGED TYPE - SERIE S419 - DN40-600



ABO valve

BASIC INFORMATION

Serie type	S419 - DN40-DN600
Body and wedge face seal rings material	Bronze or stainless steel
Packing gland of spindle	Graphite or PTFE + graphite
Face to face dimensions	According to EN 558-A1 row 14 F4 (DIN3202)
Flange connection	According to EN 1092-2; (DIN 2501) pressure PN10; PN16
Coating	Polyvinyl / minimum 100 microns according to EN 14091
Working temperature *)	up +120 °C (bronze rings) up +150 °C (stainless steel rings)
Working pressure *)	up to 1,6 MPa



S419 DN200

WITH HANDWHEEL STAINLESS STEEL - PN10/PN16

DN	S419	
	PN10	PN16
40		228
50		257
65		286
80		340
100		446
125		601
150		772
200	1221	1221
250	1720	1720
300	2520	
350	5121	
400	6916	6916
500	9872	9872
600	11716	11716

DOUBLE OFFSET BUTTERFLY VALVES

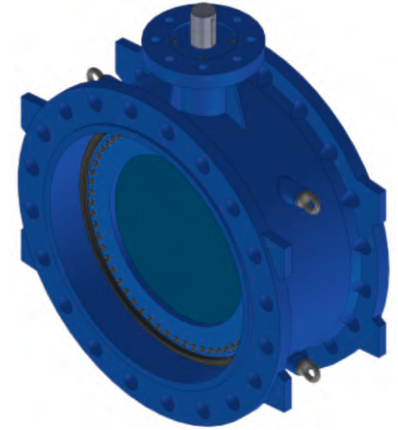
SERIES 2E3 - DOUBLE FLANGED - DN100 - DN2000

Czech Industrial Valve Manufacturer



BASIC INFORMATION

Body type	DOUBLE FLANGED
Seal ring on the disc	EPDM
Flange connection	PN 10 / PN 16 / PN 25 / PN 40 / EN1092-2 / DIN 2501
Face to face dimensions	ISO 5752-14
Body/disc material	Ductile iron GGG40 or GGG50
Shaft material	Stainless steel 1.4021 (AISI 420)
Pressure rating *)	6 bar / 10 bar / 16 bar / 25 bar / 40 bar
Temperature rating **)	0 °C / +70 °C
Tightness for both sides	Class A - according to EN 12266-1



*) pressure rating depends on temperature, medium and material

***) temperature rating depends on pressure, medium and material

DOUBLE FLANGED TYPE - BARE SHAFT - MANUAL CONTROL TYPES

DN	PN10		PN16		PN25		PN40	
	Bare shaft	Gearbox and handwheel	Bare shaft	Gearbox and handwheel	Bare shaft	Gearbox and handwheel	Bare shaft	Gearbox and handwheel
100	609	668	609	688	865	1209		
125	667	746	667	746	944	1462	1426	1733
150	698	792	698	792	1422	1995	1937	2449
200	956	981	956	981	1919	2315	2385	3058
250	1218	1359	1218	1359	1980	2409	3241	3914
300	1246	1392	1322	1468	2949	3865	3948	4621
350	1450	1660	1535	1742	3783	4688	5117	5998
400	2035	2233	2147	2345	4526	6028	6942	8401
450	2318	2620	2501	2799	6189	6981	9303	10762
500	3037	3396	3232	3594	8757	10387	13345	16263
600	4140	4715	4852	5465	12087	13631	17770	20688
700	6162	6933	6561	7329	17155	19930	23798	29738
800	7789	8824	8175	9211	22522	24962	31435	37375
900	9391	10618	10165	11392	33275	38669	47189	57895
1000	12912	13427	13573	15672	51155	54703		
1200	19022	21133	20433	22531	72221	80655		
1400	28072	30548	30110	32583				
1600	43610	46851	46065	49924				
1800	54731	60670	59991	69129				
2000	75983	81922	84405	93515				

CODING PRINCIPLES

2E3 343F 2E3 = Serie 2E3

- Body material: **3** = Ductile iron 0.7040 (GGG40) or 0.7050 (GGG50)
- Body seat material: **4** = Stainless steel 1.4301 with welding
- Disc material: **3** = Ductile iron 0.7040 (GGG40) or 0.7050 (GGG50)
- Body design: **F** = Double flanged

SERVICES

TECHNOLOGICAL SUPPORT - ASSEMBLY - ENGINEERING



EXTERNAL TECHNICAL SERVICES - AUDITS - TECHNOLOGICAL SUPPORT - INSPECTIONS ON SITE - REPAIRS - MEASUREMENTS - etc.

Profession	EUR /hour	EUR /day
Assembler (mechanical / electro)	40,00	320,00
Designer / Technologist	60,00	480,00
Project manager	70,00	560,00

1 day is calculated as a 8 hours workshift

*) prices are calculated as a net prices in EUR / unit

) the mentioned rates include per diems and **do not include travel costs (fares) and accommodation costs

***) **rate for time spent on travel = 10 EUR/hour**

****) in agreement with the customer, costs of buying air tickets / another traveling costs will be paid by the customer

The mentioned rates are basic, valid for a workday and a work shift length up to 8 hours/day.

Supplements

Overtime (above 8 hours/day)	+ 20 %
Night work (22.00 p.m - 6.00 a.m)	+ 20 %
Working on Saturdays, Sundays and Public Holidays	+ 50 %

FIXED LUMP-SUM RATES FOR INTERNAL ELECTRICAL ASSEMBLY (VALID FOR 1 ITEM)

Type of work	EUR /1pc
Electric/Pneumatic actuator assembly or adjustment	40,00 - 90,00
Special actuators assembly or adjustment	85,00 - 150,00

ENGINEERING - DRAWINGS PROCESSING / PROJECT DOCUMENTATION PROCESSING

Type of work	EUR /hour
Drawing documentation processing	60,00
Detailed project documentation processing	68,00
Inspection on site	60,00

or **100 EUR / drawing** for 1 ordered serie according to confirmed customer's order

CUSTOMIZED PRODUCTS LABELING / KKS CODING

Valve	EUR /pc
Serie 600, 900, 500	5,00
Serie 2E, 3E, 2E3	6,00
Knife gate valves, check valves, ball valves, others	7,00

PACKAGING

Destination	EUR /pc
Standard wooden EUR pallet (1200 x 800 x 144 mm)	55,00
Standard chip box (1116 x 960 x 1000 mm)	130,00



CONTACT US

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