



AURUM PUMPEN GMBH



VALVES

Made in Germany

since 1927





Dear Ladies and Gentlemen!

We would like to bring to your attention the Valves Catalogue designed by **Aurum Pumpen GmbH** for various branches of industry. In our catalog you can find the control valve, shut-off valve, shut-off and control valves review as well as specified main characteristics, overall dimensions and materials.

Valves manufactured by **Aurum Pumpen GmbH** made a good showing around the world and are successfully used in such branches as:

- Metallurgy
- Energetics
- Shipbuilding
- Machine industry
- chemical and petrochemical industry
- Food industry
- Pharmaceutical industry.

Complete with valves we deliver actuators – manual, pneumatic, electric and hydraulic as well as additional accessories – solenoid valves, limit switches, positioners, etc. that allows to solve a number of various problems by equipment selection and supply of **Aurum Pumpen GmbH** production.

Aurum Pumpen GmbH is a leading German manufacturer of the pump equipment and industrial valves. We professionally render engineering services and provide service support of each project. Company specialists solve difficult production and technical tasks, and the accumulated experience allows us to provide the highest production quality and to completely comply with customer needs.

Experts of **Aurum Pumpen GmbH** continuously work on creating new shutoff valve lines and modernize the existing valves types. **Aurum Pumpen GmbH** retains the right to make changes or design improvement and production technical characteristics without prior notice at any time.

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Butterfly valves

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Centric butterfly valve C series, type AV01-001

application:

Shut-off, control valve

nominal diameter	DN 50 – 1400
nominal pressure	PN 6/10/16
operating temperature	-20 °C up to +200 °C

mounting length: EN 558-1/2 series 20 API 609 Cat. A

corrosion coating: 100 mic, RAL 7037, other coating on request

connection: wafer EN 1092 PN 6, 10 and 16

seal: non replaceable lining bonded to the body

leakage class:

bi-directional – according to EN 12266 rate A

shaft seal design: O-ring bush

stem: with indication for position of the disc

special design:

- antistatic design: according to EN 736/3 and API 609

design pressure PS: Maximum 16 bar

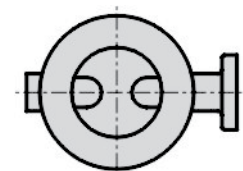
design temperature TS: -20 °C up to +200 °C

flow velocity: max. 5 m/s for liquids, max. 50 m/s for gases



nominal diameter DN	operating pressure EN 12266 PN bar	flanges PN bar
50 – 1400	16	6
50 – 1400	16	10
50 – 1400	16	16

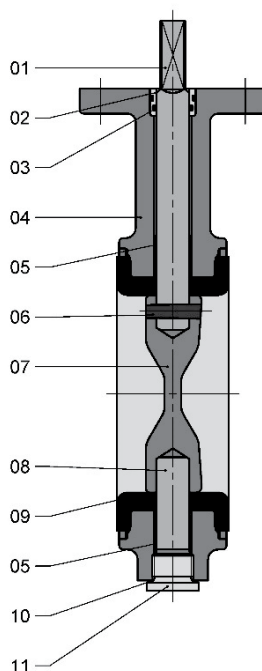
**Preferred position when installed:
in horizontal pipeline**



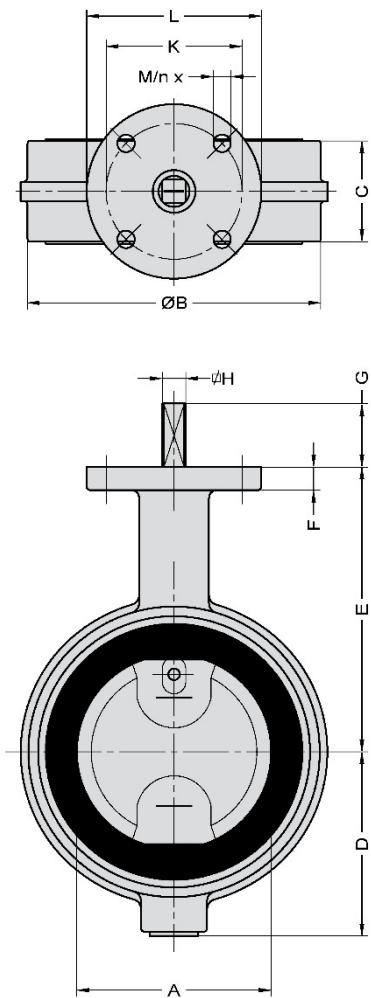
Parts list – DN 50 – 350

Item	part	material ⁽¹⁾	EN/DIN
01	Shaft	Duplex stainless steel Martensitic stainless steel Aluminum bronze Monel K500® Hastelloy-C®	1.4462, EN 10088 1.4057, EN 10088 CuAl10Ni5Fe4, EN/DIN 17665 NA 18, BS 3076
02	Bush	Bronze	
03	O-ring	EPDM NBR FPM	
04	Body	Cast iron Ductile iron Ductile iron (low temp.) Carbon steel Bronze Silumin	JL 1040, EN 1561 JS 1030, EN 1563 JS 1049, EN 1563 1.0619, EN 10213 2.1096.01, DIN 1705 3.2381.01, DIN 1725
05	Bearing	Steel / PTFE Bronze / PTFE	
06	Conical pin	See item 01	See item 01
07	Disc	Duplex stainless steel Martensitic stainless steel Ductile iron / rilsan coated ⁽²⁾ Aluminum bronze Hastelloy-C® CuNi	1.4462, EN 10088 1.4057, EN 10088 JS 1030, EN 1563 G-CuAl10Ni, DIN 1714 - 2.0835, DIN 17658
08	Shaft	See item 01	See item 01
09	Seal	EPDM NBR FPM	
10	Sealing ring	Cu	
11	Plug	Steel / Zn5C	

⁽¹⁾ Other materials on request

⁽²⁾ For DN 250 and DN 300


dimensions – DN 50 – 350



DN	A	B	C	D	E	F	G	H	ISO 5211	K	L	M	n	maas, kg
50	50	100	43	63	118	12	34	10	F07	70	90	9	4	2.6
65	65	115	46	71	126	12	34	10	F07	70	90	9	4	3.2
80	80	130	46	78	133	12	34	10	F07	70	90	9	4	3.5
100	100	150	52	98	147	12	34	12	F07	70	90	9	4	4.5
125	125	182	56	109	160	12	34	12	F07	70	90	9	4	6.3
150	150	210	56	133	180	14	34	16	F07	70	90	9	4	8.8
200	200	262	60	158	204	14	34	16	F07	70	90	9	4	13.2
250	250	315	68	194	245	15	45	24	F10	102	125	11	4	22
300	300	371	78	219	270	15	45	24	F10	102	125	11	4	32
350	336	405	78	256	315	15	45	24	F10	102	125	11	4	40

Parts list – DN 400 – 1000

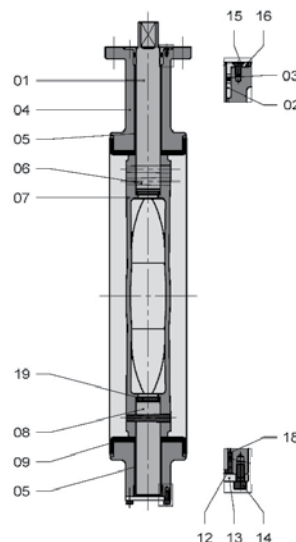
Item	part	material ⁽¹⁾	EN/DIN
01	Shaft	Duplex stainless steel Martensitic stainless steel Aluminum bronze Monel K500® Hastelloy-C®	1.4462, EN 10088 1.4057, EN 10088 CuAl10Ni5Fe4, EN/DIN 17665 NA 18, BS 3076
02	Bush	Bronze	
03	O-ring	EPDM NBR FPM	
04	Body	Cast iron Ductile iron Ductile iron (low temp.) Carbon steel	JL 1040, EN 1561 JS 1030, EN 1563 JS 1049, EN 1563 1.0619, EN 10213
05	Bearing	Steel / PTFE Bronze / PTFE	
06	Conical pin	See item 01	See item 01
07	Disc	Austenitic stainless steel ⁽²⁾ Duplex stainless steel ⁽³⁾ Martensitic stainless steel ⁽⁴⁾ Ductile iron / rilsan coated Aluminum bronze Hastelloy-C® ⁽⁵⁾ Cu ⁽⁵⁾	1.4408, EN 10213 1.4462, EN 10088 1.4057, EN 10088 JS 1030, EN 1563 G-CuAl10Ni, DIN 1714 - 2.0835, DIN 17658
08	Shaft	See item 01	See item 01
09	Seal	EPDM NBR FPM	
12	Axial bearing	Bronze	
13	Cover plate	Steel / Zn5C	
14	Cylinder head screw	Steel / Zn5C	
15	Counter sunk screw	Steel / Zn5C	
16	Collar bearing	Bronze	
18	Ring	Bronze	
19	Sealing plate	Steel / NBR Steel / FPM	

⁽¹⁾ Other materials on request

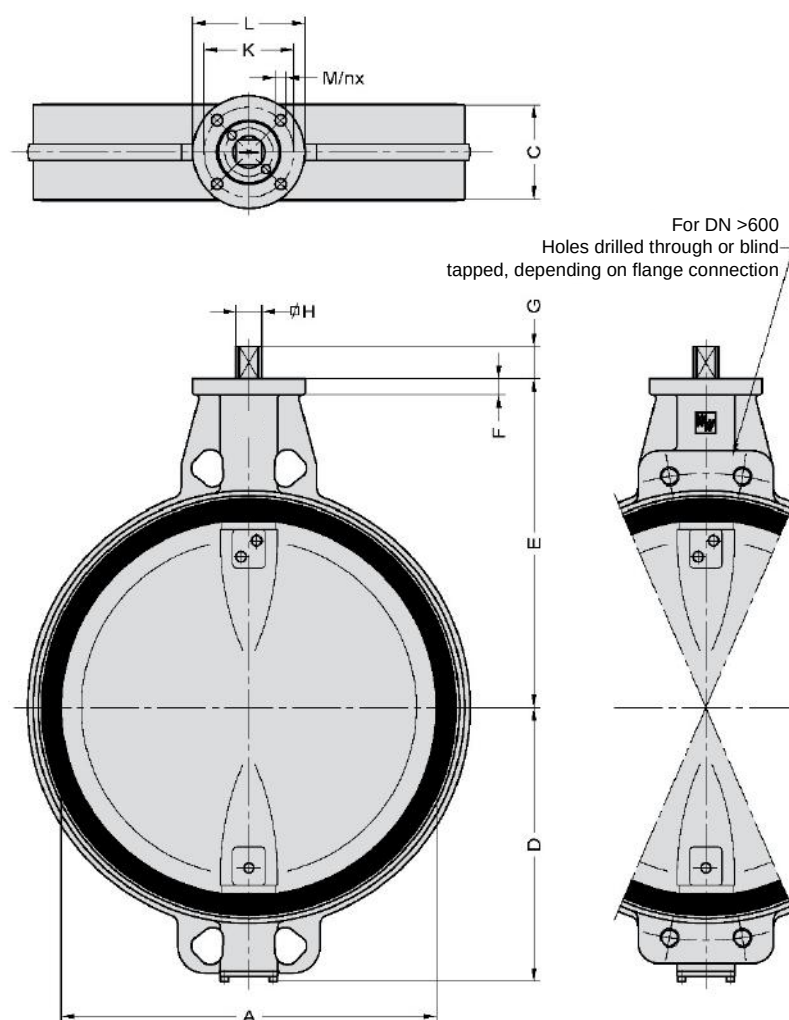
⁽²⁾ for ≥ DN 700

⁽³⁾ forged ≤ DN 600, casted ≤ DN 700, material 1.4517, EN 10213 (ASTM A 351, CD-4MCu)

⁽⁴⁾ forged ≤ DN 600

⁽⁵⁾ ≤ DN 500


dimensions – DN 400 – 1000



DN	A	B	C	D	E	F	G	H	ISO 5211	K	L	M	n	maas, kg
400	386	470	102	308	363	25	50	30	F14	140	175	17	4	75
450	436	522	114	334	388	25	50	30	F14	140	175	17	4	90
500	486	576	127	360	413	25	50	30	F14	140	175	17	4	120
550	536	630	154	395	485	25	50	40	F14	140	175	17	4	165
600	586	672	154	426	510	25	50	40	F14	140	175	17	4	180
650	636	726	165	456	535	25	60	46	F16	165	210	21	4	245
700	686	776	165	480	560	25	60	46	F16	165	210	21	4	295
750	736	826	190	520	585	25	60	46	F16	165	210	21	4	295
800	786	880	190	525	610	25	60	46	F16	165	210	21	4	345
900	886	980	203	635	690	30	90	60	F25	254	300	17	8	475
1000	986	1085	216	685	740	30	90	60	F25	254	350	17	8	635
1000	986	1085	216	685	740	30	90	60	F30	298	350	21	8	635

Parts list – DN 1200 – 1400

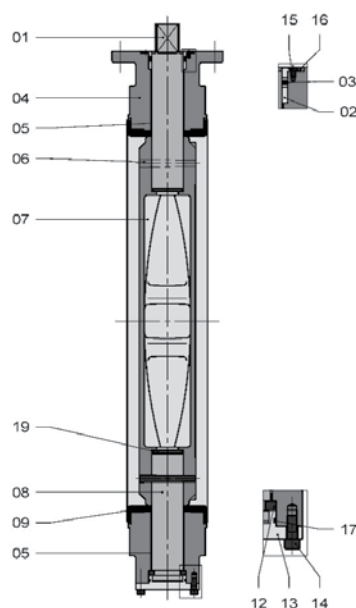
Item	part	material ⁽¹⁾	EN/DIN
01	Shaft	Duplex stainless steel Martensitic stainless steel Aluminum bronze Monel K500® Hastelloy-C®	1.4462, EN 10088 1.4057, EN 10088 CuAl10Ni5Fe4, EN/DIN 17665 NA 18, BS 3076
02	Bush	Bronze	
03	O-ring	EPDM NBR FPM	
04	Body	Cast iron Ductile iron Ductile iron (low temp.)	JL 1040, EN 1561 JS 1030, EN 1563 JS 1049, EN 1563
05	Bearing	Steel / PTFE	
06	Conical pin	See item 01	See item 01
07	Disc	Austenitic stainless steel ⁽²⁾ Duplex stainless steel ⁽³⁾ Martensitic stainless steel ⁽⁴⁾ Ductile iron / rilsan coated Aluminum bronze	1.4408, EN 10213 1.4517, EN 10213 JS 1030, EN 1563 G-CuAl10Ni, DIN 1714
08	Shaft	See item 01	See item 01
09	Seal	EPDM NBR FPM	
12	Axial bearing	Bronze	
13	Cover plate	Steel / Zn5C	
14	Cylinder head screw	Steel / Zn5C	
15	Counter sunk screw	Steel / Zn5C	
16	Flanged bush	Bronze	
18	O-ring	EPDM NBR FPM	
19	Sealing plate	Steel / NBR Steel / FPM	

⁽¹⁾ Other materials on request

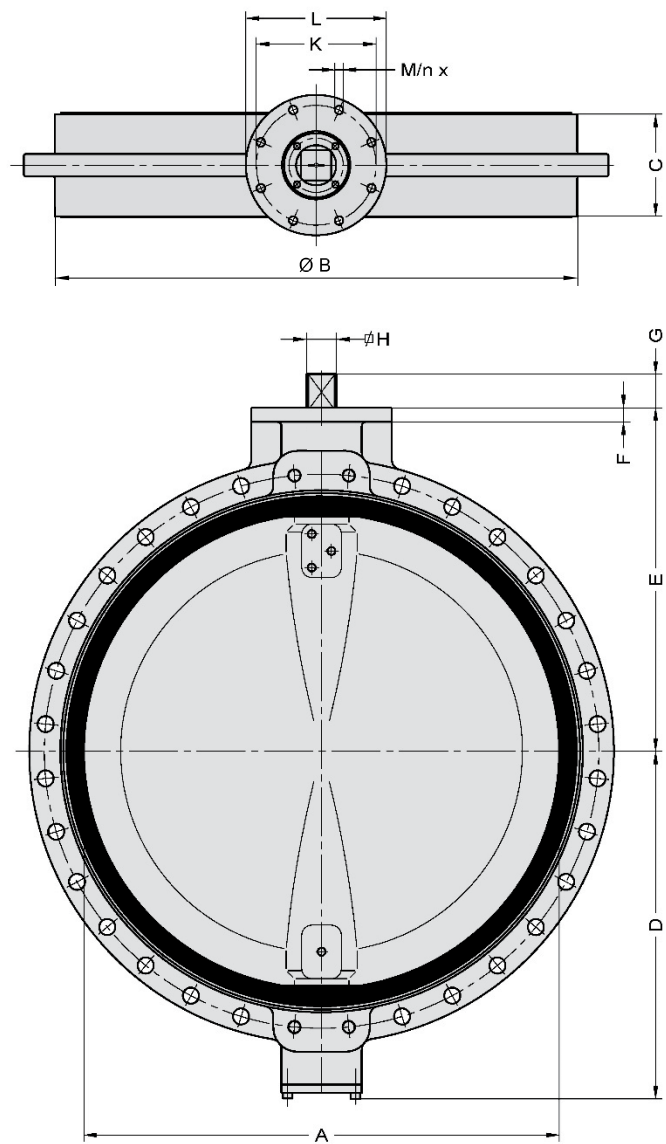
⁽²⁾ for ≥ DN 500

⁽³⁾ forged ≤ DN 450, casted ≤ DN 500, material
1.4517, EN 10213 (ASTM A 351, CD-4MCu)

⁽⁴⁾ forged ≤ DN 450

⁽⁵⁾ ≤ DN 500


dimensions – DN 1200 – 1400



DN	A	B	C	D	E	F	G	H	ISO 5211	K	L	M	n	maas, kg
1200	1186	1300	254	870	855	35	85	75	F30	298	415	21	8	1500
1200	1186	1300	254	870	855	35	85	75	F35	356	415	31	8	1500
1400	1386	1500	250	980	955	35	85	75	F35	356	415	31	8	1900
1400	1386	1500	250	980	955	35	100	90	F35	356	415	31	8	1900

* Other nominal diameters on request.

centric butterfly valve C series, type AV01-002

application:
Shut-off, control valve

nominal diameter	DN 50 – 300
nominal pressure	PN 6
operating temperature	-20 °C up to +200 °C

mounting length: EN 558-1/2 series 20

corrosion coating: 100 mic, RAL 7037, other coating on request

connection: wafer EN 1092 PN 6/10/16

seal: non replaceable lining bonded to the body

leakage class: bi-directional – ISO 5208 rate A

shaft seal design: O-ring bush

stem: with indication for position of the disc

special design:
• antistatic design: according to EN 736/3 and API 609

design pressure PS: maximum 16 bar

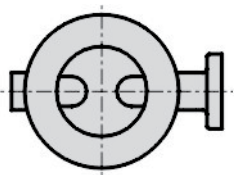
design temperature TS: -20 °C up to +200 °C

flow velocity: max. 5 m/s for liquids, max. 50 m/s for gases



nominal diameter DN	operating pressure PN bar	flanges EN 12266 bar
50 – 300	16	6

Preferred position when installed:
in horizontal pipeline

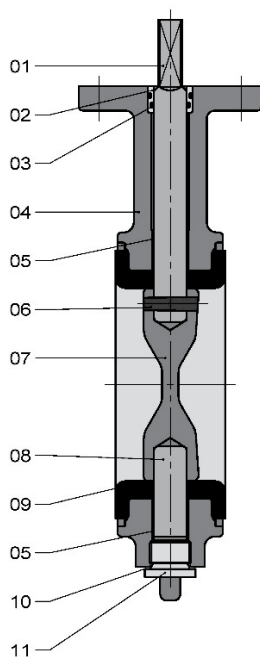


Parts list – DN 50 – 300

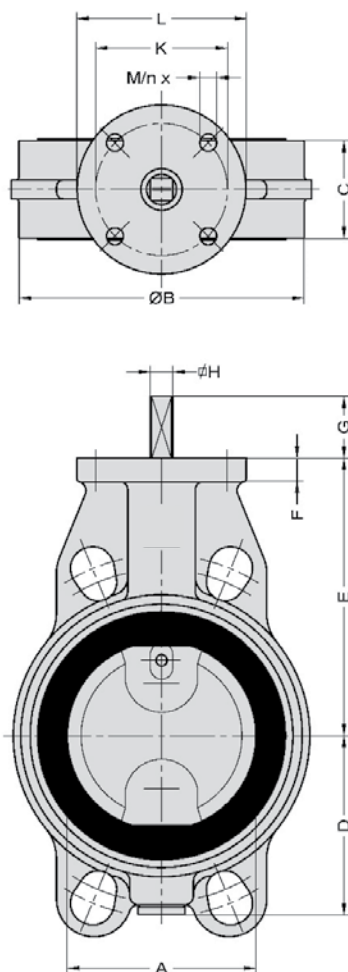
Item	part	material ⁽¹⁾	EN/DIN
01	Shaft	Duplex stainless steel Martensitic stainless steel Aluminum bronze Monel K500® Hastelloy-C®	1.4462, EN 10088 1.4057, EN 10088 CuAl10Ni5Fe4, EN/DIN 17665 NA 18, BS 3076 -
02	Bush	Bronze	
03	O-ring	EPDM NBR FPM	
04	Body	Cast iron Ductile iron Ductile iron (low temp.)	JS 1030, EN 1563 JS 1049, EN 1563
05	Bearing	Steel / PTFE Bronze / PTFE	
06	Conical pin	See item 01	See item 01
07	Disc	Duplex stainless steel Martensitic stainless steel Ductile iron / rilsan coated ⁽²⁾ Aluminum bronze Hastelloy-C® CuNi	1.4462, EN 10088 1.4057, EN 10088 JS 1030, EN 1563 G-CuAl10Ni, DIN 1714 - 2.0835, DIN 17658
08	Shaft	See item 01	See item 01
09	Seal	EPDM NBR FPM	
10	Sealing ring	Cu	
11	Plug	Steel / Zn5C	

⁽¹⁾ Other materials on request

⁽²⁾ For DN 250 and DN 300



dimensions – DN 50 – 300



DN	A	B	C	D	E	F	G	H	ISO 5211	K	L	M	n	maas, kg
50	50	100	43	63	118	12	34	10	F07	70	90	9	4	2.8
65	65	115	46	71	126	12	34	10	F07	70	90	9	4	3.6
80	80	130	46	78	133	12	34	10	F07	70	90	9	4	3.9
100	100	150	52	98	147	12	34	12	F07	70	90	9	4	5.1
125	125	182	56	109	160	12	34	12	F07	70	90	9	4	7
150	150	210	56	133	180	14	34	16	F07	70	90	9	4	9.5
200	200	262	60	158	204	14	34	16	F07	70	90	9	4	14
250	250	315	68	194	245	15	45	24	F10	102	125	11	4	24
300	300	371	78	219	270	15	45	24	F10	102	125	11	4	36

* Other nominal diameters on request.

centric butterfly valve C series, type AV01-003

application:

Shut-off, control valve

nominal diameter	DN 50 – 300
nominal pressure	PN 10/16
operating temperature	-20 °C up to +200 °C

mounting length: EN 558-1/2 series 20

corrosion coating: 100 mic, RAL 7037, other coating on request

connection: wafer EN 1092 PN 10/16

seal: non replaceable lining bonded to the body

leakage class:

bi-directional – according to EN 12266 rate A

shaft seal design: O-ring bush

stem: with indication for position of the disc

special design:

- antistatic design: according to EN 736/3 and API 609

design pressure PS: maximum 16 bar

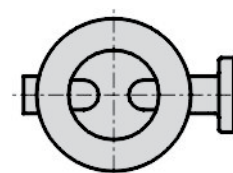
design temperature TS: -20 °C up to +200 °C

flow velocity: max. 5 m/s for liquids, max. 50 m/s for gases



nominal diameter DN	operating pressure EN 12266 PN bar	flanges PN bar
50 – 300	16	10
50 – 300	16	16

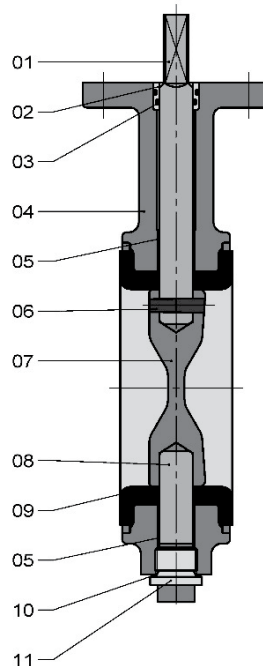
**Preferred position when installed:
in horizontal pipeline**



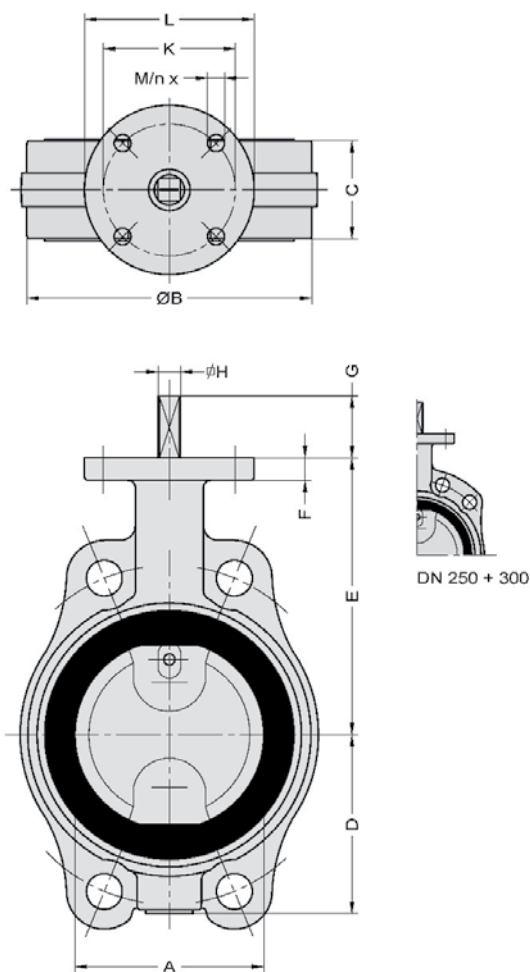
Parts list – DN 50 – 300

Item	part	material ⁽¹⁾	EN/DIN
01	Shaft	Duplex stainless steel Martensitic stainless steel Aluminum bronze Monel K500® Hastelloy-C®	1.4462, EN 10088 1.4057, EN 10088 CuAl10Ni5Fe4, EN/DIN 17665 NA 18, BS 3076 -
02	Bush	Bronze	Washer
03	O-ring	EPDM NBR FPM	
04	Body	Cast iron Ductile iron Ductile iron (low temp.)	JL 1040, EN 1561 JS 1030, EN 1563 JS 1049, EN 1563
05	Bearing	Steel / PTFE Bronze / PTFE	
06	Conical pin	See item 01	See item 01
07	Disc	Duplex stainless steel Martensitic stainless steel Ductile iron / rilsan coated ⁽²⁾ Aluminum bronze Hastelloy-C® CuNi	1.4462, EN 10088 1.4057, EN 10088 G-CuAl10Ni, EN 1982 JS 1030, EN 1563 / coated - 2.0835, DIN 17658
08	Shaft	See item 01	See item 01
09	Seal	EPDM NBR FPM	
10	Sealing ring	Cu	
11	Plug	Steel / Zn5C	

⁽¹⁾ Other materials on request.

⁽²⁾ For DN 250 and DN 300.


dimensions – DN 50 – 300



DN	A	B	C	D	E	F	G	H	ISO 5211	K	L	M	n	maas, kg
50	50	100	43	63	118	12	34	10	F07	70	90	9	4	2.8
65	65	115	46	71	126	12	34	10	F07	70	90	9	4	3.6
80	80	130	46	78	133	12	34	10	F07	70	90	9	4	3.9
100	100	150	52	98	147	12	34	12	F07	70	90	9	4	5.1
125	125	182	56	109	160	12	34	12	F07	70	90	9	4	7
150	150	210	56	133	180	14	34	16	F07	70	90	9	4	9.5
200	200	262	60	158	204	14	34	16	F07	70	90	9	4	14
250	250	315	68	194	245	15	45	24	F10	102	125	11	4	24
300	300	371	78	219	270	15	45	24	F10	102	125	11	4	36

⁽¹⁾ Other materials on request.

Centric butterfly valve C series, type AV01-004

application:
Shut-off, control valve

nominal diameter	DN 50 – 1200
nominal pressure	PN 6/10/16
operating temperature	-20 °C up to +200 °C

mounting length: EN 558-1/2 series 20

corrosion coating: 100 mic, RAL 7037, other coating on request

connection: lugged wafer type EN 1092 PN 6, 10 and 16

seal: non replaceable lining bonded to the body

leakage class:
bi-directional – according to EN 12266 rate A

shaft seal design: O-ring bush

stem:with indication for position of the disc

special design:
• antistatic design: according to EN 736/3 and API 609

design pressure PS: maximum 16 bar (on request 20/25 bar)

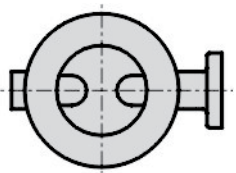
design temperature TS: -20 °C up to +200 °C

flow velocity: max. 5 m/s for liquids, max. 50 m/s for gases



nominal diameter DN	operating pressure EN 12266 PN bar	flanges PN bar
50 – 1200	16	6
50 – 1200	16	10
50 – 1200	16	16

Preferred position when installed:
in horizontal pipeline

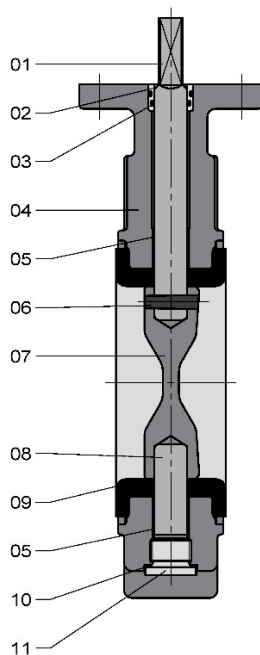


Parts list – DN 50 – 350

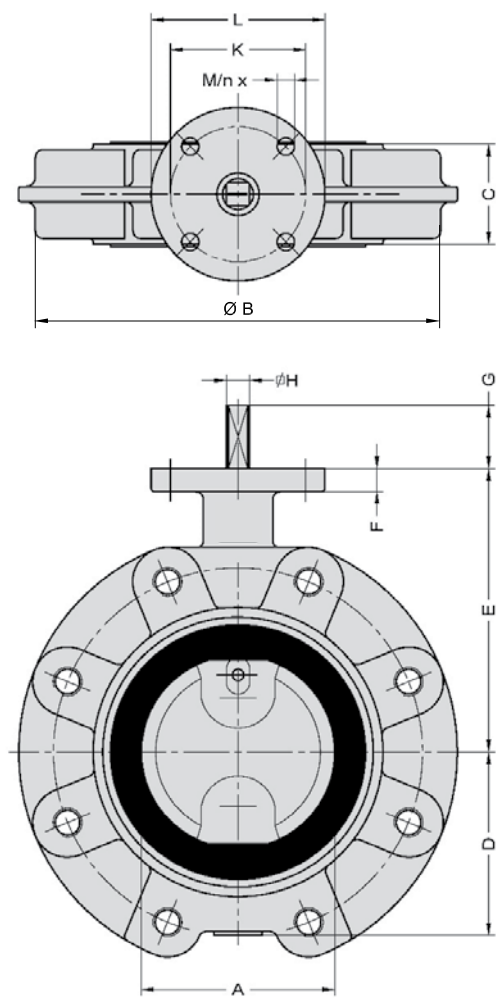
Item	part	material ⁽¹⁾	EN/DIN
01	Shaft	Duplex stainless steel Martensitic stainless steel Aluminum bronze Monel K500® Hastelloy-C®	1.4462, EN 10088 1.4057, EN 10088 CuAl10Ni5Fe4, EN/DIN 17665 NA 18, BS 3076 -
02	Bush	Bronze	
03	O-ring	EPDM NBR FPM	
04	Body	Ductile iron Ductile iron (low temp.) Carbon steel	JS 1030, EN 1563 JS 1049, EN 1563 1.0619, EN 10213
05	Bearing	Steel / PTFE Bronze / PTFE	
06	Conical pin	See item 01	See item 01
07	Disc	Duplex stainless steel Martensitic stainless steel Ductile iron / rilsan coated ⁽²⁾ Aluminum bronze Hastelloy-C® CuNi	1.4462, EN 10088 1.4057, EN 10088 JS 1030, EN 1563 G-CuAl10Ni, DIN 1714 - 2.0835, DIN 17658
08	Shaft	See item 01	See item 01
09	Seal	EPDM NBR FPM	
10	Sealing ring	Cu	
11	Plug	Steel / Zn5C	

⁽¹⁾ Other materials on request

⁽²⁾ For DN 250 and DN 300



dimensions – DN 50 – 350



DN	A	B	C	D	E	F	G	H	ISO 5211	K	L	M	n	maas, kg
50	50	100	43	63	118	12	34	10	F07	70	90	9	4	8
65	65	115	46	71	126	12	34	10	F07	70	90	9	4	9
80	80	130	46	78	133	12	34	10	F07	70	90	9	4	10
100	100	150	52	98	147	12	34	12	F07	70	90	9	4	12
125	125	182	56	109	160	12	34	12	F07	70	90	9	4	16
150	150	210	56	133	180	14	34	16	F07	70	90	9	4	20
200	200	262	60	158	204	14	34	16	F07	70	90	9	4	25
250	250	315	68	194	245	15	45	24	F10	102	125	11	4	28
300	300	371	78	219	270	15	45	24	F10	102	125	11	4	36
350	336	405	78	256	315	15	45	24	F10	102	125	11	4	50

Parts list – DN 400 – 1000

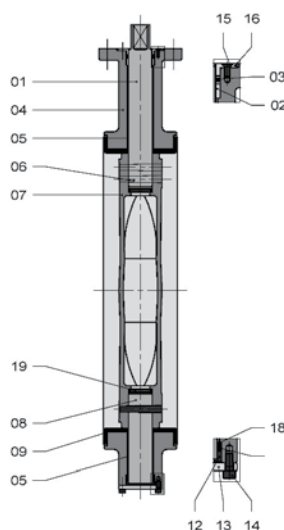
Item	part	material ⁽¹⁾	EN/DIN
01	Shaft	Duplex stainless steel Martensitic stainless steel Aluminum bronze Monel K500® Hastelloy-C®	1.4462, EN 10088 1.4057, EN 10088 CuAl10Ni5Fe4, EN/DIN 17665 NA 18, BS 3076 -
02	Bush	Bronze	
03	O-ring	EPDM NBR FPM	
04	Body	Ductile iron Ductile iron (low temp.) Carbon steel	JS 1030, EN 1563 JS 1049, EN 1563 1.0619, EN 10213
05	Bearing	Steel / PTFE Bronze / PTFE	
06	Conical pin	See item 01	See item 01
07	Disc	Austenitic stainless steel ⁽²⁾ Duplex stainless steel ⁽³⁾ Martensitic stainless steel ⁽⁴⁾ Ductile iron / rilsan coated Aluminum bronze Hastelloy-C® ⁽⁵⁾ Cu ⁽⁵⁾	1.4408, EN 10213 1.4462, EN 10088 1.4057, EN 10088 JS 1030, EN 1563 G-CuAl10Ni, DIN 1714 - 2.0835, DIN 17658
08	Shaft	See item 01	See item 01
09	Seal	EPDM NBR FPM	
12	Axial bearing	Bronze	
13	Cover plate	Steel / Zn5C	
14	Cylinder head screw	Steel / Zn5C	
15	Counter sunk screw	Steel / Zn5C	
16	Collar bearing	Bronze	
18	Ring	Bronze	
19	Sealing plate	Steel / NBR Steel FPM	

⁽¹⁾ Other materials on request

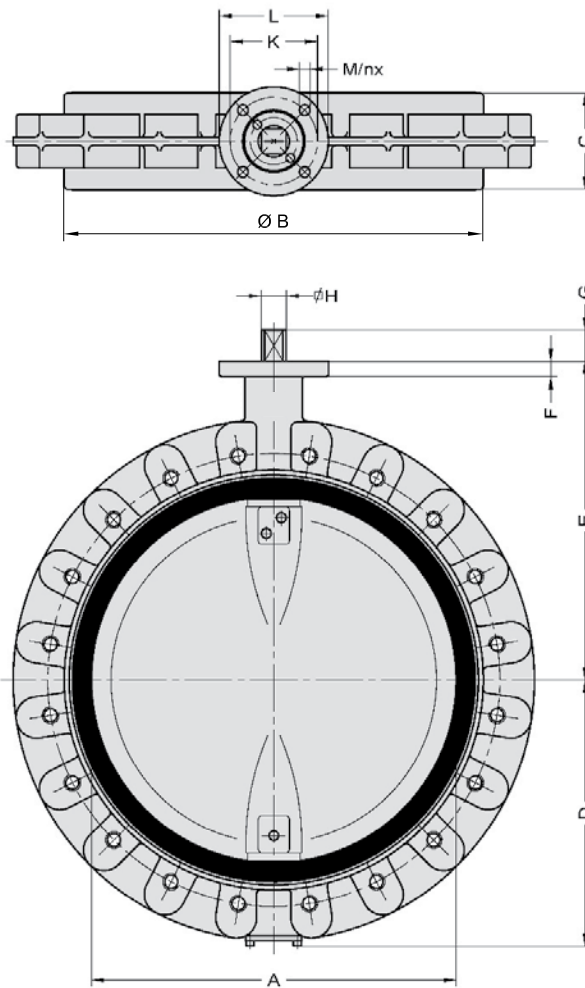
⁽²⁾ for ≥ DN 700

⁽³⁾ forged ≤ DN 600, casted ≥ DN 700, material 1.4517, EN 10213 (ASTM A 351, CD- 4MCu)

⁽⁴⁾ forged ≤ DN 600

⁽⁵⁾ ≤ DN 500


dimensions – DN 400 – 1000



DN	A	B	C	D	E	F	G	H	ISO 5211	K	L	M	n	maas, kg
400	386	470	102	308	363	25	50	30	F14	140	175	17	4	85
450	436	522	114	334	388	25	50	30	F14	140	175	17	4	105
500	486	576	127	360	413	25	50	30	F14	140	175	17	4	130
600	586	672	154	426	510	25	50	40	F14	140	175	17	4	205
700	686	776	165	480	560	25	60	46	F16	165	210	21	4	325
750	736	826	190	520	585	25	60	46	F16	165	210	21	4	385
800	786	880	190	525	610	25	60	46	F16	165	210	21	4	625
900	886	980	203	635	690	30	90	60	F25	254	300	17	8	725
1000	986	1085	216	685	740	30	90	60	F25	254	350	17	8	950
1000	986	1085	216	685	740	30	90	60	F30	298	350	21	8	950

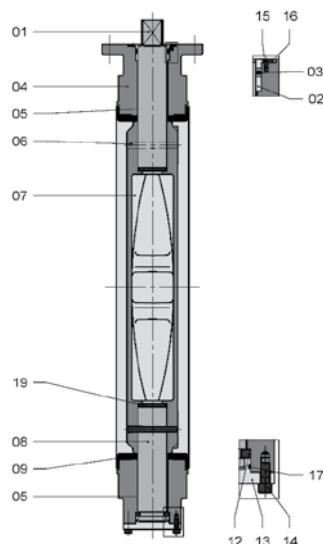
Parts list – DN 1200

Item	part	material ⁽¹⁾	EN/DIN
01	Shaft	Duplex stainless steel Martensitic stainless steel Aluminum bronze Hastelloy-C®	1.4462, EN 10088 1.4057, EN 10088 CuAl10Ni5Fe4, EN/DIN 17665 NA 18, BS 3076
02	Bush	Bronze	
03	O-ring	EPDM NBR FPM	
04	Body	Ductile iron Ductile iron (low temp.) Carbon steel	JS 1030, EN 1563 JS 1049, EN 1563 1.0619, EN 10213
05	Bearing	Steel / PTFE Bronze / PTFE	
06	Conical pin	See item 01	See item 01
07	Disc	Austenitic stainless steel ⁽²⁾ Duplex stainless steel ⁽³⁾ Martensitic stainless steel Ductile iron / rilsan coated Aluminum bronze	1.4408, EN 10213 1.4517, EN 10213 JS 1030, EN 1563 / rilsan coating G- CuAl10Ni, DIN 1714
08	Shaft	See item 01	See item 01
09	Seal	EPDM NBR FPM	
12	Axial bearing	Bronze	
13	Cover plate	Steel / Zn5C	
14	Cylinder head screw	Steel / Zn5C	
15	Counter sunk screw	Steel / Zn5C	
16	Collar bearing	Bronze	
17	O-ring	EPDM NBR FPM	
19	Sealing plate	Steel / NBR Steel / rubber FPM	

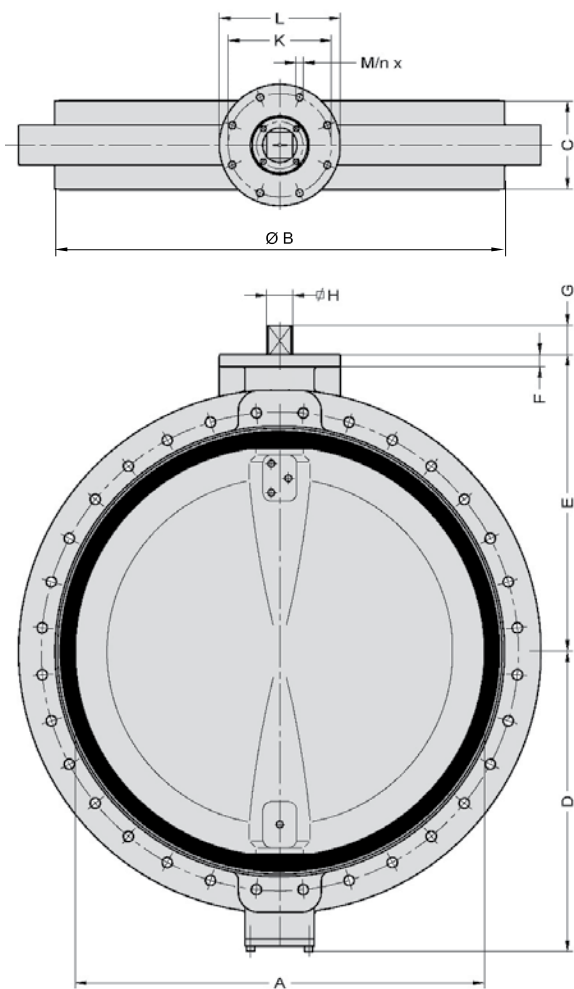
⁽¹⁾ Other materials on request

⁽²⁾ for $\geq$ DN 500

⁽³⁾ forged $\leq$ DN 450, casted $\geq$ DN 500,
material 1.4517, EN 10213 (ASTM A 351, CD-4MCu)



dimensions – DN 1200 – 1400



DN	A	B	C	D	E	F	G	H	ISO 5211	K	L	M	n	maas, kg
1200	1186	1300	254	870	855	35	85	75	F30	298	415	21	8	1400
1200	1186	1300	254	870	855	35	85	75	F35	356	415	31	8	1400

* Other nominal diameters on request.

Centric butterfly valve C series, type AV01-005

application:

Shut-off, control valve

nominal diameter	DN 600 – 2400
nominal pressure	PN 6/10/16
operating temperature	-20 °C up to +200 °C

mounting length: EN 558-1/2 series 20

corrosion coating: 100 mic, RAL 7037, other coating on request

connection: flanged EN 1092 PN 6, 10 и 16

seal: non replaceable lining bonded to the body

leakage class:

bi-directional – according to EN 12266 rate A

shaft seal design: O-ring bush

stem: with indication for position of the disc

special design:

- antistatic design: according to EN 736/3 and API 609

design pressure PS: maximum 16 bar

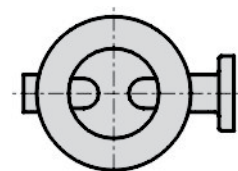
design temperature TS: -20 °C up to +200 °C

flow velocity: max. 5 m/s for liquids, max. 50 m/s for gases



nominal diameter DN	operating pressure EN 12266 PN bar	flanges PN bar
600 – 2400	16	6
600 – 2400	16	10
600 – 2400	16	16

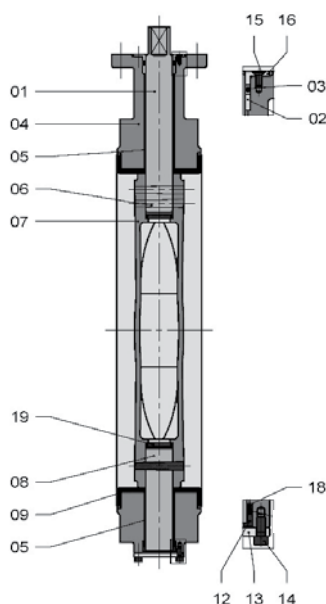
**Preferred position when installed:
in horizontal pipeline**



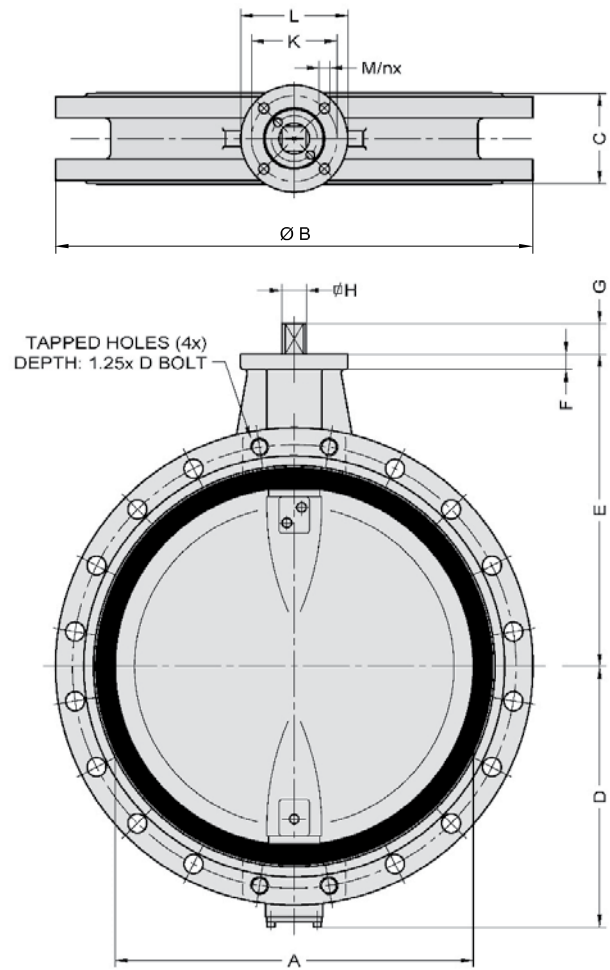
Parts list – DN 600 – 1000

Item	part	material ⁽¹⁾	EN/DIN
01	Shaft	Duplex stainless steel Martensitic stainless steel Aluminum bronze Monel K500®	1.4462, EN 10088 1.4057, EN 10088 CuAl10Ni5Fe4, EN/DIN 17665 NA 18, BS 3076
02	Bush	Bronze	
03	O-ring	EPDM NBR FPM	
04	Body	Cast iron Ductile iron Ductile iron (low temp.)	JL 1040, EN 1561 JS 1030, EN 1563 JS 1049, EN 1563
05	Bearing	Steel / PTFE Bronze / PTFE	
06	Conical pin	See item 01	See item 01
07	Disc	Austenitic stainless steel Duplex stainless steel Ductile iron / rilsan coated Aluminum bronze	1.4408, EN 10213 1.4517, EN 10213 JS 1030, EN 1563 G-CuAl10Ni, DIN 1714
08	Shaft	See item 01	See item 01
09	Seal	EPDM NBR FPM	
12	Axial bearing	Bronze	
13	Cover plate	Steel / Zn5C	
14	Cylinder head screw	Steel / Zn5C	
15	Counter sunk screw	Steel / Zn5C	
16	Collar bearing	Bronze	
18	Ring	Bronze	
19	Sealing plate	Steel / NBR Steel / FPM	

⁽¹⁾ Other materials on request



dimensions– DN 600 – 1000

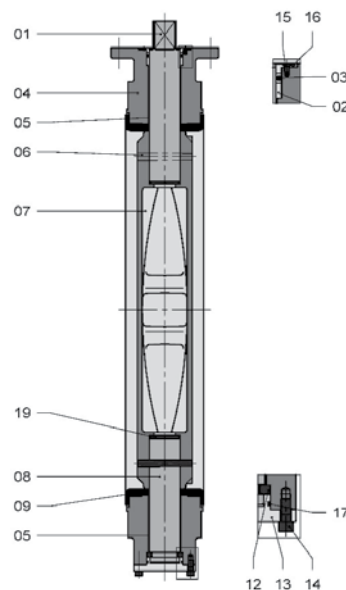


DN	A	B	C	D	E	F	G	H	ISO 5211	K	L	M	n	maas, kg
600	584	154	435	510	25	50	40	F14	140	175	17	4	4	285
700	686	165	480	560	25	60	46	F16	165	210	21	4	4	323
750	736	190	520	585	25	60	46	F16	165	210	21	4	4	375
800	786	190	525	610	25	60	46	F16	165	210	21	4	4	425
900	886	203	635	690	30	90	60	F25	254	300	17	8	4	560
1000	986	216	685	740	30	90	60	F25	254	350	17	8	4	760
1000	986	216	685	740	30	90	60	F30	298	350	21	8	4	760

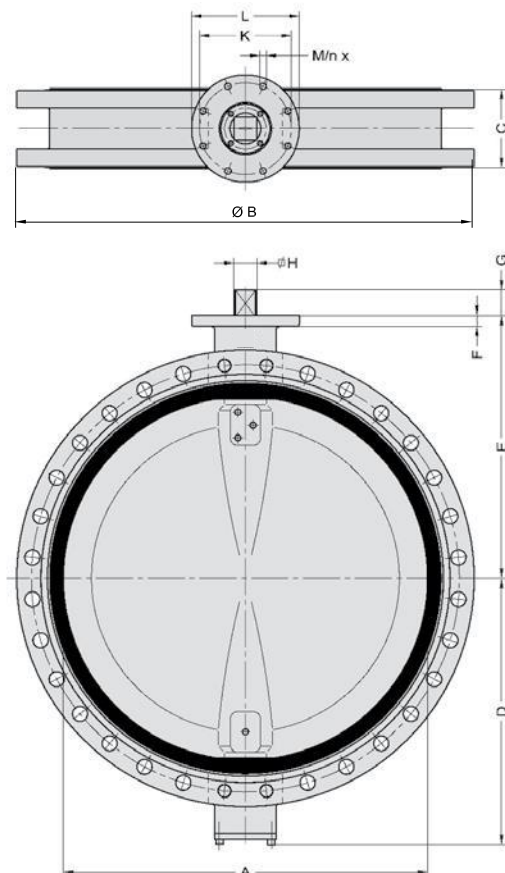
Parts list – DN 1050 – 2400

Item	part	material ⁽¹⁾	EN/DIN
01	Shaft	Duplex stainless steel Martensitic stainless steel Aluminum bronze Monel K500®	1.4462, EN 10088 1.4057, EN 10088 CuAl10Ni5Fe4, EN/DIN 17665 NA 18, BS 3076
02	Bush	Bronze	
03	O-ring	EPDM NBR FPM	
04	Body	Cast iron Ductile iron Ductile iron (low temp.)	JL 1040, EN 1561 JS 1030, EN 1563 JS 1049, EN 1563
05	Bearing	Steel / PTFE Bronze / PTFE	
06	Conical pin	See item 01	See item 01
07	Disc	Austenitic stainless steel Duplex stainless steel Martensitic stainless steel Martensitic stainless steel / rilsan coated Aluminum bronze	1.4408, EN 10213 1.4517, EN 10213 1.4059, DIN 17445 JS 1030, EN 1563 G-CuAl10Ni, DIN 1714
08	Shaft	See item 01	See item 01
09	Seal	EPDM NBR FPM	
12	Axial bearing	Bronze	
13	Cover plate	Steel / Zn5C	
14	Cylinder head screw	Steel / Zn5C	
15	Counter sunk screw	Steel / Zn5C	
16	Flanged bush	Bronze	
17	Sealing ring	EPDM NBR FPM	
19	Sealing plate	Steel / NBR Steel / FPM	

⁽¹⁾ Other materials on request.



dimensions – DN 1050 – 2400



DN	A	B	C	D	E	F	G	H	ISO 5211	K	L	M	n	maas, kg
1050	1036	216	690	740	30	90	60	30	F25	254	350	17	8	880
1100	1086	235	820	805	35	85	75	30	F30	298	415	21	8	900
1200	1186	254	870	855	35	85	75	30	F30	298	415	21	8	1100
1200	1186	254	870	855	35	85	75	40	F35	356	415	31	8	1100
1300	1286	279	920	955	35	85	75	46	F30	298	415	21	8	1250
1300	1286	279	920	955	35	85	75	46	F35	356	415	31	8	1250
1400	1386	279	980	955	35	85	75	46	F35	356	415	31	8	1800
1400	1386	279	980	955	35	100	90	60	F35	356	415	31	8	1800
1500	1484	318	1037	1029	50	100	90	60	F35	356	415	31	8	2180
1500	1484	318	1037	1029	50	120	105	30	F35	356	415	31	8	2180
1600	1586	318	1096	1079	50	100	90	30	F35	356	495	31	8	2450
1600	1586	318	1096	1079	50	120	105	30	F40	406	495	37	8	2450
1700	1676	337	1140	1126	50	120	105	40	F40	406	495	37	8	2500
1700	1676	337	1140	1126	50	140	120	46	F40	406	495	37	8	2500
1800	1776	356	1187	1176	50	100	105	46	F40	406	495	37	8	3200
1800	1776	356	1187	1176	50	120	120	46	F40	406	495	37	8	3200
2000	1976	406	1287	1276	50	120	105	60	F40	406	495	37	8	3400
2000	1976	406	1287	1276	50	140	120	60	F40	406	495	37	8	3400
2100	2080	406	1340	1400	50	120	105	46	F40	406	560	37	8	4800
2100	2080	406	1340	1400	50	140	120	46	F48	483	560	37	12	4800
2200	2180	406	1415	1420	50	120	105	60	F40	406	560	37	8	4470
2200	2180	406	1415	1420	50	140	120	60	F48	483	560	37	12	4470
2400	2380	406	1462	1528	50	120	105	60	F48	483	560	37	12	5335

* Other nominal diameters on request.

Centric butterfly valve C series, type AV01-006

application:
Shut-off, control valve

nominal diameter	DN 350 – 1000
nominal pressure	PN 6/10/16
operating temperature	-20 °C up to +200 °C

mounting length: EN 558-1/2 series 20

corrosion coating: 100 mic, RAL 7037, other coating on request

connection: single flanged EN 1092 PN 6, 10 and 16

seal: non replaceable lining bonded to the body

leakage class:
bi-directional – according to EN 12266 rate A

shaft seal design: O-ring bush

stem: with indication for position of the disc

special design:
• antistatic design: according to EN 736/3 and API 609

design pressure PS: maximum 16 bar

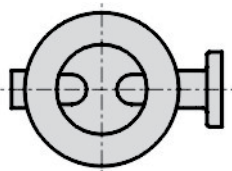
design temperature TS: -20 °C up to +200 °C

flow velocity: max. 5 m/s for liquids, max. 50 m/s for gases



nominal diameter DN	operating pressure EN 12266 PN bar	flanges PN bar
350 – 1000	16	6
350 – 1000	16	10
350 – 1000	16	16

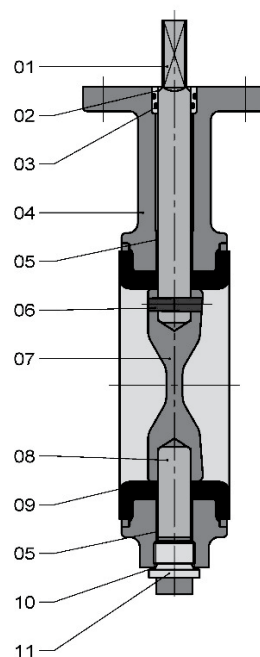
Preferred position when installed:
in horizontal pipeline



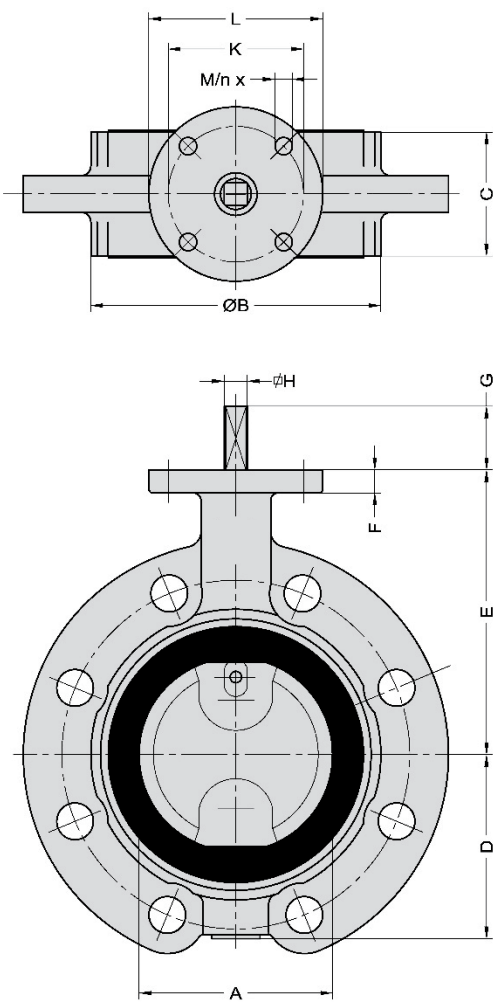
Parts list – DN 350

Item	part	material ⁽¹⁾	EN/DIN
01	Shaft	Duplex stainless steel Martensitic stainless steel Aluminum bronze Monel K500® Hastelloy-C®	1.4462, EN 10088 1.4057, EN 10088 CuAl10Ni5Fe4, EN/DIN 17665 NA 18, BS 3076 -
02	Bush	Bronze	
03	O-ring	EPDM NBR FPM	
04	Body	Ductile iron Ductile iron (low temp.) Carbon steel	JS 1030, EN 1563 JS 1049, EN 1563 1.0619, EN 10213
05	Bearing	Steel / PTFE Bronze / PTFE	
06	Conical pin	See item 01	See item 01
07	Disc	Duplex stainless steel Martensitic stainless steel Aluminum bronze Hastelloy-C® CuNi	1.4462, EN 10088 1.4057, EN 10088 G-CuAl10Ni, DIN 1714 - 2.0835, DIN 17658
08	Shaft	See item 01	See item 01
09	Seal	EPDM NBR FPM	
10	Sealing ring	Cu	
11	Plug	Steel / Zn5C	

⁽¹⁾ Other materials on request.



dimensions – DN 350



DN	A	B	C	D	E	F	G	H	ISO 5211	K	L	M	n	maas, kg
350	336	405	78	256	315	15	45	24	F10	102	125	11	4	45

Parts list – DN 400 – 1000

Item	part	material ⁽¹⁾	EN/DIN
01	Shaft	Duplex stainless steel Martensitic stainless steel Aluminum bronze Monel K500® Hastelloy-C®	1.4462, EN 10088 1.4057, EN 10088 CuAl10Ni5Fe4, EN/DIN 17665 NA 18, BS 3076 -
02	Bush	Bronze	
03	O-ring	EPDM NBR FPM	
04	Body	Ductile iron Ductile iron (low temp.) Carbon steel	JS 1030, EN 1563 JS 1049, EN 1563 1.1019, EN 10213
05	Bearing	Steel / PTFE Bronze / PTFE	
06	Conical pin	See item 01	See item 01
07	Disc	Austenitic stainless steel ⁽²⁾ Duplex stainless steel ⁽³⁾ Martensitic stainless steel ⁽⁴⁾ Ductile iron / rilsan coated Aluminum bronze Hastelloy-C® ⁽⁵⁾ Cu ⁽⁵⁾	1.4408, EN 10213 1.4462, EN 10088 1.4057, EN 10088 JS 1030, EN 1563 G-CuAl10Ni, DIN 1714 - 2.0835, DIN 17658
08	Shaft	See item 01	See item 01
09	Seal	EPDM NBR FPM	
12	Axial bearing	Bronze	
13	Cover plate	Steel / Zn5C	
14	Cylinder head screw	Steel / Zn5C	
15	Counter sunk screw	Steel / Zn5C	
16	Collar bearing	Bronze	
18	Ring	Bronze	
19	Sealing plate	Steel / NBR Steel / FPM	

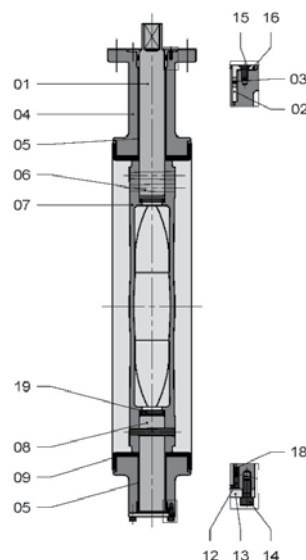
⁽¹⁾ Other materials on request

⁽²⁾ for ≥ DN 700

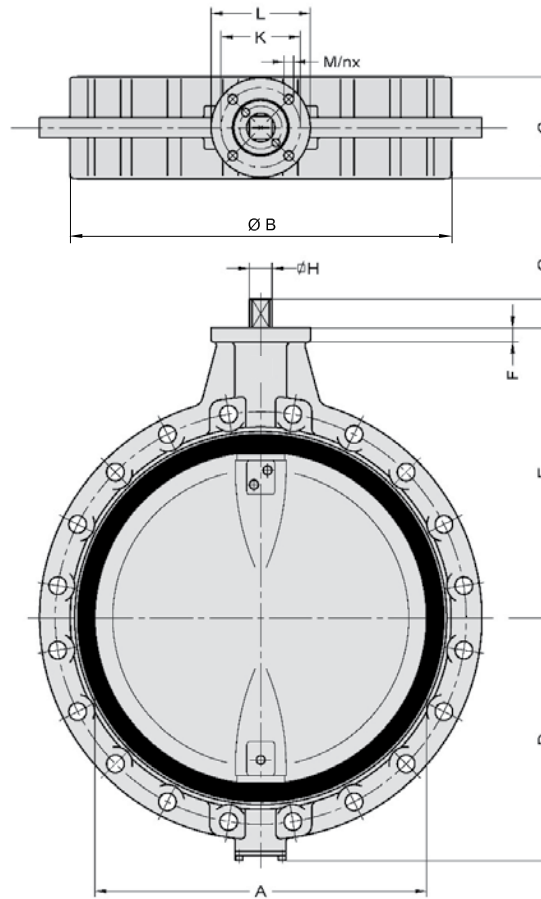
⁽³⁾ forged ≤ DN 600, casted ≥ DN 700,
material 1.4517, EN 10213 (ASTM A 351, CD-4MCu)

⁽⁴⁾ forged ≤ DN 600

⁽⁵⁾ ≤ DN 500



dimensions – DN 400 – 1000



DN	A	B	C	D	E	F	G	H	ISO 5211	K	L	M	n	maas, kg
400	386	470	102	308	363	25	50	30	F14	140	175	17	4	85
450	436	522	114	334	388	25	50	30	F14	140	175	17	4	100
500	486	576	127	360	413	25	50	30	F14	140	175	17	4	135
600	586	672	154	426	510	25	50	40	F14	140	175	17	4	200
700	686	776	165	480	560	25	60	46	F16	165	210	21	4	315
800	786	880	190	525	610	25	60	46	F16	165	210	21	4	365
900	886	980	203	635	690	30	90	60	F25	254	300	17	8	500
1000	986	1085	216	685	740	30	90	60	F25	254	350	17	8	670
1000	986	1085	216	685	740	30	90	60	F30	298	350	21	8	670

* Other nominal diameters on request.

Centric butterfly valve C series, type AV01-007

application:

Shut-off, control valve

nominal diameter	DN 80 – 800
nominal pressure	PN 6/10/16
operating temperature	-20 °C up to +200 °C

mounting length: EN558-1/2 16 series

corrosion coating: 100 mic, RAL 7037, other coating on request

connection: single flanged EN 1092 PN 6, 10 and 16

seal: non replaceable lining bonded to the body

leakage class:

bi-directional – according to EN 12266 rate A

shaft seal design: O-ring bush

stem: with indication for position of the disc

special design:

- antistatic design: according to EN 736/3 and API 609

design pressure PS: maximum 16 bar

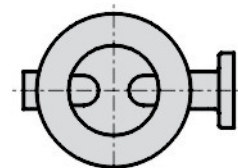
design temperature TS: -20 °C up to +200 °C

flow velocity: max. 5 m/s for liquids, max. 50 m/s for gases



nominal diameter DN	operating pressure EN 12266 PN bar	flanges PN bar
80 – 800	16	6
80 – 800	16	10
80 – 800	16	16

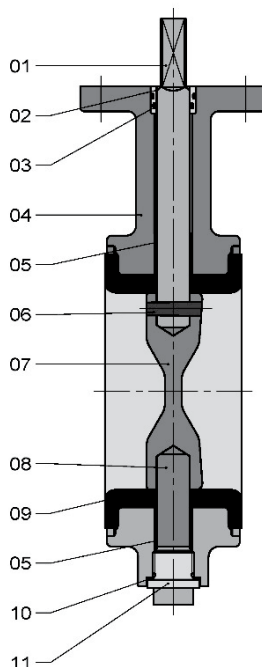
Preferred position when installed:
in horizontal pipeline



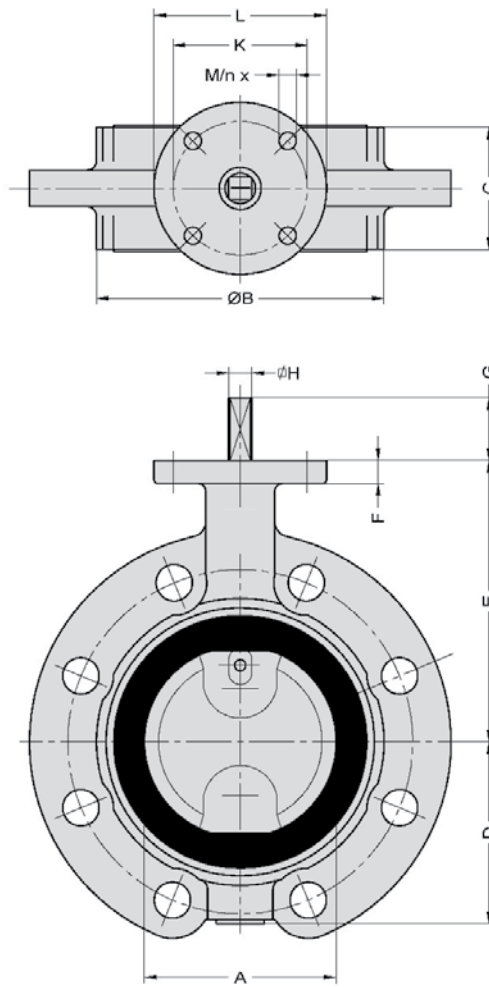
Parts list – DN 80 – 350

Item	part	material ⁽¹⁾	EN/DIN
01	Shaft	Duplex stainless steel Martensitic stainless steel Aluminum bronze Monel K500® Hastelloy-C®	1.4462, EN 10088 1.4057, EN 10088 CuAl10Ni5Fe4, EN/DIN 17665 NA 18, BS 3076 -
02	Bush	Bronze	
03	O-ring	EPDM NBR FPM	
04	Body	Ductile iron Ductile iron (low temp.) Carbon steel	JS 1030, EN 1563 JS 1049, EN 1563 1.0619, EN 10213
05	Bearing	Steel / PTFE Bronze / PTFE	
06	Conical pin	See item 01	See item 01
07	Disc	Duplex stainless steel Martensitic stainless steel Ductile iron / rilsan coated ⁽²⁾ Aluminum bronze Hastelloy-C® CuNi	1.4462, EN 10088 1.4057, EN 10088 JS 1030, EN 1563 G-CuAl10Ni, DIN 1714 - 2.0835, DIN 17658
08	Shaft	See item 01	See item 01
09	Seal	EPDM NBR FPM	
10	Sealing ring	Cu	
11	Plug	Steel / Zn5C	

⁽¹⁾ Other materials on request

⁽²⁾ For DN 250 and DN 300


dimensions – DN 80 – 350



DN	A	B	C	D	E	F	G	H	ISO 5211	K	L	M	n	maas, kg
80	80	130	64	78	133	12	34	10	F07	70	90	9	4	6.5
100	100	150	64	98	147	12	34	12	F07	70	90	9	4	7.5
125	125	182	70	109	160	12	34	12	F07	70	90	9	4	11
150	150	210	76	133	180	14	34	16	F07	70	90	9	4	14
200	200	262	89	158	204	14	34	16	F07	70	90	9	4	18
250	250	315	114	194	245	15	45	24	F10	102	125	11	4	28
300	300	371	114	219	270	15	45	24	F10	102	125	11	4	39
350	336	405	127	256	315	15	45	24	F10	102	125	11	4	50

Parts list – DN 400 – 1000

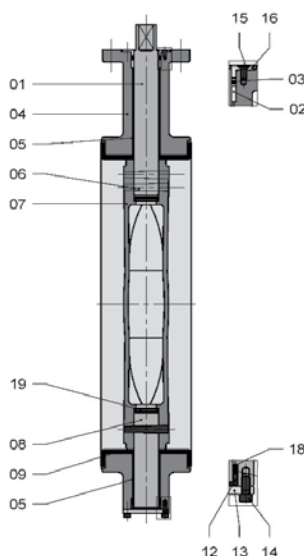
Item	part	material ⁽¹⁾	EN/DIN
01	Shaft	Duplex stainless steel Martensitic stainless steel Aluminum bronze Monel K500® Hastelloy-C®	1.4462, EN 10088 1.4057, EN 10088 CuAl10Ni5Fe4, EN/DIN 17665 NA 18, BS 3076 -
02	Bush	Bronze	
03	O-ring	EPDM NBR FPM	
04	Body	Ductile iron Ductile iron (low temp.) Carbon steel	JS 1030, EN 1563 JS 1049, EN 1563 1.0619, EN 10213
05	Bearing	Steel / PTFE Bronze / PTFE	
06	Conical pin	See item 01	See item 01
07	Disc	Austenitic stainless steel ⁽²⁾ Duplex stainless steel ⁽³⁾ Martensitic stainless steel ⁽⁴⁾ Ductile iron / rilsan coated Aluminum bronze Hastelloy-C® ⁽⁵⁾ CuNi ⁽⁵⁾	1.4408, EN 10213 1.4462, EN 10088 1.4057, EN 10088 JS 1030, EN 1563 G-CuAl10Ni, DIN 1714 - 2.0835, DIN 17658
08	Shaft	See item 01	See item 01
09	Seal	EPDM NBR FPM	
12	Axial bearing	Bronze	
13	Cover plate	Steel / Zn5C	
14	Cylinder head screw	Steel / Zn5C	
15	Counter sunk screw	Steel / Zn5C	
16	Collar bearing	Bronze	
18	Ring	Bronze	
19	Sealing plate	Steel / NBR Steel / FPM	

⁽¹⁾ Other materials on request

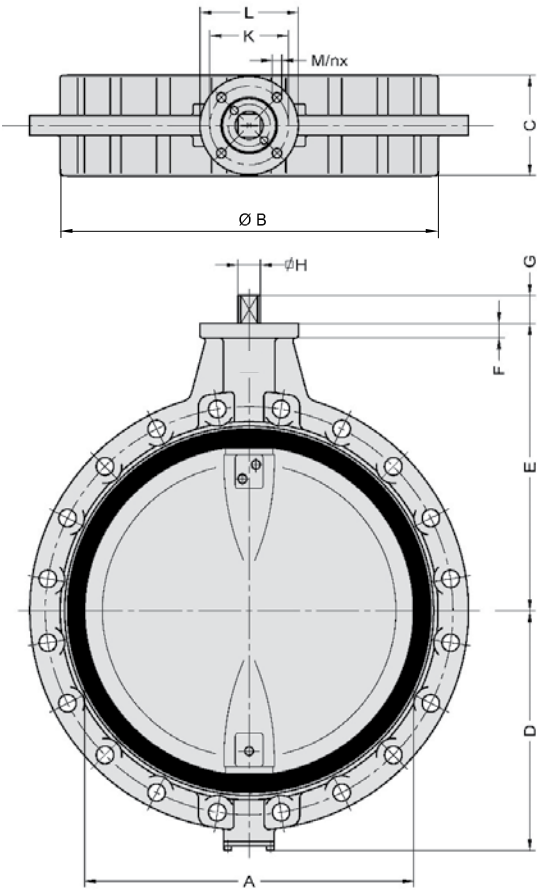
⁽²⁾ for ≥ DN 700

⁽³⁾ forged ≤ DN 600, casted ≥ DN 700,
material 1.4517, EN 10213 (ASTM A 351, CD-4MCu)

⁽⁴⁾ forged ≤ DN 600

⁽⁵⁾ ≤ DN 500


dimensions – DN 400 – 1000



DN	A	B	C	D	E	F	G	H	ISO 5211	K	L	M	n	maas, kg
400	386	470	140	308	363	25	50	30	F14	140	175	17	4	95
450	436	522	152	334	388	25	50	30	F14	140	175	17	4	115
500	486	576	152	360	413	25	50	30	F14	140	175	17	4	155
600	586	672	178	426	510	25	50	40	F14	140	175	17	4	230
700	686	776	229	480	560	25	60	46	F16	165	210	21	4	330
750	736	826	229	520	585	25	60	46	F16	165	210	21	4	380
800	786	880	241	525	610	25	60	46	F16	165	210	21	4	430

* Other nominal diameters on request.

centric butterfly valve C series, type AV01-008

application:
 Shut-off, control valve

nominal diameter	DN 50 – 2000
nominal pressure	PN 6/10/16
operating temperature	-20 °C up to +200 °C

mounting length: EN 558-1/2 series 20

corrosion coating: 100 mic, RAL 7037, other coating on request

connection: flanged EN 1092 PN 6, 10 и 16

seal: non replaceable lining bonded to the body

leakage class:
 bi-directional – according to EN 12266 rate A

shaft seal design: O-ring bush

stem: with indication for position of the disc

special design:
 • antistatic design: according to EN 736/3 and API 609

design pressure PS: maximum 16 bar (optional 20/25 bar)

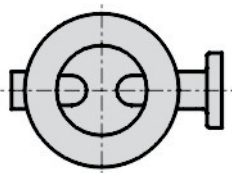
design temperature TS: -20 °C up to +200 °C

flow velocity: max. 5 m/s for liquids, max. 50 m/s for gases



nominal diameter DN	operating pressure EN 12266 PN bar	flanges PN bar
50 – 2000	16	6
50 – 2000	16	10
50 – 2000	16	16

Preferred position when installed:
 in horizontal pipeline

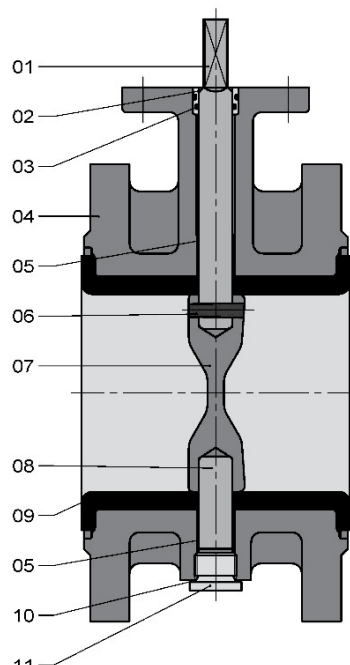


Parts list – DN 50 – 350

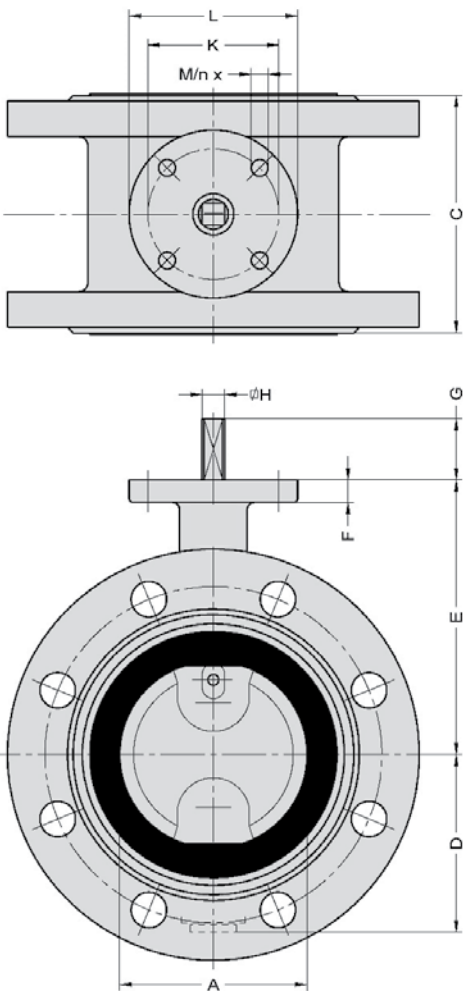
Item	part	material ⁽¹⁾	EN/DIN
01	Shaft	Duplex stainless steel Martensitic stainless steel Aluminum bronze Monel K500® Hastelloy-C®	1.4462, EN 10088 1.4057, EN 10088 CuAl10Ni5Fe4, EN/DIN 17665 NA 18, BS 3076 -
02	Bush	Bronze	
03	O-ring	EPDM NBR FPM	
04	Body	Cast iron Ductile iron Ductile iron (low temp.) Carbon steel Bronze	JL 1040, EN 1561 JS 1030, EN 1563 JS 1049, EN 1563 1.0619, EN 10213 2.1096.01, DIN 1705
05	Bearing	Steel / PTFE Bronze / PTFE	
06	Conical pin	See item 01	See item 01
07	Disc	Duplex stainless steel Martensitic stainless steel Ductile iron / rilsan coated ⁽²⁾ Aluminum bronze Hastelloy-C® CuNi	1.4462, EN 10088 1.4057, EN 10088 JS 1030, EN 1563 G-CuAl10Ni, DIN 1714 - 2.0835, DIN 17658
08	Shaft	See item 01	See item 01
09	Seal	EPDM NBR FPM	
10	Sealing ring	Cu	
11	Plug	Steel / Zn5C	

⁽¹⁾ Other materials on request

⁽²⁾ For DN 250 and DN 300



dimensions – DN 50 – 350



DN	A	C	D	E	F	G	H	ISO 5211	K	L	M	n	maas, kg
40	40	106	58	113	12	34	10	F07	70	90	9	4	7
50	50	108	63	118	12	34	10	F07	70	90	9	4	8
65	65	112	71	126	12	34	10	F07	70	90	9	4	9
80	80	114	78	133	12	34	10	F07	70	90	9	4	11
100	100	127	98	147	12	34	12	F07	70	90	9	4	13
125	125	140	109	160	12	34	12	F07	70	90	9	4	17
150	150	140	133	180	14	34	16	F07	70	90	9	4	23
200	200	152	158	204	14	34	16	F07	70	90	9	4	32
250	250	165	194	245	15	45	24	F10	102	125	11	4	50
300	300	178	219	270	15	45	24	F10	102	125	11	4	65
350	336	190	256	315	15	45	24	F10	102	125	11	4	95

Parts list – DN 400 – 1000

Item	part	material ⁽¹⁾	EN/DIN
01	Shaft	Duplex stainless steel Martensitic stainless steel Aluminum bronze Monel K500® Hastelloy-C®	1.4462, EN 10088 1.4057, EN 10088 CuAl10Ni5Fe4, EN/DIN 17665 NA 18, BS 3076 -
02	Bush	Bronze	
03	O-ring	EPDM NBR FPM	
04	Body	Cast iron Ductile iron Ductile iron (low temp.) Carbon steel Bronze	JL 1040, EN 1561 JS 1030, EN 1563 JS 1049, EN 1563 1.0619, EN 10213 2.1096.01, DIN 1705
05	Bearing	Steel / PTFE Bronze / PTFE	
06	Conical pin	See item 01	See item 01
07	Disc	Austenitic stainless steel ⁽²⁾ Duplex stainless steel ⁽³⁾ Martensitic stainless steel ⁽⁴⁾ Ductile iron / rilsan coated Aluminum bronze Hastelloy-C® ⁽⁵⁾ CuNi ⁽⁵⁾	1.4408, EN 10213 1.4462, EN 10088 1.4057, EN 10088 JS 1030, EN 1563 G-CuAl10Ni, DIN 1714 - 2.0835, DIN 17658
08	Shaft	See item 01	See item 01
09	Seal	EPDM NBR FPM	
12	Axial bearing	Bronze	
13	Cover plate	Steel / Zn5C	
14	Cylinder head screw	Steel / Zn5C	
15	Counter sunk screw	Steel / Zn5C	
16	Collar bearing	Bronze	
18	Ring	Bronze	
19	Sealing plate	Steel / NBR Steel / FPM	

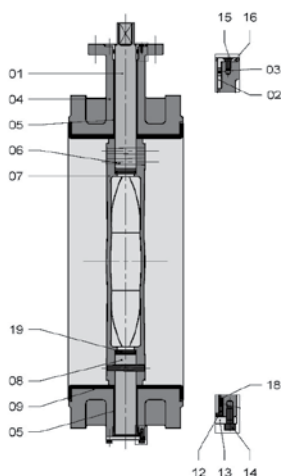
⁽¹⁾ Other materials on request

⁽²⁾ for ≥ DN 700

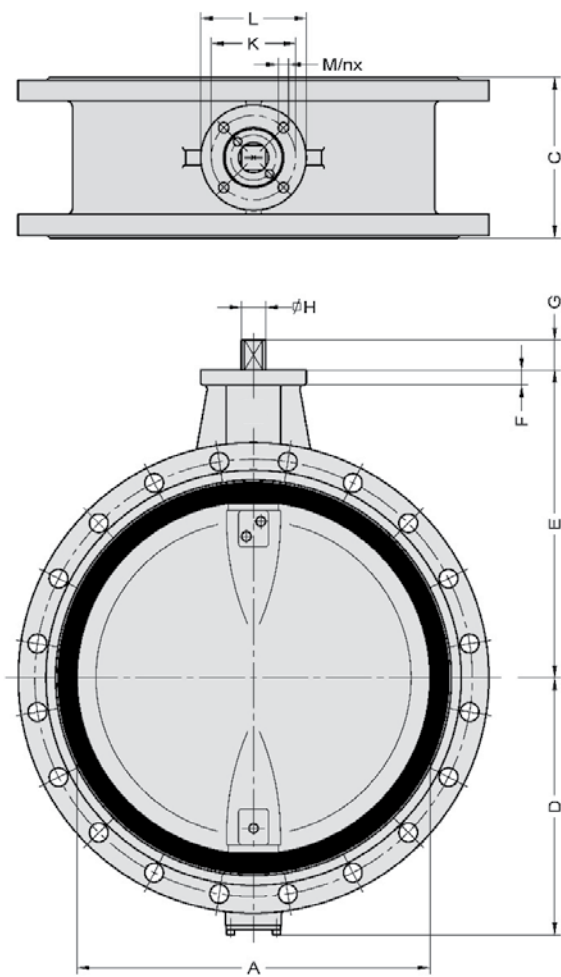
⁽³⁾ forged ≤ DN 600, casted ≥ DN 700,
material 1.4517, EN 10213 (ASTM A 351, CD-4MCu)

⁽⁴⁾ forged ≤ DN 600

⁽⁵⁾ ≤ DN 500



dimensions – DN 400 – 1000

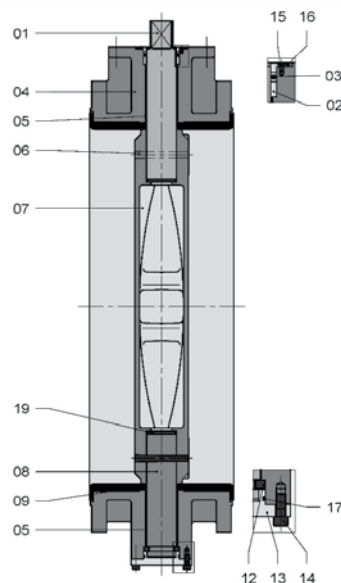


DN	A	C	D	E	F	G	H	ISO 5211	K	L	M	n	maas, kg
400	386	216	308	363	25	50	30	F14	140	175	17	4	130
450	436	222	334	388	25	50	30	F14	140	175	17	4	150
500	486	229	360	413	25	50	30	F14	140	175	17	4	200
550	536	267	395	485	25	50	40	F14	140	175	17	4	260
600	586	267	426	510	25	50	40	F14	140	175	17	4	300
650	636	292	456	535	25	60	46	F16	165	210	21	4	350
700	686	292	480	560	25	60	46	F16	165	210	21	4	380
750	736	318	520	585	25	60	46	F16	165	210	21	4	440
800	786	318	525	610	25	60	46	F16	165	210	21	4	500
900	886	330	635	690	30	90	60	F25	254	300	17	8	660
1000	986	410	685	740	30	90	60	F25	254	350	17	8	900
1000	986	410	685	740	30	90	60	F30	298	350	21	8	900

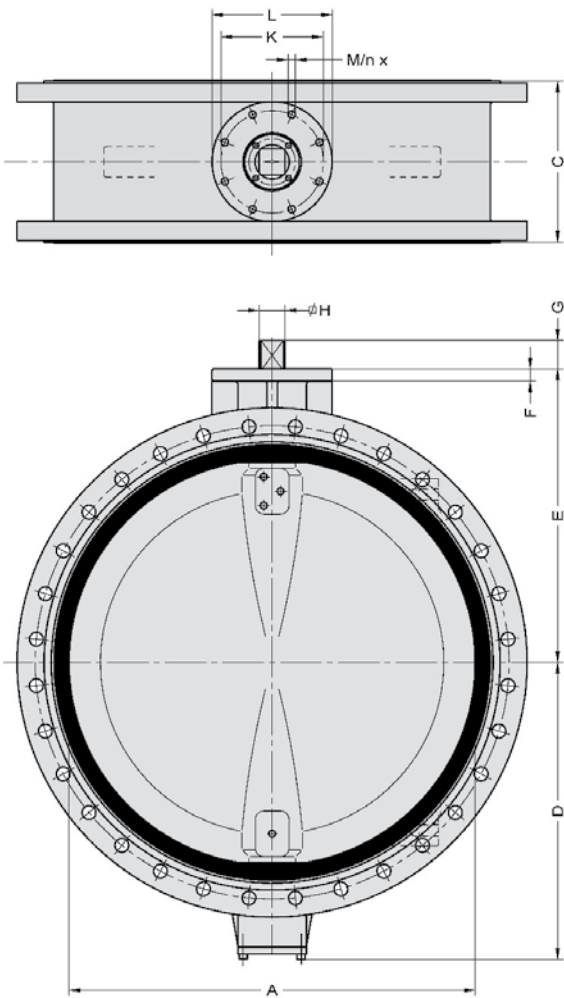
Parts list – DN 1200 – 2000

Item	part	material ⁽¹⁾	EN/DIN
01	Shaft	Duplex stainless steel Martensitic stainless steel Aluminum bronze Monel K500®	1.4462, EN 10088 1.4057, EN 10088 CuAl10Ni5Fe4, EN/DIN 17665 NA 18, BS 3076
02	Bush	Bronze	
03	O-ring	EPDM NBR FPM	
04	Body	Cast iron Ductile iron Malleable cast-iron (low temp.) Carbon steel	JL 1040, EN 1561 JS 1030, EN 1563 JS 1049, EN 1563 1.06019, EN 10213
05	Bearing	Steel / PTFE Bronze / PTFE	
06	Conical pin	See item 01	See item 01
07	Disc	Austenitic stainless steel ⁽²⁾ Duplex stainless steel ⁽³⁾ Martensitic stainless steel ⁽⁴⁾ Ductile iron / rilsan coated Aluminum bronze	1.4408, EN 10213 1.4517, EN 10213 1.4059, DIN 17445 JS 1030, EN 1563 G-CuAl10Ni, DIN 1714
08	Shaft	See item 01	See item 01
09	Seal	EPDM NBR FPM	
12	Axial bearing	Bronze	
13	Cover plate	Steel / Zn5C	
14	Cylinder head screw	Steel / Zn5C	
15	Counter sunk screw	Steel / Zn5C	
16	Flanged bush	Bronze	
17	Sealing ring	Bronze	
19	Sealing plate	Steel / NBR Steel / FPM	

⁽¹⁾ Other materials on request



dimensions – DN 1200 – 2000



DN	A	C	D	E	F	G	H	ISO 5211	K	L	M	n	maas kg
1200	1186	470	870	855	35	85	75	F30	298	415	21	8	1300
1200	1186	470	870	855	35	85	75	F35	356	415	31	8	1300
1400	1386	530	980	955	35	85	75	F35	356	415	31	8	1700
1400	1386	530	980	955	35	100	90	F35	356	415	31	8	1700
1500	1484	600	1037	1029	50	100	90	F35	356	475	31	8	2100
1500	1484	600	1037	1029	50	120	105	F40	406	475	37	8	2100
1600	1586	600	1096	1079	50	100	90	F35	356	475	31	8	2500
1600	1586	600	1096	1079	50	120	105	F40	406	475	37	8	2500
1800	1776	670	1187	1176	50	100	90	F35	356	475	31	8	3500
1800	1776	670	1187	1176	50	120	105	F40	406	475	37	8	3500
2000	1976	760	1287	1276	50	120	105	F35	356	475	31	8	4000
2000	1976	760	1287	1276	50	140	120	F40	406	475	37	8	4000

Centric butterfly valve C series, type AV01-009

application:

Shut-off, control valve

nominal diameter	DN 50 – 1500
nominal pressure	PN 6/10/16
operating temperature	-20 °C up to +200 °C

mounting length: EN 558-1/2 series 14 ISO 5752 Series 14

corrosion coating: 100 mic, RAL 7037, other coating on request

connection: flanged EN 1092 PN 6, 10 и 16

seal: non replaceable lining bonded to the body

leakage class:

bi-directional – according to EN 12266 rate A

shaft seal design: O-ring bush

stem: with indication for position of the disc

special design:

- antistatic design: according to EN 736/3 and API 609

design pressure PS: maximum 16 bar

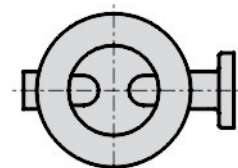
design temperature TS: -20 °C up to +200 °C

flow velocity: max. 5 m/s for liquids, max. 50 m/s for gases



nominal diameter DN	operating pressure EN 12266 PN bar	flanges PN bar
50 – 1500	16	6
50 – 1500	16	10
50 – 1500	16	16

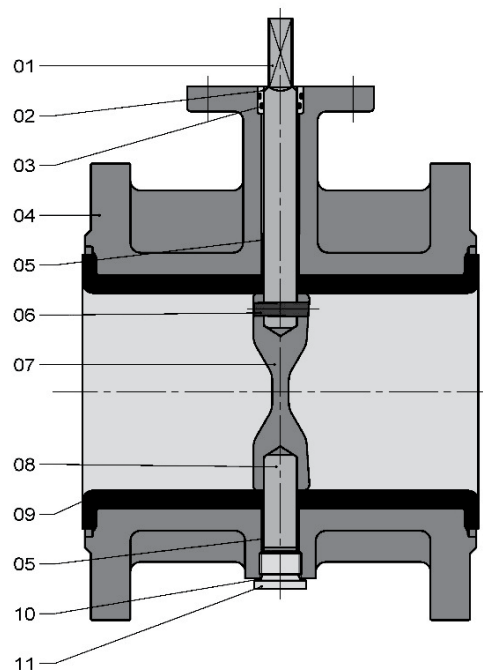
Preferred position when installed:
in horizontal pipeline



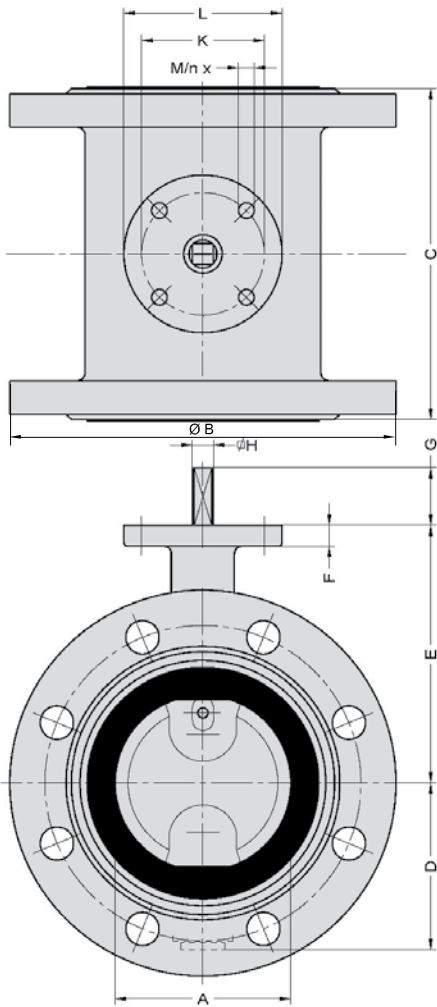
Parts list – DN 50 – 350

Item	part	material ⁽¹⁾	EN/DIN
01	Shaft	Duplex stainless steel Martensitic stainless steel Aluminum bronze Monel K500® Hastelloy-C®	1.4462, EN 10088 1.4057, EN 10088 CuAl10Ni5Fe4, EN/DIN 17665 NA 18, BS 3076 -
02	Bush	Bronze	
03	O-ring	CK3Π BHK Rubber FPM	
04	Body	Cast iron Ductile iron Ductile iron (low temp.)	JL 1040, EN 1561 JS 1030, EN 1563 JS 1049, EN 1563
05	Bearing	Steel / PTFE Bronze / PTFE	
06	Conical pin	See item 01	See item 01
07	Disc	Duplex stainless steel Martensitic stainless steel Ductile iron / rilsan coated ⁽²⁾ Aluminum bronze Hastelloy-C® CuNi	1.4462, EN 10088 1.4057, EN 10088 JS 1030, EN 1563 G-CuAl10Ni, DIN 1714 - 2.0835, DIN 17658
08	Shaft	See item 01	See item 01
09	Seal	EPDM NBR FPM	
10	Sealing ring	Cu	
11	Plug	Steel / Zn5C	

⁽¹⁾ Other materials on request

⁽²⁾ For DN 250 and DN 300


dimensions – DN 50 – 350



DN	A	B	C	D	E	F	G	H	ISO 5211	K	L	M	n	maas, kg
50	50	150	63	118	12	34	10	10	F07	70	90	9	4	11
65	65	170	71	126	12	34	10	12	F07	70	90	9	4	13
80	80	180	78	133	12	34	10	12	F07	70	90	9	4	17
100	100	190	98	147	12	34	12	16	F07	70	90	9	4	20
125	125	200	109	160	12	34	12	16	F07	70	90	9	4	26
150	150	210	133	180	14	34	16	24	F07	70	90	9	4	31
200	200	230	158	204	14	34	16	24	F07	70	90	9	4	45
250	250	250	194	245	15	45	24	24	F10	102	125	11	4	70
300	300	270	219	270	15	45	24	24	F10	102	125	11	4	90
350	336	290	256	315	15	45	24	24	F10	102	125	11	4	120

Parts list – DN 400 – 1000

Item	part	material ⁽¹⁾	EN/DIN
01	Shaft	Duplex stainless steel Martensitic stainless steel Aluminum bronze Monel K500® Hastelloy-C®	1.4462, EN 10088 1.4057, EN 10088 CuAl10Ni5Fe4, EN/DIN 17665 NA 18, BS 3076 -
02	Bush	Bronze	
03	O-ring	EPDM NBR FPM	
04	Body	Cast iron Ductile iron Ductile iron (low temp.)	JL 1040, EN 1561 JS 1030, EN 1563 JS 1049, EN 1563
05	Bearing	Steel / PTFE Bronze / PTFE	
06	Conical pin	See item 01	See item 01
07	Disc	Austenitic stainless steel ⁽²⁾ Duplex stainless steel ⁽³⁾ Martensitic stainless steel ⁽⁴⁾ Ductile iron / rilsan coated Aluminum bronze Hastelloy-C® ⁽⁵⁾ CuNi ⁽⁵⁾	1.4408, EN 10213 1.4462, EN 10088 1.4057, EN 10088 JS 1030, EN 1563 G-CuAl10Ni, DIN 1714 - 2.0835, DIN 17658
08	Shaft	See item 01	See item 01
09	Seal	EPDM NBR FPM	
12	Axial bearing	Bronze	
13	Cover plate	Steel / Zn5C	
14	Cylinder head screw	Steel / Zn5C	
15	Counter sunk screw	Steel / Zn5C	
16	Flanged bush	Bronze	
18	Ring	Bronze	
19	Sealing plate	Steel / NBR Steel / FPM	

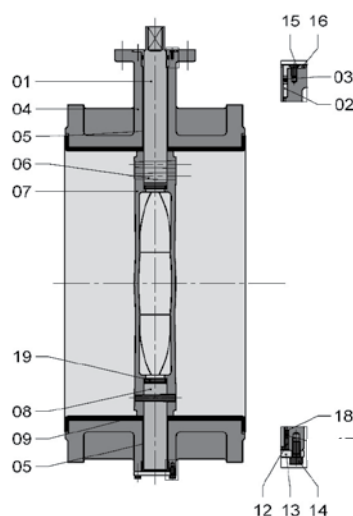
⁽¹⁾ Other materials on request

⁽²⁾ for ≥ DN 700

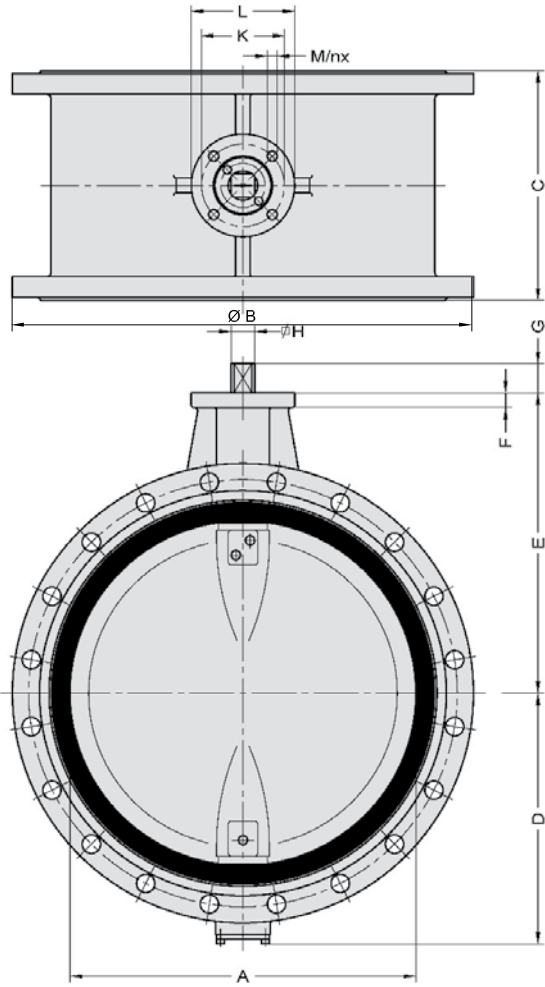
⁽³⁾ forged ≤ DN 600, casted ≥ DN 700,
material 1.4517, EN 10213
(ASTM A 351, CD-4MCu)

⁽⁴⁾ forged ≤ DN 600

⁽⁵⁾ ≤ DN 500



dimensions – DN 400 – 1000

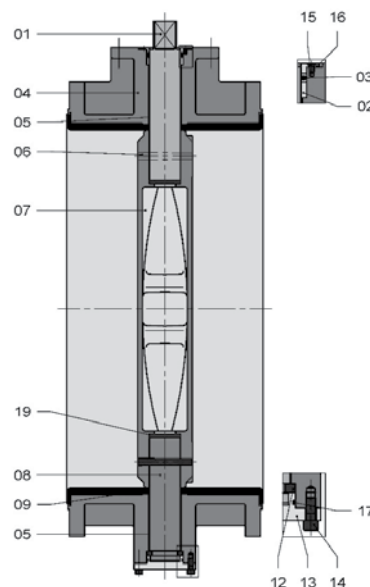


DN	A	B	C	D	E	F	G	H	ISO 5211	K	L	M	n	maas, kg
400	386	310	308	363	25	50	30	10	F14	140	175	17	4	165
450	436	330	334	388	25	50	30	12	F14	140	175	17	4	200
500	486	350	360	413	25	50	30	12	F14	140	175	17	4	230
600	586	390	426	510	25	50	40	16	F14	140	175	17	4	320
700	686	430	480	535	25	60	46	16	F16	165	210	21	4	420
800	786	470	525	610	25	60	46	24	F16	165	210	21	4	610
900	886	510	635	690	30	90	60	24	F25	254	300	17	8	820
1000	986	550	685	740	30	90	60	24	F25	254	350	17	8	1130
1000	986	550	685	740	30	90	60	24	F30	298	350	21	8	1130

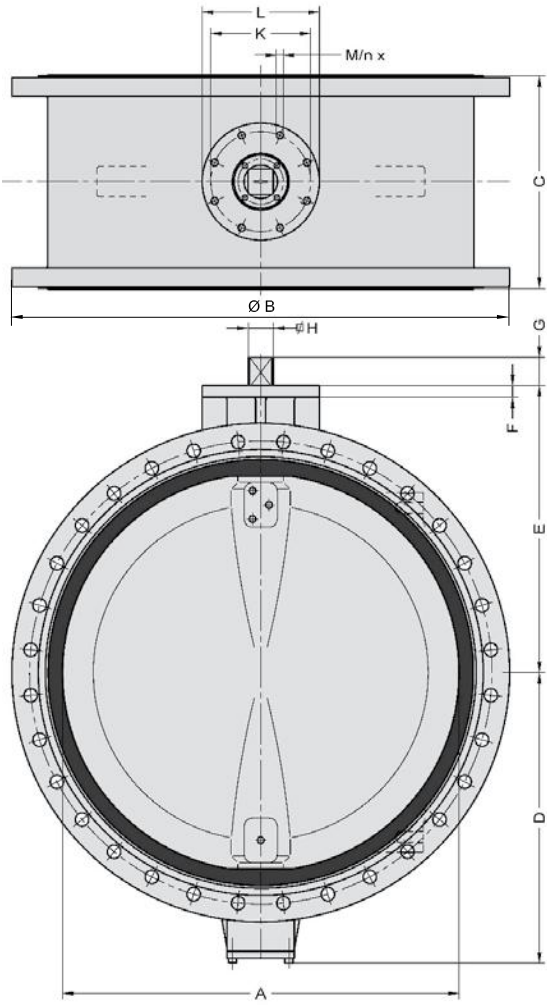
Parts list – DN 1200 – 1500

Item	part	material ⁽¹⁾	EN/DIN
01	Shaft	Duplex stainless steel Martensitic stainless steel Aluminum bronze Monel K500®	1.4462, EN 10088 1.4057, EN 10088 CuAl10Ni5Fe4, EN/DIN 17665 NA 18, BS 3076
02	Bush	Bronze	
03	O-ring	EPDM NBR FPM	
04	Body	Cast iron Ductile iron Ductile iron (low temp.)	JL 1040, EN 1561 JS 1030, EN 1563 JS 1049, EN 1563
05	Bearing	Steel / PTFE Bronze / PTFE	
06	Conical pin	See item 01	See item 01
07	Disc	Austenitic stainless steel Duplex stainless steel Ductile iron / rilsan coated Aluminum bronze	1.4408, EN 10213 1.4517, EN 10213 JS 1030, EN 1563 G-CuAl10Ni, DIN 17114
08	Shaft	See item 01	See item 01
09	Seal	EPDM NBR FPM	
12	Axial bearing	Bronze	
13	Cover plate	Steel / Zn5C	
14	Cylinder head screw	Steel / Zn5C	
15	Counter sunk screw	Steel / Zn5C	
16	Flanged bush	Bronze	
17	Sealing ring	EPDM NBR FPM	
19	Sealing plate	Steel / NBR Steel / FPM	

⁽¹⁾ Other materials on request



dimensions – DN 1200 – 1500



DN	A	B	C	D	E	F	G	H	ISO 5211	K	L	M	n	maas, kg
1200	1186	630	870	855	35	85	75	10	F30	298	415	21	8	1600
1200	1186	630	870	855	35	85	75	12	F35	356	415	31	8	1600
1400	1386	710	980	955	35	85	75	12	F30	356	415	21	8	2100
1400	1386	710	980	955	35	85	75	16	F35	356	415	31	8	2100
1400	1386	710	980	955	35	100	90	16	F35	356	415	31	8	2100
1500	1484	750	1037	1029	50	100	90	24	F35	356	475	31	8	2500
1500	1484	750	1037	1029	50	120	105	24	F40	406	475	37	8	2500

* Other nominal diameters on request.

butterfly valve C series, type
AV01-010

application:
Shut-off valve for water treatment

nominal diameter	DN 50 – 600
nominal pressure	PN 10/16
operating temperature	-20 °C up to +180 °C

connection: wafer, lagged wafer type

leakage class: A according to EN 12266

handling: lever, manual gearbox, pneumatic, electric, hydraulic actuators



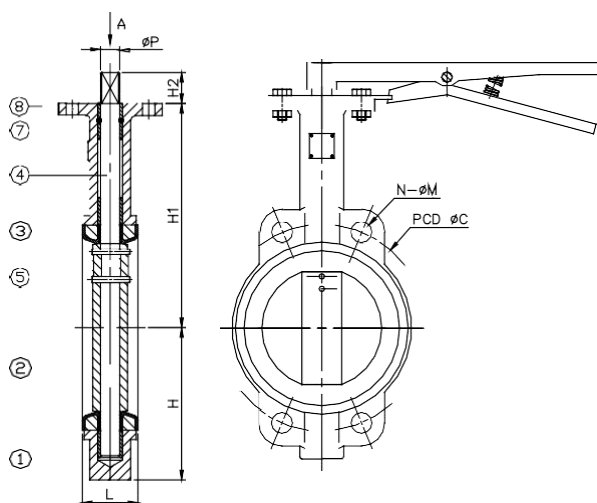
Parts list

Item	part	material
1	Body	Gray cast iron / Ductile iron /
2	Disc	Ductile iron / Aluminum bronze / Steel / stainless steel
3	Seat	EPDM / VITON / PTFE
4	Stem	stainless steel / steel
5	Taper pin	stainless steel
6	Bonnet	Ductile iron
7	Bushing	PTFE
8	Sealing ring	EPDM

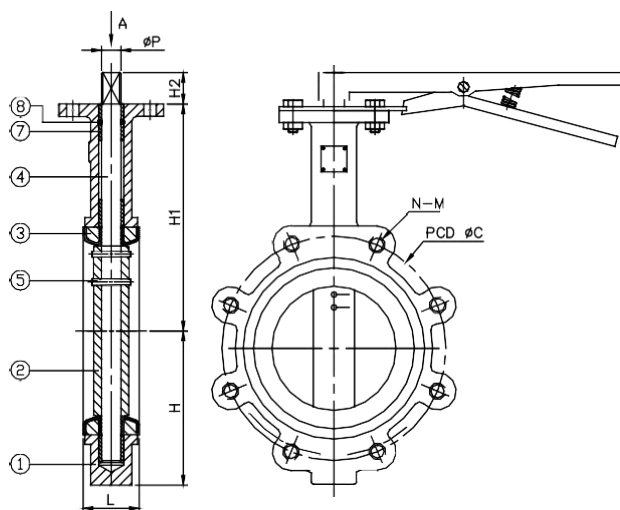
⁽¹⁾ Other materials on request

Above DN 300

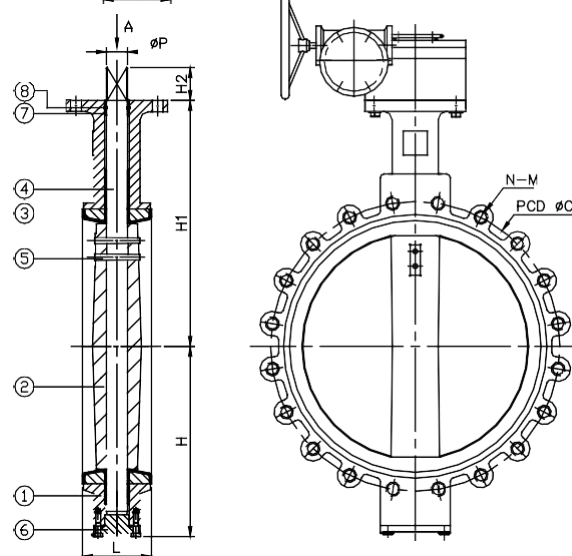
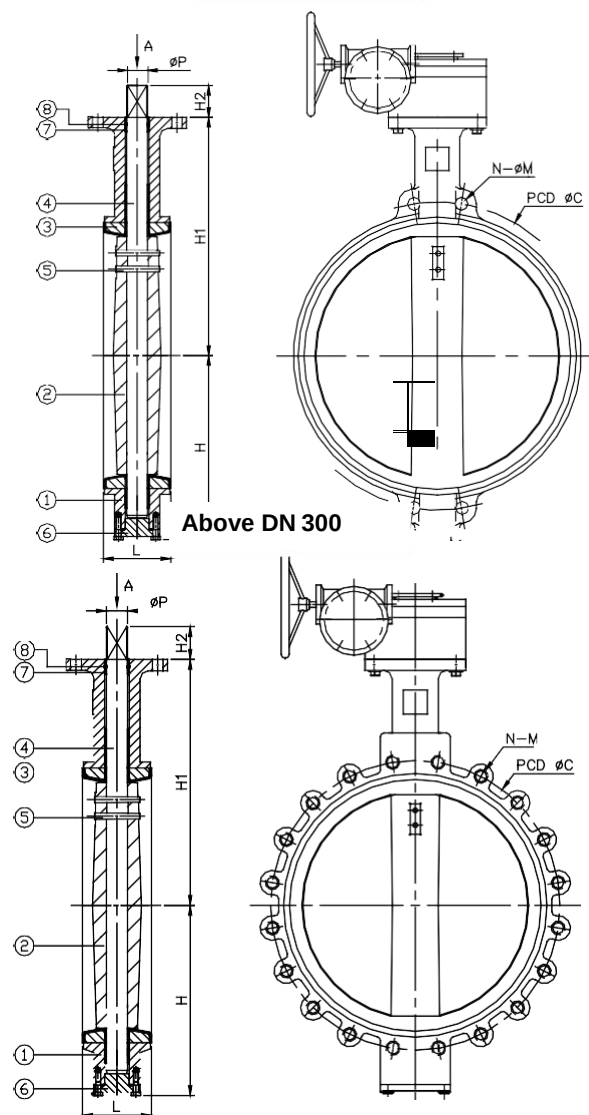
DN 50-300



DN 50-300

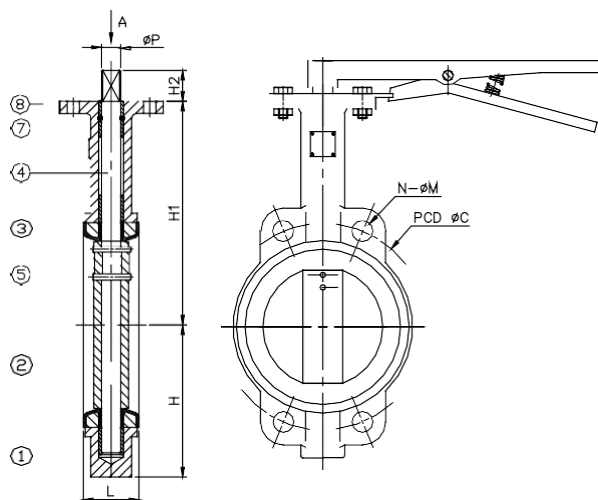


Above DN 300

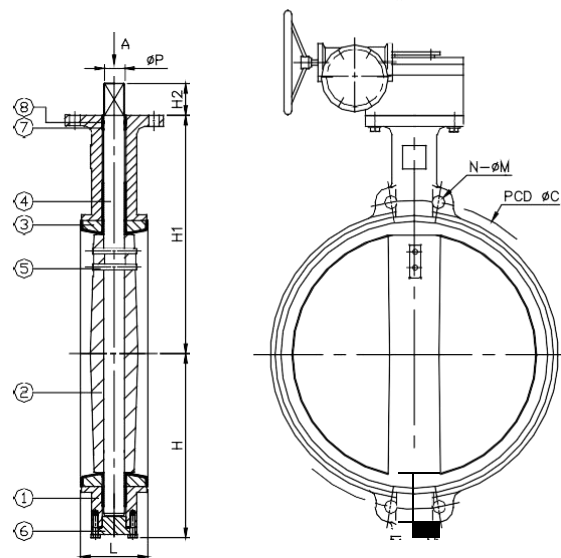


dimensions

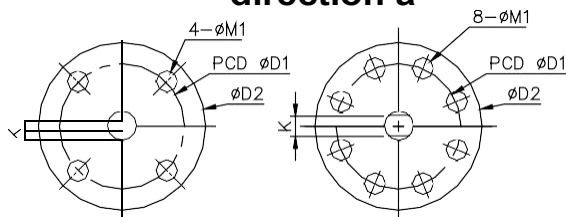
DN 50-300



Above DN 300

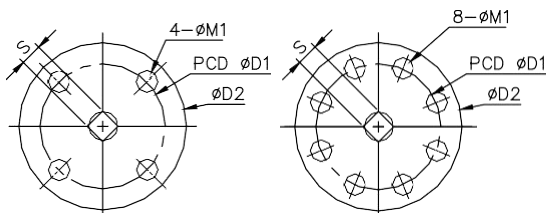


direction a



DN 50-500

DN 600

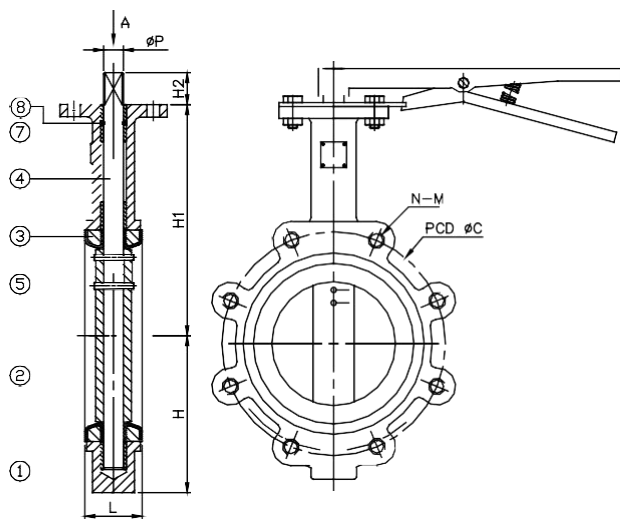


DN	C	I	H	H1	H2	S	K	P	D1	D2	N	M	M1	torque , Nm	maas, kg	
															lever	gearbox
50	120.5	45	76	162	30	9	10	12.7	70	92	4	19	9	26.7	2.5	8
65	139.5	48	89	175	30	9	10	12.7	70	92	4	19	9	37.3	3.5	8.9
80	152.5	49	95	181	30	9	10	12.7	70	92	4	19	9	50.1	4	9.1
100	190.5	55	114	200	30	11	12	15.8	70	92	8	19	9	92.3	5.5	10.6
125	216	58	127	213	30	14	14	19.05	70	92	8	22	9	149.5	7.5	12.8
150	241.5	59	140	225	30	14	14	19.05	70	92	8	22	9	222.8	8.5	13.6
200	298.5	64	177	260	36	17	17	22.2	102	125	8	22	11	429	13.5	25.7
250	362	70	203	292	36	22	22	28.6	102	125	12	25	11	711.1	19.5	32.2
300	432	80	242	337	36	22	24	31.8	125	150	12	25	13	1034.3	30	46
350	476	79.5	267	368	45	22	24	31.8	125	150	12	29	13	1216.8	-	58.8
400	539.5	90	298	400	51	22	27	33.3	165	210	16	29	22	1726.4	-	101.2
450	578	109	318	422	51	27	27	38	165	210	16	32	22	2234.7	-	117.7
500	635	135	349	479	64	27	32	41.15	165	210	20	32	22	3193.6	-	160.1
600	749.5	156	410	562	70	36	36	50.65	254	300	20	35	18	5765.5	-	257.5

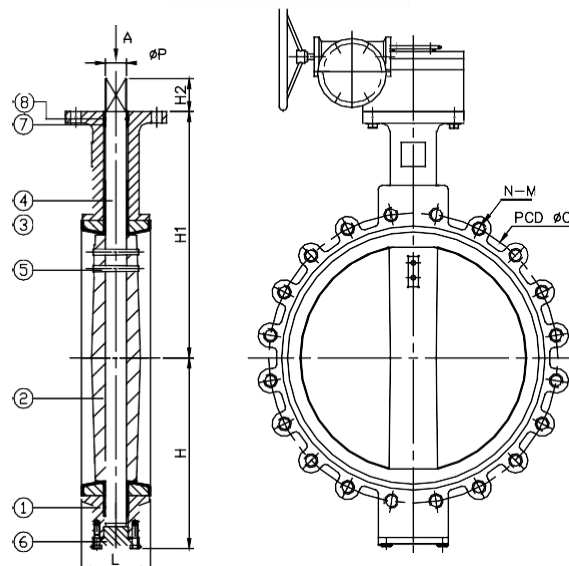
* Other nominal diameters on request.

dimensions

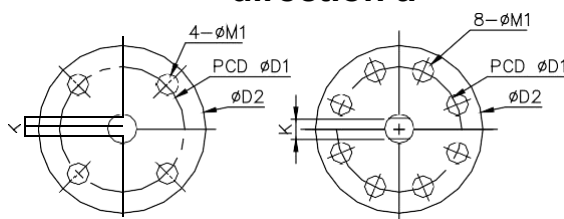
DN 50-300



Above DN 300

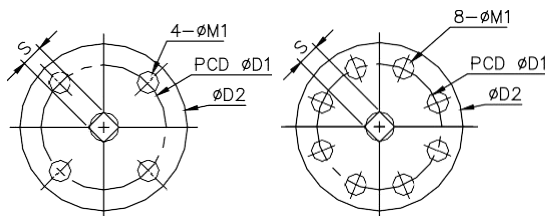


direction a



DN 50-500

DN 600



DN	C	I	H	H1	H2	S	K	P	D1	D2	N	M	M1	torque , Nm	maas, kg	
															lever	gearbox
50	120.5	45	76	162	30	9	10	12.7	70	92	4	5/8"-11	9	26.7	4	9.5
65	139.5	48	80	175	30	9	10	12.7	70	92	4	5/8"-11	9	37.3	5	11.2
80	152.5	49	95	181	30	9	10	12.7	70	92	4	5/8"-11	9	50.1	5.5	11.6
100	190.5	55	114	200	30	11	12	15.8	70	92	8	5/8"-11	9	92.3	8.6	13.6
125	216	58	127	213	30	14	14	19.05	70	92	8	3/4"-10	9	149.5	10	15.3
150	241.5	59	140	225	30	14	14	19.05	70	92	8	3/4"-10	9	222.8	14	17.8
200	298.5	64	173	260	36	17	17	22.2	102	125	8	3/4"-10	11	429	19	30.5
250	362	70	203	292	36	22	22	28.6	102	125	12	7/8"-9	11	711.1	27.5	40.7
300	432	80	237	337	36	22	24	31.8	125	150	12	7/8"-9	13	1034.3	40	58.2
350	476	79.5	279	368	45	22	24	31.8	125	150	12	1"-8	13	1216.8	-	81.3
400	539.5	90	304	400	51	22	27	33.3	165	210	16	1"-8	22	1726.4	-	129.2
450	578	109	362	422	51	27	27	38	165	210	16	1-1/8"-7	22	2234.7	-	158.7
500	635	135	368	479	64	27	32	41.15	165	210	20	1-1/8"-7	22	3193.6	-	226.6
600	749.5	156	444	562	70	36	36	50.65	254	300	20	1-1/4"-7	18	5765.5	-	315.5

* Other nominal diameters on request.

double eccentric butterfly valve DE series, type
AV01-061

application:
Nonflammable liquids and gases with temperature up to 60 °C

nominal diameter	DN 100 – 2000
nominal pressure	PN 10/16/25/40
operating temperature	to 60 °C

mounting length: according to EN 558 SERIES 14

corrosion coating: epoxy, 250 mic RAL 7037, other coating on request

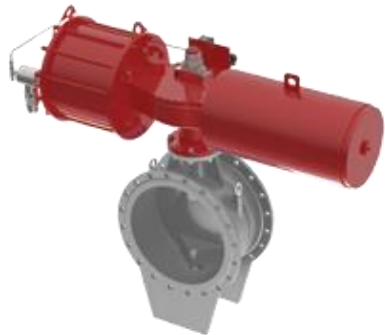
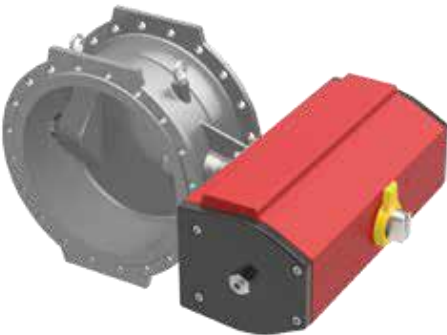
connection: flanged according to EN 1092-2, on request: flanges GOST etc.

leakage class: A, according to EN 12266

operation: hand wheel, electric actuator, pneumatic actuator on request: stem extension, hydraulic actuator



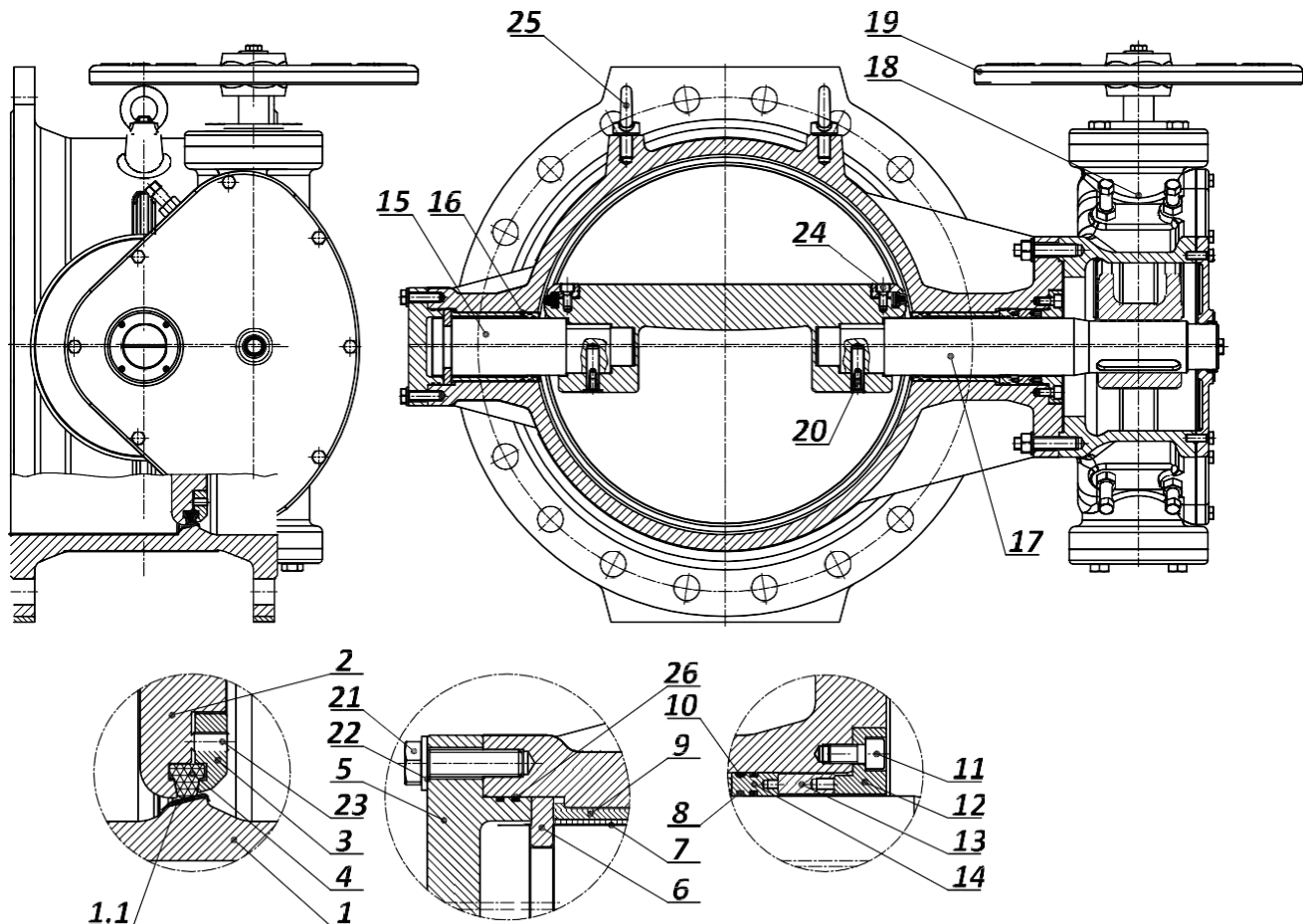
nominal diameter DN	operating pressure EN 12266 PN bar	flanges PN bar
100 – 2000	10	10
100 – 2000	16	16
100 – 1600	25	25
100 – 800	40	40



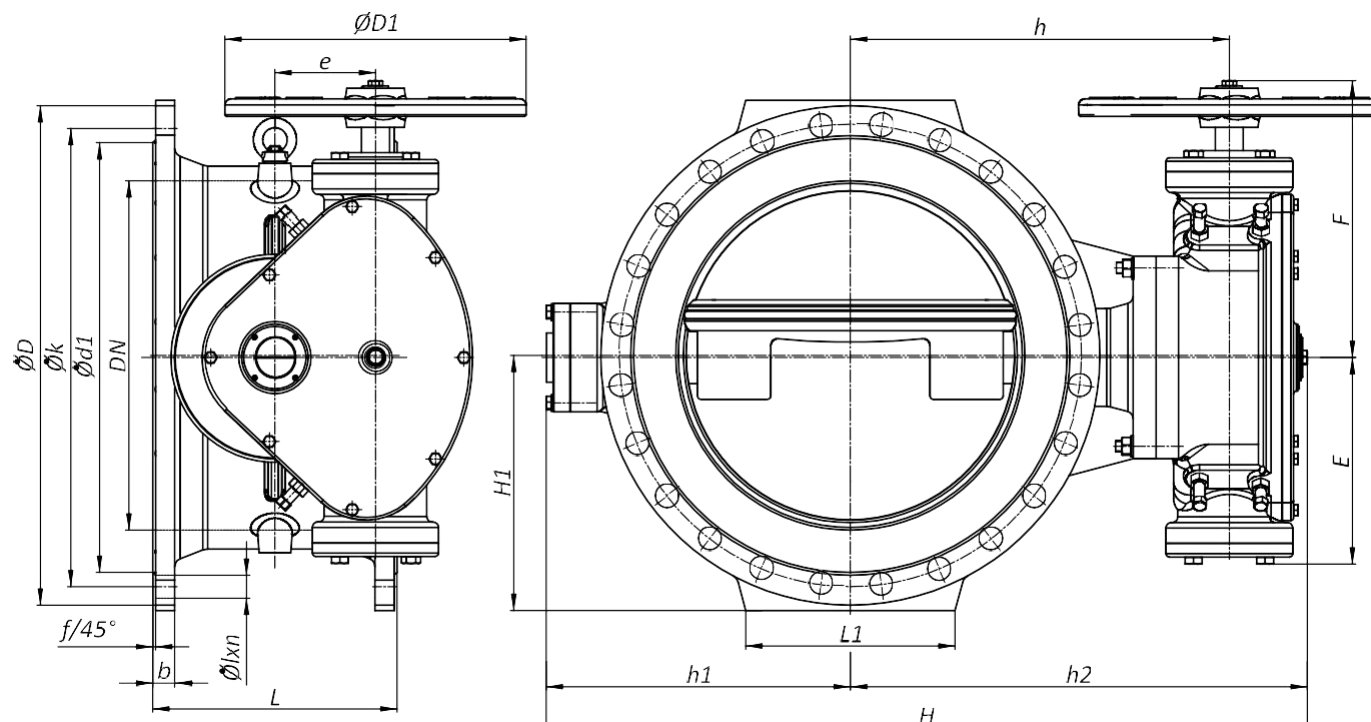
Parts list

Item	part	material	Item	part	material
1	body	EN-GJS-400-15	14	sealing bush	CC493K
1.1	body seat ring	NIRO	15	shaft	X20Cr13
2	disc	EN-GJS-400-15	16	O-ring	EPDM
3	retaining ring	X6CrNiMoTi 17-12-2	17	driven shaft	X20Cr13
4	profile sealing ring	EPDM	18	gearbox	-
5	shaft cover	EN-GJS-400-15	19	hand wheel	EN-GJS-400-15
6	axial bearing	CC493K	20	plug	X20Cr13
7	PAP bearing	PTFE/NIRO	21	screw	8.8 galv.
8	O-ring	EPDM	22	washer	galv.
9	bearing bush	CC493K	23	screw	A4
10	O-ring	EPDM	24	screw	A4
11	screw	8.8 galv.	25	eye nut	C15
12	stuffing box packing	EN-GJS-400-15	26	O-ring	EPDM
13	distance ring	EN-GJS-400-15			

Standard materials are given in the table. Other materials - on request.



dimensions PN 10

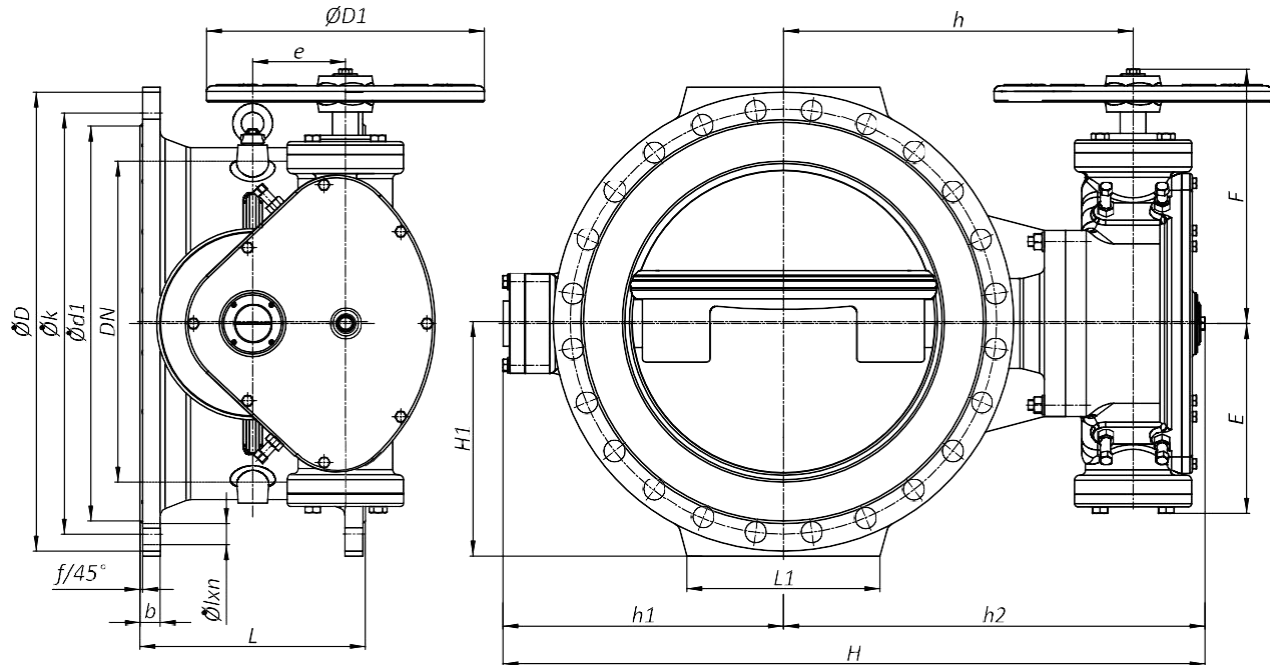


PN 10

DN	L	D	k	d ₁	l	n	b	f	h	h ₁	h ₂	H	H1	L1	D1	E	F	e	maas, kg
100	190	220	180	156	19	8	19	3	209	147	270	417	115	100	160	125	165	50	38,5
150	210	285	240	211	23	8	19	3	236	164	298	462	147,5	150	160	125	165	50	48,5
200	230	340	295	266	23	8	20	3	266	206	328	534	180	160	160	125	165	50	68,5
250	250	395	350	319	23	12	22	3	323	240	385	625	207,5	180	160	125	165	50	82,5
300	270	445	400	370	23	12	24,5	4	383	295	460	755	232,5	200	160	200	265	85	126,5
350	290	505	460	429	23	16	24,5	4	413	320	490	810	262,5	225	125	200	265	85	146,5
400	310	565	515	480	28	16	24,5	4	438	345	515	860	292,5	250	160	200	265	85	196
450	330	615	565	530	28	20	25,5	4	488	375	565	940	317,5	250	200	200	265	85	276
500	350	670	620	582	28	20	26,5	4	543	445	643	1088	345	300	250	300	390	145	349
600	390	780	725	682	31	20	30	5	584	480	684	1164	400	330	250	300	390	145	468
700	430	895	840	794	31	24	32,5	5	685	553	819	1368	457,5	400	315	400	500	230	648
800	470	1015	950	901	34	24	35	5	750	663	880	1543	517,5	450	400	400	500	230	955
900	510	1115	1050	1001	34	28	37,5	5	824	713	954	1667	567,5	550	400	400	500	230	1175
1000	550	1230	1160	1112	37	28	40	5	880	750	1010	1760	625	600	500	400	500	230	1365
1200	630	1455	1380	1328	41	32	45	5	991	871	1121	1992	742,5	700	1000	400	500	230	2200
1400	710	1675	1590	1530	44	36	46	5	1093	985	1348	2333	852,5	800	400	395	853	400	2574
1600	790	1915	1820	1750	50	40	49	5	1233	1115	188	2603	972,5	1000	720	395	853	400	5040
1800	870	2115	2020	1950	50	44	52	5	1378	1246	1633	2879	1072,5	1100	630	395	853	400	6395
2000	950	2325	2230	2150	50	48	55	5	1604,5	1494,5	1859,5	3354	1177,5	1300	630	395	853	400	9630

Other nominal diameters on request.

dimensions PN 16



PN 16

DN	L	D	k	d	l	n	b	f	h	h	h	H	H1	L1	D1	E	F	e	ka
	weight,									1	2								
100	190	220	180	156	19	8	19	3	209	147	270	417	115	100	160	125	165	50	38,5
150	210	285	240	211	23	8	19	3	236	164	298	462	147,5	150	160	125	165	50	48,5
200	230	340	295	266	23	12	20	3	291	206	353	559	180	160	160	125	165	50	68,5
250	250	405	355	319	28	12	22	3	323	240	385	625	212,5	180	160	125	165	50	82,5
300	270	460	410	370	28	12	24,5	4	383	295	460	755	240	200	125	200	265	85	146,5
350	290	520	470	429	28	16	26,5	4	413	320	460	810	270	225	200	200	265	85	159,5
400	310	580	525	480	31	16	28	4	438	345	515	860	300	250	200	200	265	85	229
450	330	640	585	548	31	20	30	4	488	375	565	940	330	250	250	200	265	85	-
500	350	715	650	609	34	20	31,5	4	543	445	643	1088	367,5	300	250	300	390	145	428
600	390	840	770	720	37	20	36	5	584	480	684	1164	430	330	400	300	390	145	518
700	430	910	840	794	37	24	39,5	5	685	553	815	1368	465	400	400	400	500	230	755
800	470	1025	950	901	41	24	43	5	750	663	880	1543	522,5	450	500	400	500	230	995
900	510	1125	1050	1001	41	28	46,5	5	824	713	954	1667	572,5	550	630	400	500	230	1255
1000	550	1255	1170	1112	44	28	50	5	880	750	1010	1760	637,5	600	1000	400	500	230	1455
1200	630	1485	1390	1328	50	32	57	5	991	871	1121	1992	757,5	700	400	400	500	230	2322
1400	710	1685	1590	1530	50	36	60	5	1093	992	1348	2340	857,5	800	500	395	853	400	2892
1600	790	1930	1820	1750	57	40	65	5	1263	1135,5	1518	2653,5	980	1000	630	395	853	400	5040
1800	870	2130	2020	1950	57	44	70	5	1378	1246	1666	2912	1080	1100	630	395	853	400	6395
2000	950	2345	2230	2150	62	48	75	5	1604,5	1519,5	1859,5	3379	1187,5	1300	630	395	853	400	9630

dimensions PN 25 / 40

PN 25

DN	L	D	k	d	l	n	b	f	h	h	h	H	H1	L1	D1	E	F	e	
	weight,																		kg
				1						1	2								
100	190	235	190	156	23	8	19	3	209	147	270	417	115	100	160	125	165	50	38,5
150	210	300	250	211	28	8	20	3	236	169	297	466	155	150	160	125	165	50	50
200	230	360	310	274	28	12	22	3	291	205,9	352	557,9	185	160	160	125	165	50	76,5
250	250	425	370	330	31	12	24,5	3	330	248	391	639	222,5	200	160	125	165	50	106,5
300	270	485	430	389	31	16	27,5	4	394	295	477	772	248	300	200	200	265	85	169
350	290	555	490	448	34	16	30	4	414	320	503	823	284,5	225	200	200	265	85	-
400	310	620	550	503	37	16	32	4	493	345	522	950	315	300	250	300	390	145	253
450	330	670	600	548	37	20	34,5	4	465	375	577	952	340	320	315	300	390	145	-
500	350	730	660	609	37	20	36,5	4	570	415	682	1107	375	400	400	300	390	145	468
600	390	845	770	720	41	20	42	5	689	535	829	1364	427,5	350	400	400	500	230	775
700	430	960	875	820	44	24	46,5	5	680	520	820	1340	485	400	500	400	500	230	-
800	470	1085	990	928	50	24	51	5	780	643	920	1573	550	500	800	400	500	230	1125
900	510	1185	1090	1028	50	28	55,5	5	789	725	1005	1730	605	550	400	400	500	230	-
1000	550	1320	1210	1140	57	28	60	5	920	796	1060	1856	665	600	400	400	500	230	2268
1200	630	1530	1420	1350	57	32	69	5	970	876	1110	1986	770	690	630	400	500	230	-
1400	710	1755	1640	1560	62	36	74	5	1093	992	1348	2340	857,5	700	500	395	853	400	2892
1600	790	1975	1860	1780	62	40	81	5	1373	1250	1628	2878	997,5	900	630	395	853	400	6080

PN 40

DN	L	D	k	d	l	n	b	f	h	h	h	H	H1	L1	D1	E	F	e	
	weight,																		kg
				1						1	2								
100	190	235	190	156	23	8	19	3	209	147	270	417	115	100	160	125	165	50	38,5
150	210	300	250	211	28	8	26	3	236	169	297	466	155	150	160	125	165	50	51,5
200	230	375	320	284	31	12	30	3	314	205,9	393	598,9	197,5	160	160	125	165	50	81,5
300	270	515	450	409	34	16	39,5	4	420,5	296,5	504	800,5	263	300	250	200	265	85	197
400	310	660	585	535	41	16	48	4	495	365	607	972	335	320	315	300	390	145	388
500	350	755	670	615	44	20	52	4	620	415	760	1175	380	400	400	400	500	230	523
600	390	890	795	735	50	20	58	5	689	549	829	1378	450	350	630	400	500	230	855
800	470	1140	1030	960	56	24	65	5	864	688	969	1657	580	500	400	400	500	230	1465

Other nominal diameters on request.

double eccentric butterfly valve welded design DE series, type AV01-062

application:

Nonflammable liquids and gases with temperature up to 60 °C

nominal diameter	DN 100 – 3000
nominal pressure	PN 6/10/16//25/40
operating temperature	to 60 °C

mounting length: according to EN 558 SERIES 14

corrosion-resistant coating: C4H according to ISO 12944

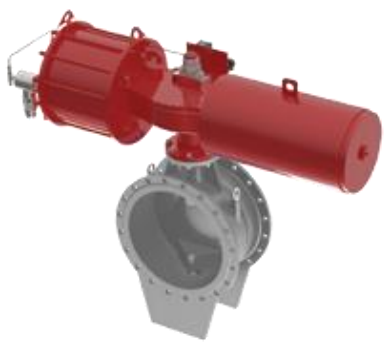
connection: flanged according to EN 1092-2,
on request: flanges GOST and other

leakage class: A, according to EN 12266

operation: hand wheel, electric actuator, request:
gearbox, stem extension, hydraulic or pneumatic actuators



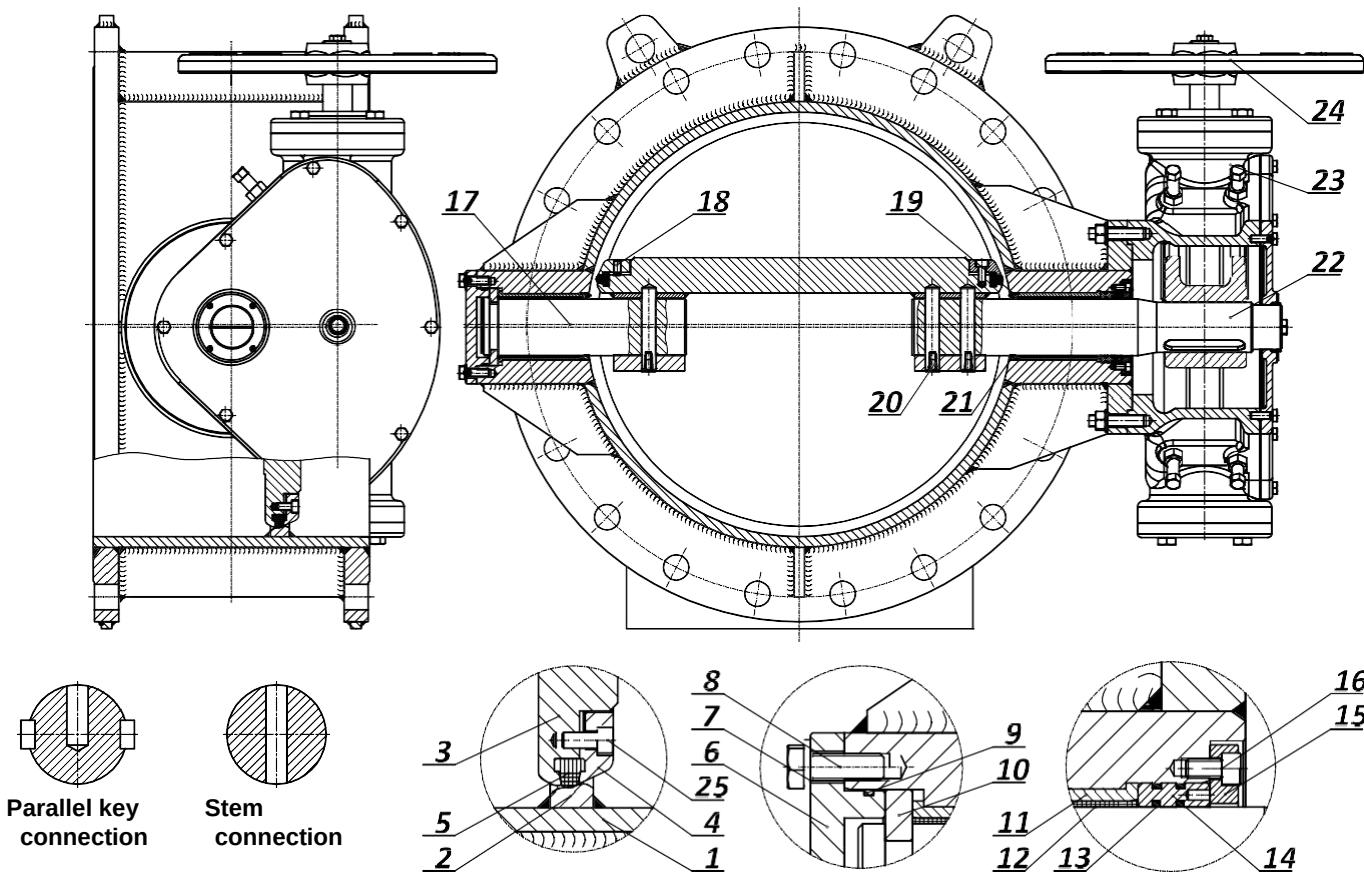
nominal diameter DN	operating pressure EN 12266 PN bar	flanges PN bar
100 – 3000	6	6
100 – 3000	10	10
100 – 2200	16	16
100 – 1200	25	25
100 – 800	40	40



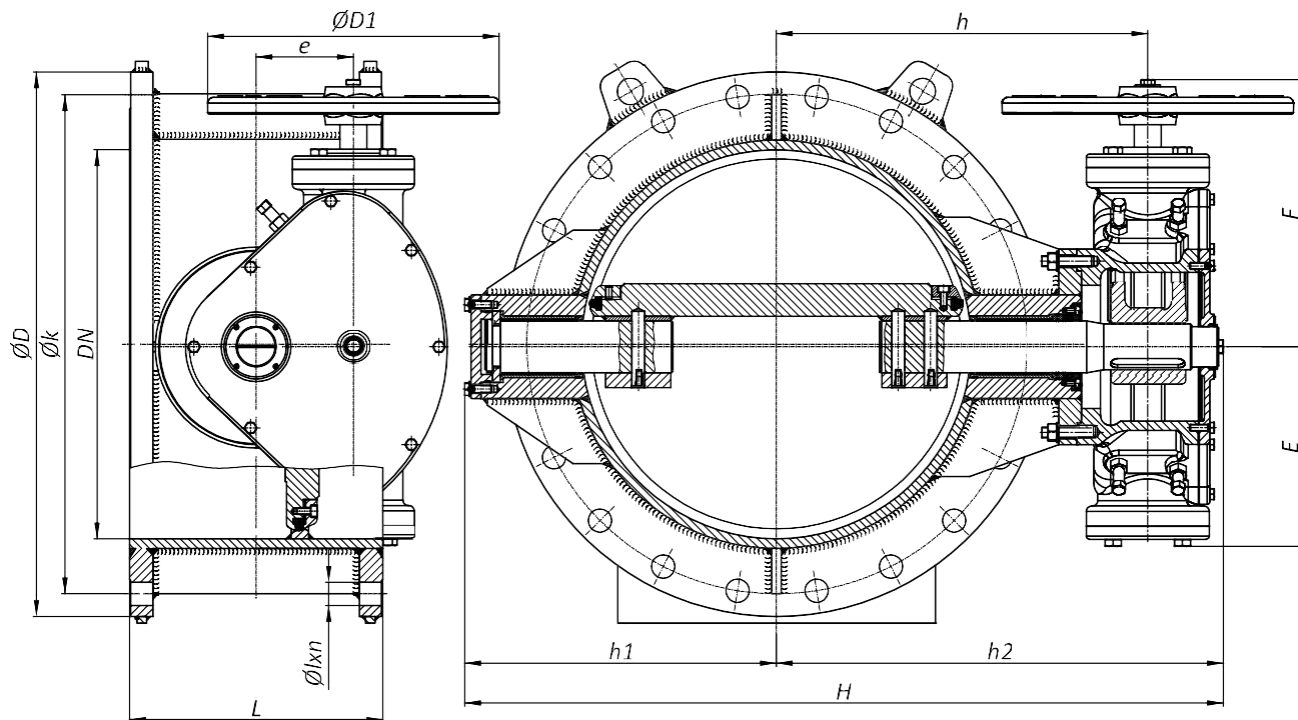
Parts list

Item	part	material	Item	part	material
1	body	S355J2+N	14	sealing bush	CC493K
2	body seat ring	X5CrNi 18-10	15	stuffing box packing	S355J2+N
3	disc	S355J2+N	16	screw	8.8 galv.
4	retaining ring	S355J2+N	17	shaft	X20Cr13
5	profile sealing ring	EPDM	18	screw	A4
6	bonnet	S355J2+N	19	O-ring	EPDM
7	washer	8 galv.	20	plug	X20Cr13
8	screw	8.8 galv.	21	O-ring	EPDM
9	O-ring	EPDM	22	driven shaft	X20Cr13
10	axial bearing	CC493K	23	gearbox	-
11	bearing bush	CC493K	24	hand wheel	EN-GJS-400-15
12	PAP bearing	PTFE/NIRO	25	screw	A4
13	O-ring	EPDM			

Standard materials are given in the table. Other materials - on request.



dimensions PN 6



PN 6

DN	L	D	k	l	n	E	F	e	h	h ₁	h ₂	H	D1	maas, kg
100	190	210	170	18	4	118	176	50	215	144	300	445	250	22
150	210	265	225	18	8	118	176	50	235	162	293	460	250	34
200	230	320	280	18	8	118	176	50	272	210	315	525	250	69
250	250	375	335	18	12	118	176	50	375	240	385	625	250	80
300	270	440	395	22	12	200	250	85	466	291	500	791	250	130
350	290	490	445	22	12	200	250	85	491	320	525	845	320	160
400	310	540	495	22	16	200	250	85	433	345	550	895	320	194
450	330	595	550	22	16	200	250	85	458	375	560	935	320	260
500	350	645	600	22	20	295	390	145	537	445	680	1125	500	400
600	390	755	705	26	20	295	390	145	597	515	745	1260	500	540
700	430	860	810	26	24	430	540	230	632	525	807	1332	640	715
800	470	975	920	30	24	430	540	230	750	655	937	1592	640	980
900	510	1075	1020	30	24	430	540	230	799	710	987	1697	640	1320
1000	550	1175	1120	30	28	430	540	230	865	760	1052	1812	640	1740
1100	590	1305	1240	33	28	430	540	230	765	810	1100	1910	640	1870
1200	630	1405	1340	33	32	430	540	230	810	855	1142	1997	640	1950
1400	710	1630	1560	36	36	375	830	400	983	975	1252	2227	640	3200
1500	750	1730	1660	36	36	375	830	400	1158	1006	1320	2326	640	3600
1600	790	1830	1760	36	40	375	830	400	1280	1100	1392	2492	640	4320
1800	870	2045	1970	39	44	375	830	400	1490	1280	1572	2852	640	5150
2000	950	2265	2180	42	48	490	1075	636	1670	1390	1911	3301	640	6700
2200	1030	2475	2390	42	52	490	1075	636	1790	1490	2031	3521	640	7380
2400	1110	2685	2600	42	56	490	1075	636	1855	1590	2096	3686	640	9350
2600	1190	2905	2810	48	60	490	1075	636	1940	1680	2181	3861	640	10000
2800	1270	3115	3020	48	64	490	1075	636	2140	1800	2400	4200	640	11720
3000	1350	3315	3220	48	68	490	1075	636	2240	1900	2481	4381	640	14500

Other nominal diameters on request.

dimensions PN 10/16

PN 10

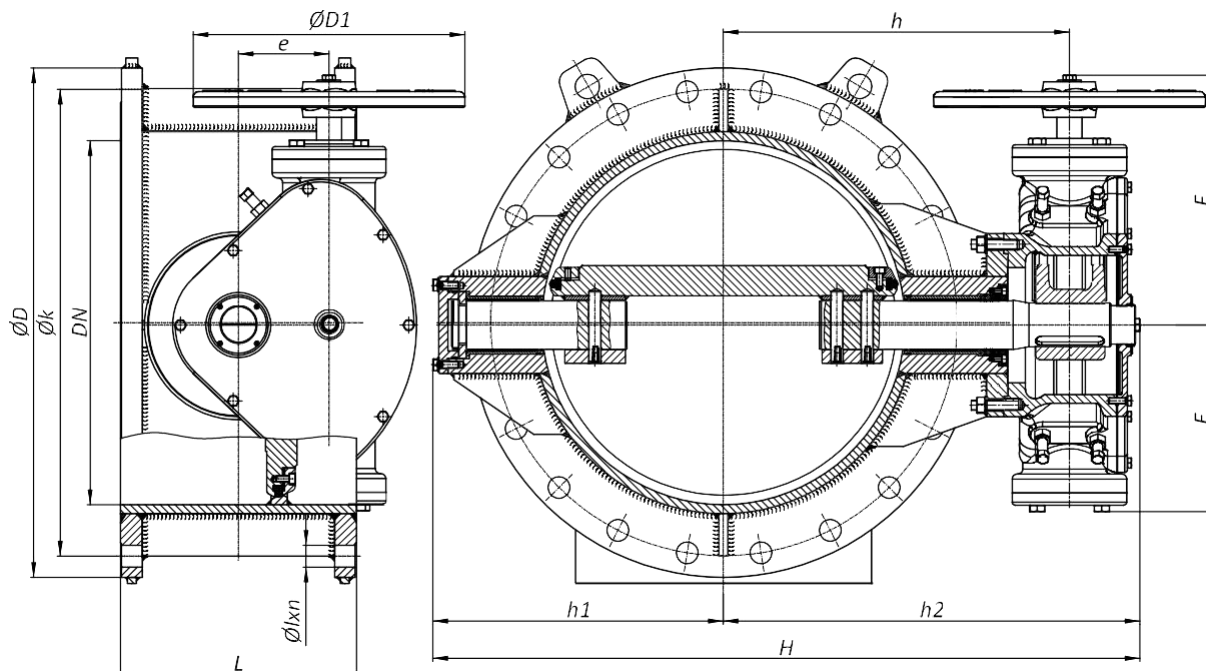
DN	L	D	k	l	n	E	F	e	h	h ₁	h ₂	H	D1	maas, kg
100	190	220	180	18	8	118	176	50	215	144	300	445	250	26
150	210	285	240	22	8	118	176	50	235	162	293	460	250	40
200	230	340	295	22	8	118	176	50	272	210	315	525	250	70
250	250	395	350	22	12	118	176	50	375	240	385	625	250	92
300	270	445	400	22	12	200	250	85	466	291	500	791	320	140
350	290	505	460	22	16	200	250	85	491	320	525	845	320	180
400	310	565	515	26	16	200	250	85	433	345	550	895	320	220
450	330	615	565	26	20	200	250	85	458	375	560	935	320	280
500	350	670	620	26	20	295	390	145	537	445	680	1125	500	400
600	390	780	725	30	20	295	390	145	597	515	745	1260	500	560
700	430	895	840	30	24	430	540	230	632	525	807	1332	640	720
800	470	1015	950	33	24	430	540	230	750	655	937	1592	640	1020
900	510	1115	1050	33	28	430	540	230	799	710	987	1697	640	1350
1000	550	1230	1160	36	28	430	540	230	865	760	1052	1812	640	1760
1100	590	1340	1270	-	-	430	540	230	765	810	1100	1910	640	1890
1200	630	1455	1380	39	32	430	540	230	810	855	1142	1997	640	2050
1400	710	1675	1590	42	36	375	830	400	983	975	1252	2227	640	3300
1500	750	1785	1700	-	-	375	830	400	1158	1006	1320	2326	640	3700
1600	790	1915	1820	48	40	375	830	400	1280	1100	1392	2492	640	4500
1800	870	2115	2020	48	44	375	830	400	1490	1280	1572	2852	640	5900
2000	950	2325	2230	48	48	490	1075	636	1670	1390	1911	3301	640	8100
2200	1030	2550	2440	56	52	490	1075	636	1790	1490	2031	3521	640	10200
2400	1110	2760	2650	56	56	490	1075	636	1855	1590	2096	3686	640	11500
2600	1190	2960	2850	56	60	490	1075	636	1940	1680	2181	3861	640	13100
2800	1270	3180	3070	56	64	490	1075	636	2140	1800	2400	4200	640	14500
3000	1350	3405	3290	62	68	490	1075	636	2240	1900	2481	4381	640	16800

Other nominal diameters on request.

PN 16

DN	L	D	k	l	n	E	F	e	h	h ₁	h ₂	H	D1	maas, kg
100	190	220	180	18	8	118	176	50	215	144	300	444	250	26
150	210	285	240	22	8	118	176	50	235	162	293	455	250	40
200	230	340	295	22	12	118	176	50	207	280	330	610	250	71
250	250	405	355	26	12	118	176	50	250	326	378	704	250	92
300	270	460	410	26	12	200	250	85	300	377	460	837	320	145
350	290	520	470	26	16	200	250	85	324	397	484	881	320	190
400	310	580	525	30	16	200	250	85	350	433	515	948	320	230
450	330	640	585	30	20	200	250	85	425	489	536	1025	320	300
500	350	715	650	33	20	295	390	145	452	546	662	1208	500	415
600	390	840	770	36	20	295	390	145	492	597	712	1309	500	570
700	430	910	840	36	24	430	540	230	535	660	792	1452	640	730
750	450	970	900	36	24	430	540	230	570	710	842	1552	640	890
800	470	1025	950	39	24	430	540	230	600	750	882	1632	640	1100
900	510	1125	1050	39	28	430	540	230	665	815	948	1763	640	1450
1000	550	1255	1170	42	28	430	540	230	715	865	998	1863	640	1900
1100	590	1355	1270	42	32	430	540	230	765	915	1040	1955	640	2200
1200	630	1485	1390	48	32	430	540	230	810	960	1092	2052	640	2350
1400	710	1685	1590	48	36	375	830	400	983	1093	1247	2340	640	4000
1500	750	1820	1710	56	36	375	830	400	1158	1006	1320	2326	640	4300
1600	790	1930	1820	56	40	375	830	400	1280	1130	1435	2565	640	5300
1800	870	2130	2020	56	44	375	830	400	1495	1290	1650	2940	640	8200
2000	950	2345	2230	62	48	330	785	440	1590	1390	1750	3140	640	9200

dimensions PN 25 / 40



PN 25

DN	L	D	k	l	n	E	F	e	h	h ₁	h ₂	H	D1	maas, kg
100	190	220	190	22	8	118	176	50	215	144	300	445	250	33
150	210	285	250	26	8	118	176	50	235	162	293	460	250	38
200	230	360	310	26	12	118	176	50	272	210	315	525	250	78
250	250	425	370	30	12	118	176	50	375	240	385	625	250	105
300	270	485	430	30	16	200	250	85	466	291	500	791	320	170
350	290	555	490	33	16	200	250	85	491	320	525	845	320	200
400	310	620	550	36	16	200	250	85	433	345	550	895	320	260
450	330	685	600	36	20	200	250	85	458	375	560	935	320	440
500	350	730	660	36	20	295	390	145	537	445	680	1125	500	460
600	390	845	770	39	20	295	390	145	597	515	745	1260	500	670
700	430	960	875	42	24	430	540	230	632	525	807	1332	640	900
800	470	1085	990	48	24	430	540	230	750	655	937	1592	640	1290
900	510	1185	1090	48	28	480	670	400	970	705	1140	1845	640	1520
1000	550	1320	1210	56	28	480	670	400	1020	760	1190	1950	640	2100
1100	590	1420	1310	56	32	480	670	400	1090	840	1260	2100	640	2800
1200	630	1530	1420	56	32	480	670	400	1170	910	1340	2250	640	3200

PN 40

DN	L	D	k	l	n	E	F	e	h	h ₁	h ₂	H	R	maas, kg
100	190	220	190	22	8	118	176	50	215	144	300	445	250	37
150	210	285	250	26	8	118	176	50	235	162	293	460	250	64
200	230	375	320	30	12	118	176	50	272	210	315	525	250	94
250	250	450	385	33	12	118	176	50	375	240	385	625	250	130
300	270	515	450	33	16	200	250	85	466	291	500	791	320	190
350	290	580	510	36	16	200	250	85	491	320	525	845	320	235
400	310	660	585	39	16	200	250	85	433	345	550	895	320	320
450	330	685	610	39	20	200	250	85	458	375	560	935	320	420
500	350	755	670	42	20	295	390	145	537	445	680	1125	500	530
600	390	890	795	48	20	295	390	145	597	515	745	1260	500	830
700	430	995	900	-	-	430	540	230	632	525	807	1332	640	1145
800	470	1140	1030	-	-	430	540	230	750	655	937	1592	640	1580

Other nominal diameters on request.

closing torques for butterfly valves

DN	M ₁		M ₂		gear reduction ratio		turns / close		Electric actuators AUMA	
	output shaft torque		gear shaft torque							
	Nm		Nm		i					
	PN 10	PN 16	PN 10	PN 16	PN 10	PN 16	PN 10	PN 16	PN 10	PN 16
80	40	70								
100	65	100								
125	80	120								
150	130	150	5	7	80:1	80:1	20	20	SA 07.2	SA 07.2
200	220	300	10	13	80:1	80:1	20	20	SA 07.2	SA 07.2
250	400	600	17	25	80:1	80:1	20	20	SA 07.2	SA 07.2
300	550	800	23	34	80:1	80:1	20	20	SA 07.2	SA 07.6
350	800	1200	33	50	80:1	80:1	20	20	SA 07.6	SA 07.6
400	1300	1900	39	57	112:1	112:1	28	28	SA 07.6	SA 07.6
450	1750	2800	50	84	112:1	112:1	28	28	SA 07.6	SA 07.6
500	2400	3800	72	88	112:1	144:1	28	36	SA 10.2	SA 07.6
600	3500	5800	81	134	144:1	144:1	36	36	SA 10.2	SA 14.2
700	5000	8700	116	143	204:1	204:1	51	51	SA 10.2	SA 14.2
800	8100	13400	133	220	204:1	204:1	51	51	SA 14.2	SA 14.2
900	11400	18300	187	300	204:1	204:1	51	51	SA 14.2	SA 14.6
1000	14900	24700	245	404	204:1	204:1	51	51	SA 14.6	SA 14.6
1100	19200	33200	313	160	204:1	816:1	51	204	SA 14.6	SA 14.2
1200	25700	41800	420	202	204:1	816:1	51	204	SA 14.6	SA 14.2
1400	38800	64200	186	234	816:1	1072:1	204	268	SA 14.2	SA 14.6
1500	44800	79400	327	291	536:1	1072:1	134	268	SA 14.6	SA 14.6
1600	57700	97000	307	260	737:1	1474:1	184	368	SA 14.6	SA 14.6
1800	78300	126000	286	335	1072:1	1474:1	268	368	SA 14.6	SA 14.6
2000	103500	162000	275	431	1474:1	1474:1	368	368	SA 14.6	SA 14.6

DN	M ₁		M ₂		gear reduction ratio		turns / close		Electric actuators AUMA	
	output shaft torque		gear shaft torque							
	Nm		Nm		i					
	PN 25	PN 40	PN 25	PN 40	PN 25	PN 40	PN 25	PN 40	PN 25	PN 40
80										
100										
125										
150	240	510	10	22	80:1	80:1	20	20	SA 07.2	SA 07.2
200	510	800	22	34	80:1	80:1	20	20	SA 07.2	SA 07.6
250	960	1500	40	45	80:1	112:1	20	28	SA 07.6	SA 07.6
300	1700	2600	50	80	112:1	112:1	28	28	SA 07.6	SA 10.2
350	2100	3300	63	99	112:1	112:1	28	28	SA 10.2	SA 10.2
400	2900	4500	87	105	112:1	144:1	28	36	SA 10.2	SA 10.2
450	4200	6100	98	142	144:1	144:1	36	36	SA 10.2	SA 14.2
500	5300	8400	123	140	144:1	204:1	36	51	SA 14.2	SA 14.2
600	8700	14300	142	245	204:1	204:1	51	51	SA 14.2	SA 14.6
700	13100	21800	220	356	204:1	204:1	51	51	SA 14.2	SA 14.6
800	22000	34700	360	167	204:1	816:1	51	204	SA 14.6	SA 14.2
900	30500	57250	148	210	816:1	1072:1	204	268	SA 14.2	SA 14.2
1000	38400	80800	185	296	816:1	1072:1	204	268	SA 14.2	SA 14.6
1100	52300	108800	192	289	1072:1	1474:1	268	368	SA 14.2	SA 14.6
1200	69300	133200	185	354	1474:1	1474:1	368	368	SA 14.2	SA 14.6

high performance double eccentric butterfly valve DE series, type AV01-064

application:

Shut-off control valve for heavy duty

nominal diameter	DN 50 – 900
nominal pressure	PN 10/16
operating temperature	-40 °C up to +250 °C

mounting length: EN 558 series 20

connection: wafer EN 1092 PN 10 and 16

seal: replaceable (RTFE or metallic)

leakage class: bi-directional – ISO 5208, EN 12266-1 rate A and API 598 (with soft seat),
one-directional – ISO 5208, EN 12266-1 rate B and API 598 (with metallic seat)

shaft seal design: gland

stem: with indication for position of the

disc

special designs:

- antistatic design: according to EN 736/3 and API 609

design pressure PS: maximum 20 bar

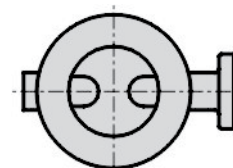
design temperature TS: -40 °C up to +250 °C (more – on request)

flow velocity: max. 5 m/s for liquids, max. 50 m/s for gases



nominal diameter DN	operating pressure EN 12266 PN bar	flanges PN bar
50 – 900	16	10
50 – 900	16	16

**Preferred position when installed:
in horizontal pipeline**



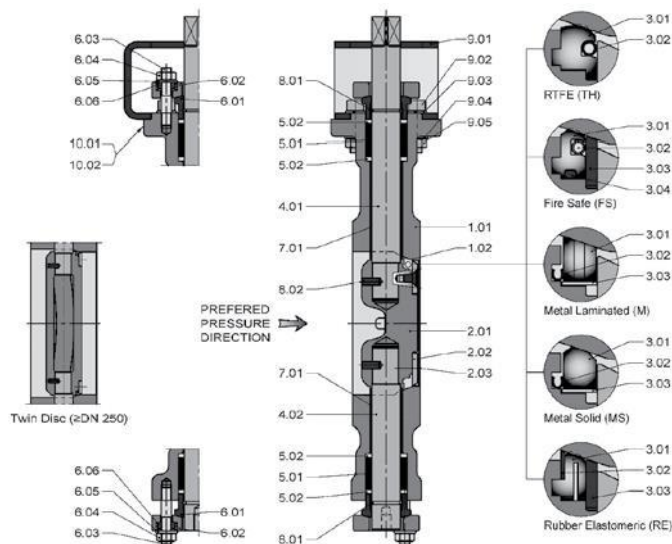
Parts list – DN – 50 – 900

Item	part	material ⁽¹⁾	EN/DIN
1.01	Body	Austenitic stainless steel Carbon steel	1.4408, EN 10213 1.0619, EN 10213
1.02	Body seat	stainless steel, Stellite	1.4370
2.01	Disc	Austenitic stainless steel ⁽²⁾ Carbon steel ⁽³⁾	1.4401, EN 10088 1.0460, EN 10273
2.02	Retaining ring	Austenitic stainless steel	1.4401, EN 10088
2.03	Screw	stainless steel – A4/70	
3.01	Disc seat ring	RTFE 15-12-3	-
3.02	Helix coil	Austenitic stainless steel	1.4401, EN 10088
4.01	Upper shaft	Austenitic steel Martensitic SS	1.3964, 1.4021, EN 10088
4.02	Lower shaft	See item 4.01	See item 4.01
5.01	Sealing ring	graphite (>99.85%)	
5.02	Taper ring	Austenitic stainless steel	1.4401, EN 10088
6.01	Packing gland	Austenitic stainless steel	1.4408, EN 10213
6.02	Gland flange	Austenitic stainless steel	1.4408, EN 10213
6.03	Stud bolt	stainless steel – A4/70	
6.04	Hexagon nut	stainless steel – A4/70	
6.05	Washer	stainless steel – A4	
6.06	Bevelled washer	stainless steel	
7.01	Sliding bearing	Austenitic stainless steel / with coating	1.4401, EN 10088
8.01	Snap ring	stainless steel	1.4310
8.02	Set screw	stainless steel – A4/70	1.4310
9.01	Bracket	Austenitic stainless steel	1.4401, EN 10088
9.02	Screw	stainless steel – A4/70	
9.03	Washer	stainless steel – A4	
9.04	Spring washer	stainless steel – A4	
9.05	Hexagon nut	stainless steel – A4/70	
10.01	Marking plate	Austenitic stainless steel	1.4401, EN 10088
10.02	Blind rivet	stainless steel – A4	

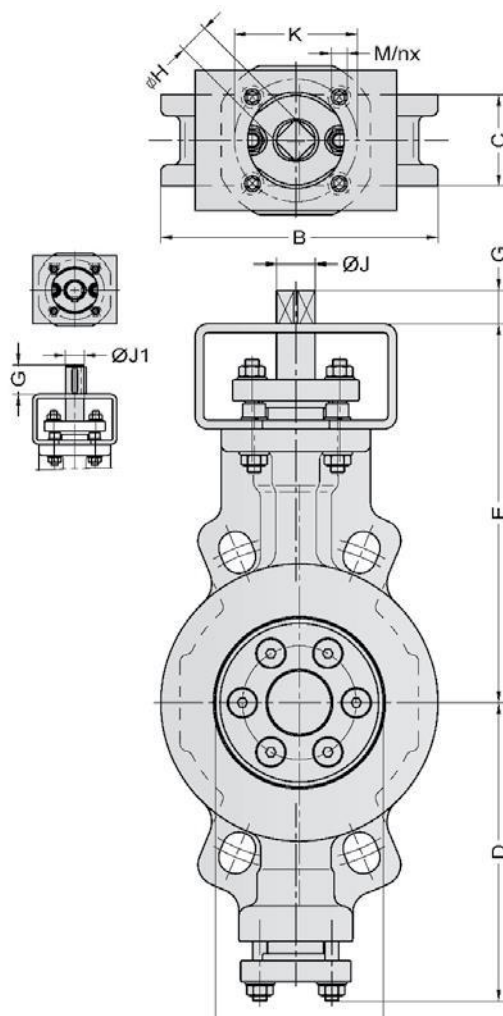
⁽¹⁾ Other materials such as Duplex, 6Mo, Titanium – on request

⁽²⁾ forged ≤ DN 200, casted ≥ DN 250, material 1.4408, EN 10213 (A 351, CF8M)

⁽³⁾ forged ≤ DN 200, casted ≥ DN 250, material 1.0619, EN 10213 (A 216, WCB)

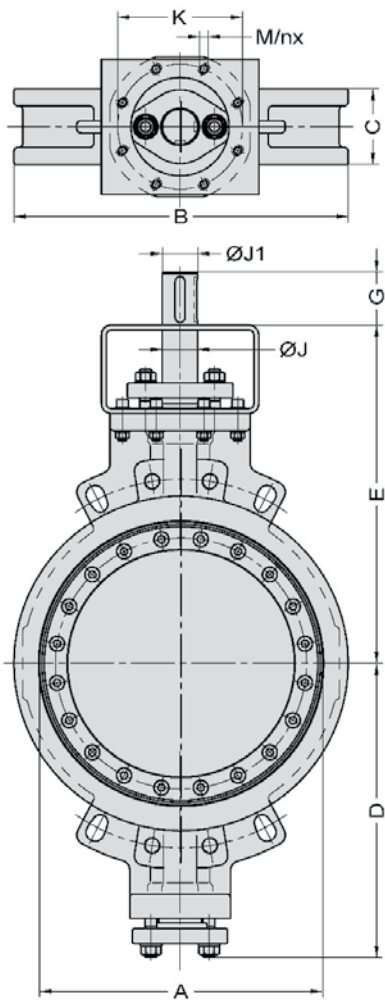


dimensions – DN – 50 – 400



DN	A	B	C	D	E	G	H	J	J1	ISO 5211	K	M	n	maas, kg
50	58	10	43	139	197	15	14	18	-	F05	50	7	4	9
65	58	120	46	139	197	15	14	18	-	F05	50	7	4	11
80	71	133	46	146	202	15	14	18	-	F05	50	7	4	8
100	96	158	52	170	216	19	17	22	-	F07	70	9	4	11
125	120	185	56	182	228	19	17	22	-	F07	70	9	4	14
150	150	210	56	196	247	19	17	22	-	F07	70	9	4	16
200	197	264	60	240	301	22	22	28	-	F10	102	11	4	19
250	250	325	68	279	334	28	27	36	-	F12	125	13	4	46
300	301	366	78	311	359	28	27	36	-	F12	125	13	4	57
350	327	430	92	358	427	65	-	45	42	F14	140	17	4	95
400	379	480	102	384	453	65	-	45	42	F14	140	17	4	117

dimensions – DN – 450 – 900



DN	A	B	C	D	E	G	J	J1	ISO 5211	K	M	n	maas, kg
450	428	527	114	493	525	78	60	60	F16	165	21	4	164
500	480	580	127	519	551	78	60	60	F16	165	21	4	199
600	571	680	154	598	688	110	72	72	F25	254	17	8	300
700	676	790	165	648	738	110	72	72	F25	254	17	8	430
750	726	850	190	719	812	130	80	80	F30	298	21	8	495
800	776	900	190	744	837	130	80	80	F30	298	21	8	560
900	876	995	203	794	887	130	80	80	F30	298	21	8	715

disc seals

RTFE Fire Safe Design (TF) (reinforced teflon)			
3.01	Disc seat ring	RTFE 15-12-3	
3.02	Helix coil	Austenitic stainless steel	1.4401, EN 10088
3.03	Fire safe seat ring	Austenitic stainless steel	1.4401, EN 10088
3.04	Sealing ring	FPM	
Rubber Elastomeric (RE)			
3.01	Disc seat ring	Rubber (FPM, NBR, EPDM)	
3.02	Metal Back-up ring	Austenitic stainless steel	1.4401, EN 10088
3.03	Fire safe seat ring	Austenitic stainless steel	1.4401, EN 10088
Metal Laminated Seat (M)			
3.1	Disc seat ring	Austenitic stainless steel + graphite	1.4401, EN 10088
3.2	C-ring	Inconel® 718	
3.3	Sinus spring	Stainless steel	
Metal Solid Seat – stainless steel (MS1)			
3.01	Disc seat ring	Austenitic stainless steel / with coating	1.4401, EN 10088
3.02	C-ring	Inconel® 718	
3.03	Sinus spring	Stainless steel	
Metal Solid Seat – Bronze (MS2)			
3.01	Disc seat ring	Aluminum bronze	1.4401, EN 10088
3.02	C-ring	Inconel® 718	1.4310,
3.03	Sinus spring	Stainless steel	1.4310,
Metal Solid Seat – Inconel (MS3)			
3.01	Disc seat ring	Inconel® 625	
3.02	C-ring	Inconel® 718	
3.03	Sinus spring	Stainless steel	

high performance double eccentric butterfly valve DE series,
type AV01-065

application:
Shut-off control valve for heavy duty

nominal diameter	DN 50 – 900
nominal pressure	PN 10/16
operating temperature	-40 °C up to +250 °C

mounting length: EN558 main series 20 /API 609

connection: wafer lugged type EN 1092 PN 10
and 16

seal: replaceable (RTFE or metallic)

leakage class: bi-directional – ISO 5208, EN 12266-1 rate A and
API 598 (with soft seat)
one-directional – ISO 5208, EN 12266-1 rate B and API 598
(with metallic seat)

shaft seal design: gland

stem: with indication for position of the
disc

special designs:
• antistatic design: according to EN 736/3 and API 609

design pressure PS: maximum 20 bar

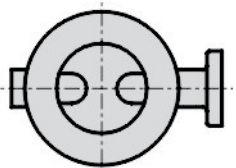
design temperature TS: -40 °C up to +250 ° C
(more on request)

flow velocity: max. 5 m/s for liquids, max. 50 m/s for gases



nominal diameter DN	operating pressure EN 12266 PN bar	flanges PN bar
50 – 900	16	10
50 – 900	16	16

**Preferred position when installed: in
horizontal or vertical pipeline**



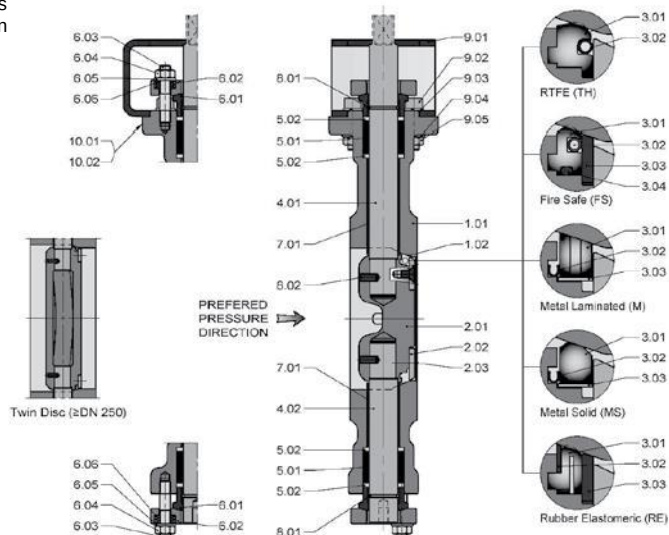
Parts list – DN – 50 – 900

Item	part	material ⁽¹⁾	EN/DIN
1.01	Body	Austenitic stainless steel, carbon steel	1.4408, EN 10213 1.0619, EN 10213
1.02	Body seat	stainless steel, Stellite	1.4370
2.01	Disc	Austenitic stainless steel ⁽²⁾ Carbon steel ⁽³⁾	1.4401, EN 10088 1.0460, EN 10273
2.02	Retaining ring	Austenitic stainless steel	1.4401, EN 10088
2.03	Screw	stainless steel – A4/70	
3.01	Disc seat ring	RTFE 15-12-3	-
3.02	Helix coil	Austenitic stainless steel	1.4401, EN 10088
4.01	Upper shaft	Austenitic steel Martensitic stainless steel	1.3964, 1.4021, EN 10088
4.02	Lower shaft	See item 4.01	See item 4.01
5.01	Sealing ring	graphite (>99.85%)	
5.02	Taper ring	Austenitic stainless steel	1.4401, EN 10088
6.01	Packing gland	Austenitic stainless steel	1.4408, EN 10213
6.02	Gland flange	Austenitic stainless steel	1.4408, EN 10213
6.03	Stud bolt	stainless steel – A4/70	
6.04	Hexagon nut	stainless steel – A4/70	
6.05	Washer	stainless steel – A4	
6.06	Bevelled washer	stainless steel	
7.01	Sliding bearing	Austenitic stainless steel / with coating	1.4401, EN 10088
8.01	Snap ring	stainless steel	1.4310
8.02	Set screw	stainless steel – A4/70	1.4310
9.01	Bracket	Austenitic stainless steel	1.4401, EN 10088
9.02	Screw	stainless steel – A4/70	
9.03	Washer	stainless steel – A4	
9.04	Spring washer	stainless steel – A4	
9.05	Hexagon nut	stainless steel – A4/70	
10.01	Marking plate	Austenitic stainless steel	1.4401, EN 10088
10.02	Blind rivet	stainless steel – A4	

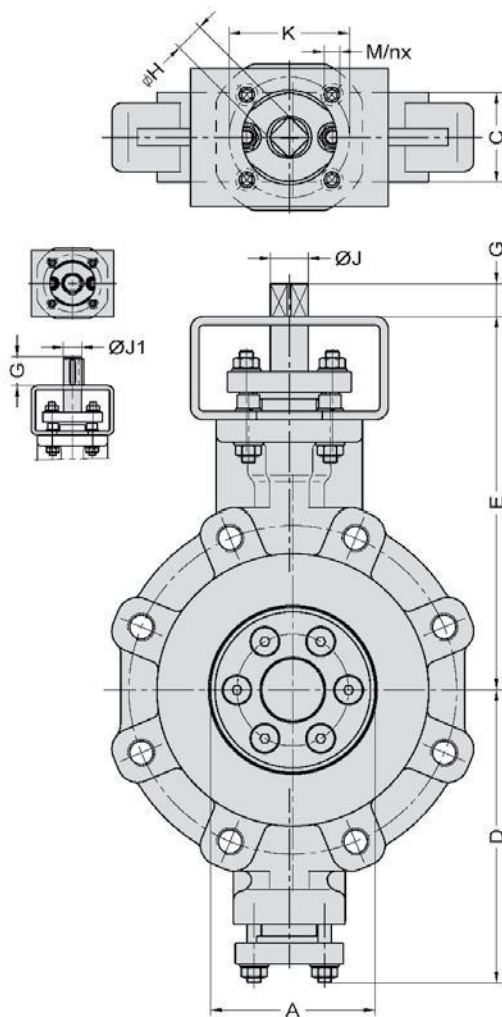
⁽¹⁾ Other materials such as Duplex, 6Mo, Titanium – on request

⁽²⁾ forged ≤ DN 200, casted ≥ DN 250, material 1.4408, EN 10213 (A 351, CF8M)

⁽³⁾ forged ≤ DN 200, casted ≥ DN 250, material 1.0619, EN 10213 (A 216, WCB)

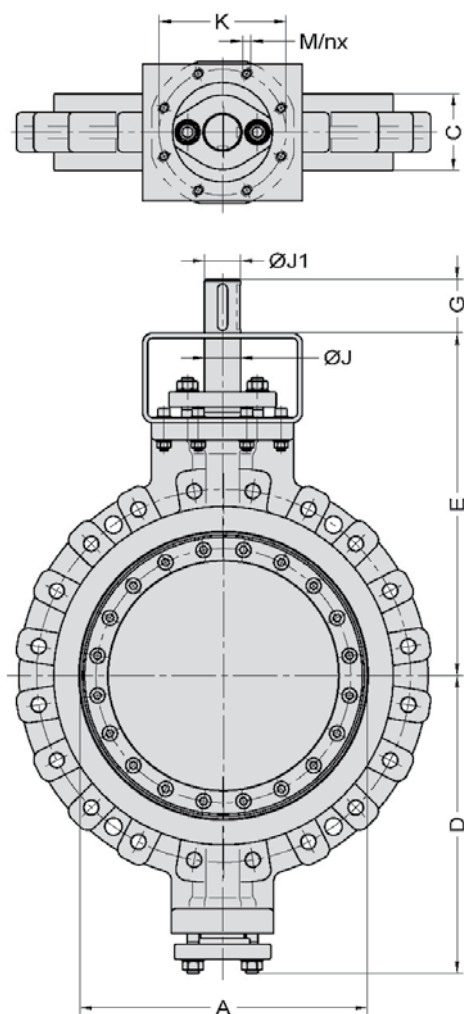


dimensions – DN – 50 – 400



DN	A	C	D	E	G	H	J	J1	ISO 5211	K	M	n	maas, kg
50	58	43	139	197	15	14	18	-	F05	50	7	4	9
65	58	46	139	197	15	14	18	-	F05	50	7	4	11
80	71	46	146	202	15	14	18	-	F05	50	7	4	12
100	96	52	170	216	19	17	22	-	F07	70	9	4	15
125	120	56	182	228	19	17	22	-	F07	70	9	4	20
150	150	56	196	247	19	17	22	-	F07	70	9	4	23
200	197	60	240	301	22	22	28	-	F10	102	11	4	32
250	250	68	279	334	28	27	36	-	F12	125	13	4	64
300	301	78	311	359	28	27	36	-	F12	125	13	4	82
350	327	92	358	427	65	-	45	42	F14	140	17	4	110
400	379	102	384	453	65	-	45	42	F14	140	17	4	162

dimensions – DN – 450 – 900



DN	A	C	D	E	G	J	J1	ISO 5211	K	M	n	maas, kg
450	428	114	493	525	78	60	60	F16	165	21	4	191
500	480	127	519	551	78	60	60	F16	165	21	4	251
600	571	154	598	688	110	72	72	F25	254	17	8	400
700	676	165	648	738	110	72	72	F25	254	17	8	530
750	726	190	719	812	130	80	80	F30	298	21	8	600
800	776	190	744	837	130	80	80	F30	298	21	8	690
900	876	203	794	887	130	80	80	F30	298	21	8	970

disc seals

RTFE Fire Safe Design (TF) (reinforced teflon)			
3.01	Disc seat ring	RTFE 15-12-3	
3.02	Helix coil	Austenitic stainless steel	1.4401, EN 10088
3.03	Fire safe seat ring	Austenitic stainless steel	1.4401, EN 10088
3.04	Sealing ring	FPM	
Rubber Elastomeric (RE)			
3.01	Disc seat ring	Rubber (FPM, NBR, EPDM)	
3.02	Metal Back-up ring	Austenitic stainless steel	1.4401, EN 10088
3.03	Fire safe seat ring	Austenitic stainless steel	1.4401, EN 10088
Metal Laminated Seat (M)			
3.1	Disc seat ring	Austenitic stainless steel + graphite	1.4401, EN 10088
3.2	C-ring	Inconel® 718	
3.3	Sinus spring	Stainless steel	
Metal Solid Seat – stainless steel (MS1)			
3.01	Disc seat ring	Austenitic stainless steel / with coating	1.4401, EN 10088
3.02	C-ring	Inconel® 718	
3.03	Sinus spring	Stainless steel	
Metal Solid Seat – Bronze (MS2)			
3.01	Disc seat ring	Aluminum bronze	1.4401, EN 10088
3.02	C-ring	Inconel® 718	1.4310
3.03	Sinus spring	Stainless steel	1.4310
Metal Solid Seat – Inconel (MS3)			
3.01	Disc seat ring	Inconel® 625	
3.02	C-ring	Inconel® 718	
3.03	Sinus spring	Stainless steel	

high performance double eccentric butterfly valve DE series, type AV01-066

application:

Shut-off control valve for heavy duty

nominal diameter	DN 50 – 600
nominal pressure	PN 25/40
operating temperature	-40 °C up to +250 °C

mounting length: EN 558-1/2 series 16

corrosion coating: 100 mic, RAL 7037, other coating on request

connection: wafer EN 1092 PN 25 and 40

seal: replaceable (RTFE or metallic)

leakage class: bi-directional – ISO 5208 rate A (with soft seat)

one-directional – ISO 5208 rate B (with metallic seat)

shaft seal design: gland

stem: with indication for position of the

disc

special designs:

- antistatic design: according to EN 736/3 and API 609

design pressure PS: maximum 50 bar

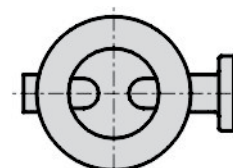
design temperature TS: -40 °C up to +250 °C (more on request)

flow velocity: max. 5 m/s for liquids, max. 50 m/s for gases



nominal diameter DN	operating pressure EN 12266 PN bar	flanges PN bar
50 – 600	16	25
50 – 600	16	40

**Preferred position when installed:
in horizontal pipeline**



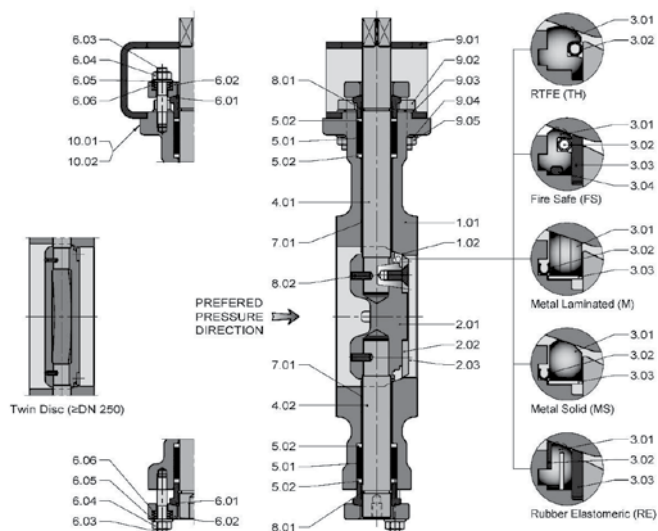
Parts list – DN – 50 – 600

Item	part	material ⁽¹⁾	EN/DIN
1.01	Body	Austenitic stainless steel Carbon steel	1.4408, EN 10213 1.0619, EN 10213
1.02	Body seat	stainless steel, Stellite	1.4370
2.01	Disc	Austenitic stainless steel ⁽²⁾ Carbon steel ⁽³⁾	1.4401, EN 10088 1.0460, EN 10273
2.02	Retaining ring	Austenitic stainless steel	1.4401, EN 10088
2.03	Screw	stainless steel – A4/70	
3.01	Disc seat ring	RTFE 15-12-3	-
3.02	Helix coil	Austenitic stainless steel	1.4401, EN 10088
4.01	Upper shaft	Austenitic steel Martensitic stainless steel	1.3964, 1.4021, EN 10088
4.02	Lower shaft	See item 4.01	See item 4.01
5.01	Sealing ring	graphite (>99.85%)	
5.02	Taper ring	Austenitic stainless steel	1.4401, EN 10088
6.01	Packing gland	Austenitic stainless steel	1.4408, EN 10213
6.02	Gland flange	Austenitic stainless steel	1.4408, EN 10213
6.03	Stud bolt	stainless steel – A4/70	
6.04	Hexagon nut	stainless steel – A4/70	
6.05	Washer	stainless steel – A4	
6.06	Bevelled washer	stainless steel	
7.01	Sliding bearing	Austenitic stainless steel / with coating	1.4401, EN 10088
8.01	Snap ring	stainless steel	1.4310
8.02	Set screw	stainless steel – A4/70	1.4310
9.01	Bracket	Austenitic stainless steel	1.4401, EN 10088
9.02	Screw	stainless steel – A4/70	
9.03	Washer	stainless steel – A4	
9.04	Spring washer	stainless steel – A4	
9.05	Hexagon nut	stainless steel – A4/70	
10.01	Marking plate	Austenitic stainless steel	1.4401, EN 10088
10.02	Blind rivet	stainless steel – A4	

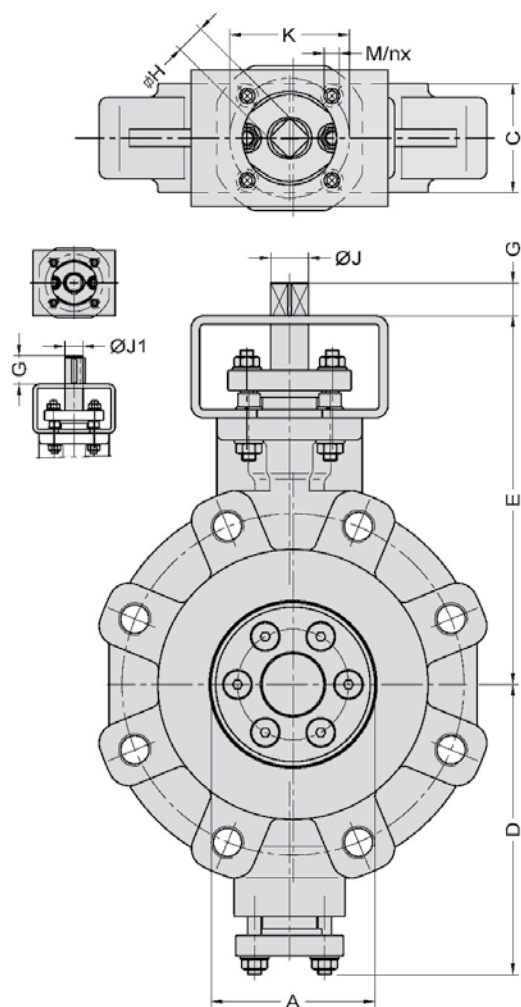
⁽¹⁾ Other materials such as Duplex, 6Mo, Titanium – on request

⁽²⁾ forged ≤ DN 125, casted ≥ DN 150, material 1.4408, EN 10213 (A 351, CF8M)

⁽³⁾ forged ≤ DN 125, casted ≥ DN 150, material 1.0619, EN 10213 (A 216, WCB)

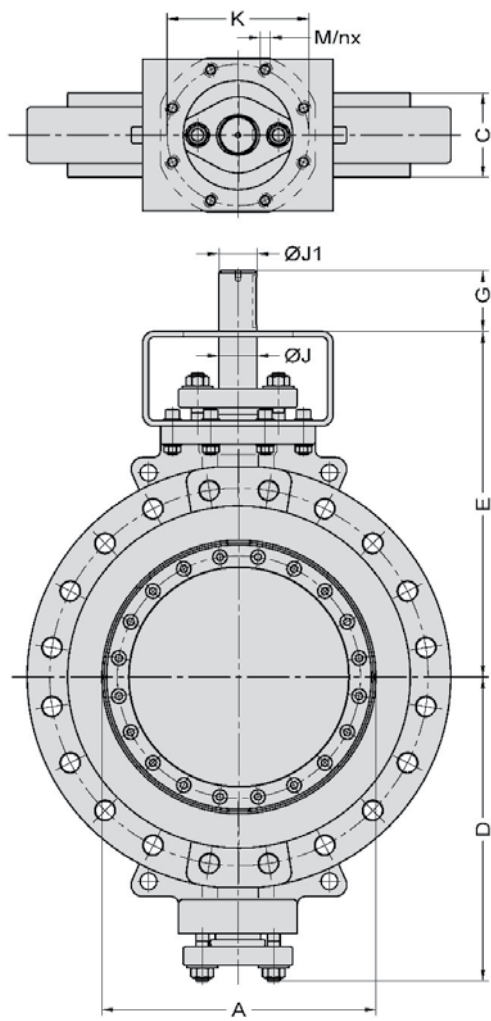


dimensions – DN – 50 – 400



DN	A	B	C	D	E	G	H	J	J1	ISO 5211	K	M	n	maas, kg
50	58	10	43	139	197	15	14	18	-	F05	50	7	4	9
65	58	120	46	139	197	15	14	18	-	F05	50	7	4	11
80	71	135	64	157	204	19	17	22	-	F07	70	9	4	16
100	96	158	64	170	216	19	17	22	-	F07	70	9	4	19
125	120	188	70	202	263	22	22	28	-	F10	102	11	4	31
150	150	215	76	217	278	22	22	28	-	F10	102	11	4	44
200	197	276	89	252	307	28	27	36	-	F12	125	13	4	67
250	251	330	114	319	388	65	-	45	42	F14	140	17	4	123
300	301	389	114	343	413	65	-	45	42	F14	140	17	4	150
350	323	430	127	441	473	78	-	60	60	F16	165	21	4	260
400	372	505	140	495	585	110	-	72	72	F25	254	17	8	366

dimensions – DN – 450 – 600



DN	A	B	C	D	E	G	J	J1	ISO 5211	K	M	n	maas, kg
450	425	547	152	521	611	110	72	72	F25	254	17	8	413
500	477	610	152	550	642	110	72	72	F25	254	17	8	474
600	559	720	178	640	728	130	80	80	F30	298	21	8	788

disc seals

RTFE Fire Safe Design (TF)

3.1	Disc seat ring	RTFE 15-12-3	
3.2	Helix coil	Austenitic stainless steel	1.4401, EN 10088
3.3	Fire safe seat ring	Austenitic stainless steel	1.4401, EN 10088
3.4	Sealing ring	FPM	

Rubber Elastomeric (RE)

3.1	Disc seat ring	Rubber (FPM, NBR, EPDM)	
3.2	Metal Back-up ring	Austenitic stainless steel	1.4401, EN 10088
3.3	Fire safe seat ring	Austenitic stainless steel	1.4401, EN 10088

Metal Laminated Seat (M)

3.1	Disc seat ring	Austenitic stainless steel + graphite	1.4401, EN 10088
3.2	C-ring	Inconel® 718	
3.3	Sinus spring	Stainless steel	

Metal Solid Seat – stainless steel (MS1)

3.1	Disc seat ring	Austenitic stainless steel / with coating	1.4401, EN 10088
3.2	C-ring	Inconel® 718	
3.3	Sinus spring	Stainless steel	

Metal Solid Seat – Bronze (MS2)

3.01	Disc seat ring	Aluminum bronze	
3.02	C-ring	Inconel® 718	
3.03	Sinus spring	Stainless steel	

Metal Solid Seat – Inconel (MS3)

3.01	Disc seat ring	Inconel® 625	
3.02	C-ring	Inconel® 718	
3.03	Sinus spring	Stainless steel	

**high performance double eccentric butterfly valve DE series,
type AV01-067**

application:
Shut-off control valve for heavy duty

nominal diameter	DN 50 – 900
nominal pressure	PN 10/16
operating temperature	-40 °C up to +250 °C

mounting length: EN 558 series13

connection: flanged EN 1092 PN 10 and 16

seal: replaceable

leakage class: bi-directional – ISO 5208,
EN 12266-1
rate A and API 598 (with soft seat), one-directional –
ISO 5208, EN 12266-1 rate B and API 598 (with
metallic seat)

shaft seal design: gland

stem: with indication for position of the

disc special designs:
• antistatic design: according to EN 736/3
and API 609

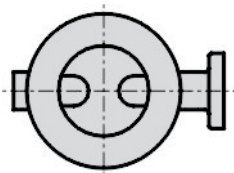
design pressure PS: maximum 20 bar

design temperature TS: -40 °C up to +250 °C
(more – on request)

flow velocity: max. 5 m/s for liquids, max. 50 m/s for gases



**Preferred position when installed:
in horizontal pipeline**



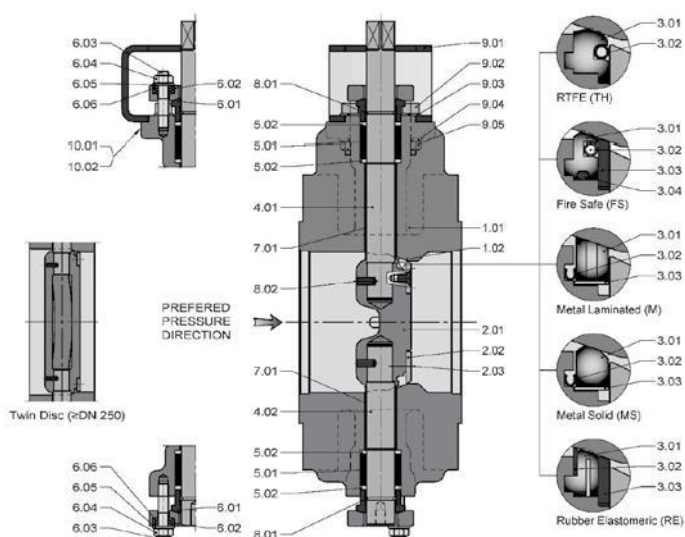
Parts list – DN – 50 – 900

Item	part	material ⁽¹⁾	EN/DIN
1.01	Body	Austenitic stainless steel Carbon steel	1.4408, EN 10213 1.0619, EN 10213
1.02	Body seat	stainless steel, Stellite	1.4370
2.01	Disc	Austenitic stainless steel ⁽²⁾ Carbon steel ⁽³⁾	1.4401, EN 10088 1.0460, EN 10273
2.02	Retaining ring	Austenitic stainless steel	1.4401, EN 10088
2.03	Screw	stainless steel – A4/70	
3.01	Disc seat ring	RTFE 15-12-3	-
3.02	Helix coil	Austenitic stainless steel	1.4401, EN 10088
4.01	Upper shaft	Austenitic steel Martensitic stainless steel	1.3964, 1.4021, EN 10088
4.02	Lower shaft	See item 4.01	See item 4.01
5.01	Sealing ring	graphite (>99.85%)	
5.02	Taper ring	Austenitic stainless steel	1.4401, EN 10088
6.01	Packing gland	Austenitic stainless steel	1.4408, EN 10213
6.02	Gland flange	Austenitic stainless steel	1.4408, EN 10213
6.03	Stud bolt	stainless steel – A4/70	
6.04	Hexagon nut	stainless steel – A4/70	
6.05	Washer	stainless steel – A4	
6.06	Bevelled washer	stainless steel	
7.01	Sliding bearing	Austenitic stainless steel / with coating	1.4401, EN 10088
8.01	Snap ring	stainless steel	1.4310
8.02	Set screw	stainless steel – A4/70	1.4310
9.01	Bracket	Austenitic stainless steel	1.4401, EN 10088
9.02	Screw	stainless steel – A4/70	
9.03	Washer	stainless steel – A4	
9.04	Spring washer	stainless steel – A4	
9.05	Hexagon nut	stainless steel – A4/70	
10.01	Marking plate	Austenitic stainless steel	1.4401, EN 10088
10.02	Blind rivet	stainless steel – A4	

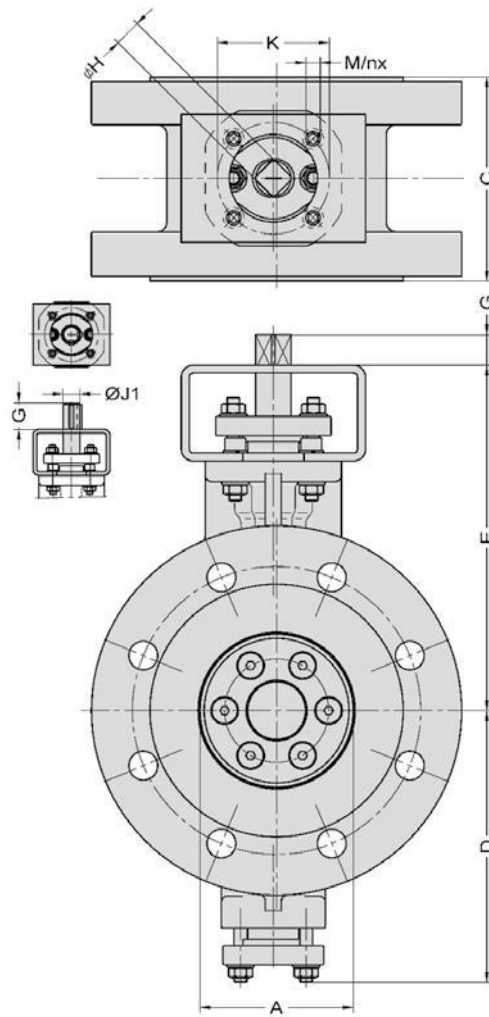
⁽¹⁾ Other materials such as Duplex, 6Mo, Titanium – on request

⁽²⁾ forged ≤ DN 125, casted ≥ DN 150, material 1.4408, EN 10213 (A 351, CF8M)

⁽³⁾ forged ≤ DN 125, casted ≥ DN 150, material 1.0619, EN 10213 (A 216, WCB)

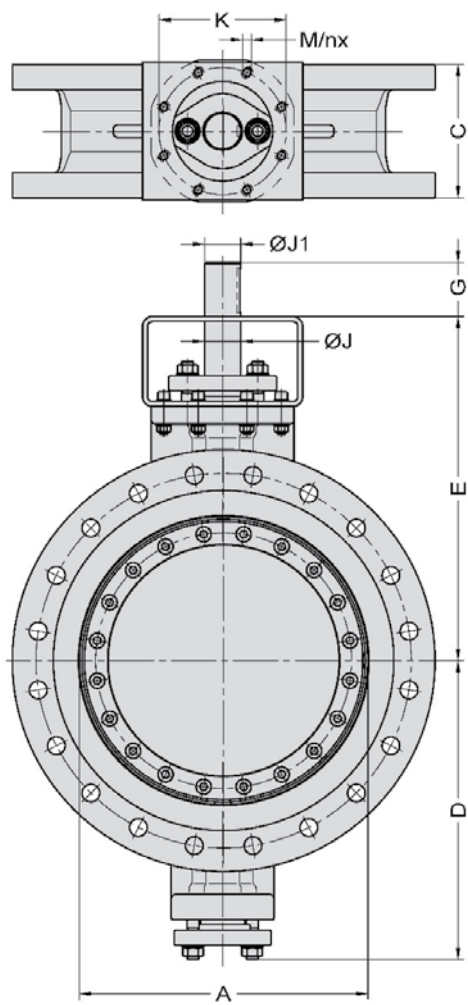


dimensions – DN – 50 – 400



DN	A	C	D	E	G	H	J	J1	ISO 5211	K	M	n
50	58	108	139	197	15	14	18	-	F05	50	7	4
65	58	112	139	197	15	14	18	-	F05	50	7	4
80	71	114	146	202	15	14	18	-	F05	50	7	4
100	96	127	170	216	19	17	22	-	F07	70	9	4
125	120	140	182	228	19	17	22	-	F07	70	9	4
150	150	140	196	247	19	17	22	-	F07	70	9	4
200	197	152	240	301	22	22	28	-	F10	102	11	4
250	250	165	279	334	28	27	36	-	F12	125	13	4
300	301	178	311	359	28	27	36	-	F12	125	13	4
350	327	190	358	427	65	-	45	42	F14	140	17	4
400	379	216	384	453	65	-	45	42	F14	140	17	4

dimensions – DN – 450 – 900



DN	A	C	D	E	G	J	J1	ISO 5211	K	M	n
450	428	222	493	525	78	60	60	F16	165	21	4
500	480	229	519	551	78	60	60	F16	165	21	4
600	571	267	598	688	110	72	72	F25	254	17	8
700	676	292	648	738	110	72	72	F25	254	17	8
750	726	318	719	812	130	80	80	F30	298	21	8
800	776	318	744	837	130	80	80	F30	298	21	8
900	876	330	794	887	130	80	80	F30	298	21	8

disc seals

RTFE Fire Safe Design (TF) (reinforced teflon)			
3.01	Disc seat ring	RTFE 15-12-3	
3.02	Helix coil	Austenitic stainless steel	1.4401, EN 10088
3.03	Fire safe seat ring	Austenitic stainless steel	1.4401, EN 10088
3.04	Sealing ring	FPM	
Rubber Elastomeric (RE)			
3.01	Disc seat ring	Rubber (FPM, NBR, EPDM)	
3.02	Metal Back-up ring	Austenitic stainless steel	1.4401, EN 10088
3.03	Fire safe seat ring	Austenitic stainless steel	1.4401, EN 10088
Metal Laminated Seat (M)			
3.1	Disc seat ring	Austenitic stainless steel + graphite	1.4401, EN 10088
3.2	C-ring	Inconel® 718	
3.3	Sinus spring	Stainless steel	
Metal Solid Seat – stainless steel (MS1)			
3.01	Disc seat ring	Austenitic stainless steel / with coating	1.4401, EN 10088
3.02	C-ring	Inconel® 718	
3.03	Sinus spring	Stainless steel	
Metal Solid Seat – Bronze (MS2)			
3.01	Disc seat ring	Aluminum bronze	1.4401, EN 10088
3.02	C-ring	Inconel® 718	1.4310
3.03	Sinus spring	Stainless steel	1.4310
Metal Solid Seat – Inconel (MS3)			
3.01	Disc seat ring	Inconel® 625	
3.02	C-ring	Inconel® 718	
3.03	Sinus spring	Stainless steel	

high performance double eccentric butterfly valve DE series, type AV01-068

application:

Shut-off control valve for heavy duty

nominal diameter	DN 50 – 600
nominal pressure	PN 25/40
operating temperature	-40 °C up to +250 °C

mounting length: EN558 main series 14

connection: wafer lugged EN 1092 PN 25 and 40

seal: replaceable (RTFE or metallic)

leakage class:

bi-directional – ISO 5208 rate A, EN 12266
(with soft seat);
one-directional – ISO 5208 rate B
(with metallic seat)

shaft seal design: gland

stem: with indication for position of the
disc

special designs:

- antistatic design: according to EN 736/3
and API 609

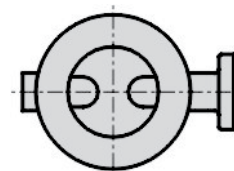
design pressure PS: maximum 50 bar

design temperature TS: -40 °C up to +250 °C
(more – on request)

flow velocity: max. 5 m/s for liquids, max. 50 m/s for gases



Preferred position when installed:
in horizontal pipeline



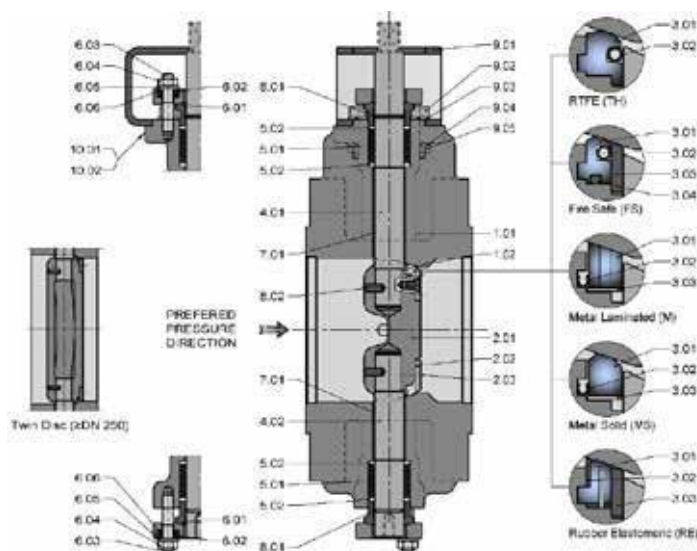
Parts list – DN – 50 – 900

Item	part	material ⁽¹⁾	EN/DIN
1.01	Body	Austenitic stainless steel Carbon steel	1.4408, EN 10213 1.0619, EN 10213
1.02	Body seat	stainless steel, Stellite	1.4370
2.01	Disc	Austenitic stainless steel ⁽²⁾ Carbon steel ⁽³⁾	1.4401, EN 10088 1.0460, EN 10273
2.02	Retaining ring	Austenitic stainless steel	1.4401, EN 10088
2.03	Screw	stainless steel – A4/70	
3.01	Disc seat ring	RTFE 15-12-3	-
3.02	Helix coil	Austenitic stainless steel	1.4401, EN 10088
4.01	Upper shaft	Austenitic steel Martensitic stainless steel	1.3964, 1.4021, EN 10088
4.02	Lower shaft	See item 4.01	See item 4.01
5.01	Sealing ring	graphite (>99.85%)	
5.02	Taper ring	Austenitic stainless steel	1.4401, EN 10088
6.01	Packing gland	Austenitic stainless steel	1.4408, EN 10213
6.02	Gland flange	Austenitic stainless steel	1.4408, EN 10213
6.03	Stud bolt	stainless steel – A4/70	
6.04	Hexagon nut	stainless steel – A4/70	
6.05	Washer	stainless steel – A4	
6.06	Bevelled washer	stainless steel	
7.01	Sliding bearing	Austenitic stainless steel / with coating	1.4401, EN 10088
8.01	Snap ring	stainless steel	1.4310
8.02	Set screw	stainless steel – A4/70	1.4310
9.01	Bracket	Austenitic stainless steel	1.4401, EN 10088
9.02	Screw	stainless steel – A4/70	
9.03	Washer	stainless steel – A4	
9.04	Spring washer	stainless steel – A4	
9.05	Hexagon nut	stainless steel – A4/70	
10.01	Marking plate	Austenitic stainless steel	1.4401, EN 10088
10.02	Blind rivet	stainless steel – A4	

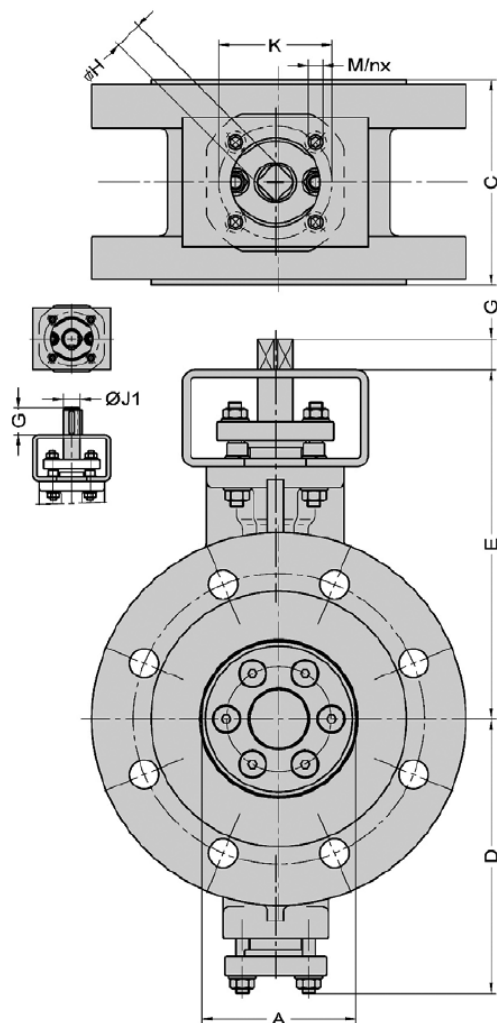
⁽¹⁾ Other materials such as Duplex, 6Mo, Titanium – on request

⁽²⁾ forged ≤ DN 125, casted ≥ DN 150, material 1.4408, EN 10213 (A 351, CF8M)

⁽³⁾ forged ≤ DN 125, casted ≥ DN 150, material 1.0619, EN 10213 (A 216, WCB)

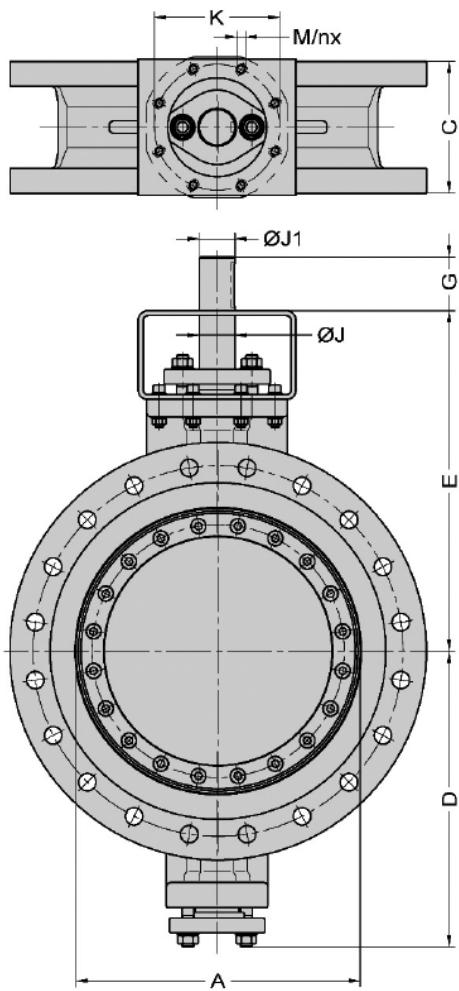


dimensions – DN – 50 – 400



DN	A	C	D	E	G	H	J	J1	ISO 5211	K	M	n
50	58	150	139	197	15	14	18	-	F05	50	7	4
65	58	170	139	197	15	14	18	-	F07	50	7	4
80	71	180	157	204	19	17	22	-	F07	70	9	4
100	96	190	170	216	19	17	22	-	F10	70	9	4
125	120	200	202	263	22	22	28	-	F10	102	11	4
150	150	210	217	278	22	22	28	-	F12	102	11	4
200	197	230	252	307	28	27	36	-	FI 4	125	13	4
250	251	250	319	388	65	-	45	42	F14	140	17	4
300	301	270	343	413	65	-	45	42	F16	140	17	4
350	323	290	441	473	78	-	60	60	F25	165	21	4
400	372	310	495	585	110	-	72	72	F14	254	17	8

dimensions – DN – 450 – 600



DN	A	C	D	E	G	J	J1	ISO 5211	K	M	n
450	425	330	521	611	110	72	72	F25	254	17	8
500	477	350	550	642	100	72	72	F25	254	17	8
600	559	390	640	728	130	80	80	F30	298	21	8

disc seals

RTFE Fire Safe Design (TF) (reinforced teflon)			
3.01	Disc seat ring	RTFE 15-12-3	
3.02	Helix coil	Austenitic stainless steel	1.4401, EN 10088
3.03	Fire safe seat ring	Austenitic stainless steel	1.4401, EN 10088
3.04	Sealing ring	FPM	
Rubber Elastomeric (RE)			
3.01	Disc seat ring	Rubber (FPM, NBR, EPDM)	
3.02	Metal Back-up ring	Austenitic stainless steel	1.4401, EN 10088
3.03	Fire safe seat ring	Austenitic stainless steel	1.4401, EN 10088
Metal Laminated Seat (M)			
3.1	Disc seat ring	Austenitic stainless steel + graphite	1.4401, EN 10088
3.2	C-ring	Inconel® 718	
3.3	Sinus spring	Stainless steel	
Metal Solid Seat – stainless steel (MS1)			
3.01	Disc seat ring	Austenitic stainless steel / with coating	1.4401, EN 10088
3.02	C-ring	Inconel® 718	
3.03	Sinus spring	Stainless steel	
Metal Solid Seat – Bronze (MS2)			
3.01	Disc seat ring	Aluminum bronze	1.4401, EN 10088
3.02	C-ring	Inconel® 718	1.4310
3.03	Sinus spring	Stainless steel	1.4310
Metal Solid Seat – Inconel (MS3)			
3.01	Disc seat ring	Inconel® 625	
3.02	C-ring	Inconel® 718	
3.03	Sinus spring	Stainless steel	

triple eccentric butterfly valves welded design
TE series, type AV01-081

application:
Nonflammable liquids and gases with temperature up to 60 °C

nominal diameter	DN 200 – 1400
nominal pressure	PN 10/16
operating temperature	up to 350 °C

- mounting length:** according to EN 558 SERIES 14
- corrosion-resistant coating:** CH4 according to ISO 12944
- connection:** flanged according to EN 1092-1, on request: flanges GOST etc.
- leakage class:** A, according to EN 12266
- operation:** hand wheel, electric actuator, request: gearbox, stem extension, hydraulic or pneumatic actuators

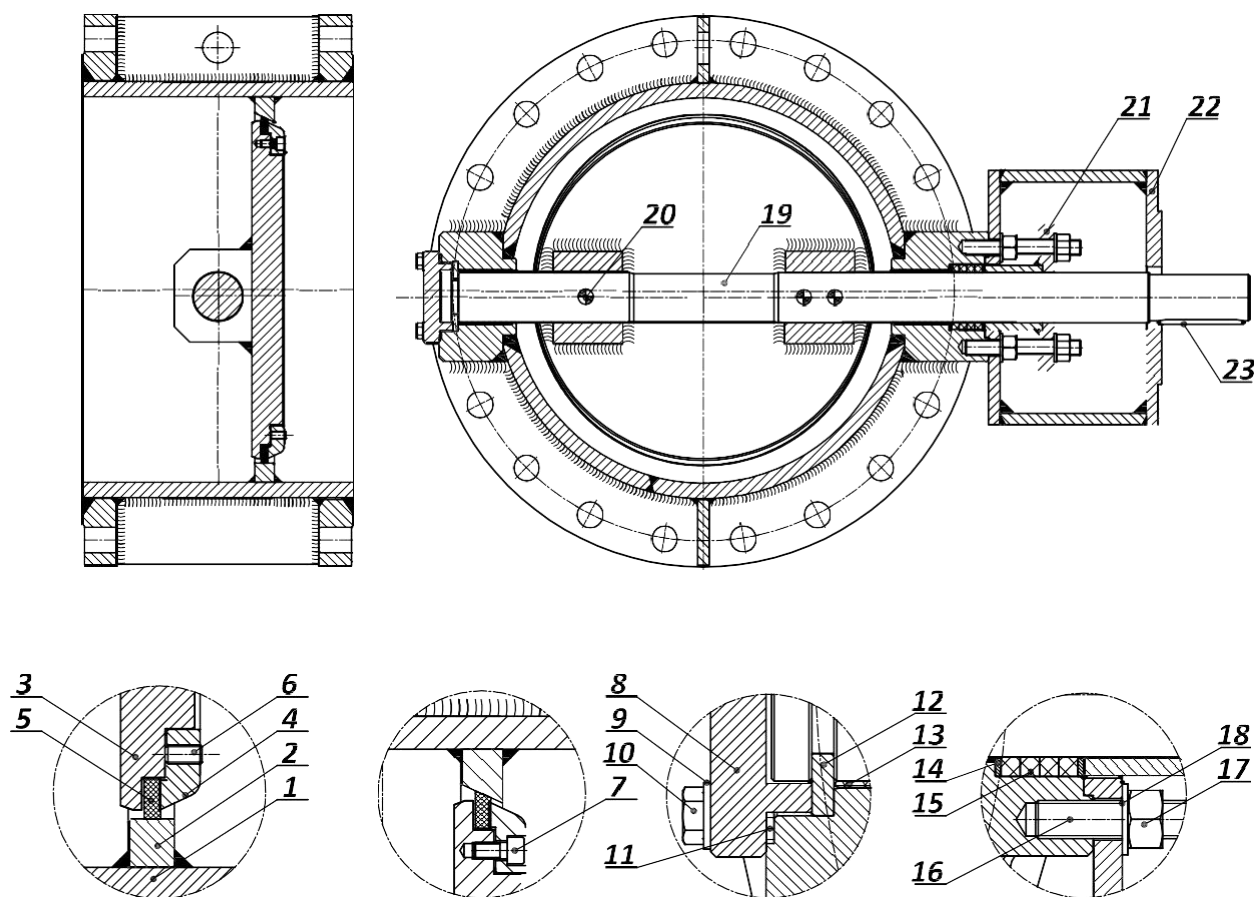


nominal diameter DN	operating pressure EN 12266 PN bar	flanges PN bar
200 – 1400	10	10
200 – 1400	16	16

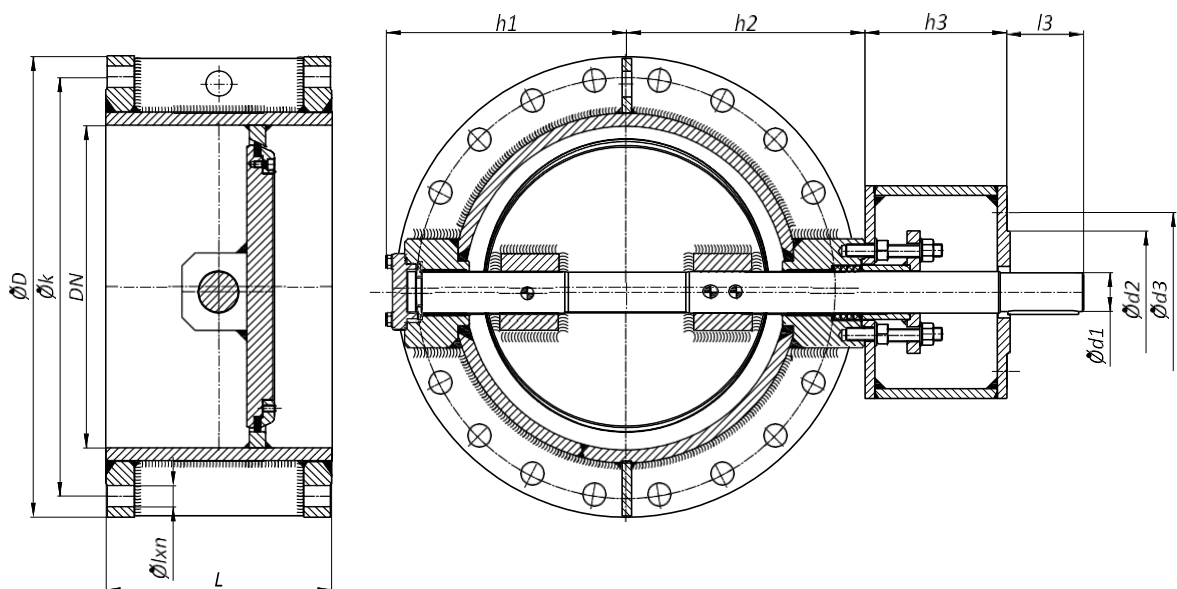
Parts list

Item	part	material	Item	part	material
1	body	S355J2+N	13	PAP bearing	PTFE/NIRO
2	body seat ring	X5CrNi 18-10	14	ring	A4
3	disc	S355J2+N	15	gland packing	PTFE
4	retaining ring	S355J2+N	16	rod	A2
5	profile sealing ring	X6CrNiMoTi17-12-2 + graphite	17	nut	8 galv.
6	screw	A4	18	washer	galv.
7	screw	A4	19	driven shaft	X17CrNi16-2
8	bonnet	S355J2+N	20	plug	X17CrNi16-2
9	washer	galv.	21	stuffing box	S355J2+N
10	screw	8.8 galv.	22	housing	S355J2+N
11	gasket	graphite	23	key	C45E
12	axial bearing	EN JS 1030			

Standard materials are given in the table. Other materials - on request.



dimensions – PN – 10/16



PN 10

DN	L	D	k	l	n	h ₁	h ₂	h ₃	d1	d2	d3	l1	maas, kg
150	210	285	240	22	8	160	160	90	23	70	102	55	39
200	230	340	295	22	8	200	230	100	28	85	125	60	42
250	250	395	350	22	12	224	222	100	32	100	140	73	57
300	270	445	400	22	12	285	290	150	32	100	140	73	133
350	290	505	460	22	16	315	320	150	38	100	140	73	142
400	310	565	515	26	16	335	336	150	44	130	165	90	150
500	350	670	620	26	20	380	410	220	54	200	254	120	308
600	390	780	725	30	20	465	460	195	60	200	254	120	400
700	430	895	840	30	24	495	540	195	78	230	298	120	575
800	470	1015	950	33	24	590	575	195	85	260	356	150	745
900	510	1115	1050	33	28	670	655	195	90	260	356	150	920
1000	550	1230	1160	36	28	730	735	195	100	260	356	150	1090
1200	630	1455	1380	39	32	876	914	215	120	300	406	190	2540
1400	710	1675	1590	42	36	941	992	215	150	300	406	210	3700

PN 16

DN	L	D	k	l	n	h ₁	h ₂	h ₃	d1	d2	d3	l1	maas, kg
150	210	285	240	22	8	160	160	90	23	70	102	55	39
200	230	340	295	22	12	200	230	100	28	85	125	60	42
250	250	405	355	26	12	224	222	100	32	100	140	73	57
300	270	460	410	26	12	285	290	150	38	100	140	73	133
350	290	520	470	26	16	315	320	150	44	130	165	90	142
400	310	580	525	30	16	335	336	150	48	130	165	90	150
500	350	715	650	33	20	380	410	220	60	200	254	120	308
600	390	840	770	36	20	465	460	200	68	230	298	120	400
700	430	910	840	36	24	495	540	195	85	230	298	150	575
800	470	1025	950	39	24	590	575	195	90	260	356	150	745
900	510	1125	1050	39	28	670	685	195	110	300	406	150	920
1000	550	1255	1170	42	28	730	735	195	115	300	406	190	1090
1200	630	1485	1390	48	32	876	914	215	135	300	406	190	2540
1400	710	1685	1590	48	36	941	1207	215	170	370	483	210	3700

Other nominal diameters on request.

triple eccentric butterfly valves TE series, type
AV01-083

application:
High performance heavy duty shut-off and control valve

nominal diameter	DN 100-600
nominal pressure	PN 16
operating temperature	-50 °C up to +450 °C

connection: flanged EN 1092 PN 6, 10 and 16

seal: metallic

leakage class: A, according to EN 12266

shaft seal type: graphite

design pressure PS: maximum 16 bar

design temperature TS: -50 °C up to +450 °C

flow velocity: max. 5 m/s for liquids, max. 50 m/s for gases

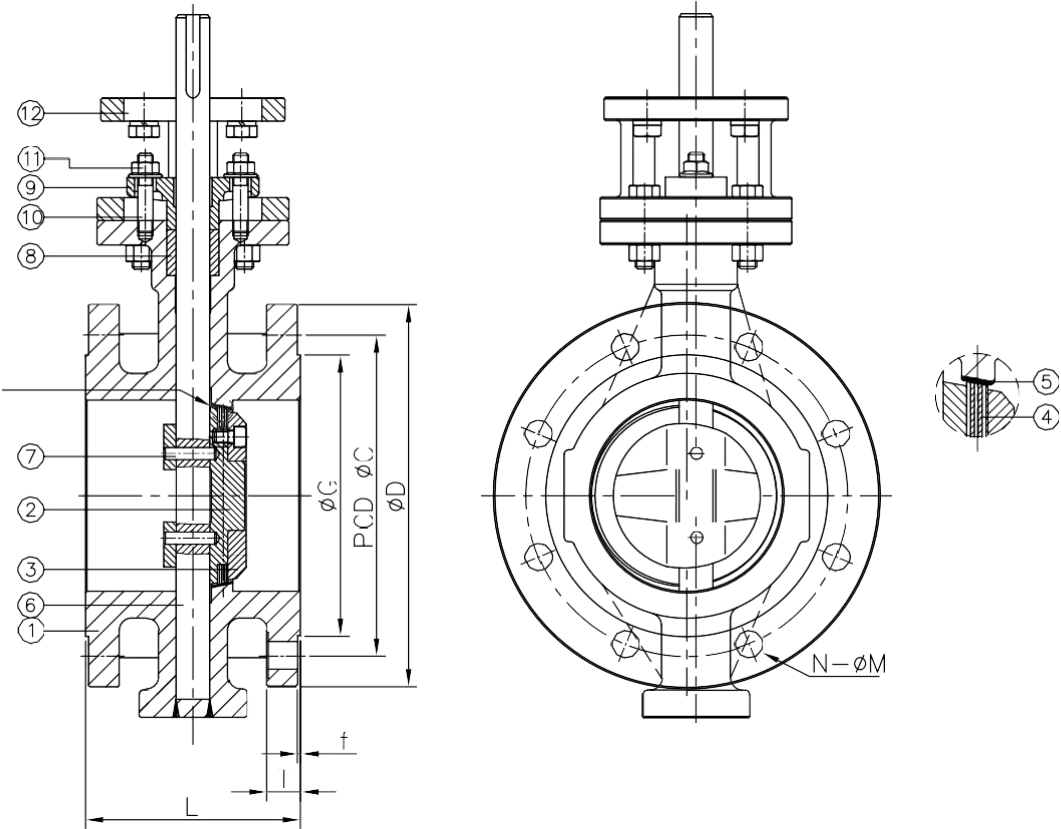


nominal diameter DN	operating pressure EN 12266 PN bar	flanges PN bar
100 – 600	16	6
100 – 600	16	10
100 – 600	16	16

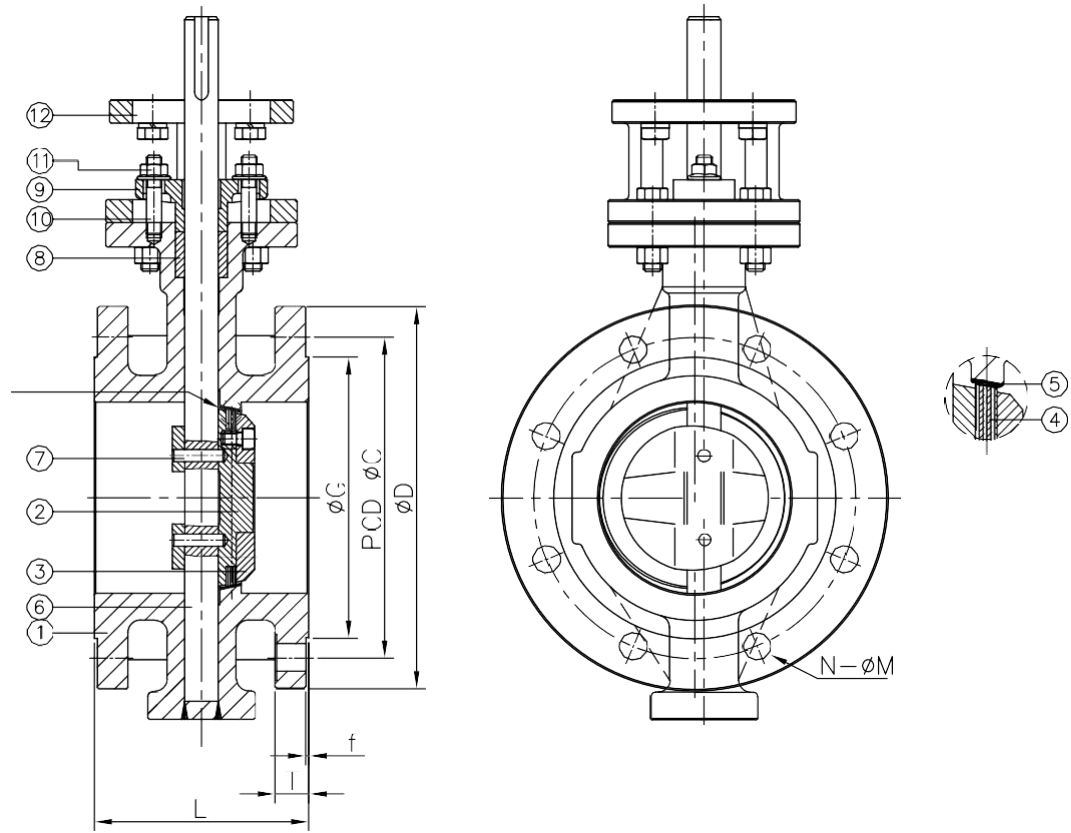
Parts list

Item	part	material
1	Body	steel (A216-WCB)
2	Disc	
3	Retainer ring	steel (A105)
4	Disc seat	stainless steel 304+ graphite
5	Body seat	ASTM D507
6	Stem	stainless steel (304)
7	Pin	
8	Packing	Graphite
9	Gland cover	steel (A216-WCB)
10	Rod	steel (A193-B7)
11	Nut	steel (A194-2H)
12	Yoke	steel (A216-WCB)

Standard materials are given in the table. Other materials - on request.



dimensions



DN	G	C	D	L	T	F	N	M	torque , Nm
100	158	180	220	127	20	2	8	18	140
200	268	295	340	152	24	2	12	22	600
250	320	355	405	165	26	2	12	26	960
350	438	470	520	190	30	2	16	26	2230
600	725	770	840	267	40	2	20	26	7200

* Other nominal diameters on request.

Ball valves

Section	series	type	Page
Ball V-port for the flow control			102-103
2-pc. screwed end ball valve	THB series	AV02-121	104-106
Flanged end ball valve	WBV series	AV02-135	107-109
3-way flanged end ball valve	MWB series	AV02-142	110-112
2-pc. flanged end ball valve	FLD series	AV02-161	113-115
		AV02-162	116-118
3-pc. butt weld end ball valve	FLT series	AV02-181	119-123
3-pc. socket weld end ball valve		AV02-182	124-126
3-pc. flanged end ball valve		AV02-183	127-129
		AV02-184	130-132

ball V-PORT for the flow control

V-port is ideal for achieving more precise flow control. The standard "V" notch

options are 30°, 60° and 90°.

The 30° option allows for 30° V-Port finer tapered control throughout the valve rotation and the 60° & 90° offers a larger Cv in addition to controlled flow.



Kvs – valve capacity coefficient.

When the flow passes through the valve or any other device which limits his movement, it loses a quantity of energy. The flow coefficient depends on characteristics of working medium, differential pressure (ΔP) on the valve and flow rate (Q).

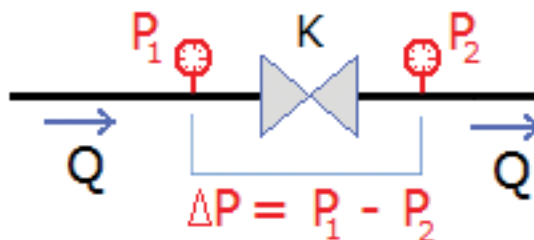
Kv – flow coefficient in metric units. It is defined as the water flow rate expressed in cubic meters per hour [m^3/h] at a temperature of 16 °C at differential pressure on the valve of 1 bar.

Necessary value calculation **Kv** is carried out on the assumption of the set process parameters.

For the preliminary simplified calculation of control valves it is possible to use the standard formula given below. At the same time connecting branch pipes influence and flow restriction at critical flow speeds won't be considered.

For liquids:

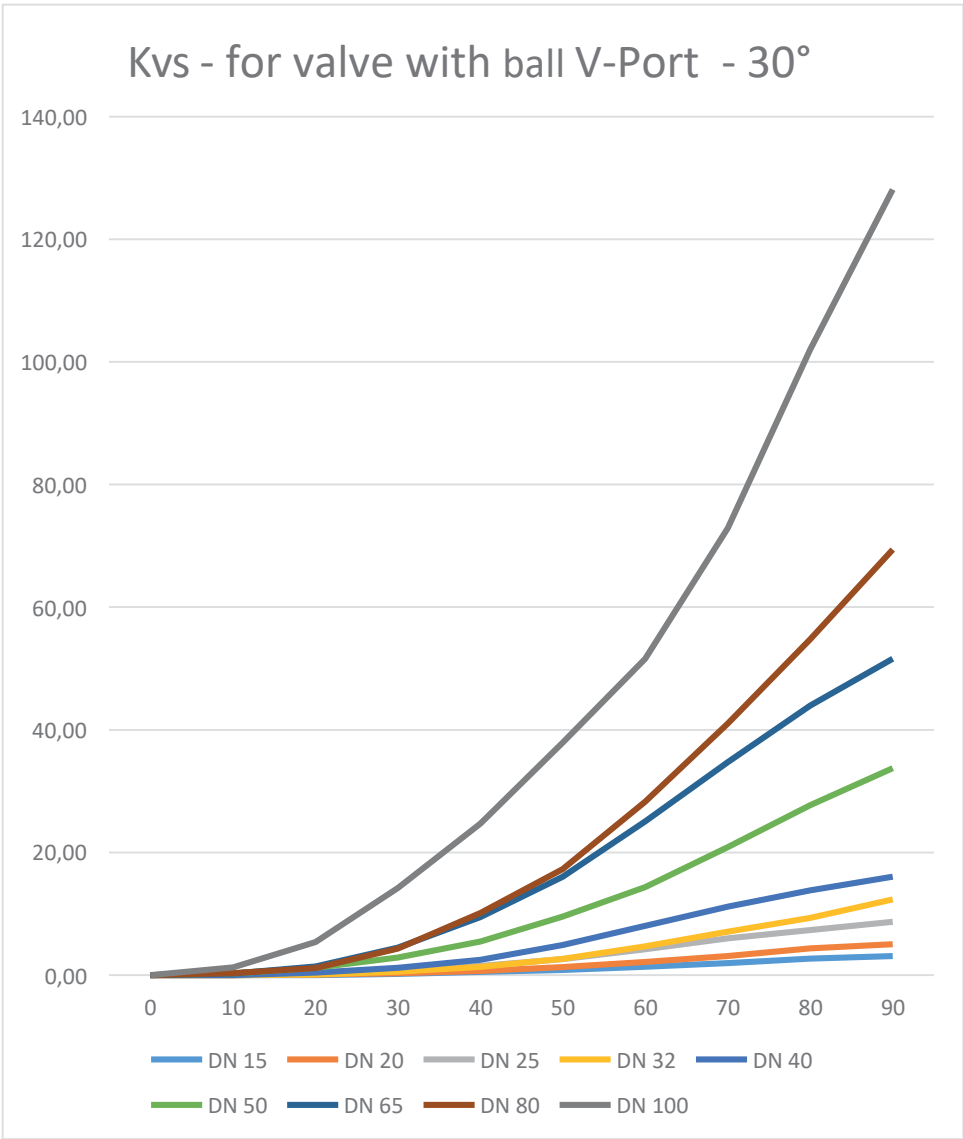
$$Q = K \cdot \sqrt{\frac{\Delta P}{SG}}$$



Q: Flow rate;
 ΔP : Differential pressure;
 Sg: spec. gravity (1 for water);
 K: flow coefficient Kv.

Example: Kvs for valve with ball V – Port 30°

DN	opening angle, °									
	0	10	20	30	40	50	60	70	80	90
15	0,00	0,00	0,00	0,22	0,54	0,86	1,39	1,94	2,67	3,08
20	0,00	0,00	0,10	0,34	0,68	1,31	2,14	3,11	4,33	5,04
25	0,00	0,00	0,24	0,77	1,53	2,64	4,22	5,99	7,35	8,74
32	0,00	0,00	0,10	0,57	1,39	2,66	4,70	7,09	9,34	12,36
40	0,00	0,00	0,42	1,23	2,53	4,93	8,04	11,21	13,84	16,08
50	0,00	0,25	1,21	2,86	5,49	9,58	14,36	20,89	27,75	33,81
65	0,00	0,28	1,40	4,51	9,47	16,05	25,05	34,74	43,92	51,61
80	0,00	0,34	1,18	4,35	10,13	17,30	28,32	41,04	54,79	69,47
100	0,00	1,25	5,38	14,23	24,69	37,92	51,59	72,90	101,98	128,10



2-pc. screwed end ball valve THB series, type AV02-121

application:

Shut-off valve for liquids and gases flow blockage

nominal diameter	DN 8 – 80
nominal pressure	PN 63
operating temperature	-20 °C up to +200 °C

connection:

screwed
pipe straight thread according to DIN 259 taper pipe
thread according to DIN 2999

seal: PTFE

leakage class: A, according to EN 12266

shaft seal type: PTFE

design pressure PS: maximum 63 bar

design temperature TS: -20 °C up to +200 °C

stem: blow-out proof stem

special designs:

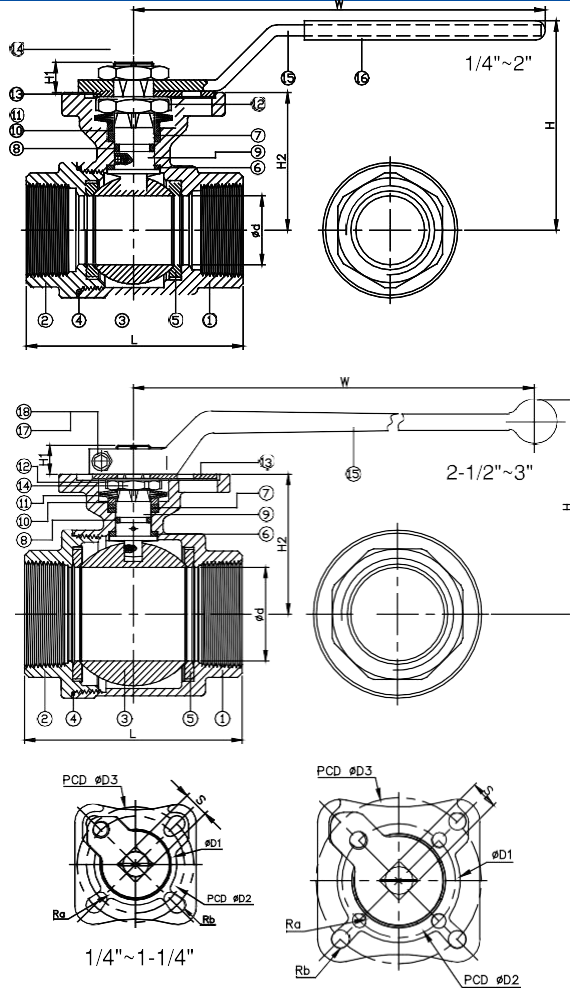
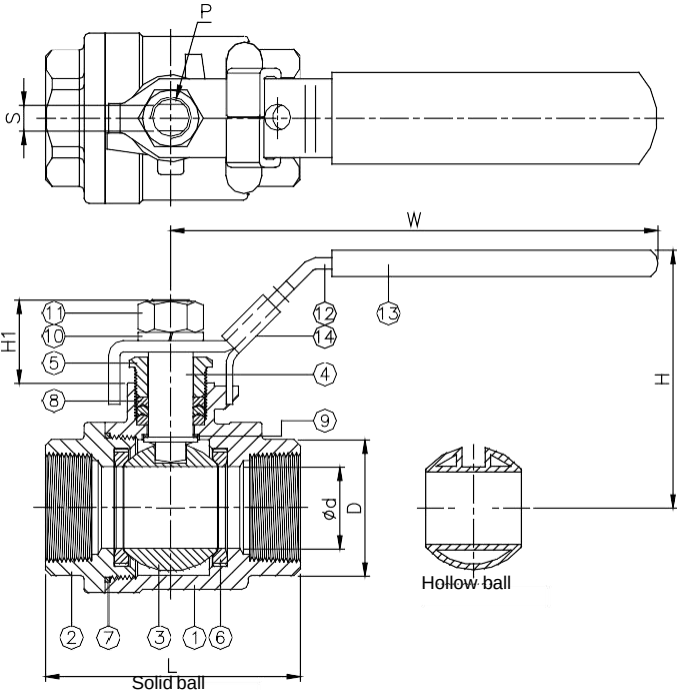
- with flange for actuator installation according to ISO 5211
- TA-LUFT (fugitive emission approved according to ISO 15848)
- automatic binding (limit switches, solenoid valve, pneumatic and electric actuators)
- ball V PORT for adjustability



Parts list

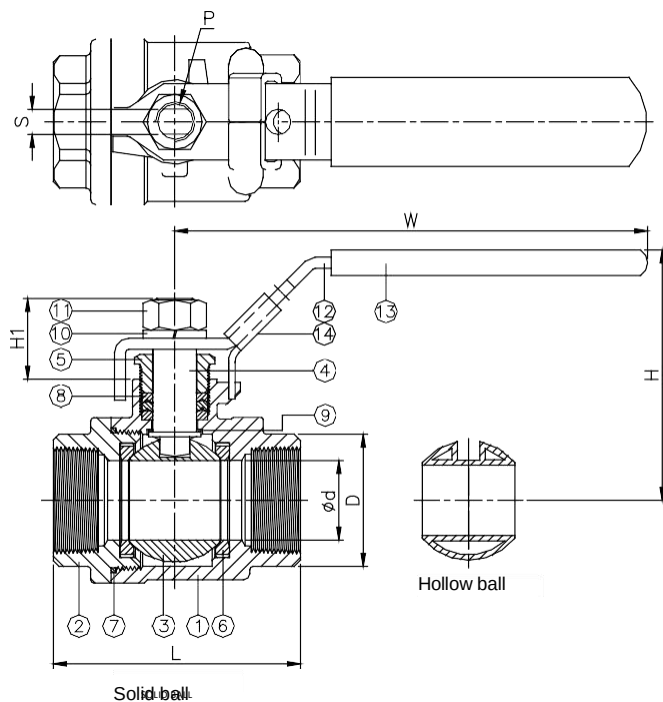
Item	part	material
1	Body	stainless steel steel (A351-CF8M) (A216-WCB)
2	Bonnet	
3	Solid ball	stainless steel (A351-CF8M)
	Hollow ball	stainless steel (A240-316)
4	Stem	stainless steel (A276-316)
5	Sealing bush	stainless steel (304)
6	Seat	PTFE / RTFE
7	Seal	PTFE
8	Gland packing	
9	Thrust washer	
10	Spring washer	stainless steel (304)
11	Nut	
12	Handle	stainless steel
13	Handle sleeve	PVC
14	Locking device	stainless steel

Item	part	material
1	Body	stainless steel steel (A351-CF8M) (A216-WCB)
2	Bonnet	
3	Ball	stainless steel (A351-CF8M)
4	Seal	PTFE
5	Seat	PTFE / R TFE
6	Thrust washer	PTFE
7	Gland packing	
8	Sealing ring	VITON
9	Stem	stainless steel (A276-316)
10	Gland ring	stainless steel (304)
11	Washer	stainless steel (301)
12	Locking washer	stainless steel (304)
13	Stop pin	
14	Stem nut	stainless steel
15	Handle	
16	Handle sleeve	PVC
17	Screw	stainless steel (304)
18	Nut	

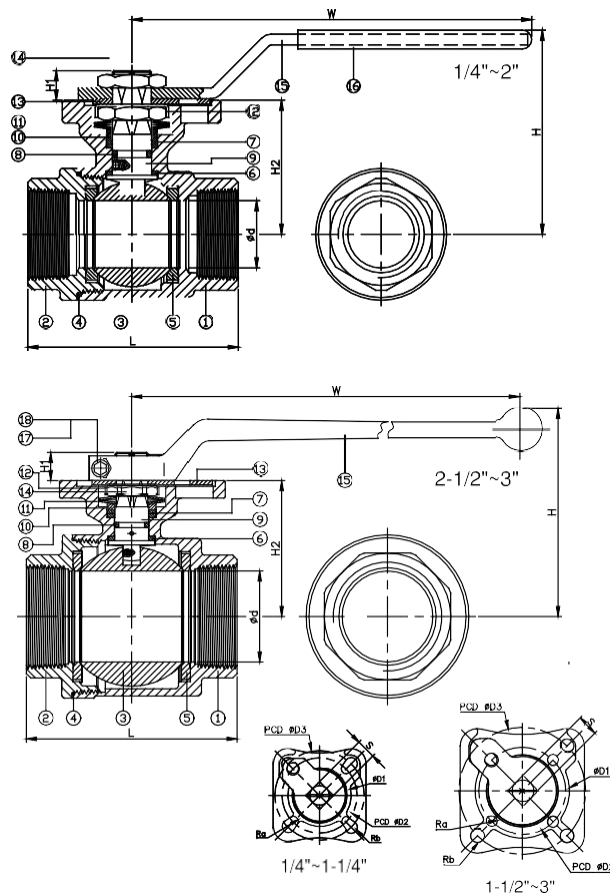


dimensions

Standard design



Installation flange design according to ISO 5211



Standard design

DN	d	D	L	H	H1	W	S	P	torque, Nm	maas, kg	
										solid ball	hollow ball
8	11.6	19	50.8	58.5	18.5	99.5	5	3/8"-24UNF	3.5	0.2	-
10	12.5	22.5	50.8	58.5	18.5	99.5	5	3/8"-24UNF	4	0.2	-
15	15	26	58	60.5	18.8	99.5	5	3/8"-24UNF	5.5	0.3	-
20	20	32	65.6	63	23.4	123	6.5	7/16"-20UNF	7.5	0.5	-
25	25	38	78.7	79.5	26.15	149	8	7/16"-20UNF	11	0.8	-
32	32	48	90	86	23.6	149	8	7/16"-20UNF	15	1.1	-
40	38	54.8	105	101.7	28.2	190	10	1/2"-20UNF	20	1.8	-
50	50	67	124	109.3	23.4	190	10	1/2"-20UNF	40	2.7	2.3
65	63	85	146	140	39.4	247	12	3/4"-10UNF	60	5.6	4.5
80	76	100	163.2	148.5	39.4	247	12	3/4"-10UNF	85	7.5	6.2

Installation flange design according to ISO 5211

DN	d	L	H	H1	H2	W	S	D1	D2	D3	Ra	Rb	torque, Nm	maas, kg
8	11.6	58	62	8	36.4	113.5	9	31	36	42	2.75	2.75	5.5	0.4
10	12.7	58	62	8	36.4	113.5	9	31	36	42	2.75	2.75	5.5	0.4
15	15	58	62	8	36.4	113.5	9	31	36	42	2.75	2.75	5.5	0.4
20	20	65.6	65	9	39.2	113.5	9	31	36	42	2.75	2.75	7.5	0.5
25	25	78.7	76	11	48.7	140	11	35.5	42	50	2.75	3.5	11	0.8
32	32	90	81.5	11	54.2	140	11	35.5	42	50	2.75	3.5	15	1.2
40	38	105	103	11.5	65.7	172	14	56	50	70	3.5	4.5	20	2
50	50	124	111.5	11.5	75.5	172	14	56	50	70	3.5	4.5	40	2.9
65	63	146.2	141	20.5	91.5	310	17	76	70	102	4.5	5.5	60	6
80	76	163.7	150	20.5	100.75	310	17	76	70	102	4.5	5.5	85	7.2

flanged end ball valve WBV series,
type AV02-135

application:
Shut-off valve for liquids and gases flow blockage

nominal diameter	DN 15 – 100
nominal pressure	PN 10/16/40
operating temperature	-20 °C up to +200 °C

connection: wafer

seal: PTFE

leakage class: A, according to EN 12266

shaft seal type: PTFE

design pressure PS: maximum 40 bar

design temperature TS: -20 °C up to +200 °C

stem: blow-out proof stem

installation flange: according to ISO 5211

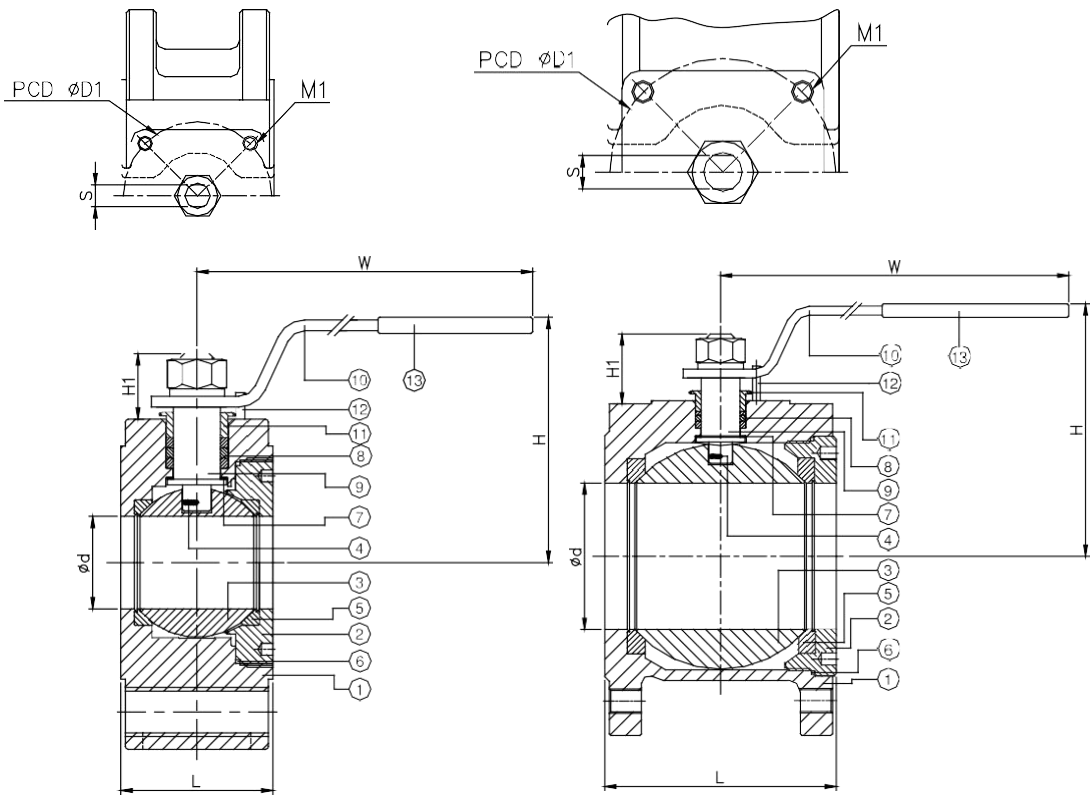
special designs:
• antistatic design



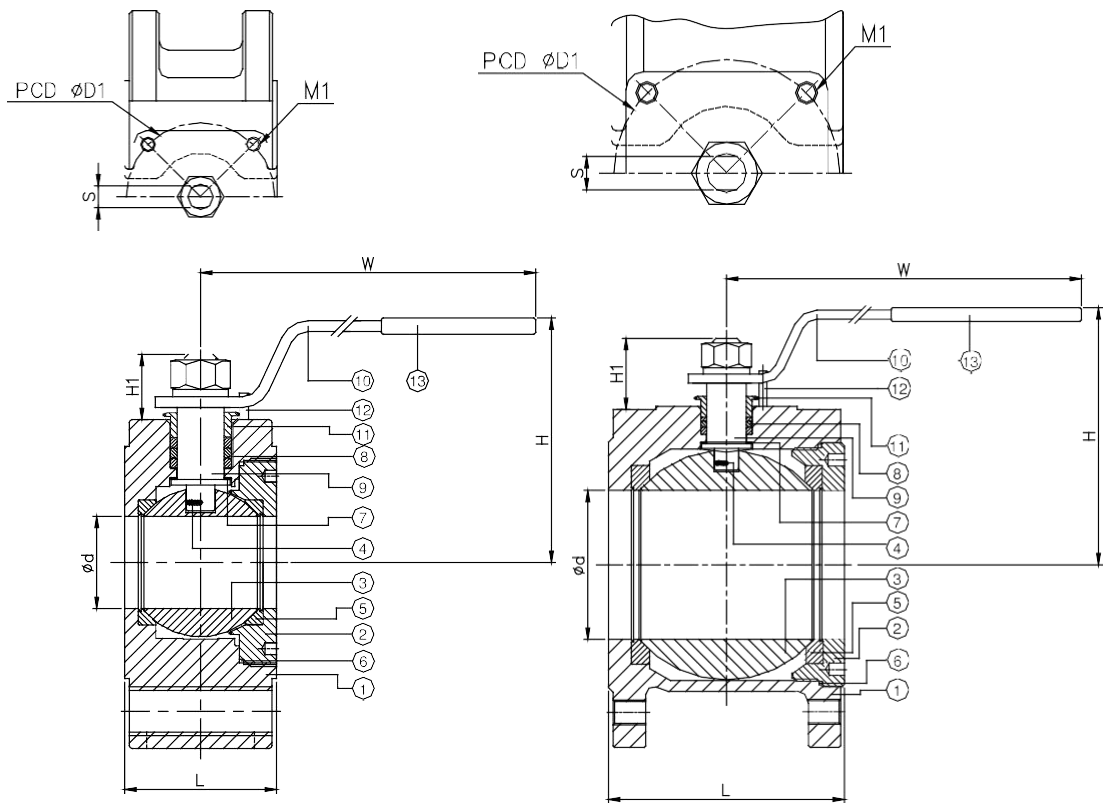
nominal diameter DN	operating pressure EN 12266 PN bar
15 – 50	16/40
65 – 100	10/16

Parts list

Item	part	material	
1	Body	stainless steel (A351-CF8M)	steel (A216-WCB)
2	Retainer		
3	Ball	stainless steel (A351-CF8M)	
4	Antistatic device	stainless steel (316)	
5	Seat	RTFE	
6	Seal	PTFE	
7	Thrust washer		
8	Packing		
9	Stem	stainless steel (A276-316)	
10	Handle	stainless steel	
11	Stem nut	stainless steel (304)	
12	Stop pin		
13	Handle sleeve	PVC	



dimensions



DN	d	L	H	W	S	D1	M1	torque, Nm
			PN10/16/40					PN10/16/40
15	15	36	70	150	7.8	36	M5	5.5
20	20	38	70	150	7.8	36	M5	7.5
25	25	43	80	150	8	36	M5	8.5
32	32	51	87	156	8	36	M5	12
40	38	63	102	180	10	50	M6	20
50	50	70	108	180	10	50	M6	30
65	65	107	143	282	12	70	M8	50
80	76	120	152	290	12	70	M8	65
100	96	152	168	325	15	102	M10	90
125	118	180	183	325	15	102	M10	130

3-way flanged end ball valve MWB series, type AV02-142

application:

ball valve for flow, liquids and gases blending or separation

nominal diameter	DN 15 – 200
nominal pressure	PN 16/40
operating temperature	-20 °C up to +200 °C

leakage class: rate A

design: ports «L»/«T»

stem: blow-out proof stem

shaft seal type: PTFE

installation flange: according to ISO 5211

connection: flanged

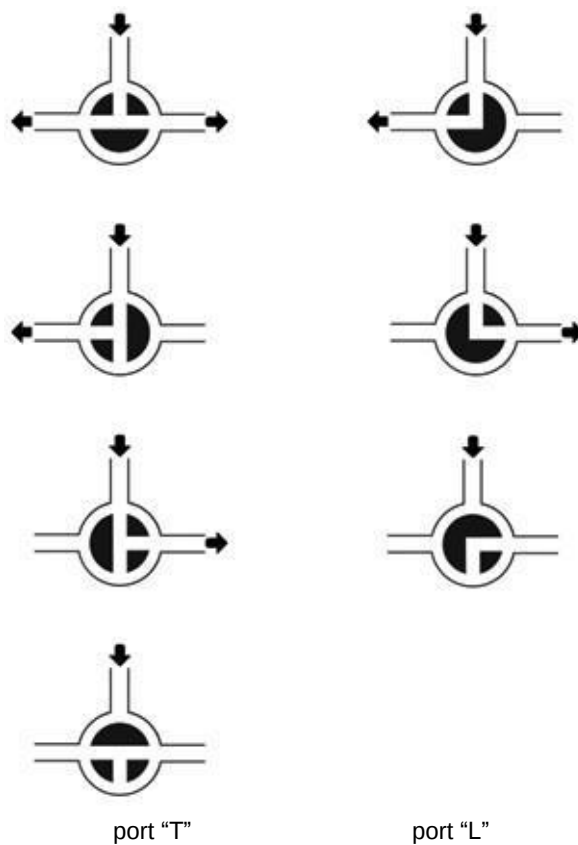
seal: PTFE

special design:

- antistatic design
- TA-LUFT (fugitive emission approved according to ISO 15848)



leading part design

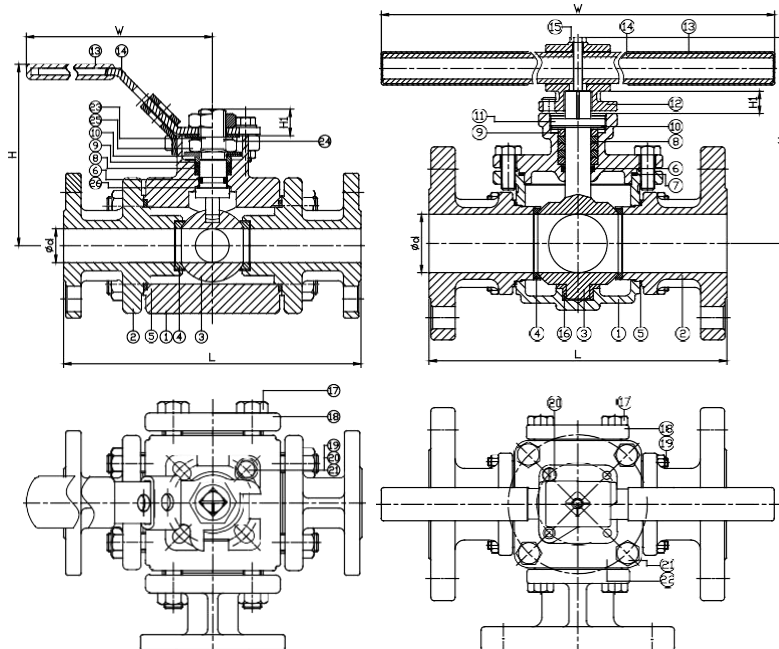


Parts list

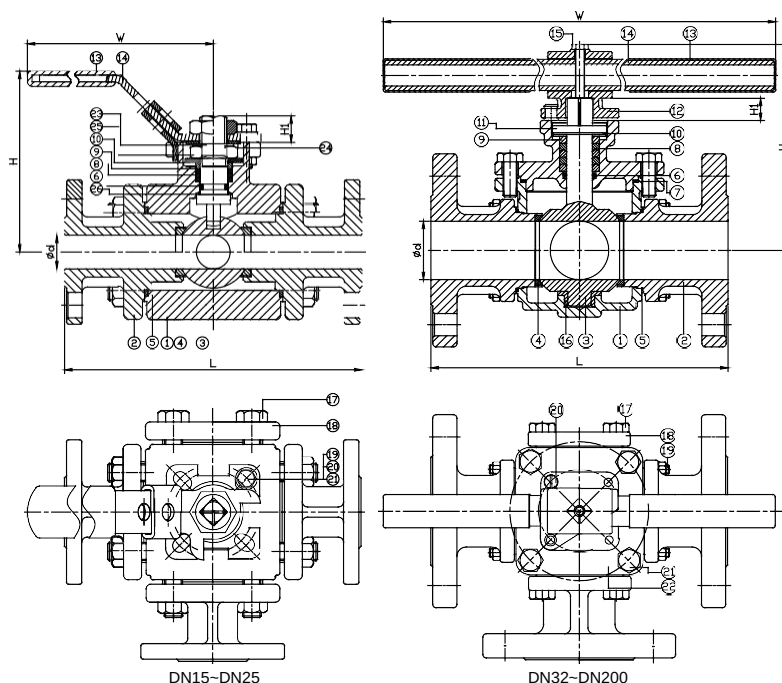
Item	part	material		
1	Body	stainless steel (A351- CF8M)	stainless steel (A351- CF8)	steel (A216- WCB)
2	Cap			stainless steel (A351- CF8)
3	Ball and stem			
4	Seat	PFFE / RTFE / TFM 1600		
5	Seal			
6	O-ring	Viton		
7	Seal	PFFE / RTFE / TFM 1600		
8	Packing			
9	Gland ring	stainless steel (304)		
10	Spring washer	stainless steel (301)		
11	Cap-B	stainless steel (ASTM A351- CF8M)		
12	Handle head	stainless steel (A351- CF8)		
13	Handle sleeve	PVC		
14	Handle	stainless steel (304)		
15	Handle bolt			
16	Sleeve	PFFE / RTFE / TFM 1600		
17	Cap-6 bolt	stainless steel (304)		Carbon steel
18	Cap-6	stainless steel (A351- CF8M)		Steel (A216- WCB)
19	Bolt	stainless steel (304)		Carbon steel
20	Stop pin			stainless steel (304)
21	Cap-a bolt			Carbon steel
22	Cap-a	stainless steel (A351- CF8M)		Steel (A216- WCB)
23	Locking washer	stainless steel (304)		
24	Handle washer			
25	Stem nut			
26	Thrust washer	TFM 4215		

DN15~DN25

DN32~DN200



dimensions



DN	d	L	H	H1	W	torque, Nm
		PN16/40				
15	15	160	80	9	123	13
20	20	165	84	9	123	13
25	25	180	96	11	153	32.5
32	32	234	171	19	403	71.5
40	40	234	171	19	403	71.5
50	50	273	176	19	403	104
65	65	300	208	24	504	156
80	76	305	216	24	504	234
100	96	369	236	24	654	286
150	148	480	329	38	800	494
200	200	630	354	40	1000	650

2-pc. flanged end ball valve FLD series, type AV02-161

application:

Shut-off valve for liquids and gases flow blockage

nominal diameter	DN 15 – 250
nominal pressure	PN 16/40
operating temperature	-20 °C up to +200 °C

leakage class: A, according to EN 12266

stem: blow-out proof stem

shaft seal design: PTFE

installation flange: according to ISO 5211

connection: flanged

seal: graphite / graphite + stainless steel

special designs:

- antistatic design
- fire safe design in accord. API 607
- TA-LUFT (fugitive emission approved according to ISO 15848)
- automatic binding (limit switches, solenoid valve, pneumatic and electric actuators)

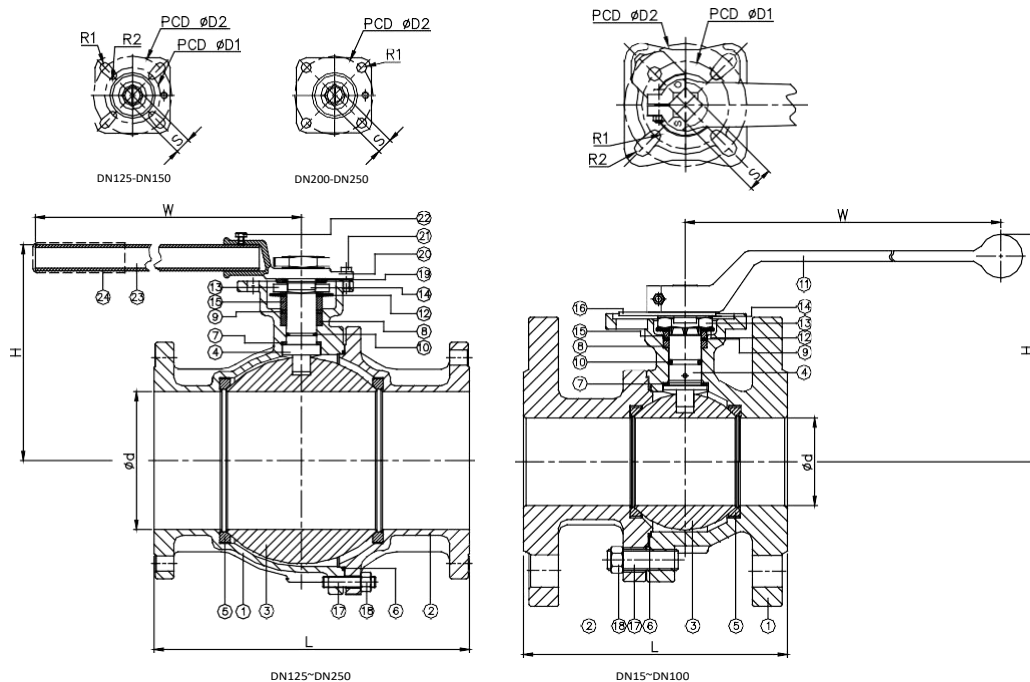


Parts list

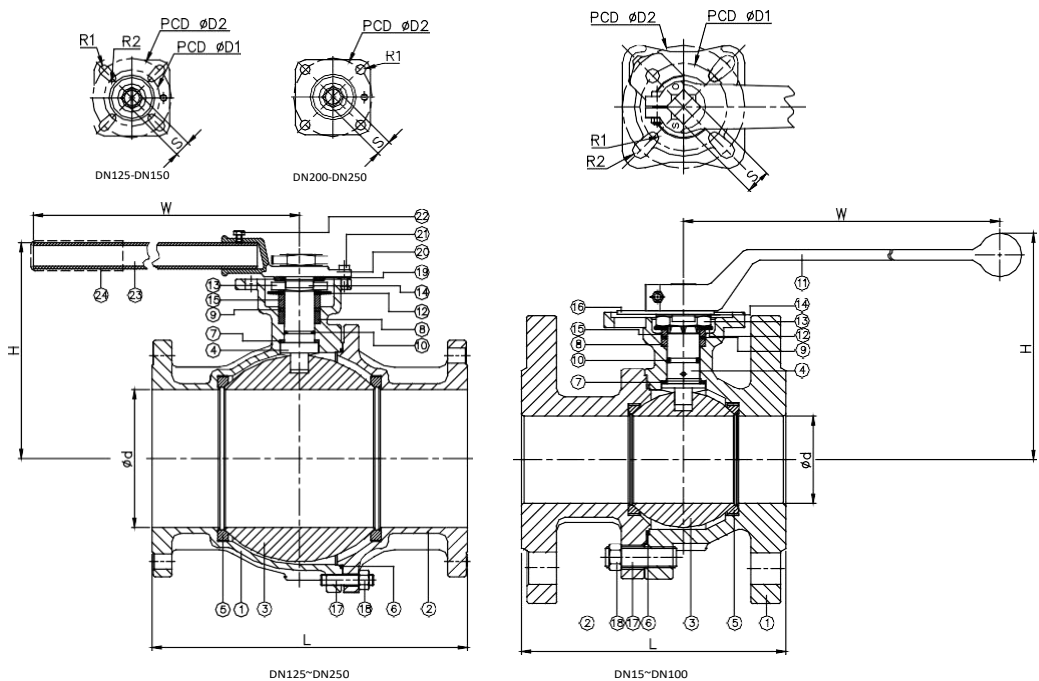
Item	part	material	
1	Body	stainless steel (1.4408)	steel (1.0619)
2	Cap		
3	Solid ball	stainless steel (A351- CF8M)	
	Hollow ball	stainless steel (A240-316)	
4	Stem	stainless steel (A276-316)	
5	Seat	PTFE / RTFE / TFM 1600	
6	Seal	Graphite / Graphite + stainless steel (316)	
7	Thrust washer	CTFE	
8	Gland a	Graphite	
9	Gland b	CTFE	
10	Sealing ring	Viton	
11	Handle	stainless steel (304)	
12	Belleville washer	stainless steel (301)	
13	Stem nut	stainless steel (304)	
14	Locking device		
15	Gland ring		
16	Locking washer		
17	Screw		
18	Nut		
19	Flat washer		
20	Handle head		
21	Stop pin		
22	Screw		
23	Steel tube		
24	Handle sleeve	PVC	

* DN125 and more: graphite + stainless steel (316)

- Above mentioned materials apply to fire safe design – ISO 15848 design should replace with PTFE seal & packing



dimensions



DN	d	L	H	W	S	D1	D2	R1	R2	torque, Nm
15	15	115	86.5	197	9	36	42	2.75	2.75	5.2
20	20	120	89	197	9	36	42	2.75	2.75	8
25	24	125	93	197	11	42	50	2.75	3.5	12.5
32	30	130	106	197	11	42	50	2.75	3.5	14
40	38	140	121	247	14	50	70	3.5	4.5	24.5
50	50	150	129	247	14	50	70	3.5	4.5	32
65	64	170	158	340	17	70	102	4.5	5.5	38
80	76	180	166	340	17	70	102	4.5	5.5	45
100	98	190	189	340	22	102	125	6.5	7.5	55
125	125	325	232	756	27	102	125	5.5	6.5	160
150	150	350	253	756	27	102	125	5.5	6.5	212
200	200	400	320.5	840	36	-	140	8.5	-	470
250	250	450	355	1040	36	-	140	8.5	-	750

2-pc. flanged end ball valve FLD series, type AV02-162

application:

Shut-off valve for liquids and gases flow blockage

nominal diameter	DN 15 – 250
nominal pressure	PN 16/40
operating temperature	-20 °C up to +200 °C

leakage class: A, according to EN 12266

stem: blow-out proof stem

shaft seal type: PTFE

installation flange: according to ISO 5211

connection: flanged

seal: PTFE

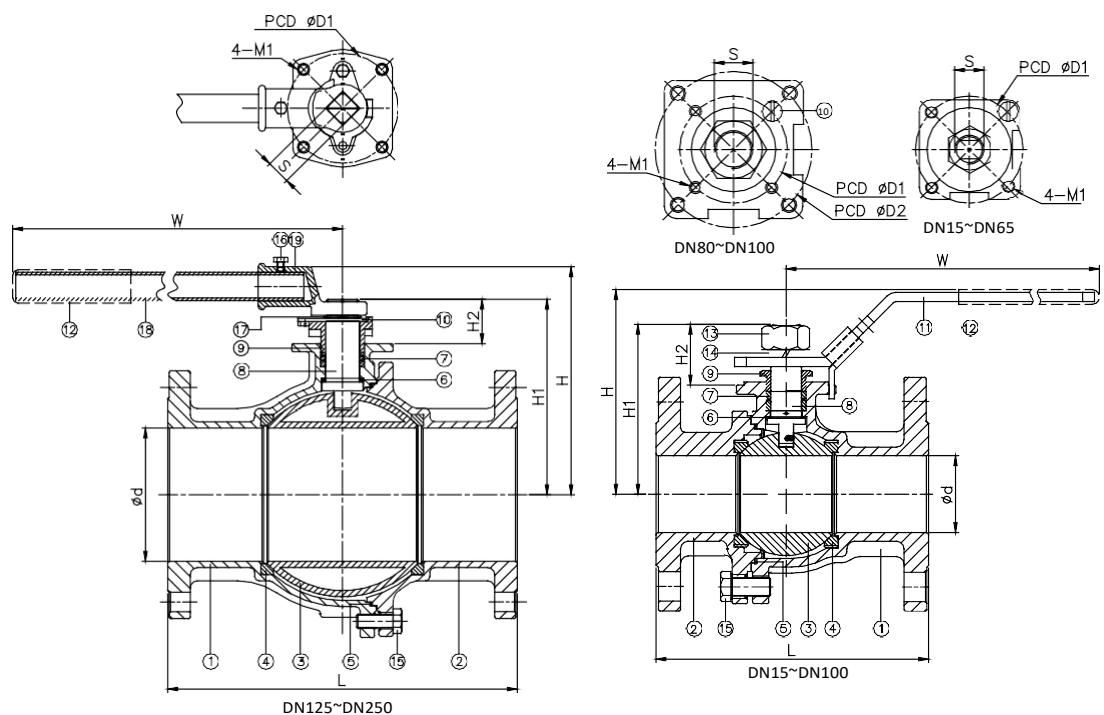
special design:

- antistatic design
- TA-LUFT (fugitive emission approved according to ISO 15848)

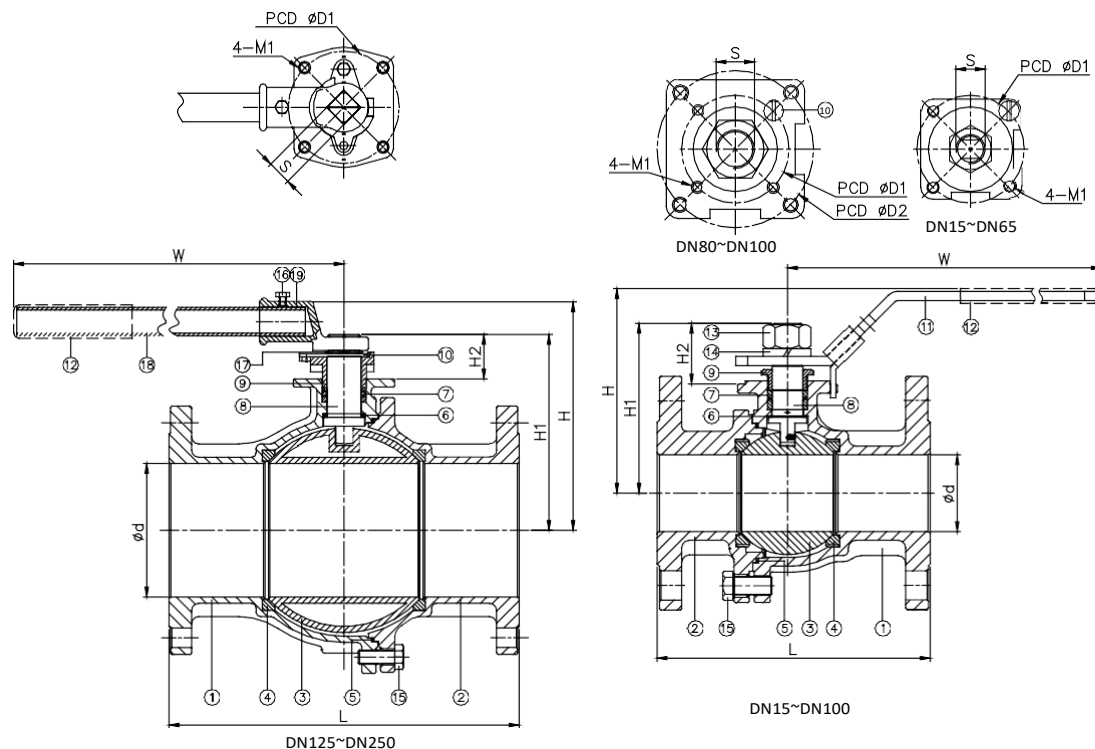


Parts list

Item	part	material	
1	Body	stainless steel (1.4408)	steel (1.0619)
2	Cap		
3	Solid ball Hollow ball	stainless steel (A351- CF8M)	
		stainless steel (A240-316)	
4	Seat	PTFE / RTFE	
5	Seal		
6	Thrust washer	PTFE	
7	Packing		
8	Stem	stainless steel (A276-316)	
9	Sealing bush	stainless steel (304)	
10	Stop pin		
11	Handle	stainless steel	
12	Handle sleeve	PVC	
13	Stem nut		
14	Spring washer		
15	Screw		
16	Screw		
17	Circlips for shaft	stainless steel (304)	
18	Steel tube		
19	Wrench block		



dimensions



DN	d	L	H	H1	H2	W	S	D1	D2	M1	torque, Nm
15	15	115	86	57.2	23.7	169	11.1	42	-	M5	7.5
20	20	120	89	59	23.5	169	11.1	42	-	M5	7.6
25	25	125	104	73.5	29.5	205.5	12.7	50	-	M6	17.5
32	32	130	109	78	29.5	205.5	12.7	50	-	M6	20
40	38	140	130	100.9	39.4	267	19.1	70	-	M8	22.9
50	50	150	135	107.4	39.4	267	19.1	70	-	M8	32.2
65	63	170	145	116.1	38.6	298	19.1	70	-	M8	42.3
80	76	180	166	139	43	390	19.1	70	102	M8	87.2
100	100	190	181	157	43	390	19.1	70	102	M8	98.2
125	125	325	239.6	199	52	743	27	125	-	M12	160
150	150	350	256.5	220	50	743	27	125	-	M12	190
200	200	400	323.5	286.5	85.5	925	36	140	-	M16	470
250	250	450	378	345.5	85.5	1050	36	140	-	M16	750

3-pc. butt weld end ball valve FLT series, type AV02-181

application:

Shut-off valve for liquids and gases flow blockage

nominal diameter	DN 8 – 100
nominal pressure	PN 63
operating temperature	-20 °C up to +200 °C

connection: weld ends

seal: PTFE

leakage class: A, according to EN 12266

shaft seal type: PTFE

design pressure PS: maximum 63 bar

design temperature TS: -20 °C up to +200 °C

stem: blow-out proof stem

special designs:

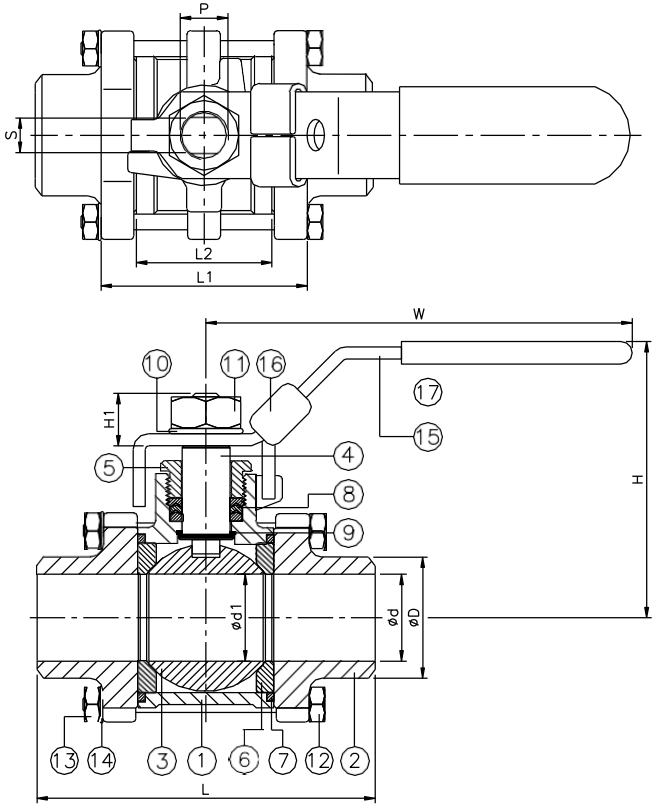
- with flange for actuator installation according to ISO 5211
- TA-LUFT (fugitive emission approved according to ISO 15848)
- automatic binding (limit switches, solenoid valve, pneumatic and electric actuators)
- ball V-PORT for adjustability
- welded ends extension



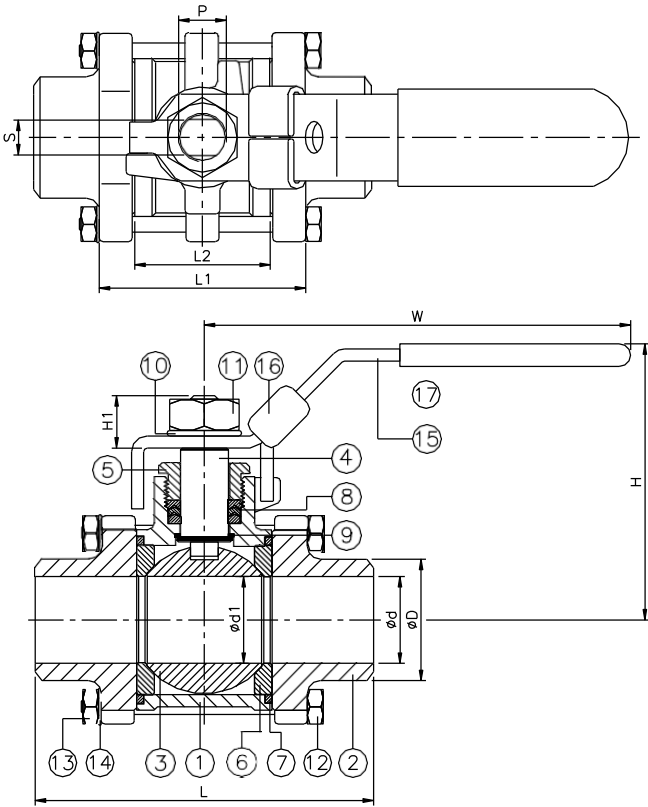
Butt weld ends design

Parts list

Item	part	material
1	Body	stainless steel (A351-CF8M) steel (A216-WCB)
2	Cap	
3	Ball	stainless steel (A351-CF8M)
4	Stem	stainless steel (A276-316)
5	Gland nut	stainless steel (304)
6	Seat	PTFE / RTFE / CTFE
7	Seal	PTFE
8	Packing	
9	Thrust washer	
10	Spring washer	stainless steel (304)
11	Stem nut	
12	Bolt	
13	Nut	
14	Spring washer	
15	Handle	stainless steel
16	Locking device	
17	Handle sleeve	PVC



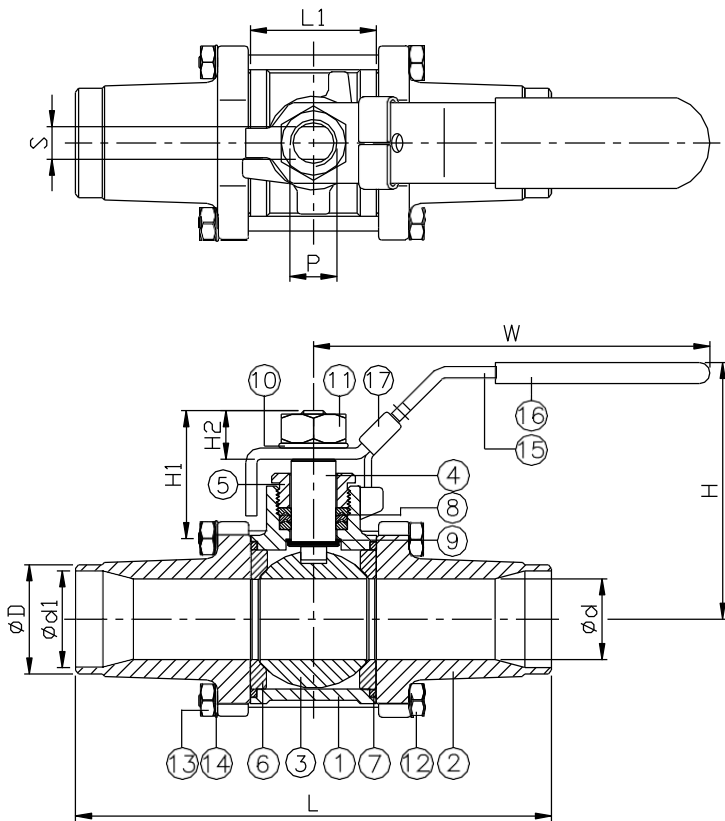
dimensions



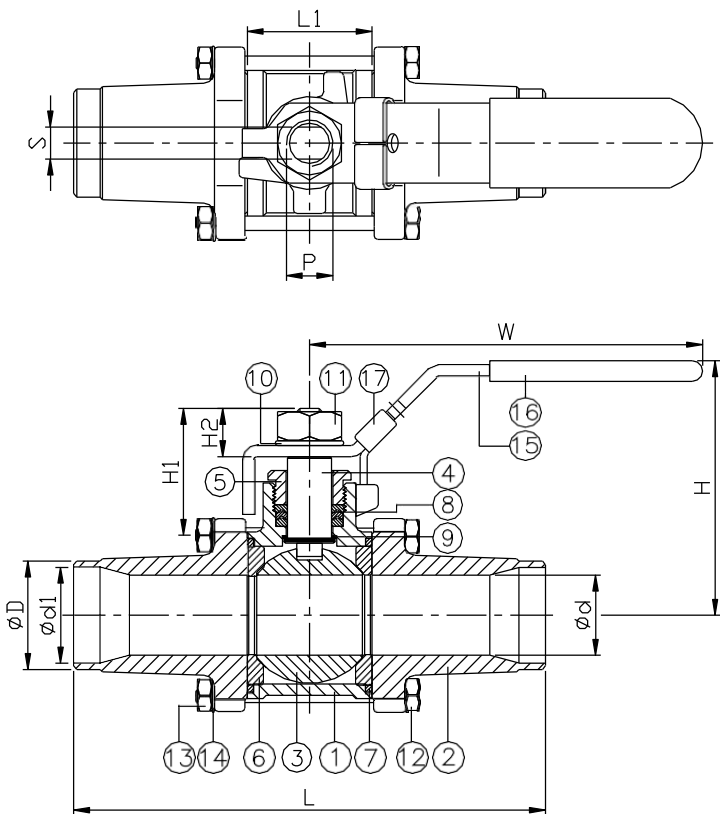
DN	d	d1	D	L	L1	L2	H	H1	W	S	P	torque, Nm	maas, kg
8	8	12.7	13.5	64.5	35.5	21.5	56	9.5	102	5	5/16"UNC	4.5	0.4
10	12.7	12.7	17.5	64.5	35.5	21.5	56	9.5	102	5	5/16"UNC	4.5	0.4
15	15	15	22	66	38	24	57	10.5	102	5	5/16"UNC	5	0.5
20	20	20	27	82	43	28	66	13.5	120.5	6.5	3/8"UNC	8	0.7
25	25	25	34	95	54	35	76	15.5	158.5	8	7/16"UNC	10	1.1
32	32	32	42.5	111.2	65	45	81	15.5	158.5	8	7/16"UNC	14	1.7
40	38	38	48.5	130.6	75	55	98	17.5	188	9	1/2"UNC	19	2.4
50	50	50	61	151	88	66	106	17.5	188	9	1/2"UNC	23	3.6
65	65	65	77	185	114	86	138	33	245	12	3/4"UNC	31	8.9
80	80	80	90	212	132	100	154	33	290	12	3/4"UNC	50	14.9
100	100	100	115	235	158	125	178	42	320	16	1"UNC	60	23.4

Parts list – butt weld ends design

Item	part	material
1	Body	stainless steel (A351-CF8M)
2	Cap	
3	Ball	
4	Stem	stainless steel (A276-316)
5	Gland nut	stainless steel (304)
6	Seat	RTFE
7	Seal	PTFE
8	Packing	
9	Thrust washer	
10	Spring washer	stainless steel (304)
11	Stem nut	
12	Bolt	
13	Nut	
14	Spring washer	stainless steel
15	Handle	
16	Handle sleeve	PVC
17	Locking device	stainless steel



dimensions - welded ends extension design



DN	d	d1	D	L	L1	H	H1	H2	W	S	P	torque, Nm
10	12.7	14	17.2	225	21.5	54	29.7	10.5	102	5	5/16"UNC	-
15	15	17.3	21.3	225	24	57	30.1	10.5	102	5	5/16"UNC	2.5
20	20	22.5	26.5	225	28	66	36.5	13.5	120.5	6.5	3/8"UNC	4.3
25	25	28.3	33.5	245	35	76	40.6	15.5	158.5	8	7/16"UNC	4.6
32	32	37.2	42.4	255	45	81	41.8	15.5	158.5	8	7/16"UNC	7.4
40	38	43.1	48.3	260	55	98	48.5	17.5	188	9	1/2"W	11.4
50	50	53.3	60.3	275	66	106	49.4	17.5	188	9	1/2"W	12.2
65	65	69	76	334	86	138	72.1	33	245	12	3/4"UNC	32.3
80	76	82	90	354	100	154	65.6	33	245	12	3/4"UNC	46.7
100	100	106	115	365	125	178	78.2	39	320	16	1"UNC	92

3-pc. socket weld end ball valve FLT series, type AV02-182

application:

Shut-off valve for liquids and gases flow blockage

nominal diameter	DN 8 – 100
nominal pressure	PN 63
operating temperature	-20 °C up to +200 °C

seal: PTFE

leakage class: A, according to EN 12266

shaft seal type: PTFE

design pressure PS: maximum 63 bar

design temperature TS: -20 °C up to +200 °C

stem: blow-out proof stem

connection: socket welding

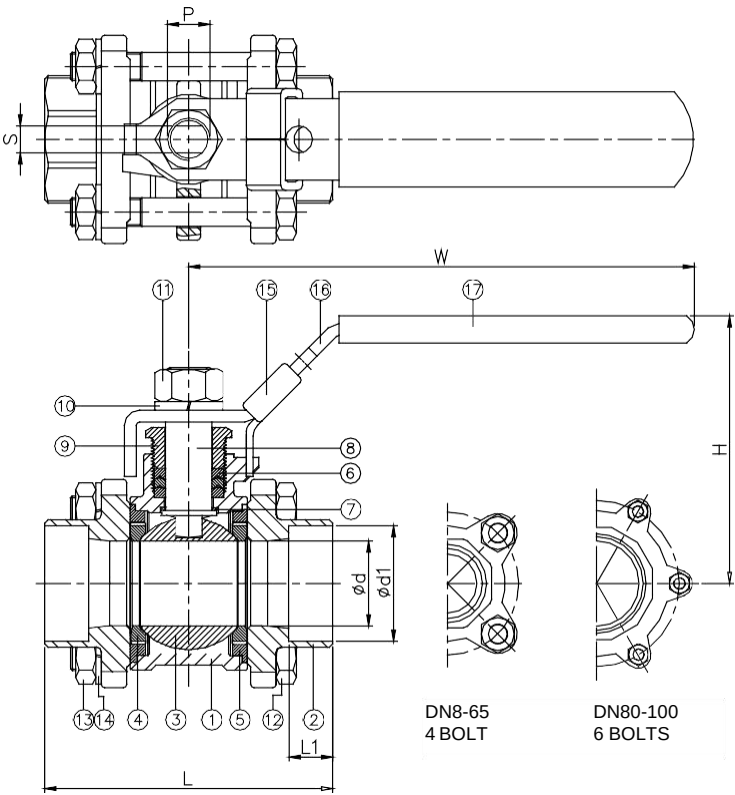
special designs:

- TA-LUFT (fugitive emission approved according to ISO 15848)

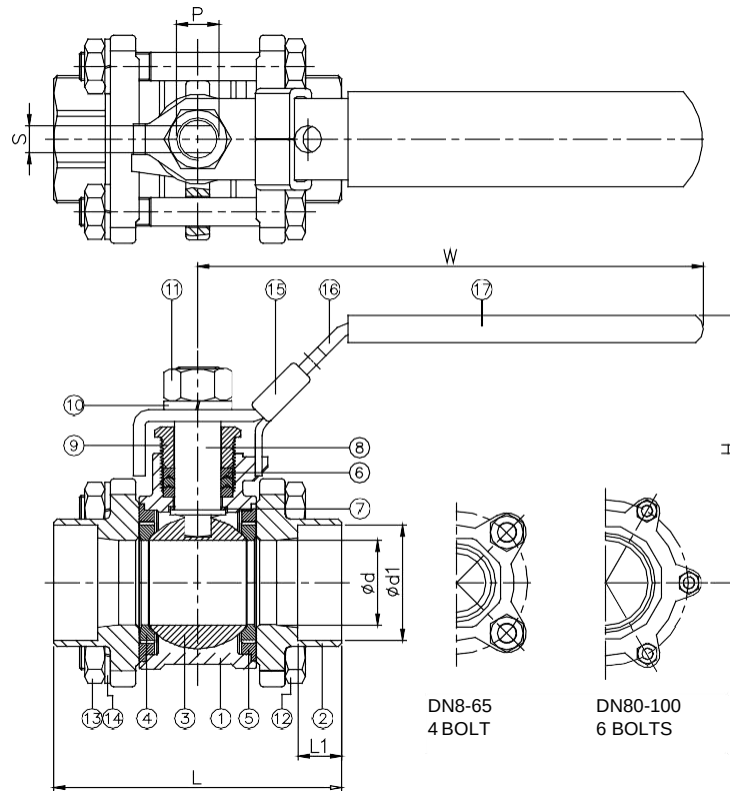


Parts list

Item	part	material	
1	Body	stainless steel (A351- CF8M)	steel (A216- WCB)
2	Cap		
3	Ball	stainless steel (A351- CF8M)	
4	Seat	PTFE / RTFE	
5	Seal	PTFE	
6	Packing		
7	Thrust washer		
8	Stem	stainless steel (A276-316)	
9	Bush	stainless steel 304	
10	Spring ring		
11	Stem nut		
12	Bolt		
13	Nut		
14	Spring washer		
15	Locking device	stainless steel	
16	Handle		
17	Handle sleeve	PVC	



dimensions



DN	d	d1	L	L1	H	W	S	P	torque, Nm	maas, kg
8	11.6	14.5	65	10	60.2	98	5	3/8"-24UNF	3.5	0.4
10	12.5	18	65	10	60.2	98	5	3/8"-24UNF	4	0.4
15	15	22	65	10	62.2	98	5	3/8"-24UNF	5.5	0.5
20	20	27.5	75	13	64.6	121	6.5	7/16"-20UNF	7.5	0.7
25	25	34	85	13	80.1	147	8	7/16"-20UNF	11	1.1
32	32	43	10	13	85.1	147	8	7/16"-20UNF	15	1.6
40	38	49	112	13	103	188	10	1/2"-20UNF	20	2.4
50	50	61	130	16	111	188	10	1/2"-20UNF	40	3.1
65	63	74	162	16	142	245	12	3/4"-10UNC	60	6.5
80	76	90	188	16	150	245	12	3/4"-10UNC	85	9.5
100	96	115.5	224	20	182	316	16	1"-8UNC	150	19

3-pc. socket weld end ball valve FLT series, type AV02-183

application:
High performance heavy duty shut-off and control valve

nominal diameter	DN 15 – 100
nominal pressure	PN 63
operating temperature	-20 °C up to +200 °C

seal: PTFE

leakage class: A, according to EN 12266

shaft seal type: PTFE

design pressure PS: maximum 63 bar

design temperature TS: -20 °C up to +200 °C

stem: blow-out proof stem

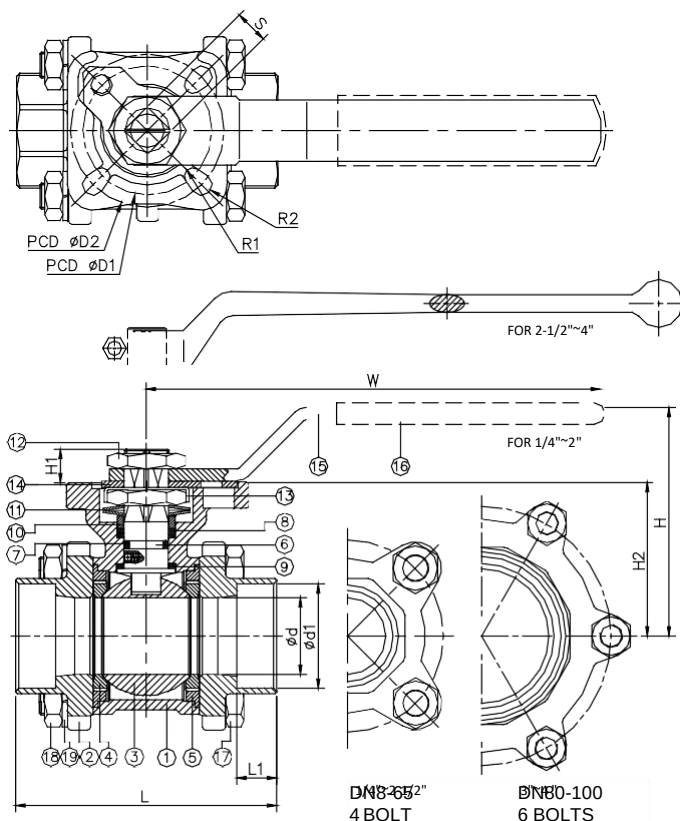
connection: socket welding

- special designs:**
- with flange for actuator installation according to ISO 5211
 - automatic binding (limit switches, solenoid valve, pneumatic and electric actuators).

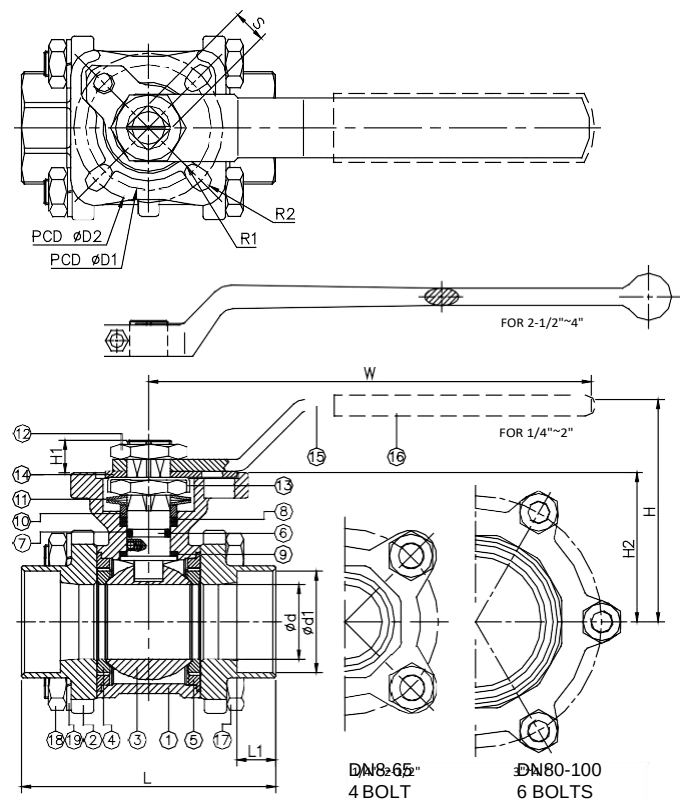


Parts list

Item	part	material	
1	Body	stainless steel (A351- CF8M)	steel (A216- WCB)
2	Cap		
3	Ball	stainless steel (A351- CF8M)	
4	Seat	PTFE / RTFE	
5	Seal	PTFE	
6	Stem	stainless steel (A276-316)	
7	Sealing ring	Viton	
8	Packing	PTFE	
9	Thrust washer		
10	Gland ring	stainless steel 304	
11	Belleville washer	stainless steel 301	
12	Locking washer	stainless steel 304	
13	Locking device		
14	Stem nut		
15	Handle	stainless steel	
16	Handle sleeve	PVC	
17	Bolt	stainless steel 304	
18	Nut		
19	Spring washer		



dimensions



DN	d	d1	L	L1	H	H1	H2	W	S	D1	D2	R1	R2	ISO 5211	torque, Nm	maas, kg
8	11.6	14.5	65	10	61	7.5	35.3	114.5	9	36	42	2.75	2.75	F03/F04	7	-
10	12.5	18	65	10	61	7.5	35.3	114.5	9	36	42	2.75	2.75	F03/F04	7	-
15	15	22	65	10	62.7	7.1	36.4	114.5	9	36	42	2.75	2.75	F03/F04	7	0.6
20	20	27.5	75	13	65.1	7.3	39.5	114.5	9	36	42	2.75	2.75	F03/F04	9	0.7
25	25	34	85	13	76.5	11	49	140	11	42	50	2.75	3.5	F04/F05	15	1.1
32	32	43	10	13	82	9.5	54.2	140	11	42	50	2.75	3.5	F04/F05	18	1.7
40	38	49	112	13	102	12.4	64.6	172	14	50	70	3.5	4.5	F05/F07	25	2.6
50	50	61	130	16	110.1	13.6	72.5	172	14	50	70	3.5	4.5	F05/F07	35	3.7
65	63	74	162	16	127.3	16.3	92	325	17	70	102	4.5	5.5	F07/F10	55	7.4
80	76	90	188	16	136.3	16.3	100	325	17	70	102	4.5	5.5	F07/F10	70	10.3
100	96	115.5	224	20	142.5	20.5	130	325	22	102	125	4.5	6.5	F10/F12	90	19.9

3-pc. flanged end ball valve FLT series, type AV02-184

application:

Shut-off valve for liquids and gases flow blockage

nominal diameter	DN 15 – 100
nominal pressure	PN 40
operating temperature	-20 °C up to +550 °C

leakage class: A, according to EN 12266

stem: blow-out proof stem

shaft seal type: PTFE

design pressure PS: maximum 63 bar

design temperature TS: -20 °C up +200 °C

installation flange: according to ISO 5211

connection: flanged

seal: PTFE

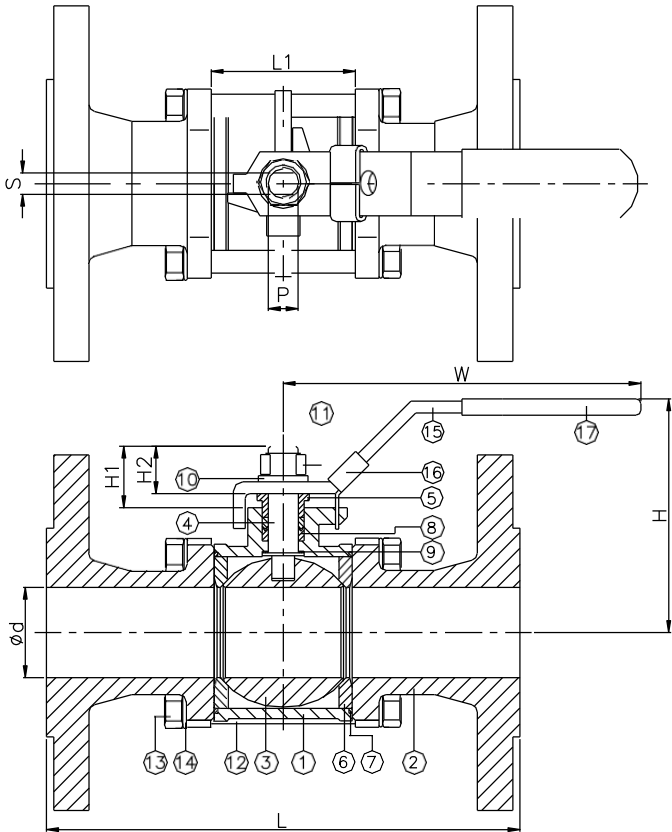
special design:

- antistatic design
- TA-LUFT (fugitive emission approved according to ISO 15848)

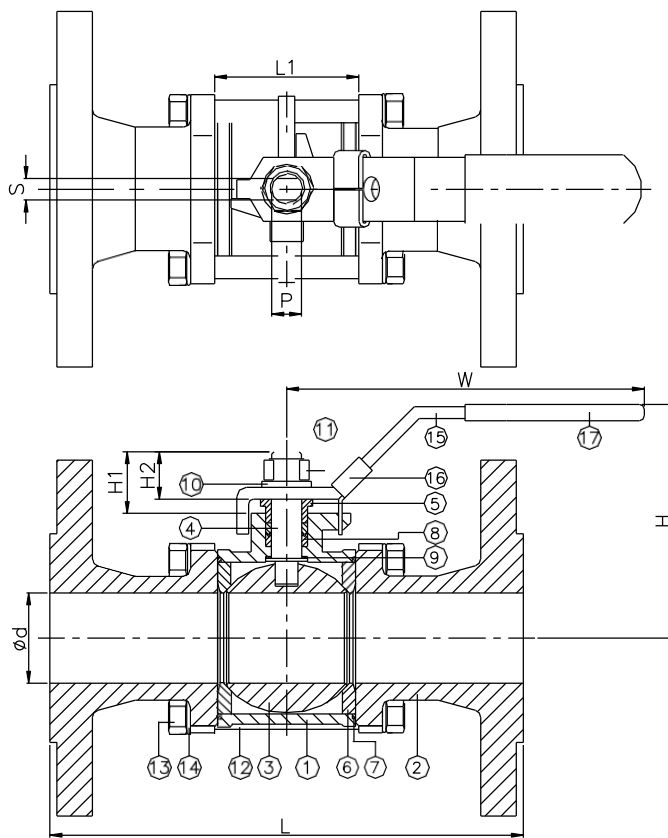


Parts list

Item	part	material	
1	Body	stainless steel (A351- CF8M)	steel (A216- WCB)
2	Bonnet		
3	Ball	stainless steel (A351- CF8M)	
4	Stem	stainless steel (A276- 316)	
5	Gland nut	stainless steel (304)	
6	Seat	PTFE / RTFE	
7	Seal	PTFE	
8	Packing		
9	Thrust washer		
10	Spring washer	stainless steel (304)	
11	Stem nut		
12	Bolt		
13	Nut		
14	Spring washer	stainless steel	
15	Handle		
16	Locking device	PVC	
17	Handle sleeve		



dimensions



DN	d	L	L1	H	H1	H2	W	S	P
15	15	130	24	83	16.2	10.5	152	5	5/16"W
20	20	150	28	92	20.7	13.5	152	6.5	3/8"W
25	25	160	35	86	24.7	15.5	182	8	7/16"W
32	32	180	45	91	21.7	15.5	182	8	7/16"W
40	38	200	55	112	26.7	17.5	214	9	1/2"W
50	50	230	66	115	26.7	17.5	214	9	1/2"W
65	65	290	86	172	42.2	33	314	12	3/4"W
80	80	310	100	188	40.2	33	314	12	3/4"W
100	100	350	125	207	56	42	339	12	1"W

Check valves

Section	series	type	Page
Dual plate check valve	ECV series	AV03-221	134-136
		AV03-222	137-139
Disc check valve	SPW series	AV03-241	140-142
Butterfly check valve	BCV series	AV03-281	143-146
Butterfly check valve welded design		AV03-282	147-150
Tilting disc check valve	BCV-S series	AV03-283	151-153
Flanged end swing check valve	SWC series	AV03-301	154-156
		AV03-302	157-159

dual plate check valve ECV series, type AV03-221

application:
Check valve

nominal diameter	DN 50 – 600
nominal pressure	PN 6/10/16
operating temperature	-40 °C up to +200 °C

mounting length: EN 558-1/2 series 20 ISO 5752

corrosion coating: 100 mic, RAL 7037, other coating on request

connection: wafer EN 1092 PN 6, 10 and 16

seal: non replaceable lining bonded to the body

leakage class:
bi-directional – according to EN 12266 rate A

shaft seal design: O-ring bush

stem: Blow-out proof stem according to EN 736/3 and API 609 with indication for position of the disc

special design:
• antistatic design: according to EN 736/3 and API 609

design pressure PS: maximum 16 bar

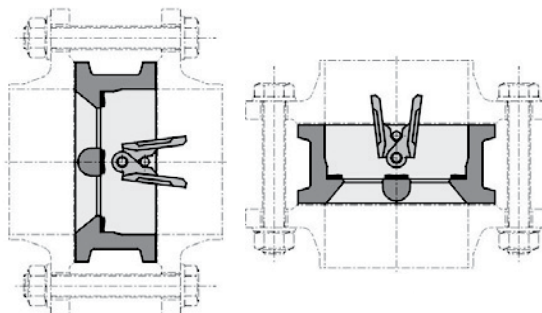
design temperature TS: - 40 °C up to +200 °C

flow velocity: max. 5 m/s for liquids, max. 50 m/s for gases



nominal diameter DN	operating pressure EN 12266 PN bar	flanges PN bar
50 – 600	16	6
50 – 600	16	10
50 – 600	16	16

**Preferred position when installed: in
horizontal or vertical pipeline**



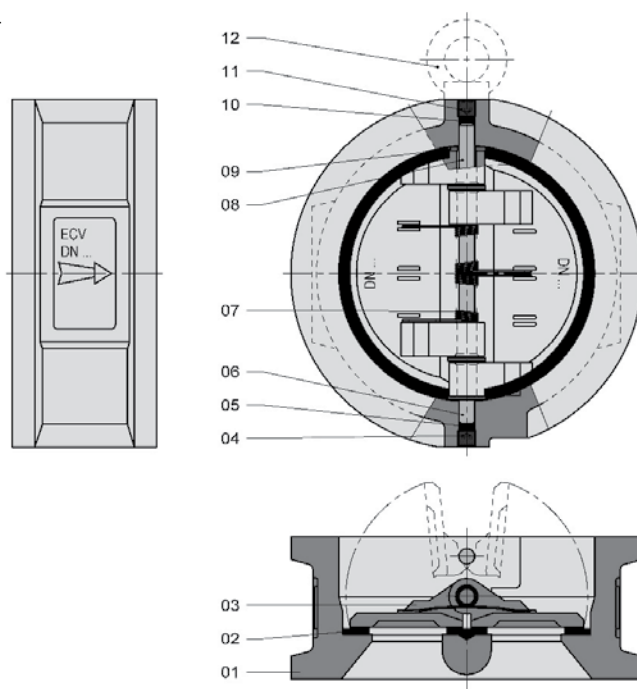
Parts list – DN – 50 – 600

Item	part	material ⁽¹⁾	EN/DIN
01	Body	Cast iron Ductile iron Aluminum bronze ⁽³⁾ Austenitic stainless steel	JL 1040, EN 1561 JS 1030, EN 1563 G-CuAl10Ni, DIN 1714 1.4408
02	Seat	EPDM NBR FPM	
03	Disc	Aluminum bronze Austenitic stainless steel	G-CuAl10Ni, DIN 1714 1.4408
04	Plug	Bronze Steel / Zn5C Stainless steel – A4	
05	Seal	EPDM NBR FPM	
06	Shaft	Austenitic stainless steel Aluminum bronze	1.4401, EN 10088 CW307G, EN 12163
07	Spring	Austenitic stainless steel Inconel- X750® ⁽³⁾	1.4401, EN 10088 -
08	Stop pin	Austenitic stainless steel Aluminum bronze	1.4401, EN 10088 CW307G, EN 12163
09	Washer	Stainless steel	
10	Seat	EPDM NBR FPM	
11	Plug	Bronze Steel / Zn5C Stainless steel - A4	
12	Eyebolt ⁽²⁾	Steel / Zn5C	

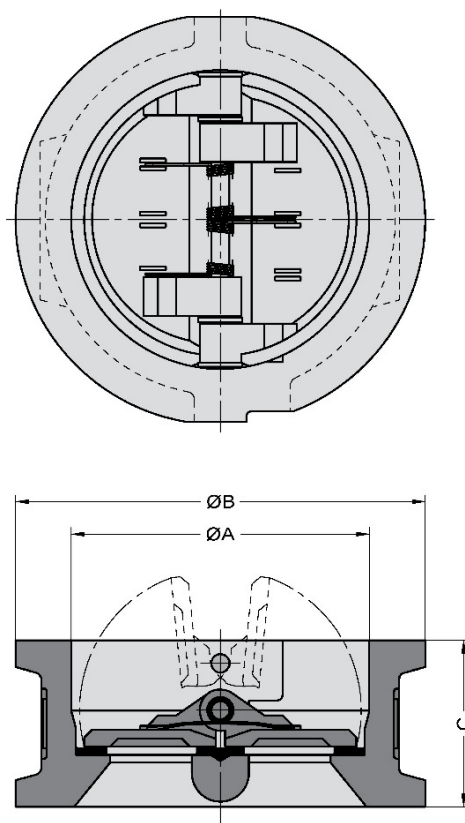
⁽¹⁾ Other materials on request

⁽²⁾ For ≥ DN 250

⁽³⁾ Preferred material for sea water or
brackish water duty



dimensions – DN – 50 – 600



DN	A	C	D	maas, kg
50	67	100	43	1.3
65	84	118	46	1.8
80	100	140	64	3.5
100	115	158	64	4.5
125	135	188	70	6.5
150	160	212	76	8.5
200	210	268	89	13
250	256	325	114	24
300	306	375	114	36
350	356	430	127	45
400	406	482	140	60
450	466	554	152	85
500	486	620	152	105
600	600	733	178	150

* Other nominal diameters on request.

**dual plate check valve ECV series, type
AV03-222**

application:
for change prevention of working medium flow
direction

nominal diameter	DN 50 – 1200
nominal pressure	PN 10/16/40
operating temperature	-20 °C up to +200 °C

connection: wafer

leakage class: A, according to EN 12266

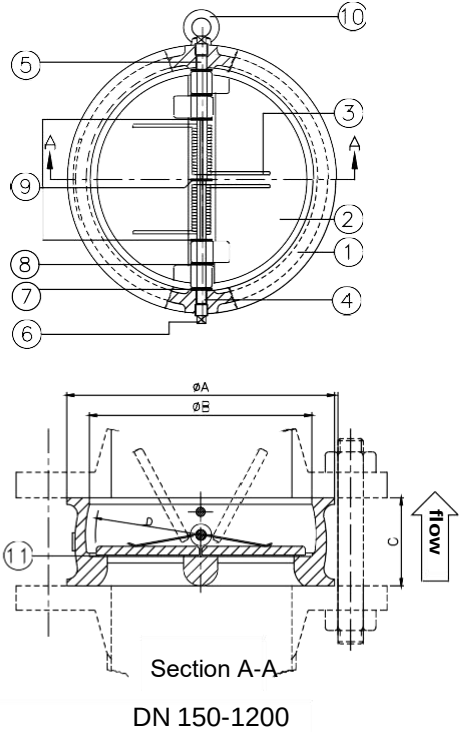
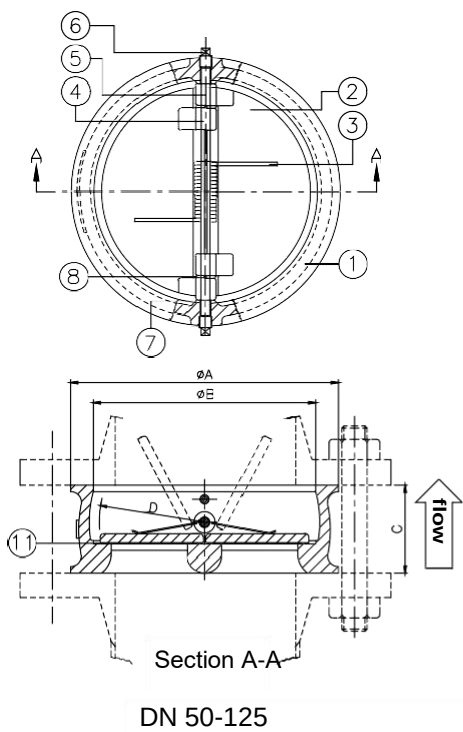
seal: NBR / EPDM / Viton

on request: metallic seal

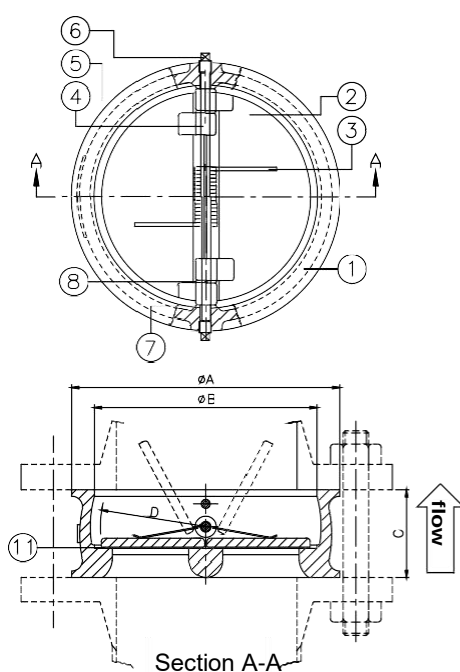


Parts list

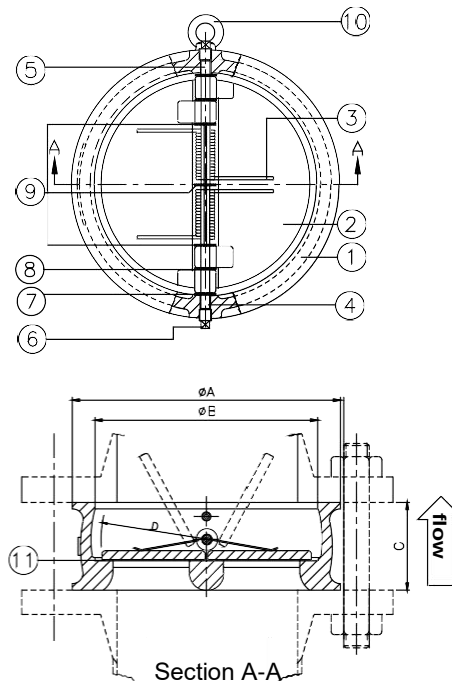
Item	part	material
1	Body	stainless steel (A351- CF8M) steel (A216 WC B) Ductile iron
2	Plate	steel (A216- WCB) / stainless steel (A351-CF8) stainless steel (A351- CF8M) / stainless steel (A351-CF3M)
3	Spring	stainless steel (316 WPA)
4	Hinge pin	stainless steel (304) / stainless steel (316)
5	Stop pin	
6	Plug	S25C
7	Body bearing	Teflon
8	Plate bearing	
9	Spring bearing	
10	Bolt	SS41
11	Seal	NBR / EPDM / Viton Same materials as the plate 410ss coating / stellite



dimensions



DN 50-125



DN 150-1200

DN	A	B	C	D	maas, kg
50	109	60	54	32	3
65	129	73	54	37	4
80	144	89	57	45	5
100	164	114	64	53	6
125	194	141	70	67	9
150	220	168	76	79	10
200	275	219	95	105	19
250	331	273	108	123	31
300	386	324	143	155	56
350	446	356	184	170	71
400	498	406	191	195	99
450	558	457	203	219	118
500	620	508	213	244	180
600	737	610	222	292	258
700	807	711	321	337	580
800	914	813	356	397	526
900	1014	914	368	440	656
1000	1131	1016	419	495	1010
1200	1345	1219	524	603	1926

* Other nominal diameters on request.

disc check valve SPW series, type AV03-241

application:

for change prevention of working medium flow
direction

nominal diameter	DN 8 – 200
nominal pressure	PN 40/3
operating temperature	-20 °C up to +200 °C

connection:

- wafer (DN15 – 200)
 - Butt weld end / Socket weld end
- Screwed end (DN8 – 100)

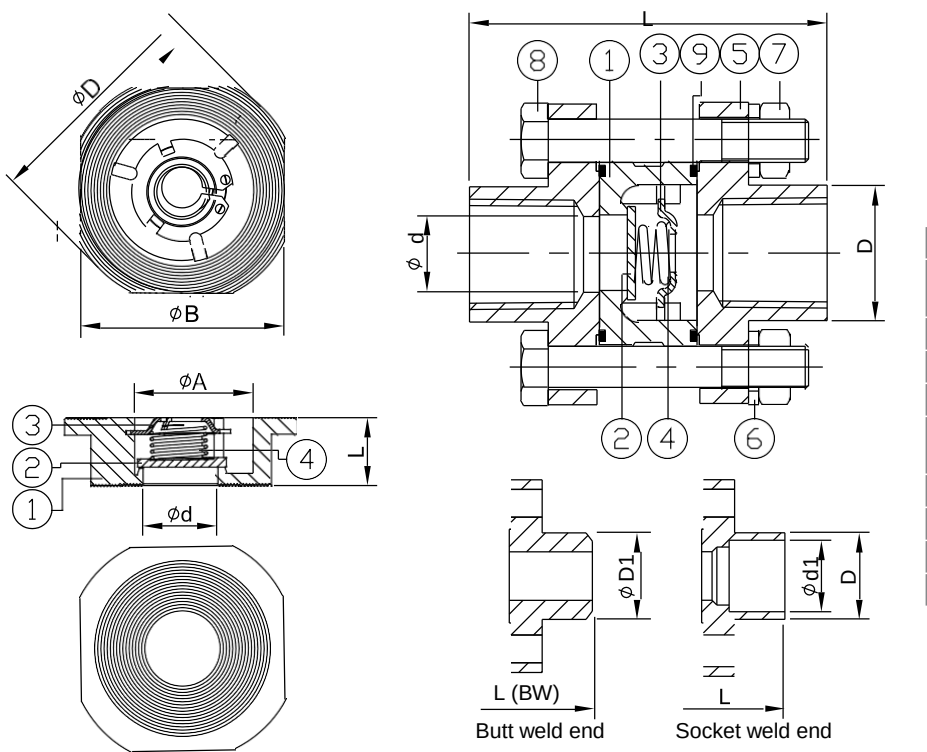
leakage class: A, according to EN 12266

seal: PTFE

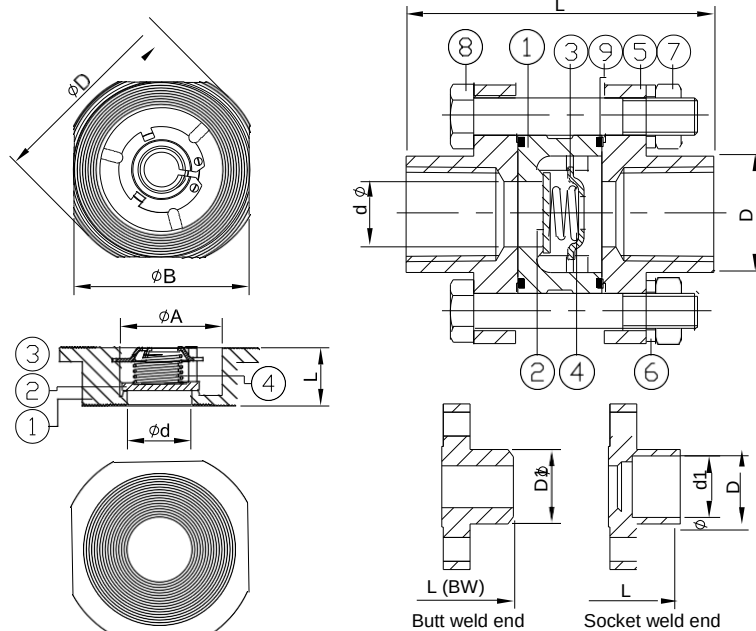


Parts list

Item	part	material	
1	Body	stainless steel (A351-CF8M) stainless steel (1.4408)	steel (A216- WCB) steel (1.0619)
2	Spring holder	stainless steel (A240-316)	stainless steel (A240-304)
3	Disc		
4	Spring	stainless steel (316)	stainless steel (304)
5	End cap	stainless steel (A351-CF8M) stainless steel (1.4408)	steel (A216- WCB) steel (1.0619)
6	Washer	stainless steel (304)	
7	Nut		
8	Bolt		
9	Seal	PTFE	



dimensions



DN	d	D	L	A	B	maas, kg
15	12.5	54	16	34	44.6	0.1
20	20	62	19	39	54	0.2
25	25	73	22	46	65	0.2
32	32	83	28	60	78	0.4
40	38	93	31.5	70	88	0.6
50	49	107	40	79	101.6	0.8
65	64	126.5	46	10	120.4	1.4
80	78	141.2	49	109	133	2
100	98	171.4	60	134	164	3
125	-	-	90	190	-	10
150	-	-	105	220	-	13
200	-	-	140	270	-	24
250	-	-	150	345	-	35
300	-	-	160	410	-	50

DN	d	d1	D	D1	L	L (BW)	maas, kg
8	10	14.2	22	18	60	66	0.3
10	12.5	17.5	22	20.5	60	66	0.2
15	14	21.8	26	22	63	67	0.4
20	19	27.4	32	28	71	81	0.5
25	25	34.1	39	31.5	81.5	89.5	0.7
32	31	42.7	49	40	91	92	1.3
40	39	49	56	46	97.5	103.5	1.7
50	49	61	69	60	117	117	2.5
65	64	77	83	78	131.5	131.5	4.3
80	78	90.2	100	91.5	143.5	143.5	6.2
100	97	115.3	122.5	116	174.5	174.5	11

butterfly check valve BCV series, type AV03-281

application:
Nonflammable liquids and gases with temperature up to 60 °C

nominal diameter	DN 200 – 1400
nominal pressure	PN 10/16/25/40
operating temperature	to 60 °C

mounting length: according to EN 558 SERIES 14

corrosion coating: epoxy, 250 mic RAL 7037, other coating on request

connection: flanged according to EN 1092-2, on request flanges GOST etc.

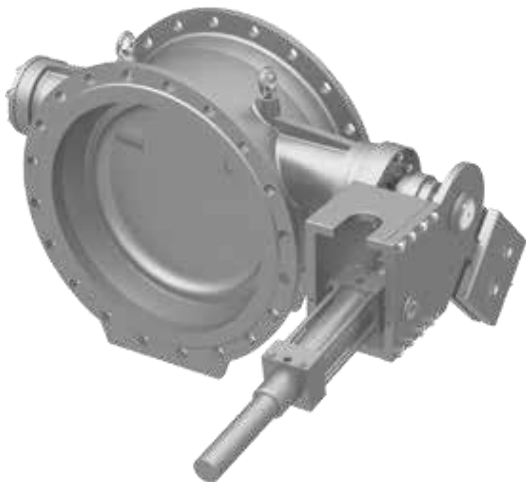
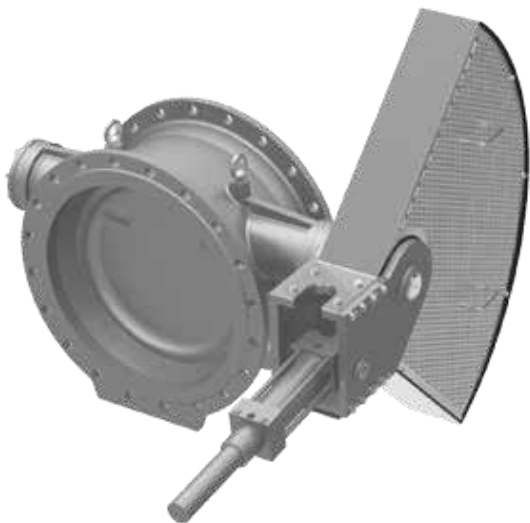
leakage class: A, according to EN 12266

operation: lever with weight

- special design:**
- With protection hood
 - With liquid damper
 - With ball valve
 - By-pass
 - Limit switches



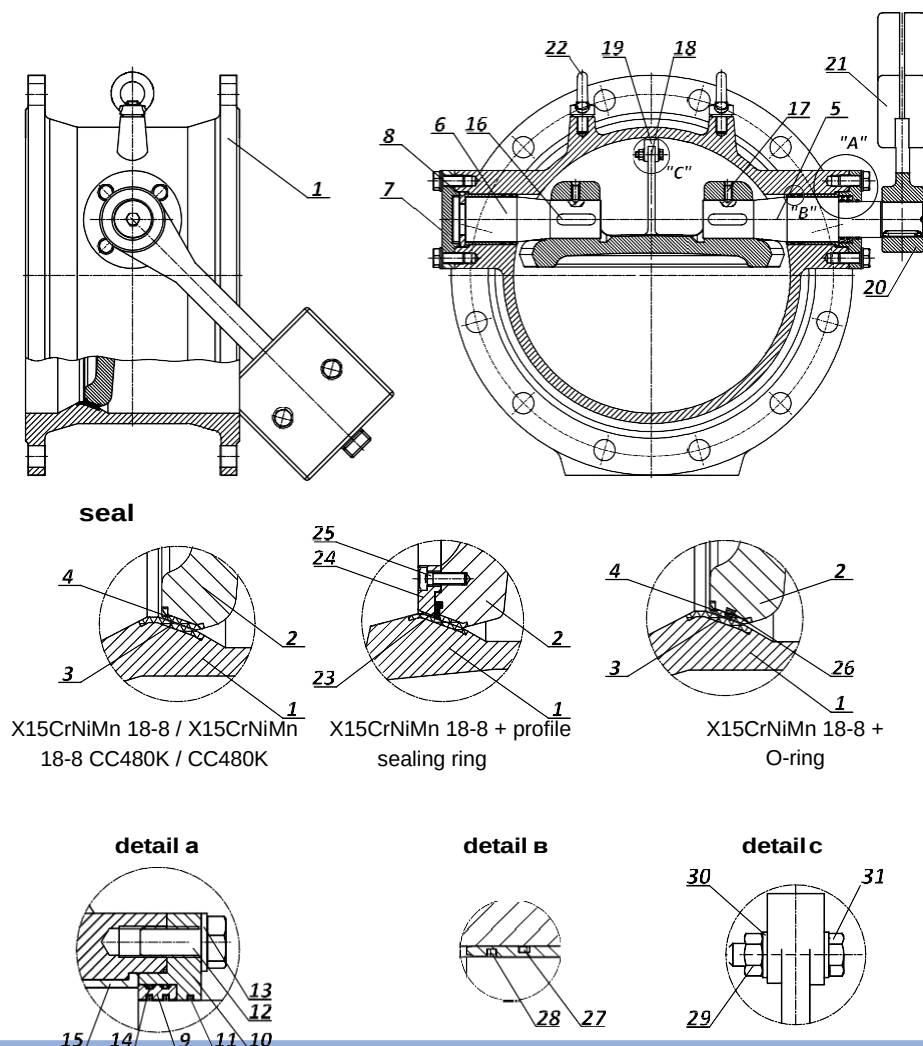
nominal diameter DN	operating pressure EN 12266 PN bar	flanges PN bar
200 – 1600	10	10
200 – 1600	16	16
200 – 800	25	25
200 – 400	40	40



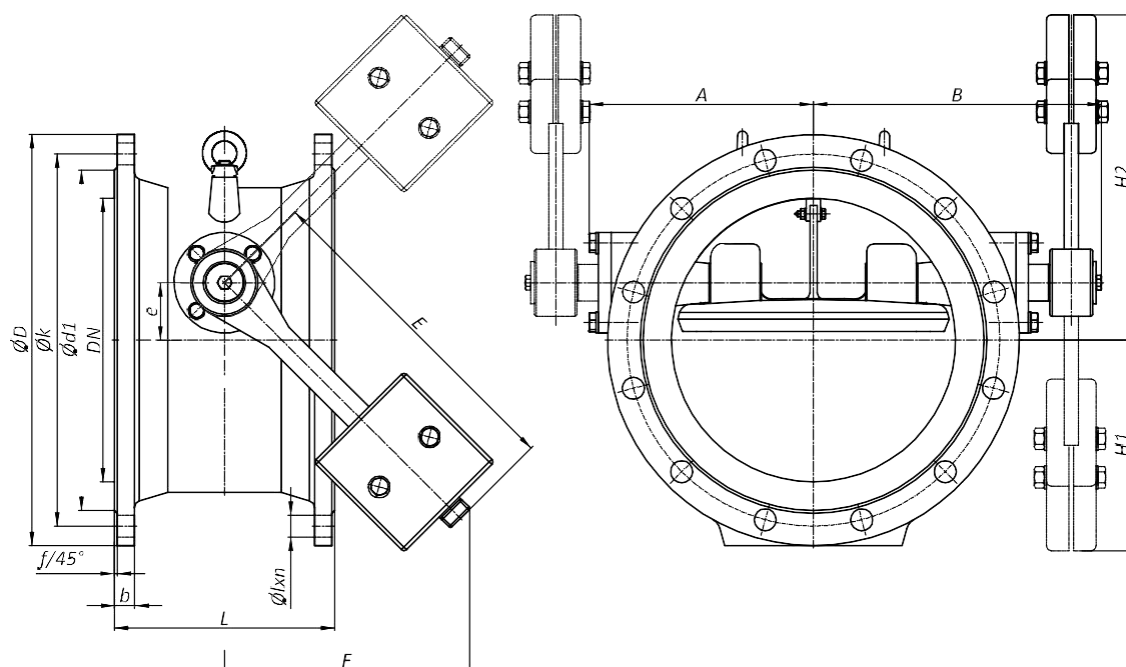
Parts list

Item	part	material	Item	part	material
1	body	EN-GJS-400-15	17	screw	A4
2	flap	EN-GJS-400-15	18	flap teil	EN-GJS-400-15
3	body seat ring	CC480K	19	rubber bumper	EPDM
4	flap seat ring	CC480K	20	lever	EN-GJS-400-15
5	driven shaft	X20Cr13	21	weight	EN-GJS-400-15
6	shaft	X20Cr13	22	eye nut	C15
7	cover	EN-GJS-400-15	23	profile sealing ring	EPDM
8	axial bearing	CC493K	24	retaining ring	EN-GJS-400-15
9	sealing bush	CC493K	25	screw	A4
10	sealing bush cover	EN-GJS-400-15	26	O-ring	EPDM
11	O-ring	EPDM	27	O-ring	EPDM
12	screw	8.8 galv.	28	O-ring	EPDM
13	washer	galv.	29	nut	A4
14	O-ring	EPDM	30	plate	A4
15	bearing bush	CC493K	31	screw	A4
16	parallel key	X20Cr13			

Standard materials are given in the table. Other materials - on request.



dimensions – PN10/16



PN 10

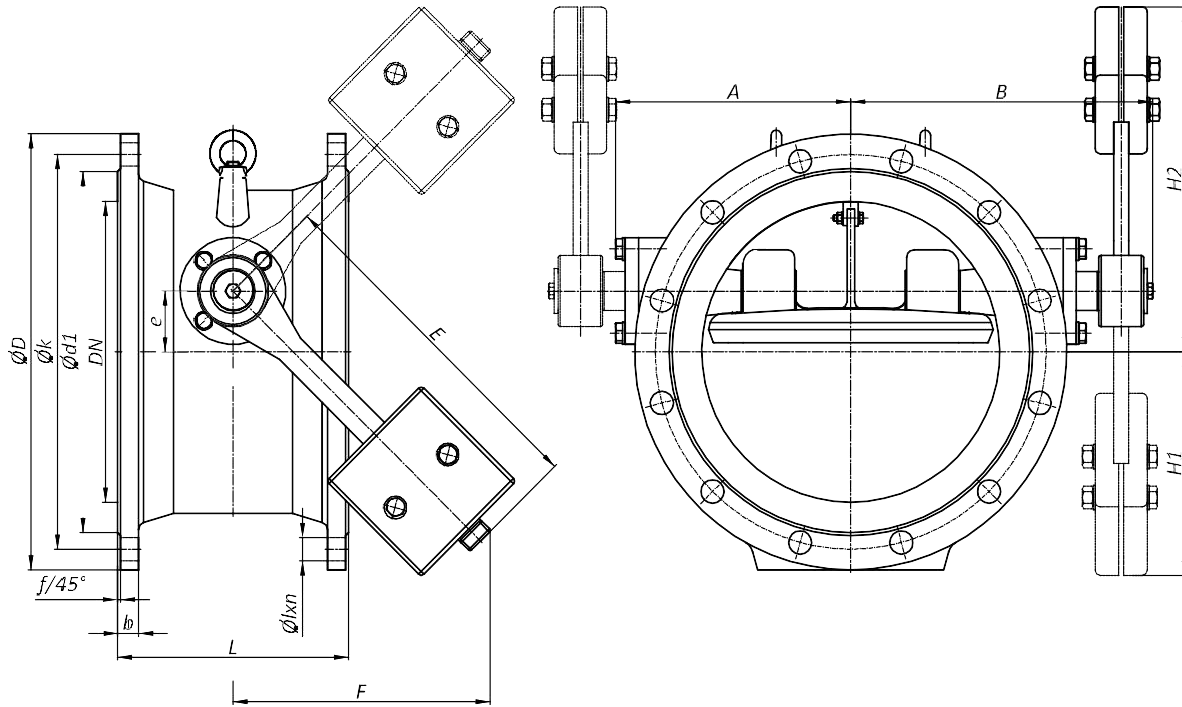
DN	L	D	k	d ₁	n	l	b	f	e	A	B	F	E	H ₁	H ₂	maas, kg
200	230	340	295	266	8	23	20	3	40	204,5	254,5	213	300	213	293	54
250	250	395	350	319	12	23	22	3	48	237	306	213	300	205	301	70
300	270	445	400	370	12	23	24,5	4	62	260	400	319	450	305	429	95
350	290	505	460	429	16	23	24,5	4	70	276	359	319	450	298	438	140
400	310	565	515	480	16	28	24,5	4	81	315	446,5	425	600	407	569	190
450	330	615	565	530	20	28	25,5	4	90	360	454,5	425	600	398	578	210
500	350	670	620	582	20	28	26,5	4	100	365	464	425	600	388	588	240
600	390	780	725	682	20	31	30	5	124	500	622	460	650	421	669	360
700	430	895	840	794	24	31	32,5	5	145	480	610	531	750	471	761	520
800	470	1015	950	901	24	34	35	5	165	550	670	601	850	521	851	650
900	510	1115	1050	1001	28	34	37,5	5	160	606	855	691	980	636	956	910
1000	550	1230	1160	1112	28	37	40	5	203	642,5	810	601	850	499	905	1200
1200	630	1455	1380	1218	32	41	45	5	300	800	940	750	1100	609	1209	2000

PN 16

DN	L	D	k	d ₁	n	l	b	f	e	A	B	F	E	H ₁	H ₂	maas, kg
200	230	340	295	266	12	23	20	3	40	204,5	254,5	213	300	213	293	54
250	250	405	355	319	12	28	22	3	48	237	306	213	300	205	301	70
300	270	460	410	370	12	28	24,5	4	62	260	400	319	450	305	429	95
350	290	520	470	429	16	28	26,5	4	70	276	359	319	450	298	438	140
400	310	580	525	480	16	31	28	4	81	315	446,5	425	600	407	569	190
450	330	640	585	548	20	31	30	4	90	360	454,5	425	600	398	578	210
500	350	715	650	609	20	34	31,5	4	100	365	464	425	600	388	588	240
600	390	840	770	720	20	37	36	5	124	500	622	460	650	421	669	360
700	430	910	840	794	24	37	39,5	5	145	480	610	531	750	471	761	520
800	470	1025	950	901	24	41	43	5	165	550	670	601	850	521	851	650
900	510	1125	1050	1001	28	41	46,5	5	160	606	855	691	980	636	956	910
1000	550	1255	1170	1112	28	44	50	5	203	642,5	810	601	850	499	905	1200
1200	630	1485	1390	1218	32	50	57	5	300	800	940	750	1100	609	1209	2350

Other nominal diameters on request.

dimensions – PN25/40



PN 25

DN	L	D	k	d ₁	n	l	b	f	e	A	B	F	E	H ₁	H ₂	maas, kg
200	230	360	310	274	12	28	22	3	40	204,5	254,5	213	300	213	293	60
250	250	425	370	330	12	31	24,5	3	48	237	306	213	300	205	301	77
300	270	485	430	389	16	31	27,5	4	62	260	400	319	450	305	429	105
350	290	555	490	448	16	34	30	4	70	276	359	319	450	398	438	153
400	310	620	550	503	16	38	32	4	81	315	446,5	425	600	407	569	200
500	350	730	660	609	20	38	36,5	4	100	365	464	425	600	388	588	264
600	390	845	770	720	20	41	42	5	124	500	622	460	600	421	669	396
700	430	960	875	820	24	44	46,5	5	145	480	610	531	750	471	761	572
800	470	1085	990	928	24	50	51	5	165	550	670	601	850	521	851	715

PN 40

DN	L	D	k	d ₁	n	l	b	f	e	A	B	F	E	H ₁	H ₂	maas, kg
200	230	375	320	284	12	31	30	3	40	204,5	254,5	213	300	213	293	64
250	250	450	385	345	12	34	34,5	3	48	237	306	213	300	205	301	85
300	270	515	450	409	16	34	39,5	4	62	260	400	319	450	305	429	110
350	290	580	510	465	16	38	44	4	70	276	359	319	450	298	438	158
400	310	660	585	535	16	41	48	4	81	315	446,5	425	600	407	569	210

Other nominal diameters on request.

butterfly check valve type welded design
BCV series, type AV03-282

application:
Nonflammable liquids and gases with temperature up to 60 °C

nominal diameter	DN 150 – 2000
nominal pressure	PN 10/16/25/40
operating temperature	to 60 °C

mounting length: according to EN 558 SERIES 14

corrosion-resistant coating: C4H according to ISO 12944

connection: flanged according to EN 1092-2, on request: flanges GOST etc.

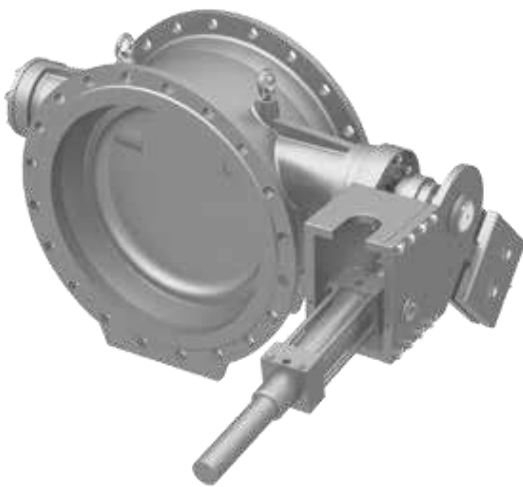
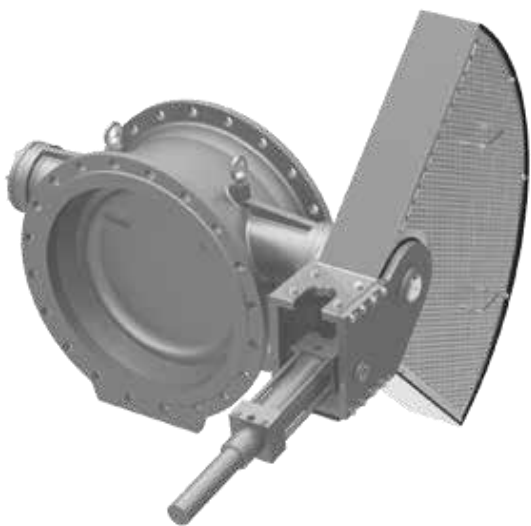
leakage class: A, according to EN 12266

operation: lever with weight

- special design:
- With protection hood
 - With liquid damper
 - With ball valve
 - By-pass
 - Limitswitches



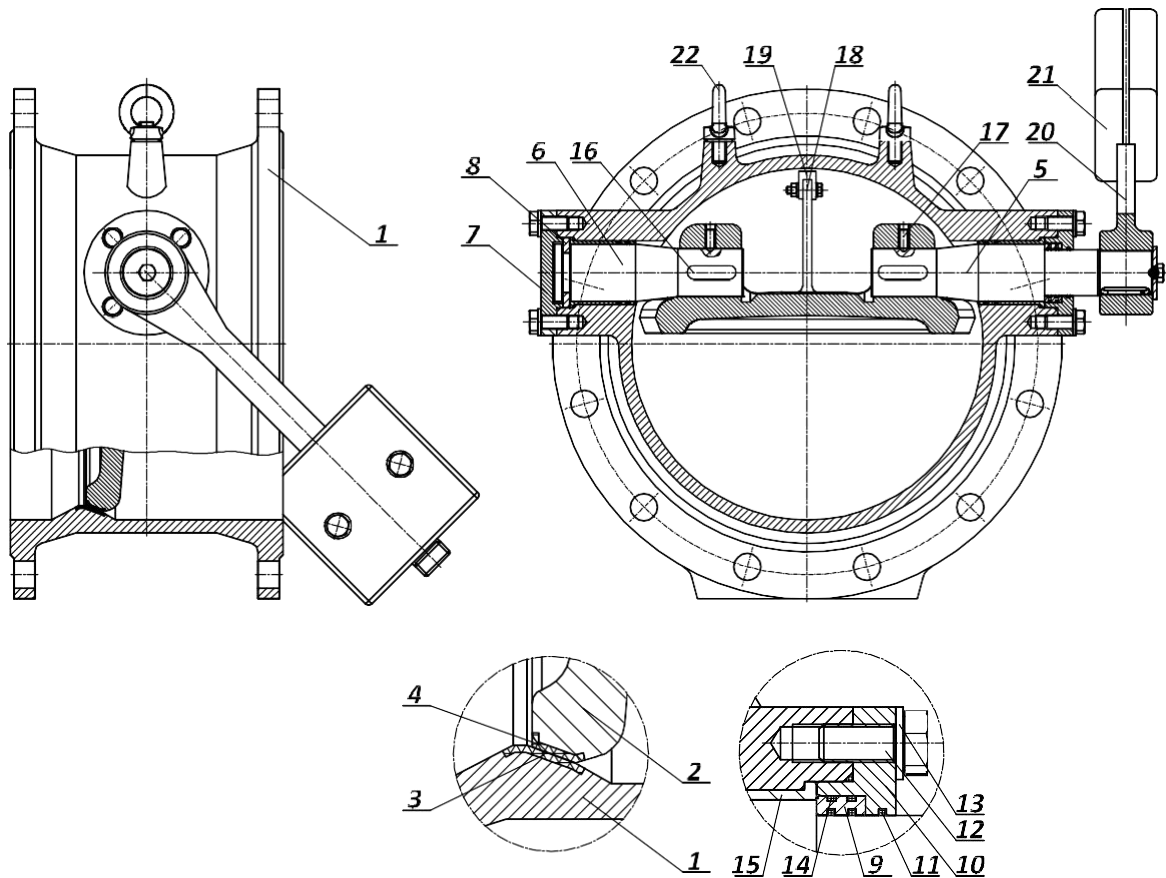
nominal diameter DN	operating pressure EN 12266 PN bar	flanges PN bar
150 – 2000	10	10
150 – 2000	16	16
150 – 1000	25	25
150 – 400	40	40

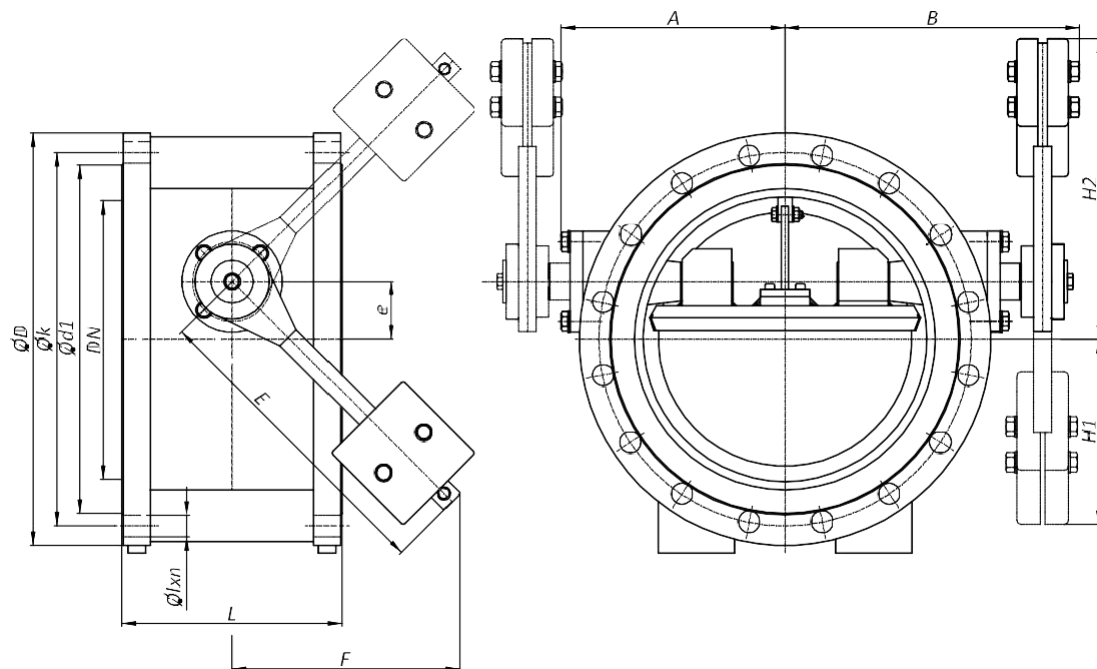


Parts list

Item	part	material	Item	part	material
1	body	S355J12+N	12	screw	8.8 galv.
2	flap	S355J12+N	13	washer	galv.
3	body seat ring	X5CrNi 18-10	14	O-ring	EPDM
4	flap seat ring	NIRO	15	bearing bush	CC493K
5	driven shaft	X20Cr13	16	parallel key	X20Cr13
6	shaft	X20Cr13	17	screw	A4
7	axial bearing	CC493K	18	retainer	S355J2+N
8	bonnet	S355J2+N	19	rubber bumper	EPDM
9	sealing bush	CC493K	20	lever	S355J2+N
10	sealing bush cover	S355J2+N	21	weight	S355J2+N
11	O-ring	EPDM			

Standard materials are given in the table. Other materials - on request.



dimensions – PN 10/16/25/40


PN 10		Welded design												
DN	L	D	k	d ₁	n	l	e	A	B	F	E	H ₁	H ₂	maas, kg
150	210	285	240	212	8	23	30	180	230	225	300	195	255	40,5
200	230	340	295	268	8	23	40	240	250	225	300	185	265	64
250	250	395	350	320	12	23	48	290	310	225	300	175	271	80
300	270	445	400	370	12	23	62	320	340	318	450	256	380	110
350	290	505	460	430	16	23	70	350	380	318	450	248	388	160
400	310	565	515	482	16	28	81	380	410	442	600	361	523	192
450	330	615	565	532	20	28	90	390	420	442	600	352	532	210
500	350	670	620	585	20	28	100	440	490	442	600	342	542	240
600	390	780	725	685	20	31	124	500	555	442	600	318	566	360
700	430	895	840	800	24	31	145	570	630	495	700	350	640	520
800	470	1015	950	905	24	34	165	650	700	566	800	401	731	650
900	510	1115	1050	1005	28	34	185	720	770	707	1000	522	892	910
1000	550	1230	1160	1110	28	37	203	790	840	707	1000	504	910	1200
1200	630	1455	1380	1330	32	41	300	795	915	742	1050	442	1042	2000
1400	710	1675	1590	1535	36	44	350	925	1150	778	1100	428	1128	2700
1600	790	1915	1820	1760	40	50	290	1050	1400	1132	1600	842	1422	5432
1800	870	2115	2020	1960	44	50	300	1255	1605	1273	1800	978	1568	6440
2000	950	2325	2230	2170	48	50	300	1460	1800	1414	2000	1114	1714	8700

Other nominal diameters on request.

PN 16		Welded design												
DN	L	D	k	d ₁	n	l	e	A	B	F	E	H ₁	H ₂	maas, kg
150	210	285	240	212	8	23	30	180	230	225	300	195	255	40,5
200	230	340	295	268	12	23	40	240	250	225	300	185	265	64
250	250	405	355	320	12	28	48	290	310	225	300	175	271	80
300	270	460	410	378	12	28	62	320	340	318	450	256	380	110
350	290	520	470	438	16	28	70	350	380	318	450	248	388	160
400	310	580	525	490	16	31	81	380	410	442	600	361	523	210
450	330	640	585	550	20	31	90	390	420	442	600	352	532	230
500	350	715	650	610	20	34	100	440	490	442	600	342	542	270
600	390	840	770	725	20	38	124	500	555	442	600	318	566	390
700	430	910	840	795	24	38	145	570	630	495	700	350	640	570
800	470	1025	950	900	24	41	165	650	700	566	800	401	731	730
900	510	1125	1050	1000	28	41	185	720	770	707	1000	522	892	990
1000	550	1255	1170	1115	28	44	203	790	840	707	1000	504	910	1310
1200	630	1485	1390	1330	32	50	300	795	915	742	1050	442	1042	2350
1400	710	1685	1590	1530	36	50	350	925	1150	778	1100	428	1128	3200
1600	790	1930	1820	1750	40	57	290	1050	1400	1132	1600	842	1422	5800
1800	870	2130	2020	1950	44	57	300	1255	1605	1273	1800	978	1568	6900
2000	950	2345	2230	2150	48	62	300	1460	1800	1414	2000	1114	1714	9300

PN 25		Welded design												
DN	L	D	k	d ₁	n	l	e	A	B	F	E	H ₁	H ₂	maas, kg
200	230	360	310	278	12	27	40	240	250	225	300	185	265	64
250	250	425	370	335	12	31	48	290	310	225	300	175	271	80
300	270	485	430	395	16	31	62	320	340	318	450	256	380	110
350	290	555	490	450	16	34	70	350	380	318	450	248	388	160
400	310	620	550	505	16	38	81	380	410	442	600	361	523	210
500	350	730	660	615	20	38	100	440	490	442	600	342	542	270
600	390	845	770	720	20	41	124	500	555	442	600	318	566	390
700	430	960	875	820	24	44	145	570	630	495	700	350	640	570
800	470	1085	990	930	24	50	165	650	700	566	800	401	731	730

PN 40		Welded design												
DN	L	D	k	d ₁	n	l	e	A	B	F	E	H ₁	H ₂	maas, kg
200	230	375	320	285	12	31	40	240	250	225	300	185	265	64
250	250	450	385	345	12	34	48	290	310	225	300	175	271	85
300	270	515	450	410	16	34	62	320	340	318	450	256	380	115
350	290	580	510	465	16	38	70	350	380	318	450	248	388	160
400	310	660	585	535	16	41	81	380	410	442	600	361	523	215

tilting disc check valve BCV-S series, type AV03-283

application:
Nonflammable liquids and gases with temperature up to 60 °C

nominal diameter	DN 400 – 1000
nominal pressure	PN 10/16
operating temperature	to 60 °C

mounting length: according to EN 558 SERIES 14

corrosion coating: epoxy, 250 mic RAL 7037, other coating on request

connection: flanged according to EN 1092-2, on request: flanges GOST etc.

leakage class: A, according to EN 12266

operation: without lever and weight

special designs:
• with liquid damper

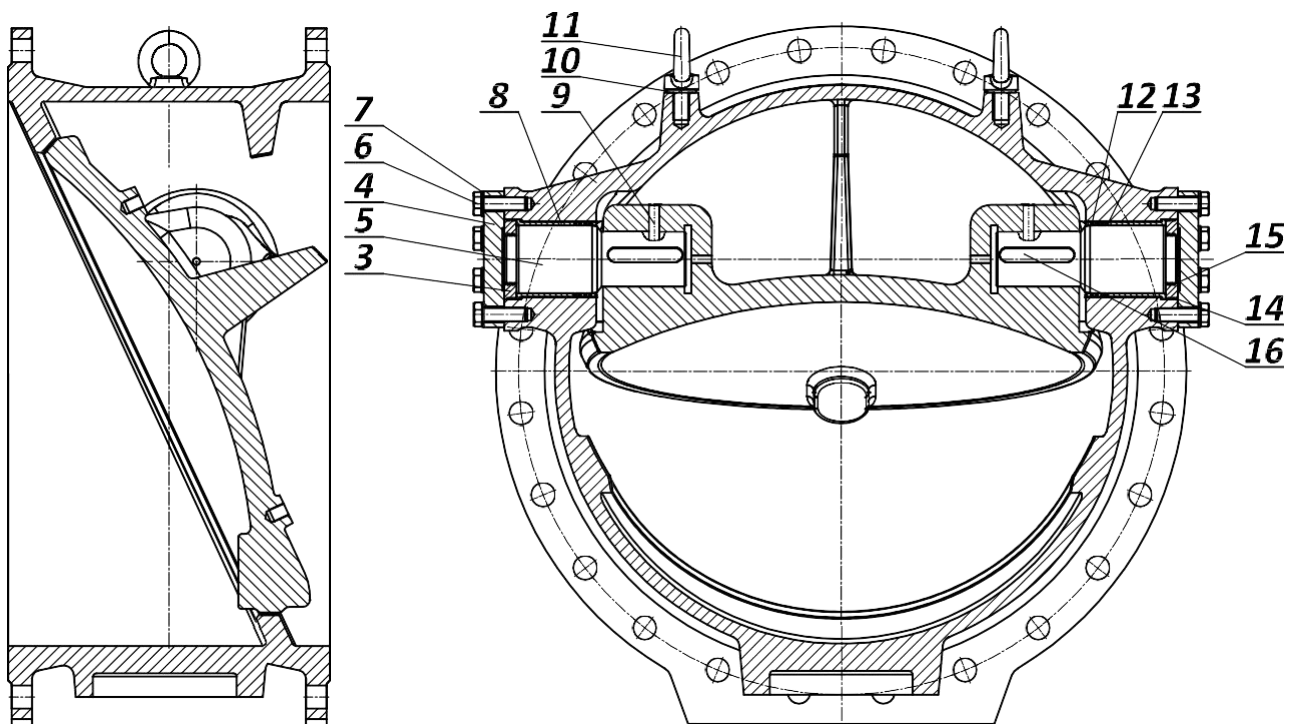


nominal diameter DN	operating pressure EN 12266 PN bar	flanges PN bar
400 – 1000	10	10
400 – 1000	16	16

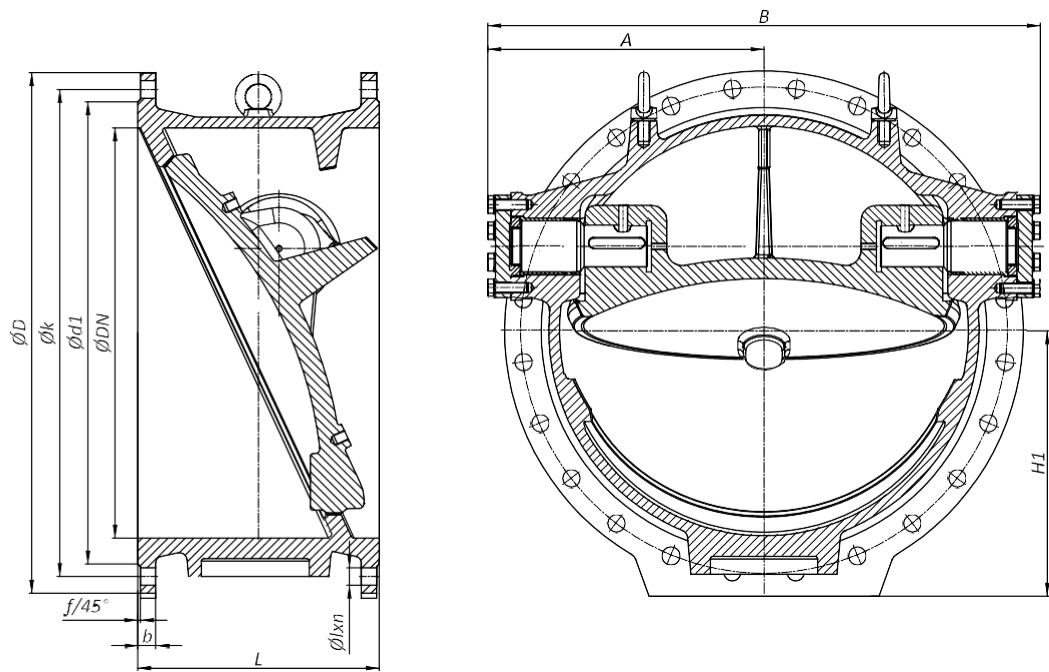
Parts list

Item	part	material	Item	part	material
1	body	EN-GJS-400-15	9	plug	X20Cr13
2	disc	EN-GJS-400-15	10	washer	galv.
3	sealing bush	CC493K	11	eye nut	C15
4	bonnet	EN-GJS-400-15	12	O-ring	EPDM
5	shaft	X20Cr13	13	O-ring	EPDM
6	screw	8.8 galv.	14	O-ring	EPDM
7	washer	galv.	15	O-ring	EPDM
8	bearing bush	CC483K	16	key	X20Cr13

Standard materials are given in the table. Other materials - on request.



dimensions – PN10/16



PN 10

DN	L	D	k	d ₁	n	l	b	f	A	B	H ₁	m (kg)
400	310	565	515	480	28	16	24,5	4	610	305	300	160
600	390	780	725	682	31	20	30	5	898	449	395	355
800	470	1015	950	901	34	24	35	5	1081	540,5	517,5	645
900	510	1115	1050	1001	34	28	37,5	5	1241	620,5	567,5	915
1000	550	1230	1160	1112	37	28	40	5	1351	675,5	635	1125

PN 16

DN	L	D	k	d ₁	n	l	b	f	A	B	H ₁	m (kg)
400	310	580	525	480	31	16	28	4	610	305	300	165
600	390	840	770	720	37	20	36	5	898	449	395	365
800	470	1025	950	901	41	24	43	5	1081	540,5	517,5	665
900	510	1125	1050	1001	41	28	46,5	5	1241	620,5	567,5	943
1000	550	1255	1170	1112	44	28	50	5	1351	675,5	635	1158

Other nominal diameters on request.

flanged end swing check valve SWC series, type AV03-301

application:

for change prevention of the liquids and gases flow direction

nominal diameter	DN 15 – 600
nominal pressure	PN 16
operating temperature	-20 °C up to +200 °C

connection: flanged

leakage class: A, according to EN 12266

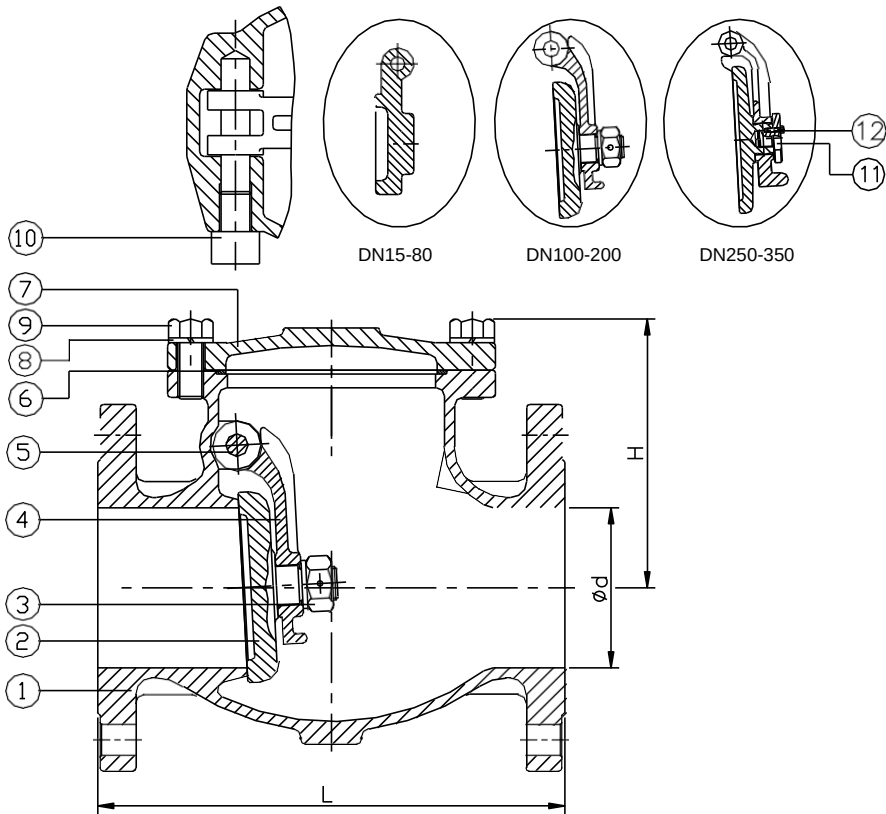
seal: PTFE / graphite + stainless steel



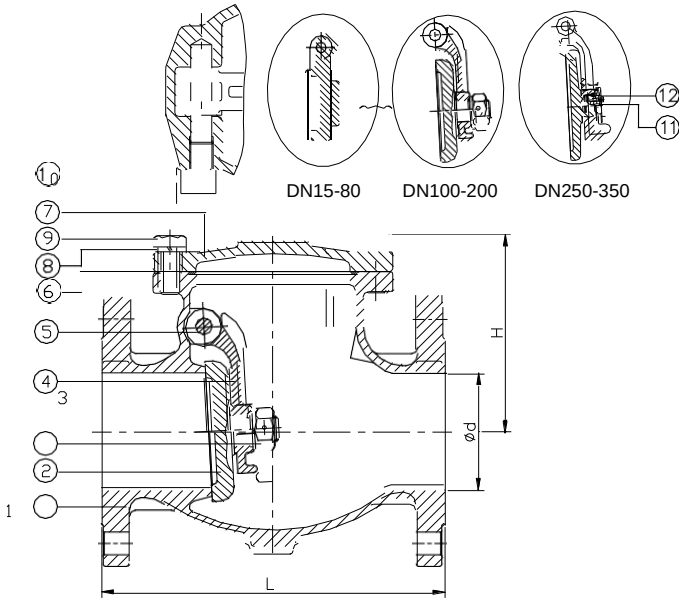
Parts list

Item	part	material	
1	Body	stainless steel (A351-CF8M) stainless steel (1.4408)	steel (A216 - WCB)
2	Disc		steel (A216 - WCB+13Cr)
3	Nut	stainless steel (304)	
4	Arm hinge	stainless steel (A351-CF8M) stainless steel (1.4408)	steel (A216 - WCB)
5	Hinge pin	stainless steel (316)	steel (A216 - WCB)
6	Seal	PTFE / 304+Graphite	
7	Bonnet	stainless steel (A351-CF8M) stainless steel (1.4408)	steel (A216 - WCB)
8	Spring washer	stainless steel (304)	
9	Bonnet bolt		
10	Bolt		
11	Disc cover	stainless steel (A351-CF8M)	stainless steel (A351-CF8)
12	Bolt	stainless steel (304)	

* by DN>200 - stem seal graphite + stainless steel



dimensions



DN	d	L	H
		PN16	PN16
15	15	130	178
20	20	150	181
25	25	160	200
32	32	180	243
40	40	200	245
50	50	230	258
65	65	290	310
80	80	310	325
100	100	350	390
125	125	400	472
150	150	480	531
200	200	600	669
250	250	730	824
300	300	850	950
350	337	-	

swing check valve SWC series, type AV03-302

application:
Nonflammable liquids and gases with temperature up to 60 °C

nominal diameter	DN 50 – 1000
nominal pressure	PN 10/16/25/40
operating temperature	to 60 °C

mounting length: according to EN 558 SERIES 48

corrosion coating: epoxy, 250 mic RAL 7037, other coating on request

connection: flanged according to EN 1092-2, on request flanges GOST etc.

leakage class: A, according to EN 12266

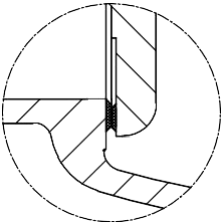
operation: lever with weight, on request: without lever and weight or with liquid damper

- special design:**
- With protection hood
 - With liquid damper
 - With ball valve
 - By-pass
 - Limit switches

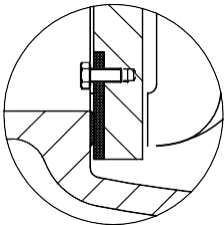


nominal diameter DN	operating pressure EN 12266 PN bar	flanges PN bar
100 – 1000	10	10
100 – 1000	16	16
50 – 200	25	25
50 – 200	40	40

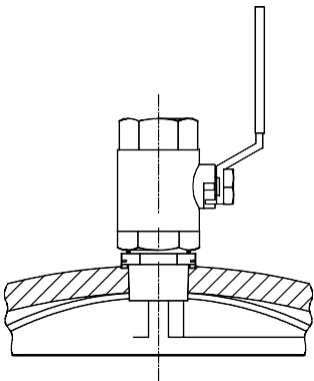
seal



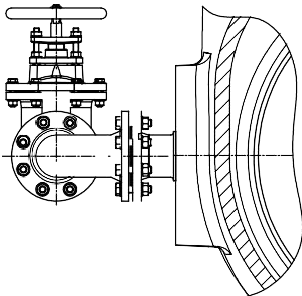
X15CrNiMn 18-8 / X15CrNiMn 18-8
CC480K / CC480K



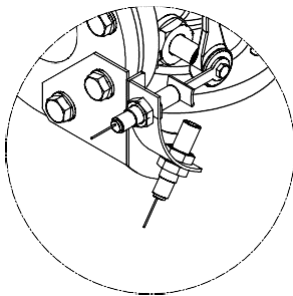
X15CrNiMn 18-8 / EPDM
X15CrNiMn 18-8 / NBR
X15CrNiMn 18-8 / VITON
CC480K / EPDM
CC480K / NBR
CC480K / VITON



globe valve



by-pass

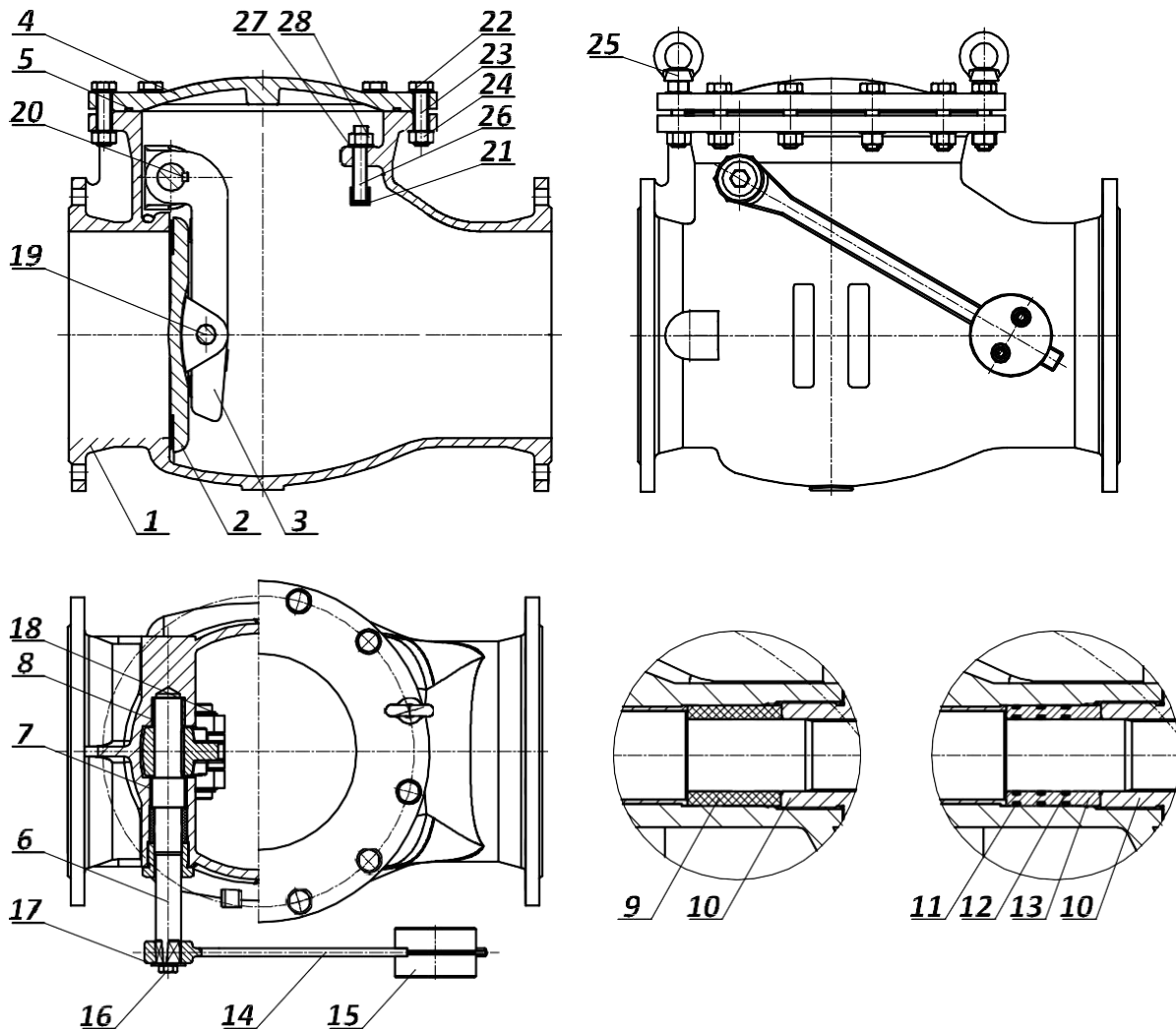


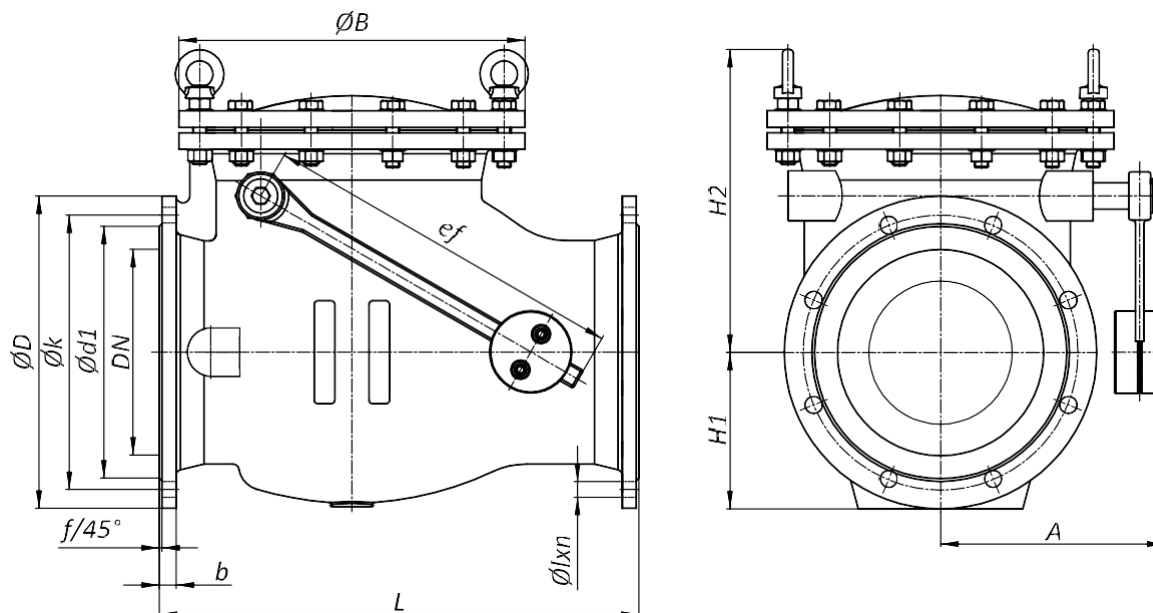
limit switches

Parts list

Item	part	material	Item	part	material
1	body	EN-GJS-400-15	15	weight	EN-GJS-400-15
2	flap	EN-GJS-400-15	16	screw	8.8 galv.
3	flap lever	EN-GJS-400-15	17	washer	galv.
4	cover	EN-GJS-400-15	18	circlip	A4
5	O-ring	EPDM	19	pin	X20Cr13
6	shaft	X20Cr13	20	parallel key	X20Cr13
7	bearing bush I	CC493K	21	rubber bumper	EPDM
8	bearing bush II	CC493K	22	washer	galv.
9	seal	PTFE	23	screw	8.8 galv.
10	cover	Ms	24	nut	8 galv.
11	O-ring	EPDM	25	eye nut	C15
12	O-ring	EPDM	26	threaded rod	A4
13	sealing bush	CC493K	27	washer	A4
14	lever	EN-GJS-400-15	28	nut	A4

Standard materials are given in the table. Other materials - on request.



dimensions – PN 10/16/25/40


DN	L	H 1		H ₂	e _f	A	B	PN 10						PN 16						f	maas, kg
		PN10	PN16					D	k	d ₁	l	n	b	D	k	d ₁	l	n	b		
50	200	87,5	87,5	172	116	132	158	165	125	99	19	4	19	165	125	99	19	4	19	3	17
65	240	97,5	97,5	203	145	150	193	185	145	118	19	4/8	19	185	145	118	19	4/8	19	3	28
80	260	105	105	216	160	152	212	200	160	132	19	8	19	200	160	132	19	8	19	3	30
100	300	115	115	242	190	157	235	220	180	156	19	8	19	220	180	156	19	8	19	3	38
125	350	130	130	260	226	185	265	250	210	184	19	8	19	250	210	184	19	8	19	3	54
150	400	147,5	147,5	279	266	216	302	285	240	211	23	8	19	285	240	211	23	8	19	3	71
200	500	180	180	367	343	265	395	340	295	266	23	8	20	340	295	266	23	12	20	3	125
250	600	207,5	212,5	400	440	272	421	395	350	319	23	12	22	405	355	319	28	12	22	3	160
300	700	232	240	441	535	334	505	445	400	370	23	12	24,5	460	410	370	28	12	24,5	4	210
350	800	262,5	270	514	585	412	560	505	460	429	23	16	24,5	520	470	429	28	16	26,5	4	355
400	900	292,5	300	560	660	465	622	565	515	480	28	16	24,5	580	525	480	31	16	28	4	470
500	1100	345	367,5	675	800	485	730	670	620	582	28	20	26,5	715	650	609	34	20	31,5	4	720
600	1300	400	430	781	900	585	910	780	725	682	31	20	30	840	770	720	37	20	36	5	1000
700	1500	457,5	465	928	1000	610	1025	895	840	794	31	24	32,5	910	840	794	37	24	39,5	5	1720
800	1700	517,5	522,5	1005	1000	742	1115	1015	950	901	34	24	35	1025	950	901	41	24	43	5	2230
900	1900	567,5	572,5	1149	1000	850	1255	1115	1050	1001	34	28	37,5	1125	1050	1001	41	28	46,5	5	3130
1000	2100	625	637,5	1276	1500	869	1355	1230	1160	1112	37	28	40	1255	1170	1112	44	28	50	5	4150

DN	L	H ₁		H ₂	e _f	A	B	PN 25						PN 40						f	maas, kg
		PN25	PN40					D	k	d ₁	l	n	b	D	k	d ₁	l	n	b		
50	200	87,5	87,5	172	116	132	158	165	125	99	19	4	19	165	125	99	19	4	19	3	19
65	240	97,5	97,5	203	145	150	193	185	145	118	19	8	19	185	145	118	19	8	19	3	30
80	260	105	105	216	160	152	212	200	160	132	19	8	19	200	160	132	19	8	19	3	33
100	300	122,5	122,5	242	190	157	235	235	190	156	23	8	19	235	190	156	23	8	19	3	41
125	350	140	140	260	226	185	265	270	220	184	28	8	19	270	220	184	28	8	23,5	3	59
150	400	155	155	279	266	216	302	300	250	211	28	8	20	300	250	211	28	8	26	3	78
200	500	190	197,5	367	343	265	395	360	310	274	28	12	22	375	320	284	31	12	30	3	137

Other nominal diameters on request.

Gate valves

Section	series	type	Page
Resilient seated gate valve RLG series	RLG series	AV04-351	161-163
		AV04-352	164-168
Flat body gate valve FGA series	FGA series	AV04-371	169-171
Flat body gate valve with rising stem FGA series		AV04-372	172-175
Oval body gate valve OGA series	OGA series	AV04-381	176-179
		AV04-383	180-183
AV04-382		184-189	
AV04-384		190-195	
Round body gate valve RGA series	RGA series	AV04-391	196-199
Round body gate valve with rising stem RGA series		AV04-392	200-205
Steel gate valve RGA series		AV04-393	206-210

resilient seated gate valve RLG series,
type AV04-351

application:
Gate valve for water supply and sewerage system

nominal diameter	DN 50 – DN 500
nominal pressure	PN 10/16
operating temperature	to 60 °C

mounting length: according to EN 558 SERIES 14

corrosion coating: epoxy, 250 mic RAL 7037, other coating on request

connection: flanged according to EN 1092–2, on request flanges GOST etc.

leakage class: A, according to EN 12266

stem: non-rising

operation: hand wheel, electric actuator, request: gearbox, stem extension, hydraulic or pneumatic actuators

special design:
• Stem extension

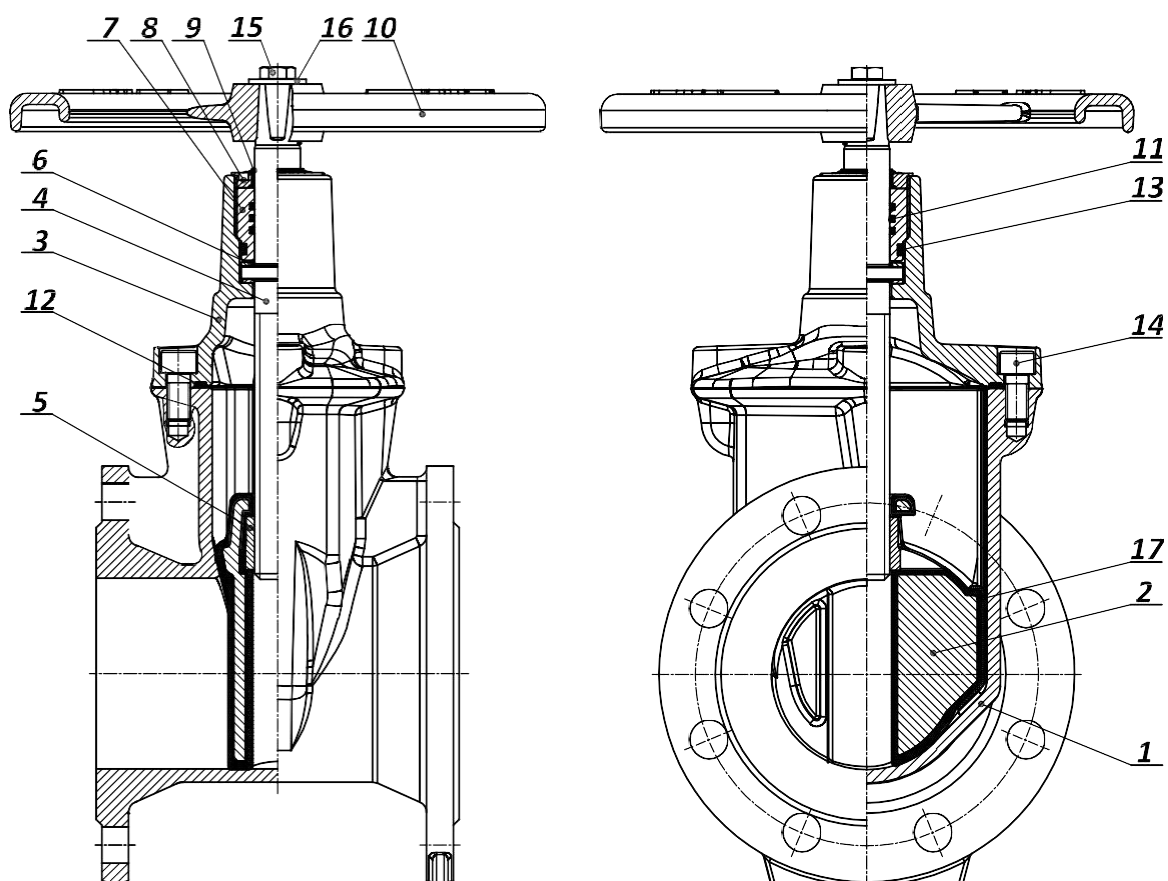


nominal diameter DN	operating pressure EN 12266 PN bar	flanges PN bar
40 – 350	10	10
40 – 350	16	16
40 – 1000	16	16

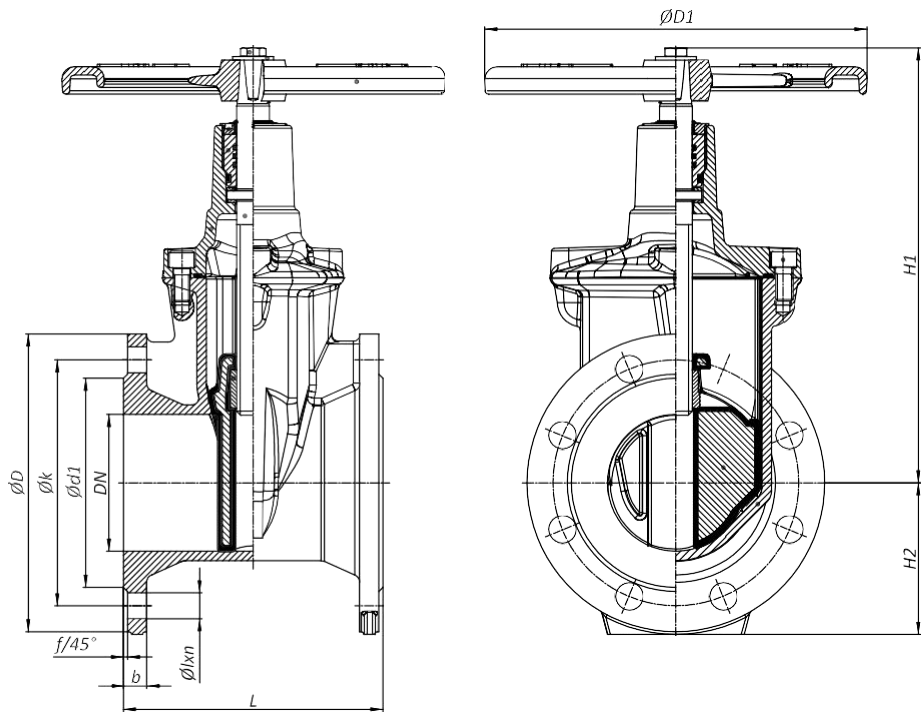
Parts list

Item	part	material	Item	part	material
1	body	EN-GJS-400-15	10	hand wheel	EN-GJS-400-15
2	wedge	EN-GJS-400-15 + EPDM	11	O-ring	EPDM
3	bonnet	EN-GJS-400-15	12	O-ring	EPDM
4	spindle	X20Cr13	13	O-ring	EPDM
5	spindle nut	CC483K	14	screw	A2
6	sliding ring	Poliacetal	15	screw	A2
7	sealing bush	CC493K	16	washer	A2
8	stuffing box packing	polyamide	17	wedge guideline	polyamide
9	wiper	EPDM			

Standard materials are given in the table. Other materials - on request.



dimensions – PN10/16



DN	L	H ₁	PN10	PN16	PN 10						PN 16						f	D ₁	turns / lift	maas, kg
			H ₂		D	k	d ₁	l	n	b	D	k	d ₁	l	n	b				
40	140	247	80	80	150	110	84	19	4	19	150	110	84	19	4	19	3	180	12	10
50	150	247	87,5	87,5	165	125	99	19	4	19	165	125	99	19	4	19	3	180	12	11,5
60	160	270,4	92,5	92,5	175	135	108	19	4	19	175	135	108	19	4	19	3	250	13	15
65	170	270,4	97,5	97,5	185	145	118	19	4	19	185	145	118	19	4	19	3	250	13	15,5
80	180	288	105	105	200	160	132	19	8	19	200	160	132	19	8	19	3	250	16	18
100	190	319	115	115	220	180	156	19	8	19	220	180	156	19	8	19	3	280	20	21
150	210	417	147,5	147,5	285	240	211	23	8	19	285	240	211	23	8	19	3	320	31	37
200	230	493,5	180	180	340	295	266	23	8	20	340	295	266	23	12	20	3	360	33	63
250	250	626	207,5	212,5	395	350	319	23	12	22	405	355	319	28	12	22	3	400	43	92
300	270	690	232,5	240	445	400	370	23	12	24,5	460	410	370	28	12	24,5	4	500	51	136
350	290	811	262,5	270	505	460	429	23	16	24,5	520	470	429	28	16	26,5	4	500	59	211

Other nominal diameters on request.

resilient seated gate valve RLG series, type AV04-352

application:

Gate valve for water supply and sewerage system

nominal diameter	DN 50 – DN 500
nominal pressure	PN 10/16/25
operating temperature	to 60 °C

mounting length: according to EN 558 SERIES 14

corrosion coating: epoxy, 250 mic RAL 7037, other coating on request

connection: flanged according to EN 1092-2, on request flanges GOST etc.

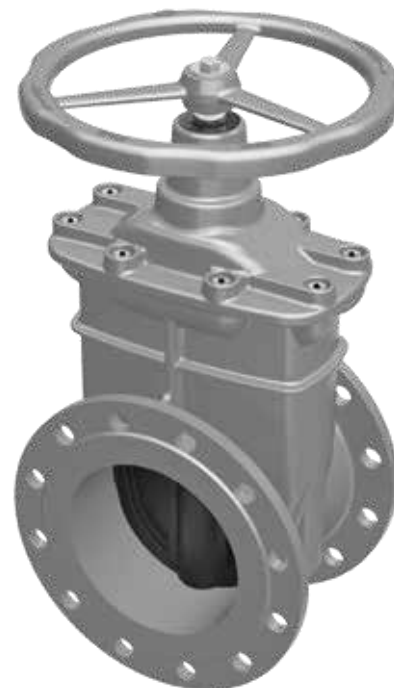
leakage class: A, according to EN 12266

stem: non-rising

operation: hand wheel, electric actuator, request: gearbox, stem extension, hydraulic or pneumatic actuators

special design:

- Stem extension

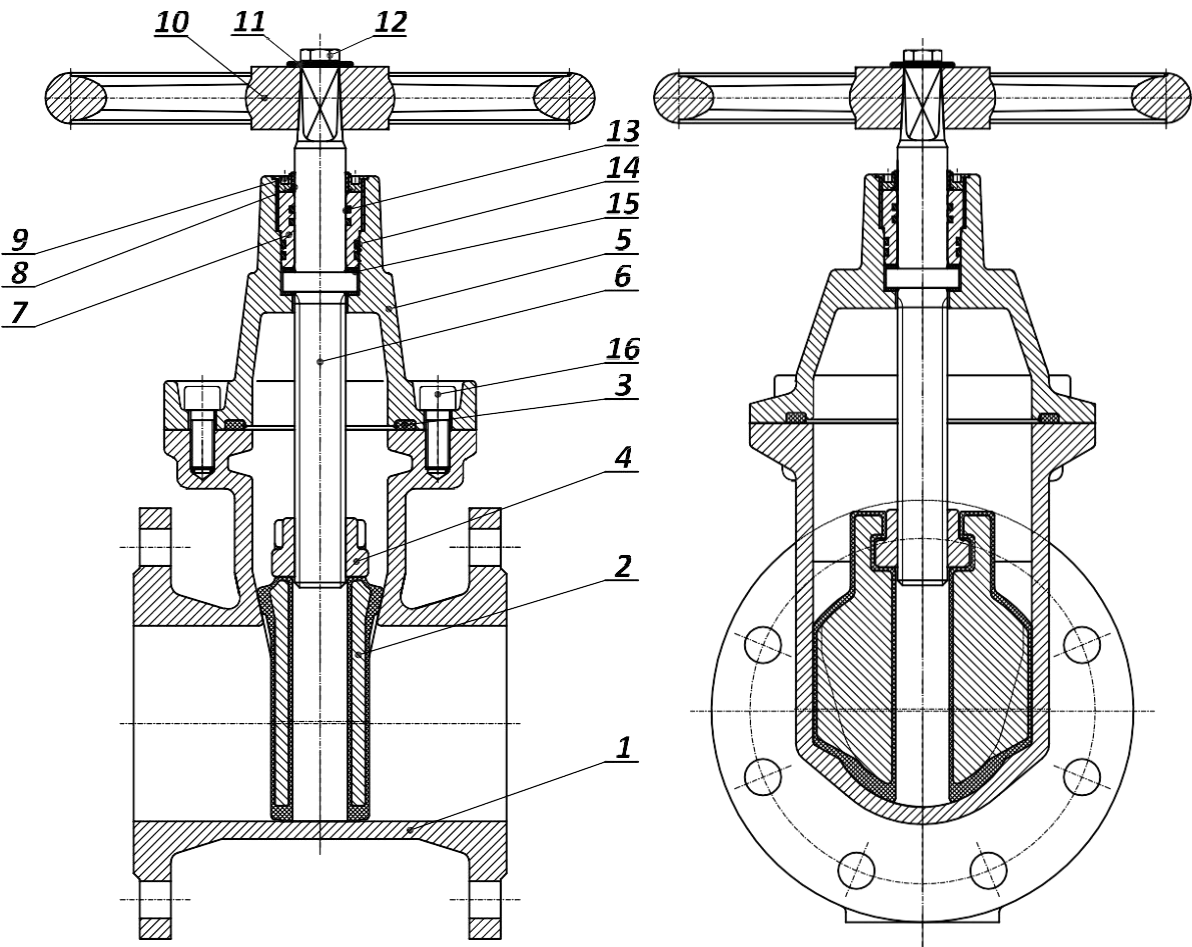


nominal diameter DN	operating pressure EN 12266 PN bar	flanges PN bar
50 – 500	10	10
50 – 500	16	16
40 – 400	25	25

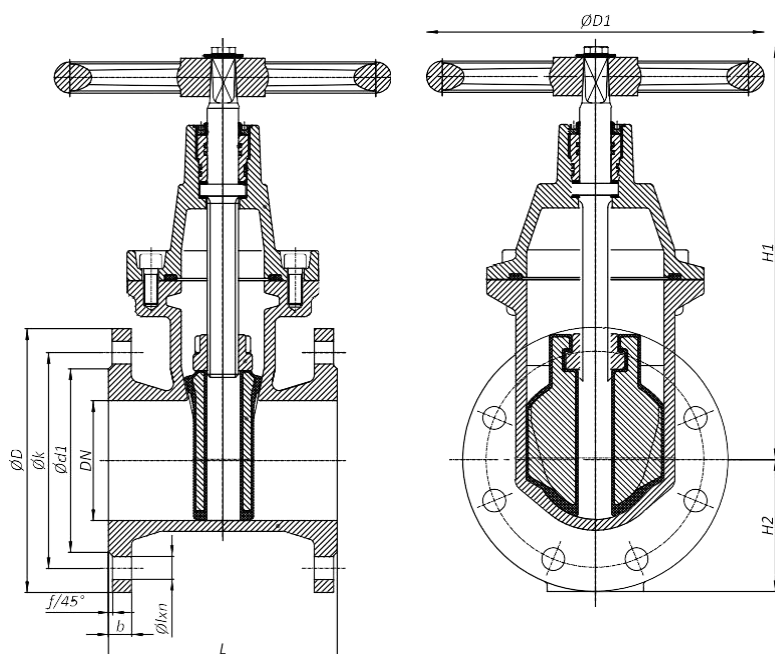
Parts list

Item	part	material	Item	part	material
1	body	EN-GJS-400-15	9	stuffing box packing	polyamide
2	wedge	EN-GJS-400-15 + EPDM	10	hand wheel	EN-GJS-400-15
3	O-ring	EPDM	11	washer	A2
4	spindle nut	CC483K	12	screw	A2
5	bonnet	EN-GJS-400-15	13	O-ring	EPDM
6	spindle	X20Cr13	14	O-ring	EPDM
7	sealing bush	CC493K	15	sliding ring	Ms
8	wiper	EPDM	16	screw	A2

Standard materials are given in the table. Other materials - on request.

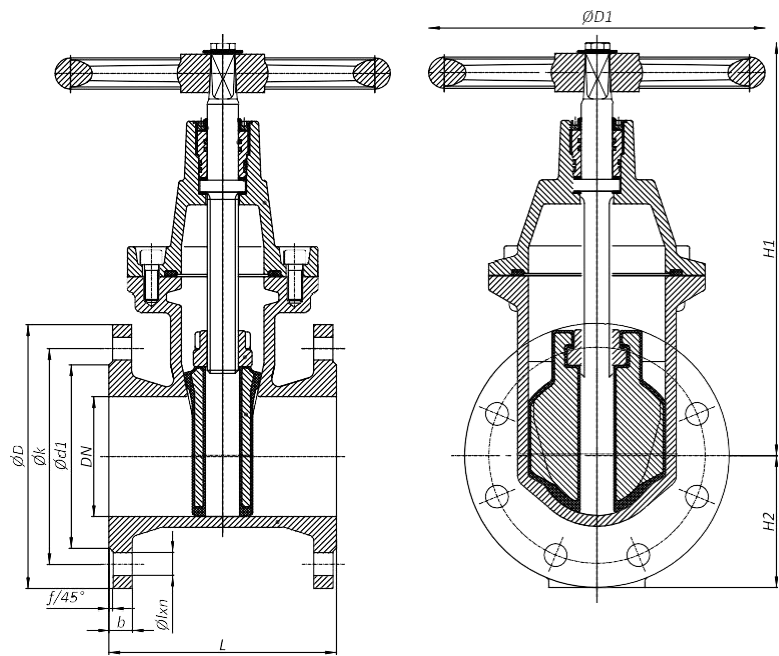


dimensions – PN10/16



DN	L	H ₁	PN10	PN16	PN 10						PN 16						f	D ₁	turns / rpm	maas, kg
			H ₂	H ₂	D	k	d ₁	l	n	b	D	k	d ₁	l	n	b				
50	150	230	87,5	87,5	165	125	99	19	4	19	165	125	99	19	4	19	3	180	18	13
65	170	240	97,5	97,5	185	145	118	19	4/8	19	185	145	118	19	4/8	19	3	225	18	20
80	180	280	105	105	200	160	132	19	8	19	200	160	132	19	8	19	3	225	21	24,5
100	190	330	115	115	220	180	156	19	8	19	220	180	156	19	8	19	3	280	24	32,5
125	200	390	130	130	250	210	184	19	8	19	250	210	184	19	8	19	3	320	30	40,5
150	210	460	147,5	147,5	285	240	211	23	8	19	285	240	211	23	8	19	3	320	36	53
200	230	550	180	180	340	295	266	23	8	20	340	295	266	23	12	20	3	360	38	83
250	250	660	207,5	212,5	395	350	319	23	12	22	405	355	319	28	12	22	3	400	47	120
300	270	760	232	240	445	400	370	23	12	24,5	460	410	370	28	12	24,5	4	500	56	168
350	290	822	262,5	270	505	460	429	23	16	24,5	520	470	429	28	16	26,5	4	500	56	240
400	310	910	292,5	300	565	515	480	28	16	24,5	580	525	480	31	16	28	4	640	62	336
500	350	1200	345	367,5	670	620	582	28	20	26,5	715	650	609	34	20	31,5	4	720	68	603

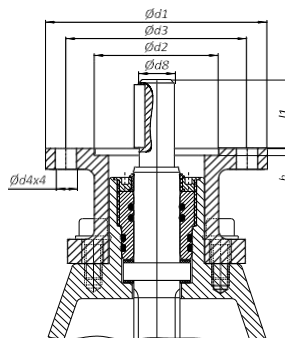
dimensions – PN 25



DN	L	H ₁	H ₂	PN 25							D ₁	turns / lift	maas, kg
				D	k	d ₁	l	n	b	f			
50	150	230	87,5	165	125	99	19	4	19	3	180	18	13
65	170	240	97,5	185	145	118	19	8	19	3	225	18	20
80	180	280	105	200	160	132	19	8	19	3	225	21	24,5
100	190	330	122,5	235	190	156	23	8	19	3	280	24	32,5
125	200	390	140	270	220	184	28	8	19	3	320	30	40,5
150	210	460	155	300	250	211	28	8	20	3	320	36	53
200	230	550	190	360	310	274	28	12	22	3	360	38	83
250	250	660	222,5	425	370	330	31	12	24,5	3	400	47	120
300	270	760	252,5	485	430	389	31	16	27,5	4	500	56	168
400	310	910	320	620	550	503	37	16	32	4	640	62	370

Other nominal diameters on request.

actuators connection dimensions



PN 10	DN	axial force	torque	turns / lift	closing time	installation flange	actuators connection dimensions							actuator type
		kN	Nm		s	ISO 5210	d ₁	d ₂	d ₃	d ₄	h	d ₈	l ₁	AUMA
	65	4,5	24	18	12	F 07	90	55	70	10	3	16	35	SA 07.2
	80	6,4	28	21	14	F 07	90	55	70	10	3	16	35	SA 07.6
	100	9,5	40	24	17	F 07	90	55	70	10	3	16	35	SA 07.6
	125	11,1	50	30	20	F 07	90	55	70	10	3	16	35	SA 07.6
	150	13	60	36	40	F 10	125	70	102	12	3	20	45	SA 10.2
	200	17,8	120	38	54	F 14	175	100	140	18	4	30	65	SA 10.2
	250	24	200	44	78	F 14	175	100	140	18	4	30	65	SA 14.6
	300	31,4	250	56	90	F 14	175	100	140	18	4	30	65	SA 14.6
	400	50,8	350	62	126	F 14	175	100	140	18	4	30	65	SA 14.6
	500	68,8	500	272	259	F 14	175	100	140	18	5	30	65	R1:4+SA14.2

PN 16	DN	axial force	torque	turns / lift	closing time	installation flange	actuators connection dimensions							actuator type
		kN	Nm		s	ISO 5210	d ₁	d ₂	d ₃	d ₄	h	d ₈	l ₁	AUMA
	65	4,5	27	18	12	F 07	90	55	70	10	3	16	35	SA 07.2
	80	6,4	40	21	14	F 07	90	55	70	10	3	16	35	SA 07.6
	100	9,5	65	24	17	F 10	125	70	102	12	3	20	45	SA 10.2
	125	11,1	70	30	20	F 10	125	70	102	12	3	20	45	SA 10.2
	150	13	100	36	40	F 10	125	70	102	12	3	20	45	SA 10.2
	200	17,8	160	38	54	F 14	175	100	140	18	4	30	65	SA 14.2
	250	24	250	44	78	F 14	175	100	140	18	4	30	65	SA 14.6
	300	31,4	325	56	90	F 14	175	100	140	18	4	30	65	SA 14.6
	400	50,8	550	248	126	F 14	175	100	140	18	5	40	65	R1:4+SA 14.2
	500	68,8	720	272	259	F 14	175	100	140	18	5	40	65	R1:4+SA14.2

PN 25	DN	axial force	torque	turns / lift	closing time	installation flange	actuators connection dimensions							actuator type
		kN	Nm		s	ISO 5210	d ₁	d ₂	d ₃	d ₄	h	d ₈	l ₁	AUMA
	65	5,4	33	18	12	F07	90	55	70	10	3	16	35	SA 07.6
	80	7,7	48	21	14	F07	90	55	70	10	3	16	35	SA 07.6
	100	11,5	78	24	17	F10	125	125	102	12	3	20	45	SA 10.2
	125	13,3	84	30	20	F10	125	125	102	12	3	20	45	SA 10.2
	150	15,6	125	36	40	F14	175	175	140	18	4	30	65	SA 14.2
	200	21,3	235	38	54	F14	175	175	140	18	4	30	65	SA 14.2
	250	28,8	300	44	78	F14	175	175	140	18	4	30	65	SA 14.6
	300	37,6	390	56	90	F14	175	175	140	18	4	30	65	SA 14.6

flat body gate valve FGA series,
type AV04-371

application:

Gate valve for water supply and sewerage system

nominal diameter	DN 40 – 1600
nominal pressure	PN 10
operating temperature	to 60 °C

mounting length: according to EN 558 SERIES 14

corrosion coating: epoxy, 250 mic RAL 7037, other coating on request

connection: flanged according to EN 1092-2, on request flanges GOST etc.

leakage class: A, according to EN 12266

stem: non-rising

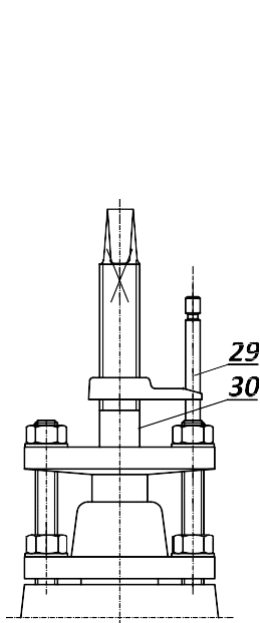
operation: hand wheel, electric actuator, request: gearbox, stem extension, hydraulic or pneumatic actuators

special design:

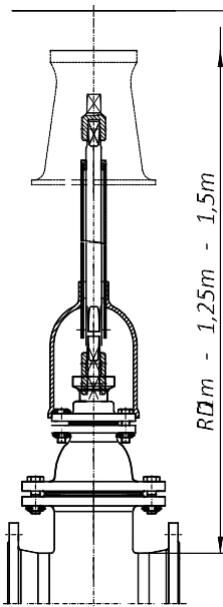
- Position indication
- By-pass
- Stem extension



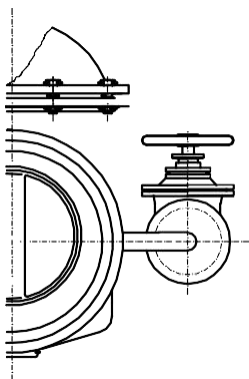
nominal diameter DN	operating pressure EN 12266 PN bar	flanges PN bar
40 – 150	10	10
200 – 300	6	10
350 – 500	4	10
600 – 700	2,5	10
800	1,6	10
900 – 1600	1	10



position
indication



assembly
equipment

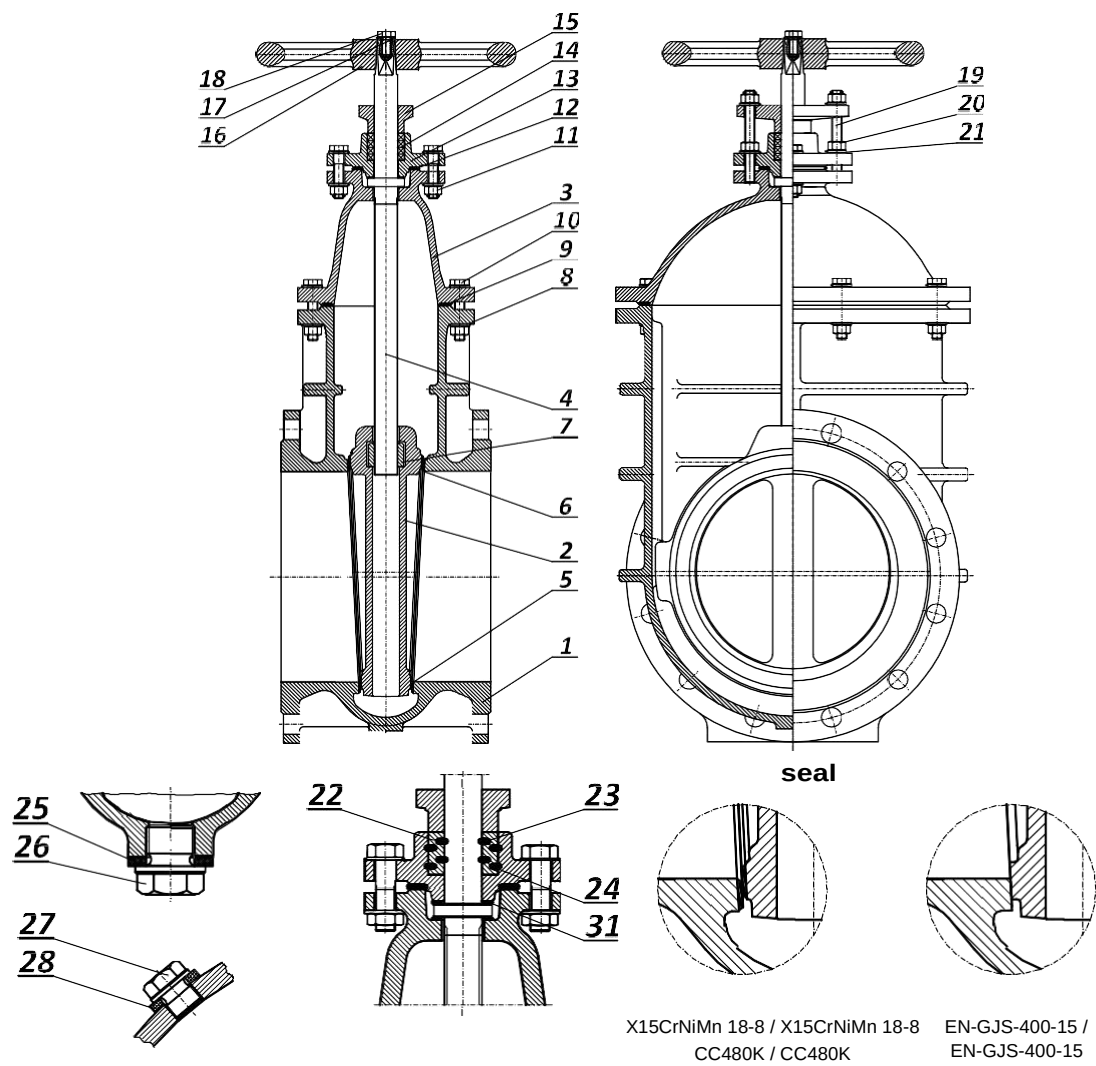


by-pass

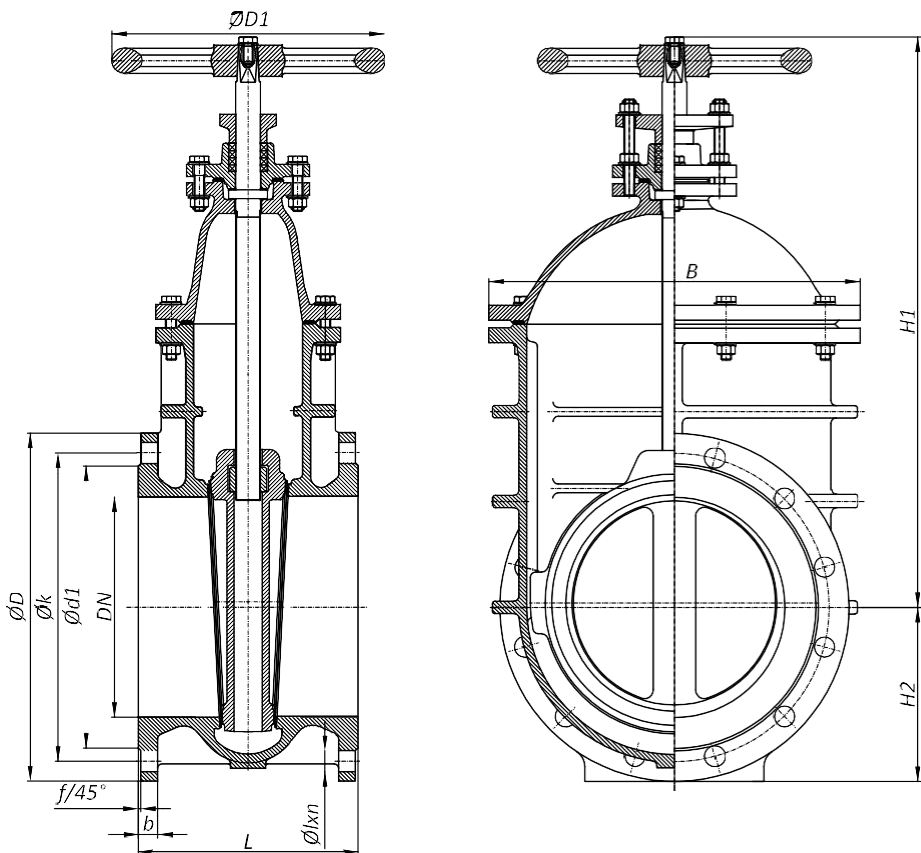
Parts list

Item	part	material	Item	part	material
1	body	EN-GJS-400-15	17	washer	galv.
2	wedge	EN-GJS-400-15	18	screw	8.8 galv.
3	bonnet	EN-GJS-400-15	19	rod	A2
4	spindle	X20Cr13	20	nut	8 galv.
5	body seat ring	CC480K	21	washer	galv.
6	wedge seat ring	CC480K	22	sealing bush	CC493K
7	spindle nut	CC483K	23	O-ring	EPDM
8	washer	galv.	24	O-ring	EPDM
9	O-ring	EPDM	25	gasket	Cu
10	screw	8.8 galv.	26	drain plug	A4
11	nut	8 galv.	27	air plug	A4
12	gasket	It	28	gasket	Cu
13	gland body	EN-GJS-400-15	29	position indicator scale	X20Cr13
14	gland packing	EN-GJS-400-15	30	position indication	CC493K
15	stuffing box		31	bearing ring	Ms
16	hand wheel				

Standard materials are given in the table. Other materials - on request.



dimensions



DN	L	D	k	d ₁	l	n	b	f	H ₁	H ₂	B	D ₁	turns / lift	maas, kg
40	140	150	110	84	19	4	19	3	240	80	160	140	14	8
50	150	165	125	99	19	4	19	3	255	87,5	175	140	16	10
65	170	185	145	118	19	4/8	19	3	295	97,5	190	160	20	14
80	180	200	160	132	19	8	19	3	315	105	210	160	19	18
100	190	220	180	156	19	8	19	3	345	115	240	180	23	22
125	200	250	210	184	19	8	19	3	400	130	275	200	28	29
150	210	285	240	211	23	8	19	3	430	147,5	320	200	34	35
200	230	340	295	266	23	8	20	3	525	180	370	225	44	62
250	250	395	350	319	23	12	22	3	625	207,5	440	280	54	90
300	270	445	400	370	23	12	24,5	4	725	232	490	320	64	117
350	290	505	460	429	23	16	24,5	4	830	262,5	550	360	62	162
400	310	565	515	480	28	16	24,5	4	945	292,5	620	360	71	211
450	330	615	565	530	28	20	25,5	4	1025	317,5	725	400	79	280
500	350	670	620	582	28	20	26,5	4	1120	345	730	500	74	340
600	390	780	725	682	31	20	30	5	1300	400	840	500	90	500
700	430	895	840	794	31	24	32,5	5	1480	457,5	950	640	106	720
800	470	1015	950	901	34	24	35	5	1710	517,5	1080	720	105	1100
900	510	1115	1050	1001	34	28	37,5	5	1880	567,5	1190	800	105	1300
1000	550	1230	1160	1112	37	28	40	5	2030	625	1300	800	116	1500
1200	630	1455	1380	1328	41	32	45	5	2435	742,5	1680	800	127	2900
1400	710	1675	1590	1530	44	36	46	5	2850	852,5	1960	1000	149	4900
1600	790	1915	1820	1750	50	40	49	5	3000	972,5	2035	1000	138	7200

gate valve with flat body with rising stem FGA series, type
AV04-372

application:
Gate valve for water supply and sewerage system

nominal diameter	DN 40 – DN 1200
nominal pressure	PN 10
operating temperature	to 60 °C

mounting length: according to EN 558 SERIES 14

corrosion coating: epoxy, 250 mic RAL 7037, other coating on request

connection: flange according to EN 1092-2, on request – flanges GOST etc.

leakage class: A, according to EN 12266

stem: rising

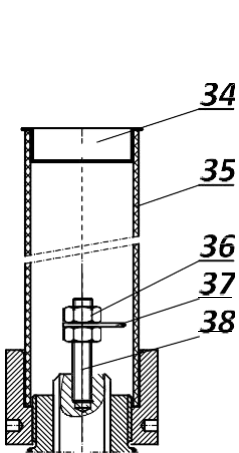
operation: hand wheel, electric actuator, request: gearbox, stem extension, hydraulic or pneumatic actuators

special design:

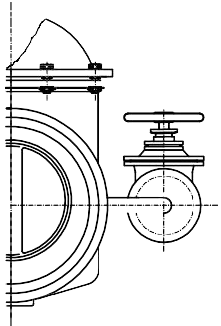
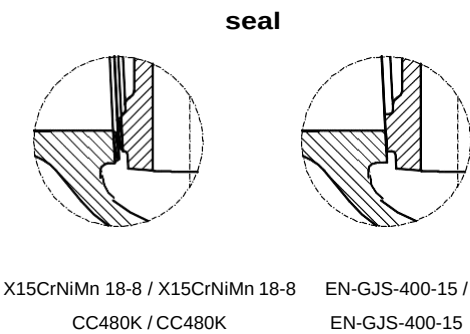
- Position indication
- By-pass



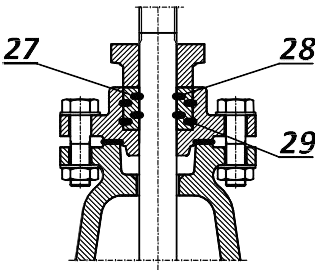
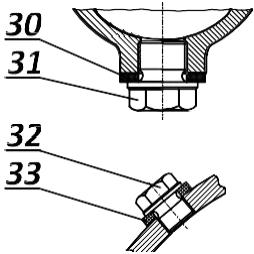
nominal diameter DN	operating pressure EN 12266 PN bar	flanges PN bar
40 – 150	10	10
200 – 300	6	10
350 – 500	4	10
600 – 700	2,5	10
800	1,6	10
900 – 1200	1	10



position
indication



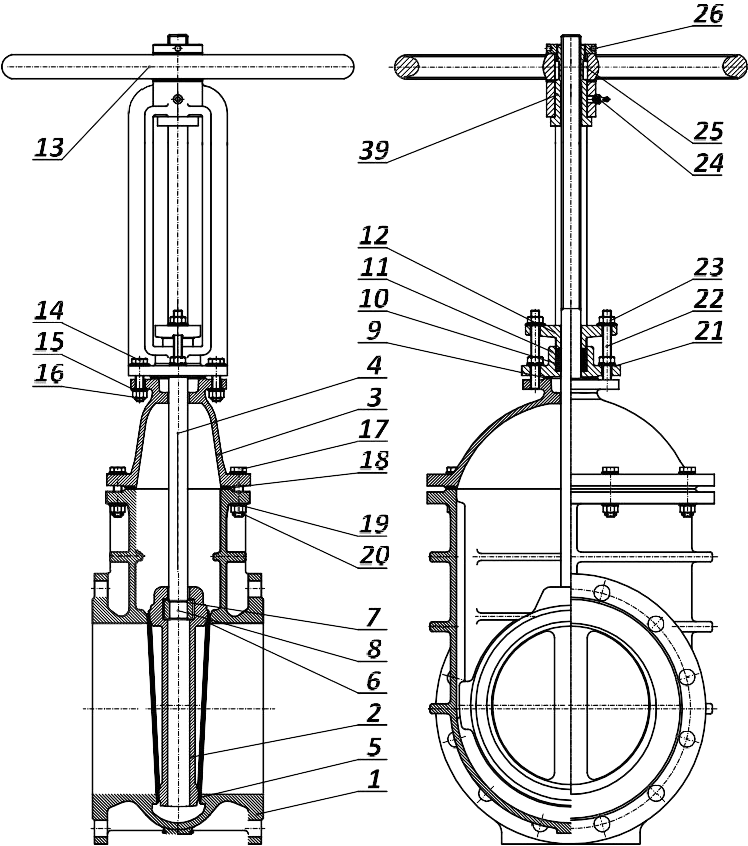
by-pass



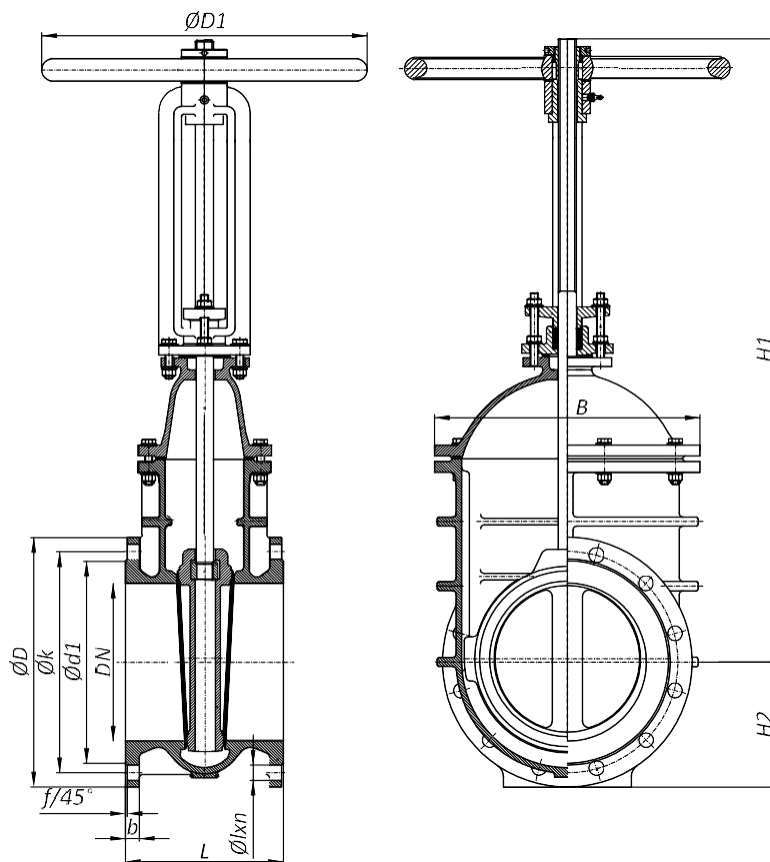
Parts list

Item	part	material	Item	part	material
1	body	EN-GJS-400-15	21	washer	galv.
2	wedge	EN-GJS-400-15	22	rod	A2
3	bonnet	EN-GJS-400-15	23	nut	8 galv.
4	spindle	X20Cr13	24	lubricating nipple	Ms
5	body seat ring	CC480K	25	key	C4SE
6	wedge seat ring	CC480K	26	nut	CC483K
7	spindle nut	CC483K	27	sealing bush	CC493K
8	plug	X17CrNi16-2	28	O-ring	EPDM
9	gasket	It / EPDM	29	O-ring	EPDM
10	O-ring	PTFE	30	gasket	Cu
11	housing	EN-GJS-400-15	31	drain plug	A4
12	stuffing box	EN-GJS-400-15	32	gasket	Cu
13	hand wheel	EN-GJS-400-15	33	air plug	A4
14	screw	PTFE	34	bonnet	PE
15	washer	galv.	35	tube guard	polycarbonate
16	nut	EN-GJS-400-15	36	nut	8 galv.
17	screw	8.8 galv.	37	position indication	A2
18	O-ring	EPDM	38	rod	A2
19	washer	galv.	39	lock nut	CC483K
20	nut	8 galv.			

Standard materials are given in the table. Other materials - on request.



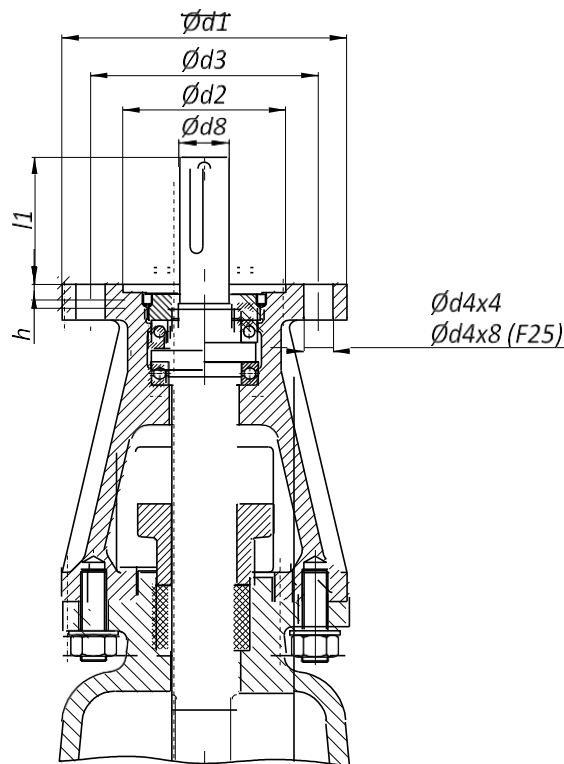
dimensions



DN	L	D	k	d ₁	l	n	b	f	H ₁		H ₂	B	D ₁	turns / lift	maas, kg
									min	max					
40	140	150	110	84	19	4	19	3	290	350	80	160	140	14	10
50	150	165	125	99	19	4	19	3	310	360	87,5	175	140	16	11
65	170	185	145	118	19	4/8	19	3	400	490	97,5	190	160	20	16
80	180	200	160	132	19	8	19	3	420	520	105	210	160	19	21
100	190	220	180	156	19	8	19	3	480	600	115	240	180	23	26
125	200	250	210	184	19	8	19	3	580	720	130	275	200	28	33
150	210	285	240	211	23	8	19	3	620	800	147,5	320	200	34	37
200	230	340	295	266	23	8	20	3	780	1000	180	370	225	44	67
250	250	395	350	319	23	12	22	3	930	1200	207,5	440	280	54	100
300	270	445	400	370	23	12	24,5	4	1080	1410	232	490	320	64	127
350	290	505	460	429	23	16	24,5	4	1320	1700	262,5	550	360	62	173
400	310	656	515	480	28	16	24,5	4	1470	1900	292,5	620	360	71	235
450	330	615	565	530	28	20	25,5	4	-	-	317,5	725	400	79	310
500	350	670	620	582	28	20	26,5	4	1820	2360	345	730	500	74	380
600	390	780	725	682	31	20	30	5	2050	2690	400	840	500	90	560
700	430	895	840	794	31	24	32,5	5	2300	3050	457,5	950	640	106	960
800	470	1015	950	901	34	24	35	5	2700	3580	517,5	1080	720	105	1300
900	510	1115	1050	1001	34	28	37,5	5	2980	3940	567,5	1190	800	105	1500
1000	550	1230	1160	1112	37	28	40	5	3200	4240	625	1300	800	116	2700
1200	630	1455	1380	1328	41	32	45	5	ON REQUEST		742,5	1680	800	127	3900

Other nominal diameters — on request.

data for actuator selection



PN 1-10

DN	axial force	torque	working pressure	turns / lift	closing time	connection type	actuators connection dimensions							actuator
	N	Nm	bar		sek	ISO 5210	d ₁	d ₂	d ₃	d ₄	h	d ₈	l ₁	AUMA
80	8,4	26	10	19	17	F07	90	70	55	10	3,5	16	35	SA 07.6
100	9,4	32	10	23	20	F07	90	70	55	10	3,5	16	35	SA 07.6
125	10,9	40	10	28	25	F07	90	70	55	10	3,5	16	35	SA 07.6
150	12,8	46	10	34	30	F07	90	70	55	10	3,5	16	35	SA 07.6
200	13,2	55	6	44	31	F10	125	102	70	12	4	20	45	SA 10.2
250	17	78	6	54	33	F10	125	102	70	12	4	20	45	SA 10.2
300	21,5	108	6	64	60	F10	125	102	70	12	4	20	45	SA 10.2
350	20,1	100	4	62	75	F10	125	102	70	12	4	20	45	SA 10.2
400	24,2	140	4	71	102	F14	175	140	100	18	5	30	45	SA 14.2
500	38,5	246	4	74	126	F14	175	140	100	18	5	30	65	SA 14.6
600	35,8	242	2,5	90	150	F14	175	140	100	18	5	30	65	SA 14.6
700	44,7	330	2,5	106	156	F14	175	140	100	18	5	30	65	SA 14.6
800	55	304	1,6	105	174	F14	175	140	100	18	5	30	65	SA 14.6
900	33,3	288	1	105	216	F14	175	140	100	18	5	30	65	SA 14.6
1000	38,5	330	1	116	217	F14	175	140	100	18	5	30	65	SA 14.6
1200	50,7	500	1	1008	672	F10	125	102	70	12	4	20	45	R 1:8+SA 10.2
1400	64,9	642	1	1160	773	F10	125	102	70	12	4	20	45	R 1:8+SA 10.2
1600	81,5	840	1	1100	733	F14	175	140	100	18	5	30	65	R 1:8+SA 14.2

gate valve OGA series,
type AV04-381

application:
Gate valve for water supply and sewerage system

nominal diameter	DN 50 – DN 1600
nominal pressure	PN 10/16/25
operating temperature	to 60 °C

mounting length: according to EN 558 SERIES 3

corrosion coating: epoxy, 250 mic RAL 7037, other coating on request

connection: flange according to EN 1092-2, on request – flanges GOST etc.

leakage class: A, according to EN 12266

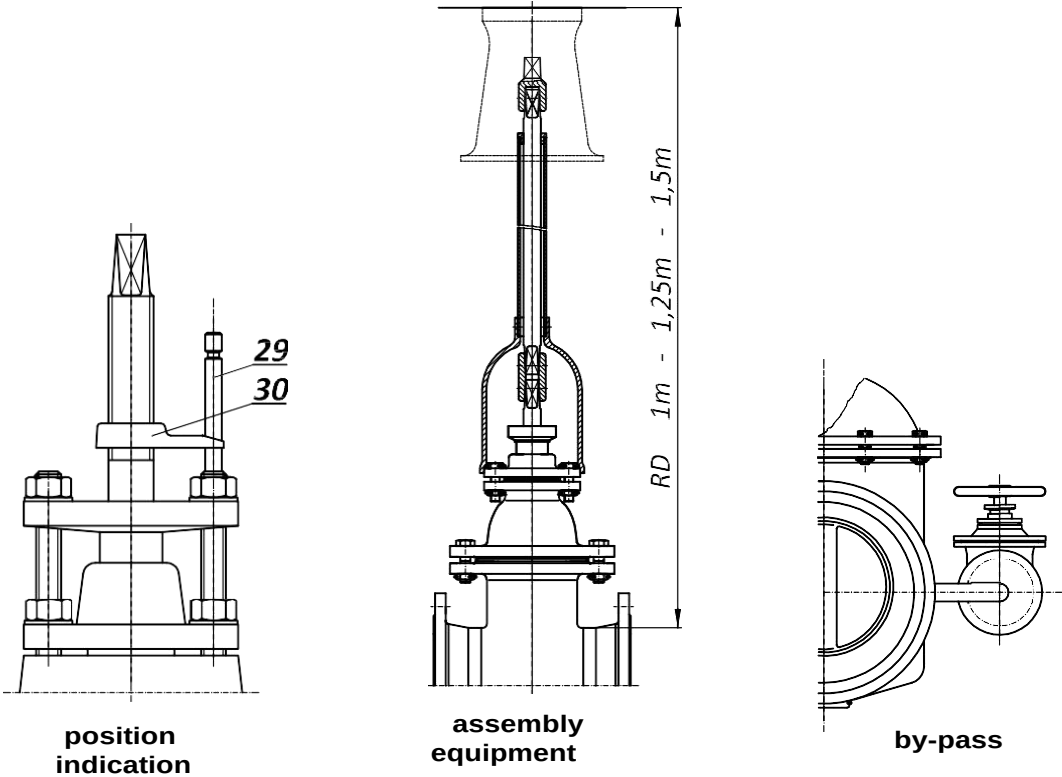
stem: non-rising

operation: hand wheel, electric actuator, request: gearbox, stem extension, hydraulic or pneumatic actuators

- special design:**
- Position indication
 - By-pass
 - Stem extension



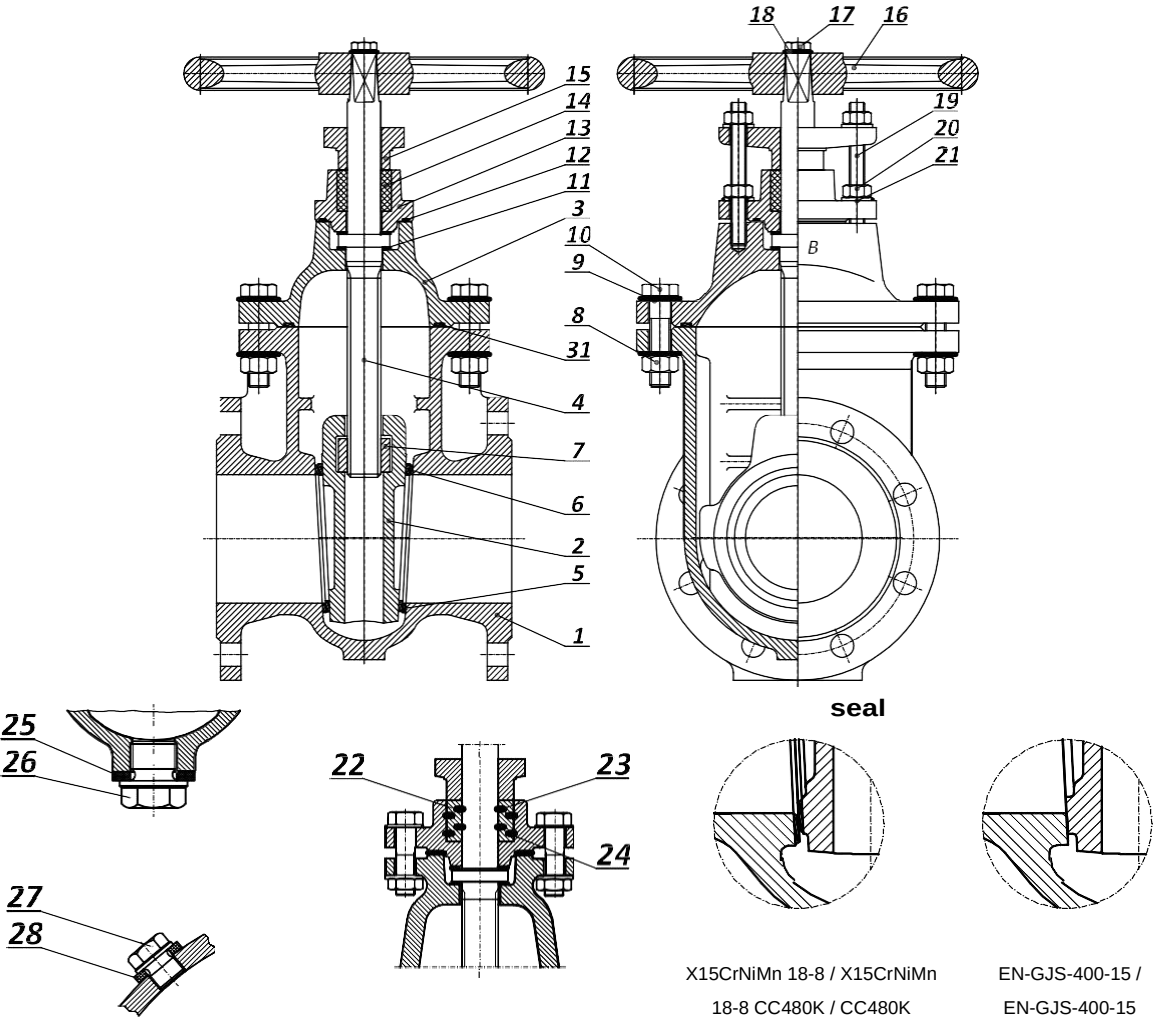
nominal diameter DN	operating pressure EN 12266 PN bar	flanges PN bar
50 – 1600	10	10
50 – 1600	16	16
50 – 600	25	25



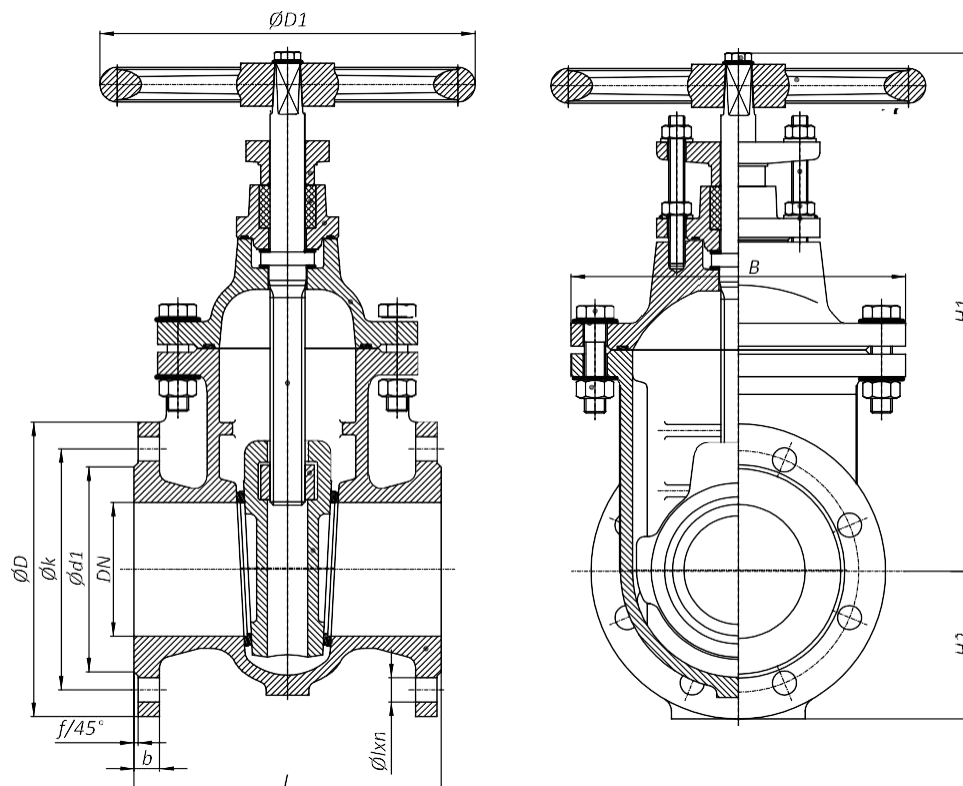
Parts list

Item	part	material	Item	part	material
1	body	EN-GJS-400-15	17	washer	galv.
2	wedge	EN-GJS-400-15	18	screw	8.8 galv.
3	bonnet	EN-GJS-400-15	19	rod	A2
4	spindle	X20Cr13	20	nut	8 galv.
5	body seat ring	CC480K	21	washer	galv.
6	wedge seat ring	CC480K	22	sealing bush	CC493K
7	spindle nut	CC483K	23	nut	8 galv.
8	nut	X17CrNi16-2	24	O-ring	EPDM
9	washer	galv.	25	gasket	Cu
10	screw	8.8. galv.	26	drain plug	A4
11	bearing ring	Ms	27	air plug	A4
12	gasket	It / EPDM	28	gasket	Cu
13	gland body	EN-GJS-400-15	29	position indicator scale	X20Cr13
14	gland packing	PTFE	30	position indication	CC493K
15	stuffing box	EN-GJS-400-15	31	O-ring	It / EPDM
16	hand wheel	EN-GJS-400-15			

Standard materials are given in the table. Other materials - on request.



dimensions – PN10/16

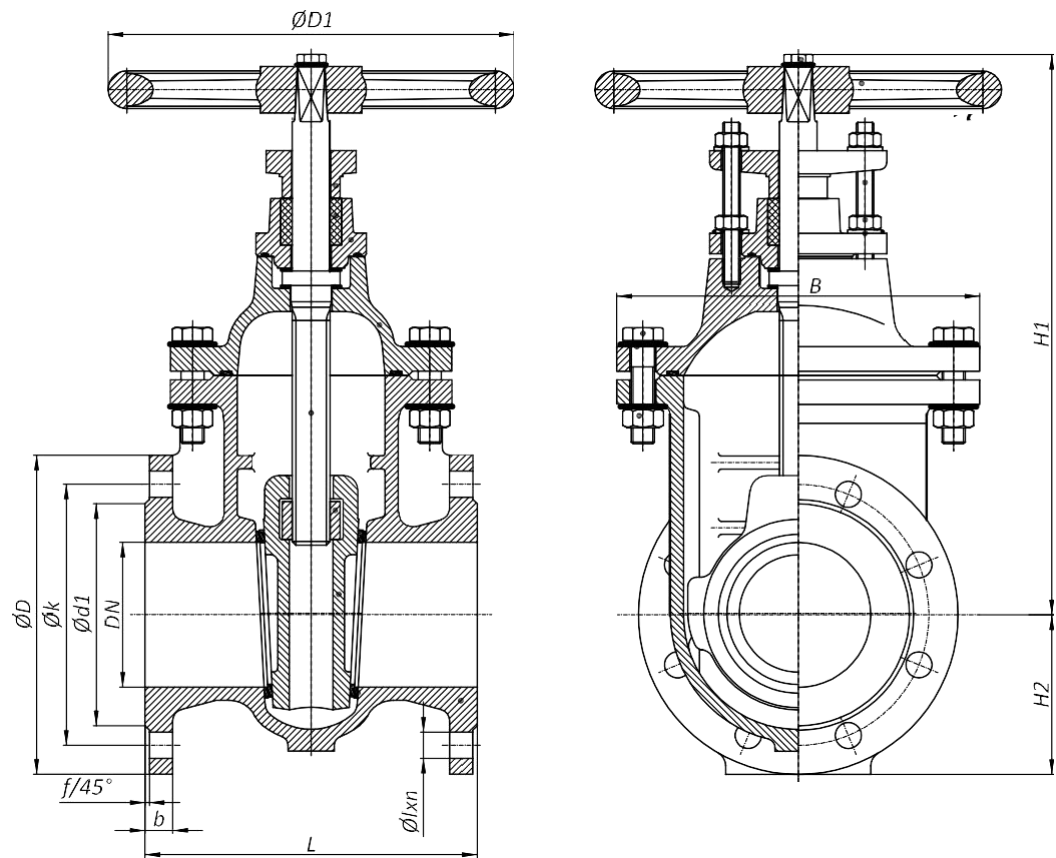


PN 10 / 16

DN	L	H1	H2		B	D1	D		k		d ₁		n		l		b		f	maas, kg
			PN10	PN16			PN10	PN16	PN10	PN16	PN10	PN16	PN10	PN16	PN10	PN16	PN10	PN16		
50	178	295	87,5		180	180	165		125		99		4		19		19		3	16
65	190	310	97,5		205	225	185		145		118		4		19		19		3	22
80	203	320	105		224	225	200		160		132		8		19		19		3	30
100	229	365	115		250	280	220		180		156		8		19		19		3	37
125	254	380	130		292	360	250		210		184		8		19		19		3	55
150	267	465	147,5		330	360	285		240		211		8		23		19		3	73
200	292	535	180		360	400	340		295		266		8	12	23		20		3	111
250	330	750	207,5	212,5	462	450	395	405	350	355	319		12		23	28	22		3	164
300	356	830	232,5	240	530	500	445	460	400	410	370		12		23	28	24,5		4	216
350	381	1170	262,5	270	602	560	505	520	460	470	429		16		23	28	24,5	26,5	4	298
400	406	1290	292,5	300	650	640	565	580	515	525	480		16		28	31	24,5	28	4	419
450	432	1320	317,5	330	706	640	615	640	565	585	530	548	20		28	31	25,5	30	4	553
500	457	1540	345	367,5	770	720	670	715	620	650	582	609	20		28	34	26,5	31,5	4	652
600	508	1740	400	430	900	720	780	840	725	770	682	720	20		31	37	30	36	5	909
700	610	1965	457,5	465	1040	800	895	910	840	840	794		24		31	37	32,5	39,5	5	1211
800	660	2145	517,5	522,5	1130	800	1015	1025	950	950	901		24		34	41	35	43	5	1652
900	711	2360	567,5	572,5	1260	800	1115	1125	1050	1050	1001		28		34	41	37,5	46,5	5	2192
1000	813	2670	625	637,5	1420	900	1230	1255	1160	1170	1112		28		37	44	40	50	5	3231
1200	1120	3040	742,5	757,5	1650	1000	1455	1485	1380	1390	1328		32		41	50	45	57	5	4800
1400	1120	3460	852,5	857,5	1938	1000	1675	1685	1590	1590	1530		36		44	50	46	60	5	7400
1600	1120	3830	972,5	980	2171	1000	1915	1930	1820	1820	1750		40		50	57	49	65	5	10500

Other nominal diameters on request.

dimensions – PN 25



PN 25

DN	L	H1	H2	B	D1	D	k	d1	l	n	b	f	maas, kg
50	178	295	87,5	180	180	165	125	99	19	4	19	3	17,5
65	190	310	97,5	205	225	185	145	118	19	8	19	3	24
80	203	330	105	224	225	200	160	132	19	8	19	3	33
100	229	365	122,5	250	280	235	190	156	23	8	19	3	41
125	254	380	140	292	360	270	220	184	28	8	19	3	60
150	267	465	155	330	360	300	250	211	28	8	20	3	80
200	292	505	190	360	400	360	310	274	28	12	22	3	122
250	330	740	222,5	462	400	425	370	330	31	12	24,5	3	180
300	356	830	252,5	530	500	485	430	389	31	16	27,5	4	238
400	406	1290	320	650	640	620	550	503	37	16	32	4	458
500	457	1540	345	770	720	730	660	609	37	20	36,5	4	717
600	508	1740	432,5	900	800	845	770	720	41	20	42	5	1000

Other nominal diameters on request.

oval body gate valve OGA series, type AV04-383

application:
Gate valve for water supply and sewerage system

nominal diameter	DN 40 – DN 1600
nominal pressure	PN 10/16/25
operating temperature	to 60 °C

mounting length: according to EN 558 SERIES 15

corrosion coating: epoxy, 250 mic RAL 7037, other coating on request

connection: flange according to EN 1092-2, on request – flanges GOST etc.

leakage class: A, according to EN 12266

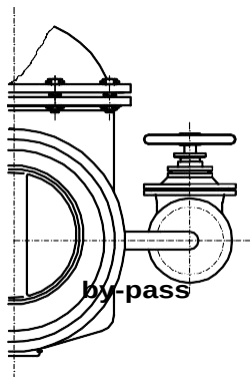
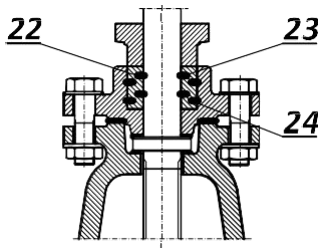
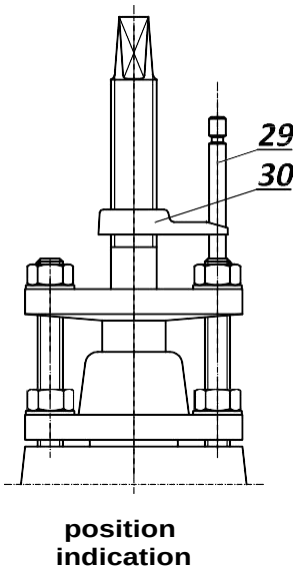
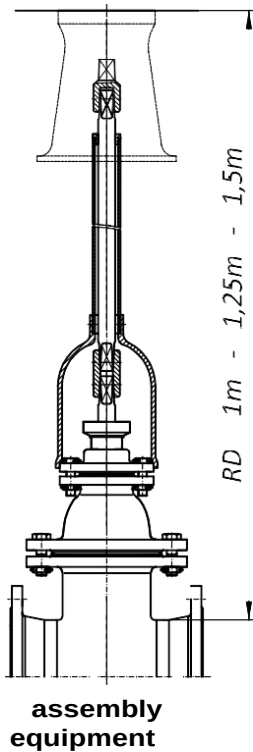
stem: non-rising

operation: hand wheel, electric actuator, request: gearbox, stem extension, hydraulic or pneumatic actuators

- special design:
- Position indication
 - By-pass
 - Stem extension



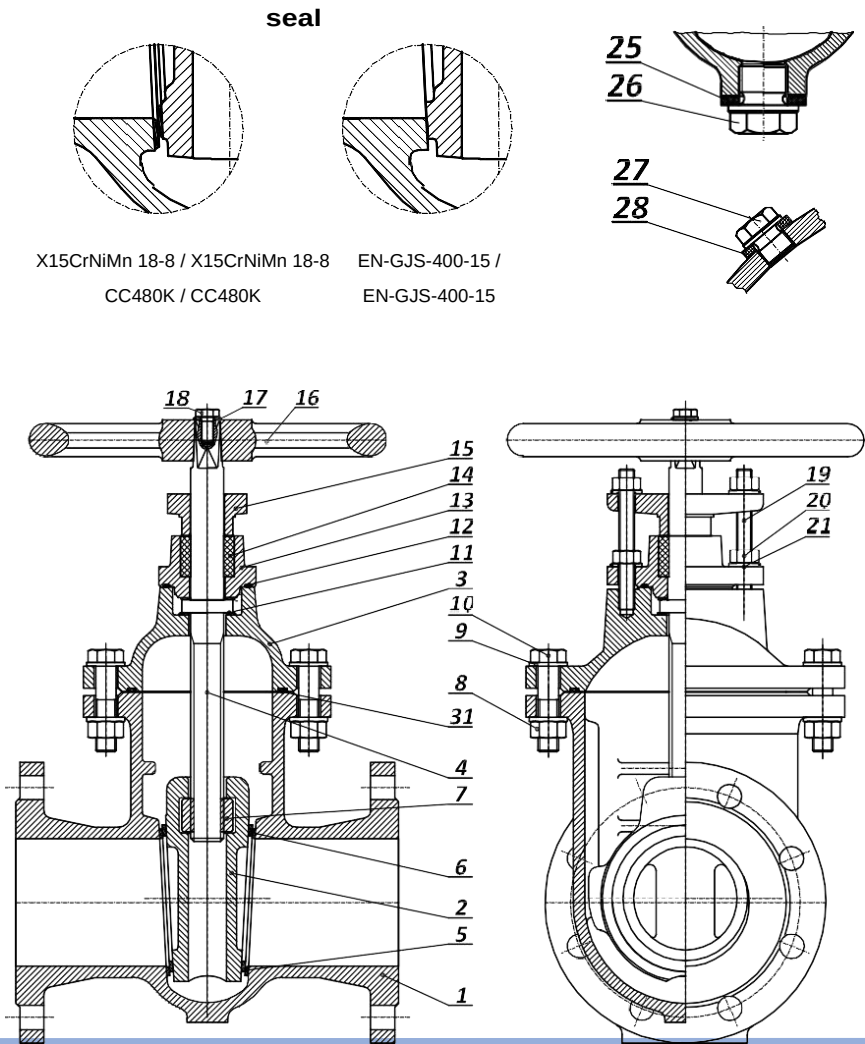
nominal diameter DN	operating pressure EN 12266 PN bar	flanges PN bar
40 – 1600	10	10
40 – 1600	16	16
40 – 600	25	25



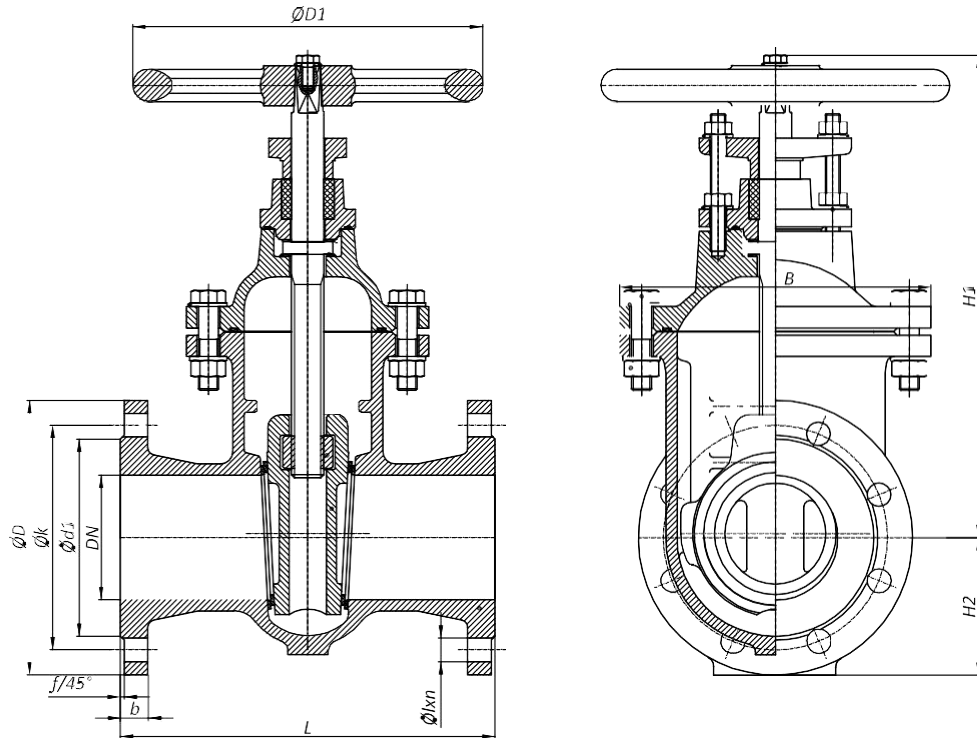
Parts list

Item	part	material	Item	part	material
1	body	EN-GJS-400-15	17	washer	galv.
2	wedge	EN-GJS-400-15	18	screw	8.8 galv.
3	bonnet	EN-GJS-400-15	19	rod	A2
4	spindle	X20Cr13	20	nut	8 galv.
5	body seat ring	CC480K	21	washer	galv.
6	wedge seat ring	CC480K	22	sealing bush	CC493K
7	spindle nut	CC483K	23	O-ring	EPDM
8	nut	8 galv.	24	O-ring	EPDM
9	washer	galv.	25	gasket	Cu
10	screw	8.8. galv.	26	drain plug	A4
11	bearing ring	CC493K	27	air plug	A4
12	gasket	It / EPDM	28	gasket	Cu
13	gland body	EN-GJS-400-15	29	position indicator scale	X20Cr13
14	gland packing	PTFE	30	position indication	CC493K
15	stuffing box	EN-GJS-400-15	31	flat gasket / O-ring	EPDM
16	hand wheel	EN-GJS-400-15			

Standard materials are given in the table. Other materials - on request.



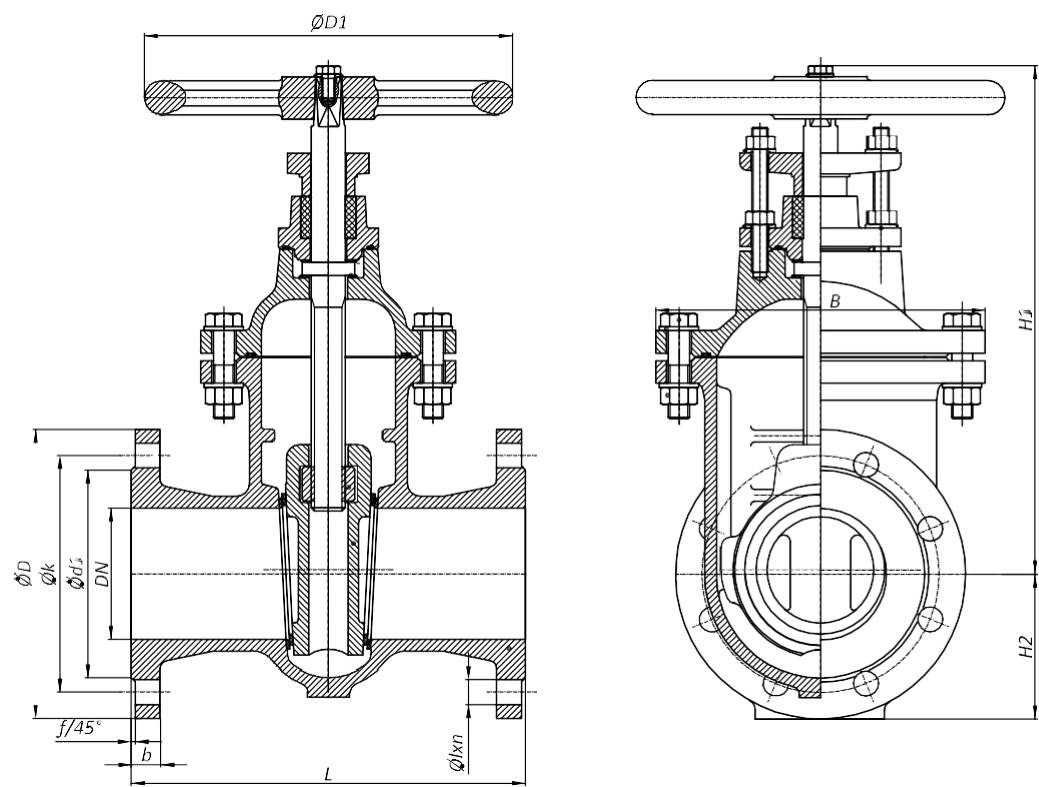
dimensions – PN10/16



DN	L	H ₁	H ₂		B	D	k	PN 10				b	D	k	PN 16				f	D1		m
			PN10	PN16				d ₁	l	n	d ₁				l	n						
40	240	250	80	80	150	150	110	84	19	4	19	150	110	84	19	4	19	3	180	15	16	
50	250	265	87,5	87,5	160	165	125	99	19	4	19	165	125	99	19	4	19	3	180	18	18	
65	270	320	97,5	97,5	205	185	145	118	19	4/8	19	185	145	118	19	4/8	19	3	225	18	25	
80	280	335	105	105	220	200	160	132	19	8	19	200	160	132	19	8	19	3	225	21	33	
100	300	380	115	115	260	220	180	156	19	8	19	220	180	156	19	8	19	3	280	24	41,5	
125	325	448	130	130	295	250	210	184	19	8	19	250	210	184	19	8	19	3	320	30	61	
150	350	480	147,5	147,5	330	285	240	211	23	8	19	285	240	211	23	8	19	3	320	36	81	
200	400	600	180	180	400	340	295	266	23	8	20	340	295	266	23	12	20	3	360	38	124	
250	450	710	207,5	212,5	460	395	350	319	23	12	22	405	355	319	28	12	22	3	400	47	182	
300	500	800	232	240	550	445	400	370	23	12	24,5	460	410	370	28	12	24,5	4	500	56	240	
350	550	890	262,5	270	585	505	460	429	23	16	24,5	520	470	429	28	16	26,5	4	500	55	332	
400	600	1000	292,5	300	670	565	515	480	28	16	24,5	580	525	480	31	16	28	4	640	62	465	
450	650	1100	317,5	330	720	615	565	530	28	20	25,5	640	585	548	31	20	30	4	640	70	615	
500	700	1200	345	367,5	820	670	620	582	28	20	26,5	715	650	609	34	20	31,5	4	720	68	725	
600	800	1360	400	430	960	780	725	682	31	20	30	840	770	720	37	20	36	5	720	82	1010	
700	900	1550	457,5	465	1030	895	840	794	31	24	32,5	910	840	794	37	24	39,5	5	800	82	1346	
800	1000	1780	517,5	522,5	1160	1015	950	901	34	24	35	1025	950	901	41	24	43	5	800	94	1836	
900	1100	1960	567,5	572,5	1260	1115	1050	1001	34	28	37,5	1125	1050	1001	41	28	46,5	5	800	95	2436	
1000	1200	2150	625	637,5	1400	1230	1160	1112	37	28	40	1255	1170	1112	44	28	50	5	900	105	3590	
1200	1400	2520	742,5	757,5	1655	1455	1380	1328	41	32	45	1485	1390	1328	50	32	57	5	1000	107	5260	
1400	1600	3045	852,5	857,5	1938	1675	1590	1530	44	36	46	1685	1590	1530	50	36	60	5	1000	121	8800	
1600	1800	3419	972,5	980	2171	1915	1820	1750	50	40	49	1930	1820	1750	57	40	65	5	1000	123	13200	

Other nominal diameters on request.

dimensions – PN 25



PN 25														m
DN	L	H ₁	H ₂	B	D	k	d ₁	l	n	b	f	D ₁		kg
40	240	250	80	150	150	110	84	19	4	19	3	180	15	17
50	250	265	87,5	160	165	125	99	19	4	19	3	180	18	19
65	270	320	97,5	205	185	145	118	19	8	19	3	225	18	26
80	280	335	105	220	200	160	132	19	8	19	3	225	21	34,5
100	300	380	122,5	260	235	190	156	23	8	19	3	280	24	43,5
125	325	448	140	295	270	220	184	28	8	19	3	320	30	64
150	350	480	155	330	300	250	211	28	8	20	3	320	36	85
200	400	600	190	400	360	310	274	28	12	22	3	360	38	136
250	450	710	222,5	460	425	370	330	31	12	24,5	3	400	47	200
300	500	800	252,5	550	485	430	389	31	16	27,5	4	500	56	264
350	550	890	287,5	585	555	490	448	34	16	30	4	500	55	365
400	600	1000	320	670	620	550	503	37	16	32	4	640	62	511
450	650	1100	345	720	670	600	548	37	20	34,5	4	640	70	676
500	700	1200	375	820	730	660	609	37	20	36,5	4	720	68	797
600	800	1360	432,5	900	845	770	720	41	20	42	5	720	82	1110

Other nominal diameters on request.

gate valve with rising stem OGA series, type
AV04-382

application:
Gate valve for water supply and sewerage system

nominal diameter	DN 40 – DN 1200
nominal pressure	PN 10/16
operating temperature	to 60 °C

mounting length: according to EN 558 SERIES 3

corrosion coating: epoxy, 250 mic RAL 7037, other coating on request

connection: flange according to EN 1092-2, on request – flanges GOST etc.

leakage class: A, according to EN 12266

stem: rising

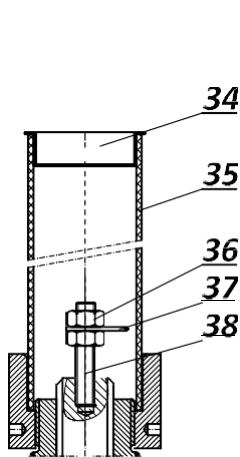
operation: hand wheel, electric actuator, request: gearbox, stem extension, hydraulic or pneumatic actuators

special design:

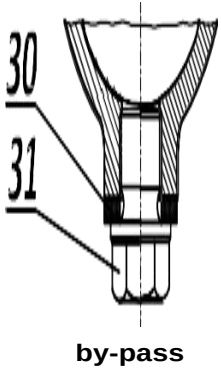
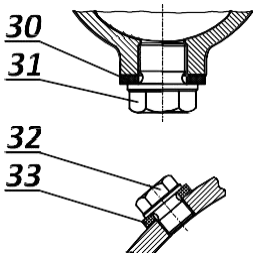
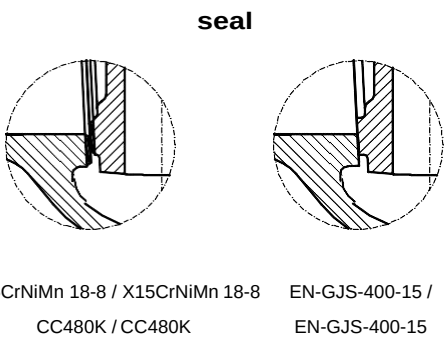
- Position indication
- By-pass



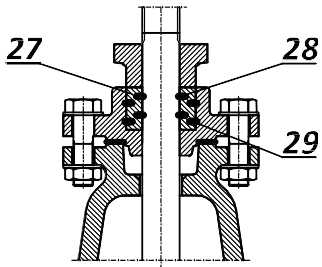
nominal diameter DN	operating pressure EN 12266 PN bar	flanges PN bar
50 – 1200	10	10
50 – 1200	16	16



position
indication



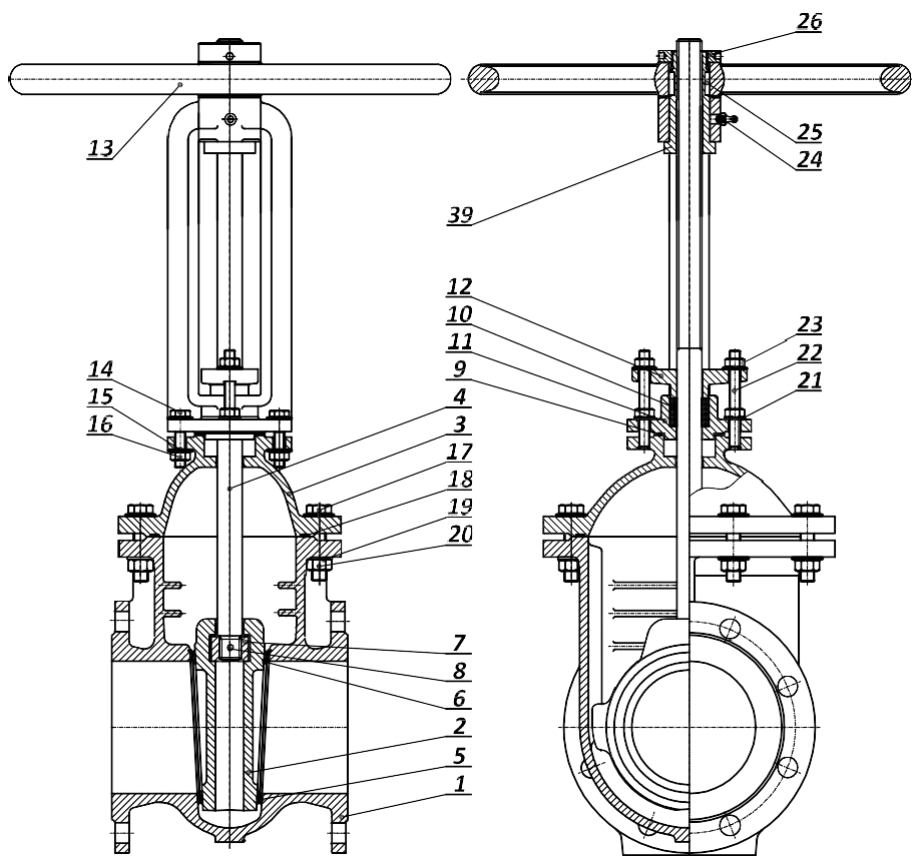
by-pass



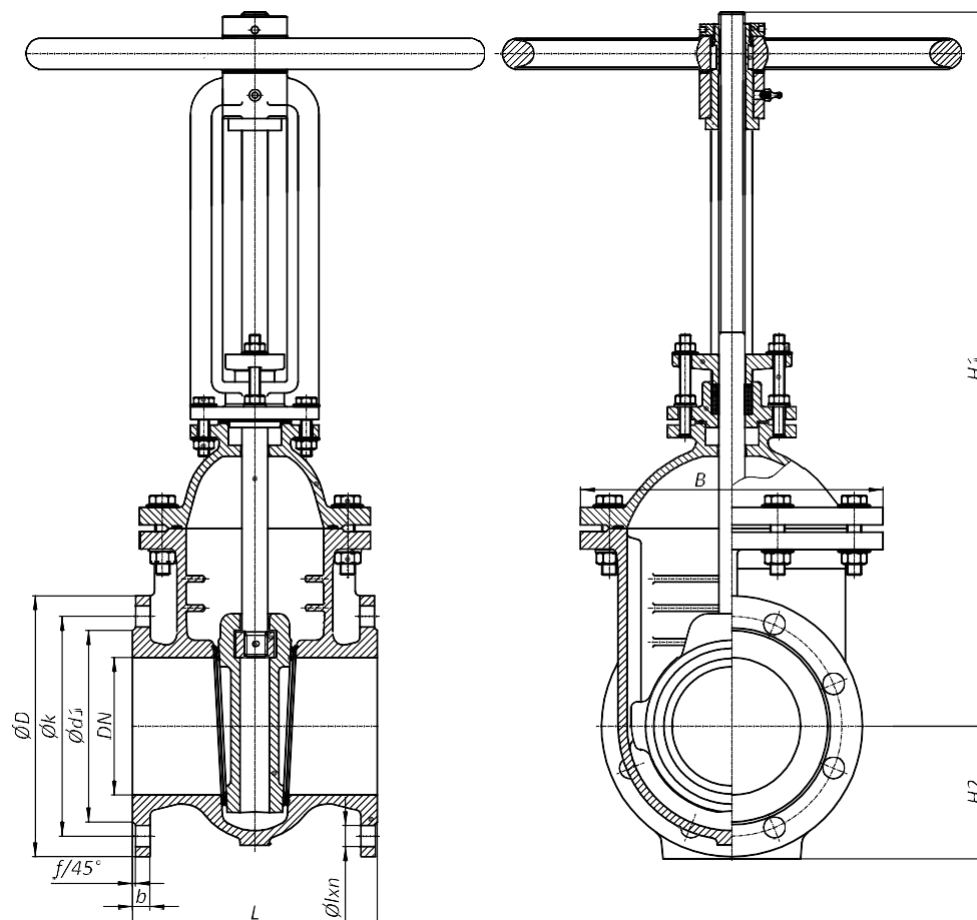
Parts list

Item	part	material	Item	part	material
1	body	EN-GJS-400-15	21	washer	galv.
2	wedge	EN-GJS-400-15	22	rod	A2
3	bonnet	EN-GJS-400-15	23	nut	8 galv.
4	spindle	X20Cr13	24	lubricating nipple	Ms
5	body seat ring	CC480K	25	key	C45E
6	wedge seat ring	CC480K	26	nut	CC483K
7	spindle nut	CC483K	27	sealing bush	CC493K
8	plug	X17CrNi16-2	28	O-ring	EPDM
9	gasket	It / EPDM	29	O-ring	EPDM
10	gland packing	PTFE	30	gasket	Cu
11	housing	EN-GJS-400-15	31	drain plug	A4
12	stuffing box	EN-GJS-400-15	32	gasket	Cu
13	hand wheel	EN-GJS-400-15	33	air plug	A4
14	screw	8.8 galv.	34	bonnet	PE
15	washer	galv.	35	protection hood	polycarbonate
16	nut	8 galv.	36	nut	8 galv.
17	screw	8.8 galv.	37	position indication	A2
18	O-ring	EPDM	38	rod	A2
19	washer	galv.	39	spindle nut	CC483K
20	nut	8 galv.			

Standard materials are given in the table. Other materials - on request.



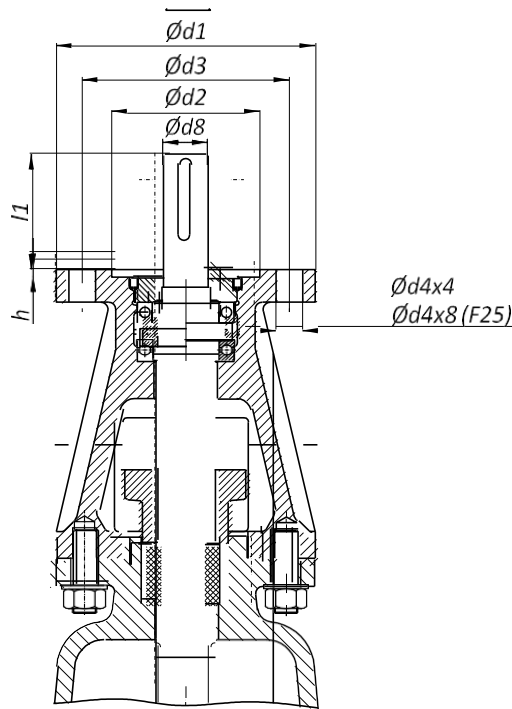
dimensions – PN10/16



DN	L	H ₁		H ₂		B	D ₁	D		k		d ₁		n		l		b		f	maas, kg
		min	max	PN10	PN16			PN10	PN16	PN10	PN16	PN10	PN16	PN10	PN16	PN10	PN16	PN10	PN16		
50	178				87,5	180	180	165		125		99		4		19		19		3	16
65	190	390	550		97,5	205	225	185		145		118		4		19		19		3	22
80	203	430	590		105	224	225	200		160		132		8		19		19		3	30
100	229	555	705		115	250	280	220		180		156		8		19		19		3	37
125	254				130	292	360	250		210		184		8		19		19		3	55
150	267	680	910		147,5	330	360	285		240		211		8		23		19		3	73
200	292	835	1128		180	360	400	340		295		266	8	12		23		20		3	111
250	330	1000	1388	207,5	212,5	462	450	395	405	350	355	319		12	23	28		22		3	164
300	356	1150	1558	232,5	240	530	500	445	460	400	410	370		12	23	28		24,5		4	216
350	381	1280	1747	262,5	270	602	560	505	520	460	470	429		16	23	28	24,5	26,5		4	298
400	406	1500	2000	292,5	300	650	640	565	580	515	525	480		16	28	31	24,5	28		4	419
450	432	1935	2431	317,5	330	706	640	615	640	565	585	530	548	20	28	31	25,5	30		4	553
500	457	2170	2870	345	367,5	770	720	670	715	620	650	582	609	20	28	34	26,5	31,5		4	652
600	508	2250	2978	400	430	900	720	780	840	725	770	682	720	20	31	37	30	36		5	909
700	610	2480	3380	457,5	465	1040	800	895	910	840	840	794		24	31	37	32,5	39,5		5	1211
800	660	2830	3735	517,5	522,5	1130	800	1015	1025	950	950	901		24	34	41	35	43		5	1652
900	711	ON REQUEST		567,5	572,5	1260	800	1115	1125	1050	1050	1001		28	34	41	37,5	46,5		5	2192
1000	813			625	637,5	1420	900	1230	1255	1160	1170	1112		28	37	44	40	50		5	3231
1200	1120			742,5	757,5	1650	1000	1455	1485	1380	1390	1328		32	41	50	45	57		5	4800

Other nominal diameters on request.

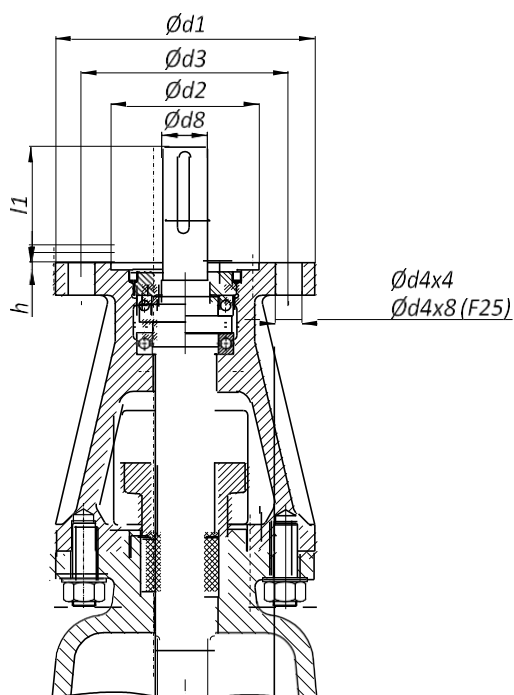
actuators connection dimensions



PN 10

DN	axial force	torque	turns / lift	installation flange	actuators connection dimensions							actuator
	kN	Nm		ISO 5210	d ₁	d ₂	d ₃	d ₄	h	d ₈	l ₁	AUMA
50	5,1	16		F 07	90	70	55	10	4	16	35	SA 07.6
65	7,3	23		F 07	90	70	55	10	4	16	35	SA 07.6
80	8,5	26	21	F 07	90	70	55	10	4	20	35	SA 07.6
100	9,5	32	24	F 07	90	70	55	10	4	20	35	SA 07.6
125	11	40	30	F 07	90	70	55	10	4	20	35	SA 07.6
150	12,9	46	36	F 07	90	70	55	10	4	20	35	SA 07.6
200	17,7	73	38	F 10	125	102	70	12	4	20	45	SA 10.2
250	23,9	110	47	F 14	175	140	100	18	5	30	65	SA 14.2
300	31,5	157	56	F 14	175	140	100	18	5	30	65	SA 14.2
350	40,4	202	55	F 14	175	140	100	18	5	30	65	SA 14.2
400	50,7	291	62	F 14	175	140	100	18	5	30	65	SA 14.6
500	79,9	509	544	F 10	125	102	170	12	4	20	45	R1:8+SA 10.2
600	110,1	743	656	F 10	125	102	170	12	4	20	45	R1:8+SA 10.2
700	145,8	1075	656	F 14	175	140	100	18	5	30	65	R1:8+SA 14.2
800	187,1	1450	752	F 14	175	140	100	18	5	30	65	R1:8+SA 14.2
900	233,8	2016	760	F 14	175	140	100	18	5	30	65	R1:8+SA 14.6
1000	286	2470	840	F 14	175	140	100	18	5	30	65	R1:8+SA 14.6
1200	407	4018	1712	F 14	175	140	100	18	5	30	65	R1:16+SA 14.6
1400	550	5430	1933	F 14	175	140	100	18	5	30	65	R1:16+SA 14.6
1600	714,9	7059	1855	F 14	175	140	100	18	5	30	65	R1:16+SA 14.6

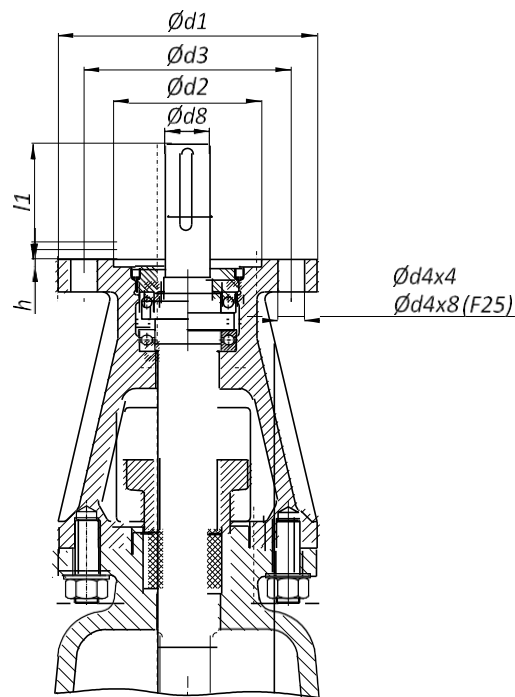
actuators connection dimensions



PN 16

DN	axial force	torque	turns / lift	installation flange	actuators connection dimensions							actuator
	kN	Nm		ISO 5210	d ₁	d ₂	d ₃	d ₄	h	d ₈	l ₁	AUMA
50	5,5	18		F 07	90	70	55	10	4	16	35	SA 07.6
65	8	25		F 07	90	70	55	10	4	16	35	SA 07.6
80	9,5	30	21	F 07	90	70	55	10	4	16	35	SA 07.6
100	11,1	38	24	F 07	90	70	55	10	4	16	35	SA 07.6
125	13,6	49	30	F 07	90	70	55	10	4	16	35	SA 07.6
150	16,6	60	36	F 10	125	102	70	12	4	20	45	SA 10.2
200	24,3	100	38	F 10	125	102	70	12	4	20	45	SA 10.2
250	34,2	158	47	F 14	175	140	100	18	5	30	65	SA 14.2
300	46,3	231	56	F 14	175	140	100	18	5	30	65	SA 14.2
350	60,5	303	55	F 14	175	140	100	18	5	30	65	SA 14.6
400	77,1	443	62	F 14	175	140	100	18	5	30	65	SA 14.6
500	121,1	772	544	F 10	125	102	70	12	4	20	45	R1:8+SA 10.2
600	169,4	1144	656	F 14	175	140	100	18	5	30	65	R1:8+SA 14.2
700	226,6	1671	656	F 14	175	140	100	18	5	30	65	R1:8+SA 14.2
800	292,6	2267	752	F 14	175	140	100	18	5	30	65	R1:8+SA 14.6
900	367,3	3168	760	F 14	175	140	100	18	5	30	65	R1:8+SA 14.6
1000	451	3889	840	F 14	175	140	100	18	5	30	65	R1:16+SA 14.6
1200	644,4	6364	1712	F 14	175	140	100	18	5	30	65	R1:16+SA 14.6
1400	873,2	8622	1933	F 16	210	165	130	22	6	40	80	R1:16+SA 16.2
1600	1137,1	11228	1855	F 16	210	165	130	22	6	40	80	R1:16+SA 16.2

actuators connection dimensions



PN 25

DN	axial force	torque	turns / lift	installation flange	actuators connection dimensions							actuator
	kN	Nm		ISO 5210	d ₁	d ₂	d ₃	d ₄	h	d ₈	l ₁	AUMA
80	11,1	35	20	F 07	90	70	55	10	4	16	35	SA 07.6
100	13,5	46	23	F 07	90	70	55	10	4	16	35	SA 07.6
125	17,4	63	24	F 10	125	102	70	12	4	20	45	SA 10.2
150	22,1	80	28	F 10	125	102	70	12	4	20	45	SA 10.2
200	34,2	141	37	F 14	175	140	100	18	5	30	65	SA 14.2
250	49,6	230	39	F 14	175	140	100	18	5	30	65	SA 14.2
300	68,5	343	46	F 14	175	140	100	18	5	30	65	SA 14.6
350	90,9	454	54	F 14	175	140	100	18	5	30	65	SA 14.6
400	116,6	671	432	F 10	125	102	70	12	4	20	45	R1:8+SA 10.2
500	182,9	1166	472	F 14	175	140	100	18	5	30	65	R1:8+SA 14.2
600	258,5	1745	624	F 14	175	140	100	18	5	30	65	R1:8+SA 14.6

oval body gate valve with rising stem OGA series, type AV04-384

application:
Gate valve for water supply and sewerage system

nominal diameter	DN 40 – DN 1200
nominal pressure	PN 10/16/25
operating temperature	to 60 °C

mounting length: according to EN 558 SERIES 15

corrosion coating: epoxy, 250 mic RAL 7037, other coating on request

connection: flange according to EN 1092-2, on request – flanges GOST etc.

leakage class: A, according to EN 12266

stem: rising

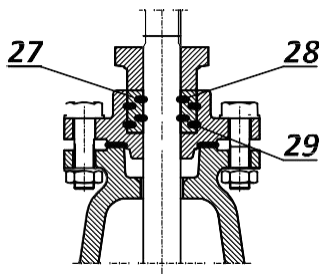
operation: hand wheel, electric actuator, request: gearbox, stem extension, hydraulic or pneumatic actuators

special design:

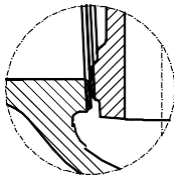
- Position indication
- By-pass



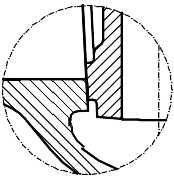
nominal diameter DN	operating pressure EN 12266 PN bar	flanges PN bar
40 – 1200	10	10
40 – 1200	16	16
40 – 600	25	25



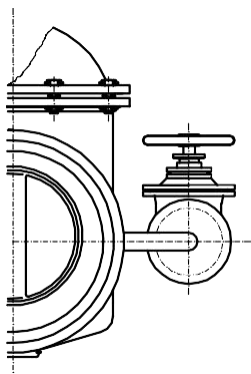
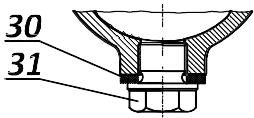
seal



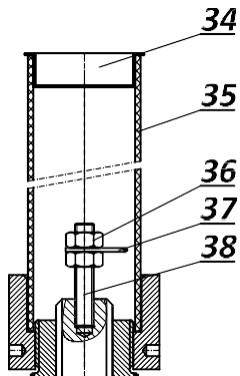
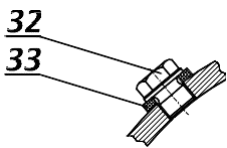
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CC480K / CC480K



EN-GJS-400-15 /
EN-GJS-400-15



by-pass

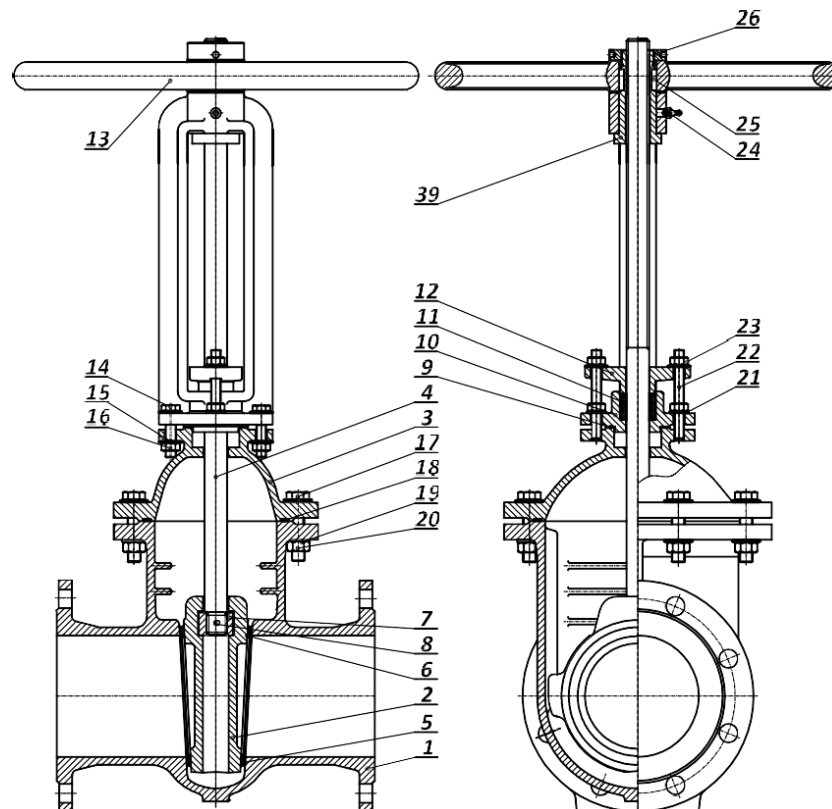


position
indication

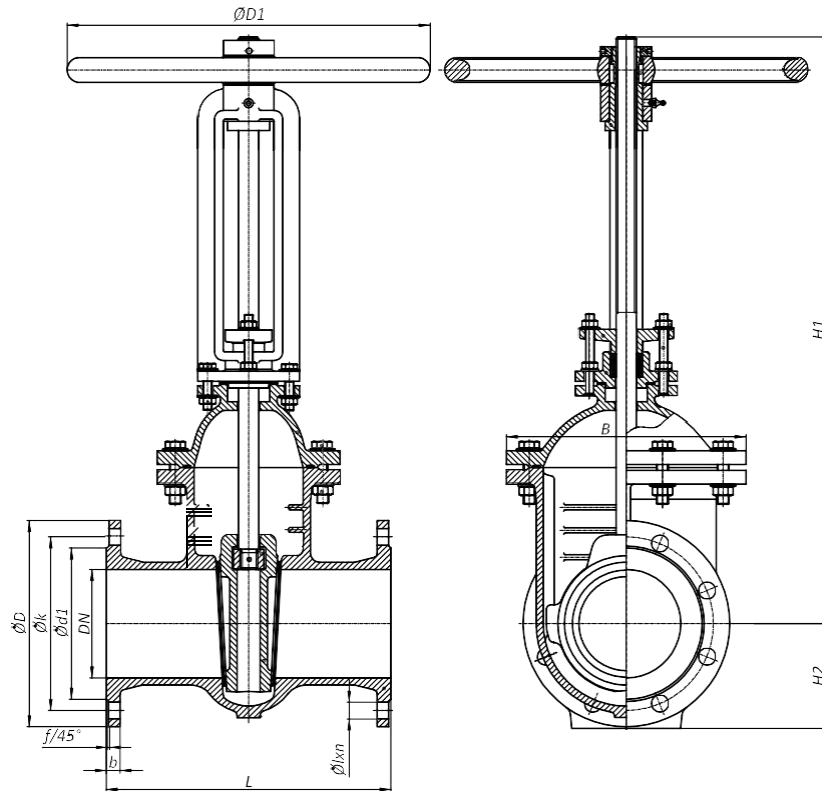
Parts list

Item	part	material	Item	part	material
1	body	EN-GJS-400-15	21	washer	galv.
2	wedge	EN-GJS-400-15	22	rod	A2
3	bonnet	EN-GJS-400-15	23	nut	8 galv.
4	spindle	X20Cr13	24	lubricating nipple	Ms
5	body seat ring	CC480K	25	key	C45E
6	wedge seat ring	CC480K	26	nut	CC493K
7	spindle nut	CC483K	27	sealing bush	CC493K
8	plug	X17CrNi16-2	28	O-ring	EPDM
9	gasket	It / EPDM	29	O-ring	EPDM
10	housing	EN-GJS-400-15	30	gasket	Cu
11	gland packing	PTFE	31	drain plug	A4
12	stuffing box	EN-GJS-400-15	32	gasket	Cu
13	hand wheel	EN-GJS-400-15	33	air plug	A4
14	screw	8.8 galv.	34	bonnet	PE
15	washer	galv.	35	protection hood	polycarbonate
16	nut	8 galv.	36	nut	8 galv.
17	screw	8.8 galv.	37	position indication	A2
18	O-ring	EPDM	38	rod	A2
19	washer	galv.	39	spindle nut	CC483K
20	nut	8 galv.			

Standard materials are given in the table. Other materials - on request.



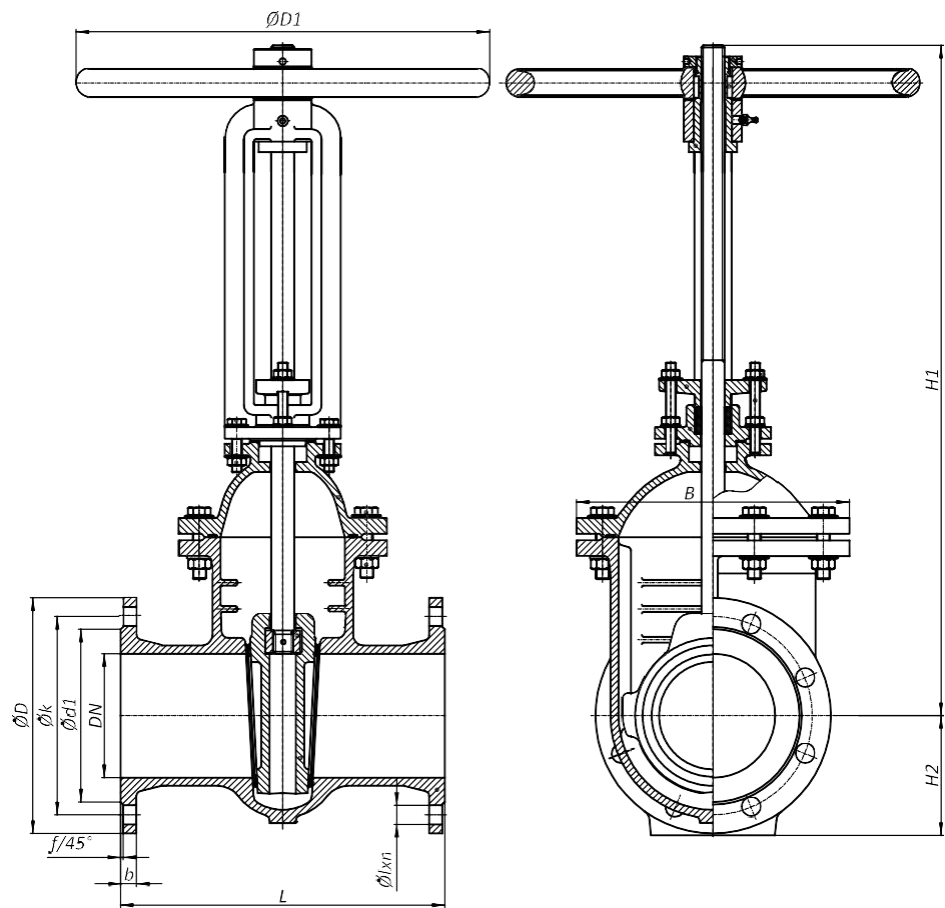
dimensions – PN10/16



DN	L	H ₁		PN10	PN16	B	PN 10						PN 16						f	D ₁	turns / lift	m
		closed	opened	H ₂			D	k	d ₁	l	n	b	D	k	d ₁	l	n	b				kg
40	240	390	440	80	80	150	150	110	84	19	4	19	150	110	84	19	4	19	3	180	15	18
50	250	410	470	87,5	87,5	160	165	125	99	19	4	19	165	125	99	19	4	19	3	180	18	22
65	270	460	550	97,5	97,5	205	185	145	118	19	4/8	19	185	145	118	19	4/8	19	3	225	18	29
80	280	480	585	105	105	220	200	160	132	19	8	19	200	160	132	19	8	19	3	225	21	38
100	300	570	690	115	115	260	220	180	156	19	8	19	220	180	156	19	8	19	3	280	24	50
125	325	670	820	130	130	295	250	210	184	19	8	19	250	210	184	19	8	19	3	320	30	70
150	350	740	920	147,5	147,5	330	285	240	211	23	8	19	285	240	211	23	8	19	3	320	36	90
200	400	930	1155	180	180	400	340	295	266	23	8	20	340	295	266	23	12	20	3	360	38	138
250	450	1115	1400	207,5	212,5	460	395	350	319	23	12	22	405	355	319	28	12	22	3	400	47	205
300	500	1200	1540	232	240	550	445	400	370	23	12	24,5	460	410	370	28	12	24,5	4	500	56	275
350	550	1340	1720	262,5	270	585	505	460	429	23	16	24,5	520	470	429	28	16	26,5	4	500	55	365
400	600	1580	2020	292,5	300	670	565	515	480	28	16	24,5	580	525	480	31	16	28	4	640	62	495
450	650	1615	2100	317,5	330	720	615	565	530	28	20	25,5	640	585	548	31	20	30	4	640	70	675
500	700	1850	2400	345	367,5	820	670	620	582	28	20	26,5	715	650	609	34	20	31,5	4	720	68	970
600	800	2140	2790	400	430	960	780	725	682	31	20	30	840	770	720	37	20	36	5	720	82	1110
700	900	2400	3140	457,5	465	1030	895	840	794	31	24	32,5	910	840	794	37	24	39,5	5	800	82	1456
800	1000	2800	3650	517,5	522,5	1160	1015	950	901	34	24	35	1025	950	901	41	24	43	5	800	94	1986
900	1100	3080	4030	567,5	572,5	1260	1115	1050	1001	34	28	37,5	1125	1050	1001	41	28	46,5	5	800	95	2636
1000	1200	3300	4450	625	637,5	1400	1230	1160	1112	37	28	40	1255	1170	1112	44	28	50	5	900	105	3750
1200	1400	4020	5300	742,5	757,5	1655	1455	1380	1328	41	32	45	1485	1390	1328	50	32	57	5	1000	107	5460

Other nominal diameters on request.

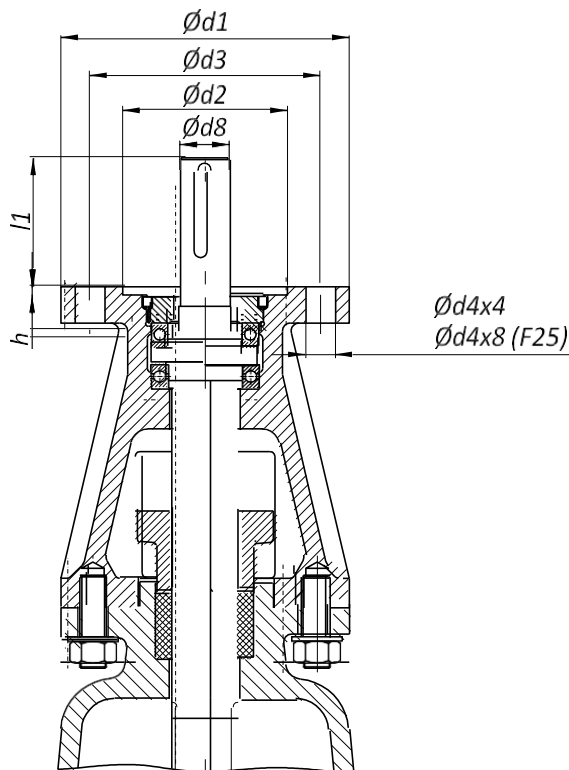
dimensions – PN 25



DN	L	H ₁		H ₂	B	PN 25						f	D ₁	turns / lift	maas, kg
		closed	opened			D	k	d ₁	l	n	b				
40	240	390	440	80	150	150	110	84	19	4	19	3	180	15	19
50	250	410	470	87,5	160	165	125	99	19	4	19	3	180	18	23
65	270	460	550	97,5	205	185	145	118	19	8	19	3	225	18	31
80	280	480	585	105	220	200	160	132	19	8	19	3	225	21	40
100	300	570	690	122,5	260	235	190	156	23	8	19	3	280	24	53
125	325	670	820	140	295	270	220	184	28	8	19	3	320	30	74
150	350	740	920	155	330	300	250	211	28	8	20	3	320	36	95
200	400	930	1155	190	400	360	310	274	28	12	22	3	360	38	145
250	450	1115	1400	222,5	460	425	370	330	31	12	24,5	3	400	47	226
300	500	1200	1540	252,5	550	485	430	389	31	16	27,5	4	500	56	303
350	550	1340	1720	287,5	585	555	490	448	34	16	30	4	500	55	402
400	600	1580	2020	320	670	620	550	503	37	16	32	4	640	62	545
450	650	1615	2100	345	720	670	600	548	37	20	34,5	4	640	70	742
500	700	1850	2400	375	820	730	660	609	37	20	36,5	4	720	68	1070
600	800	2140	2790	432,5	960	845	770	720	41	20	42	5	720	82	1230

Other nominal diameters on request.

actuators connection dimensions



PN 10

DN	axial force	torque	turns / lift	installation flange	actuators connection dimensions							actuator
	kN	Nm		ISO 5210	d1	d2	d3	d4	h	d8	l1	AUMA
80	8,5	26	21	F 07	90	70	55	10	4	20	35	SA 07.6
100	9,5	32	24	F 07	90	70	55	10	4	20	35	SA 07.6
125	11	40	30	F 07	90	70	55	10	4	20	35	SA 07.6
150	12,9	46	36	F 07	90	70	55	10	4	20	35	SA 07.6
175	15,1	55,5	34	F 10	125	102	70	12	4	20	45	SA 10.2
200	17,7	73	38	F 10	125	102	70	12	4	20	45	SA 10.2
250	23,9	110	47	F 14	175	140	100	18	5	30	65	SA 14.2
300	31,5	157	56	F 14	175	140	100	18	5	30	65	SA 14.2
350	40,4	202	55	F 14	175	140	100	18	5	30	65	SA 14.2
400	50,7	291	62	F 14	175	140	100	18	5	30	65	SA 14.6
500	79,9	509	544	F 10	125	102	170	12	4	20	45	R1:8+SA 10.2
600	110,1	743	656	F 10	125	102	170	12	4	20	45	R1:8+SA 10.2
700	145,8	1075	656	F 14	175	140	100	18	5	30	65	R1:8+SA 14.2
800	187,1	1450	752	F 14	175	140	100	18	5	30	65	R1:8+SA 14.2
900	233,8	2016	760	F 14	175	140	100	18	5	30	65	R1:8+SA 14.6
1000	286	2470	840	F 14	175	140	100	18	5	30	65	R1:8+SA 14.6
1200	407	4018	1712	F 14	175	140	100	18	5	30	65	R1:16+SA 14.6
1400	550	5430	1933	F 14	175	140	100	18	5	30	65	R1:16+SA 14.6
1600	714,9	7059	1855	F 14	175	140	100	18	5	30	65	R1:16+SA 14.6

Other nominal diameters on request.

PN 16

DN	axial force	torque	turns / lift	installation flange	actuators connection dimensions							actuator
	kN	Nm		ISO 5210	d1	d2	d3	d4	h	d8	l1	
80	9,5	30	21	F 07	90	70	55	10	4	16	35	SA 07.6
100	11,1	38	24	F 07	90	70	55	10	4	16	35	SA 07.6
125	13,6	49	30	F 07	90	70	55	10	4	16	35	SA 07.6
150	16,6	60	36	F 10	125	102	70	12	4	20	45	SA 10.2
200	24,3	100	38	F 10	125	102	70	12	4	20	45	SA 10.2
250	34,2	158	47	F 14	175	140	100	18	5	30	65	SA 14.2
300	46,3	231	56	F 14	175	140	100	18	5	30	65	SA 14.2
350	60,5	303	55	F 14	175	140	100	18	5	30	65	SA 14.6
400	77,1	443	62	F 14	175	140	100	18	5	30	65	SA 14.6
500	121,1	772	544	F 10	125	102	70	12	4	20	45	R1:8+SA 10.2
600	169,4	1144	656	F 14	175	140	100	18	5	30	65	R1:8+SA 14.2
700	226,6	1671	656	F 14	175	140	100	18	5	30	65	R1:8+SA 14.2
800	292,6	2267	752	F 14	175	140	100	18	5	30	65	R1:8+SA 14.6
900	367,3	3168	760	F 14	175	140	100	18	5	30	65	R1:8+SA 14.6
1000	451	3889	1680	F 14	175	140	100	18	5	30	65	R1:16+SA 14.6
1200	644,4	6364	1712	F 14	175	140	100	18	5	30	65	R1:16+SA 14.6
1400	873,2	8622	1933	F 16	210	165	130	22	6	40	80	R1:16+SA 16.2
1600	1137,1	11228	1855	F 16	210	165	130	22	6	40	80	R1:16+SA 16.2
1600	714,9	7059	1855	F 14	175	140	100	18	5	30	65	R1:16+SA 14.6

PN 25

DN	axial force	torque	turns / lift	installation flange	actuators connection dimensions							actuator
	kN	Nm		ISO 5210	d1	d2	d3	d4	h	d8	l1	
80	11,1	35	20	F 07	90	70	55	10	4	16	35	SA 07.6
100	13,5	46	23	F 07	90	70	55	10	4	16	35	SA 07.6
125	17,4	63	24	F 10	125	102	70	12	4	20	45	SA 10.2
150	22,1	80	28	F 10	125	102	70	12	4	20	45	SA 10.2
200	34,2	141	37	F 14	175	140	100	18	5	30	65	SA 14.2
250	49,6	230	39	F 14	175	140	100	18	5	30	65	SA 14.2
300	68,5	343	46	F 14	175	140	100	18	5	30	65	SA 14.6
350	90,9	454	54	F 14	175	140	100	18	5	30	65	SA 14.6
400	116,6	671	432	F 10	125	102	70	12	4	20	45	R1:8+SA 10.2
500	182,9	1166	472	F 14	175	140	100	18	5	30	65	R1:8+SA 14.2
600	258,5	1745	624	F 14	175	140	100	18	5	30	65	R1:8+SA 14.6

round body gate valve RGA series,
type AV04-391

application:
Gate valve for water supply and sewerage system

nominal diameter	DN 40 – DN 1000
nominal pressure	PN 10/16/25/40
operating temperature	to 60 °C

mounting length: according to EN 558 SERIES 15

corrosion coating: epoxy, 250 mic RAL 7037, other coating on request

connection: flange according to EN 1092-2, on request – flanges GOST etc.

leakage class: A, according to EN 12266

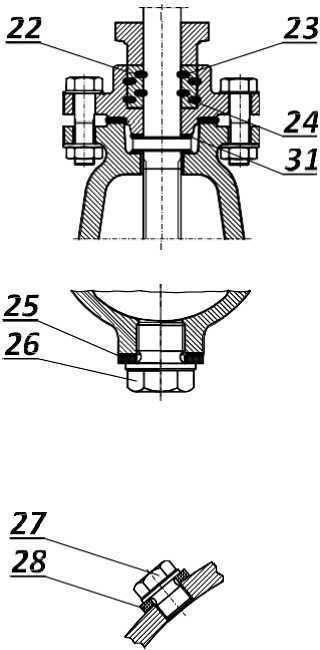
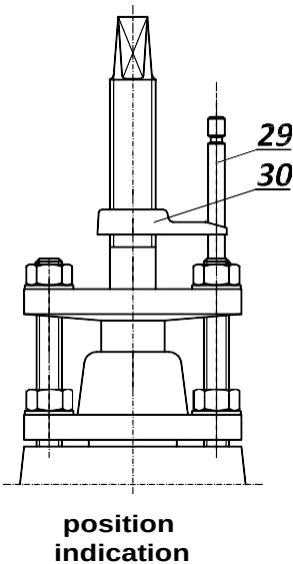
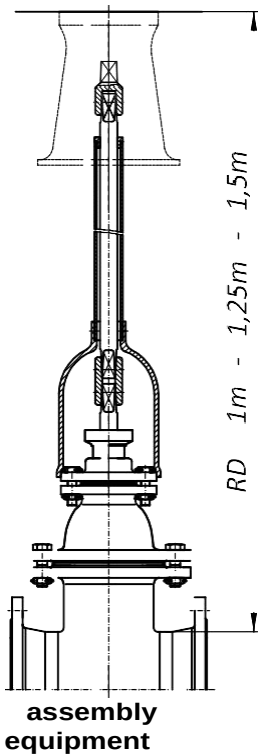
stem: non-rising

operation: hand wheel, electric actuator, request: gearbox, stem extension, hydraulic or pneumatic actuators

- special design:**
- Position indication
 - By-pass
 - Stem extension



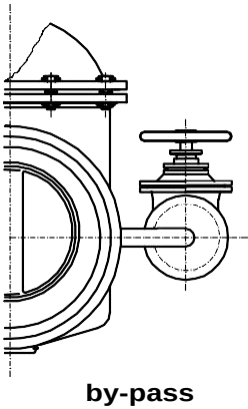
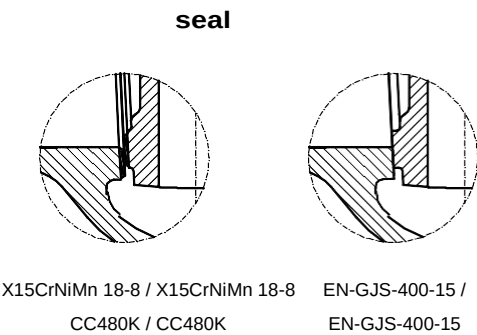
nominal diameter DN	operating pressure EN 12266 PN bar	flanges PN bar
40 – 600	40	40
40 – 1000	25	25
40 – 1000	16	16
40 – 1000	10	10

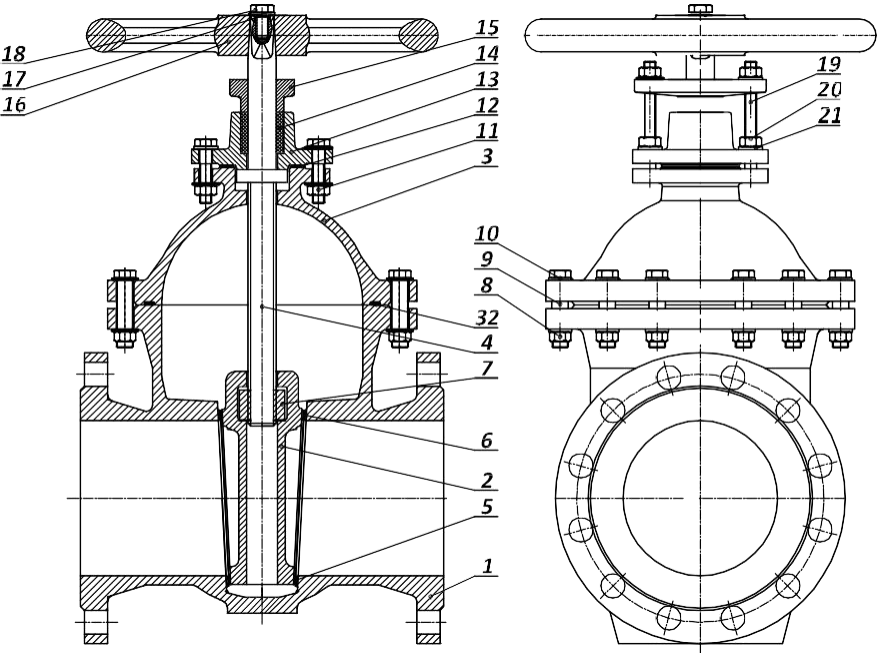


Parts list

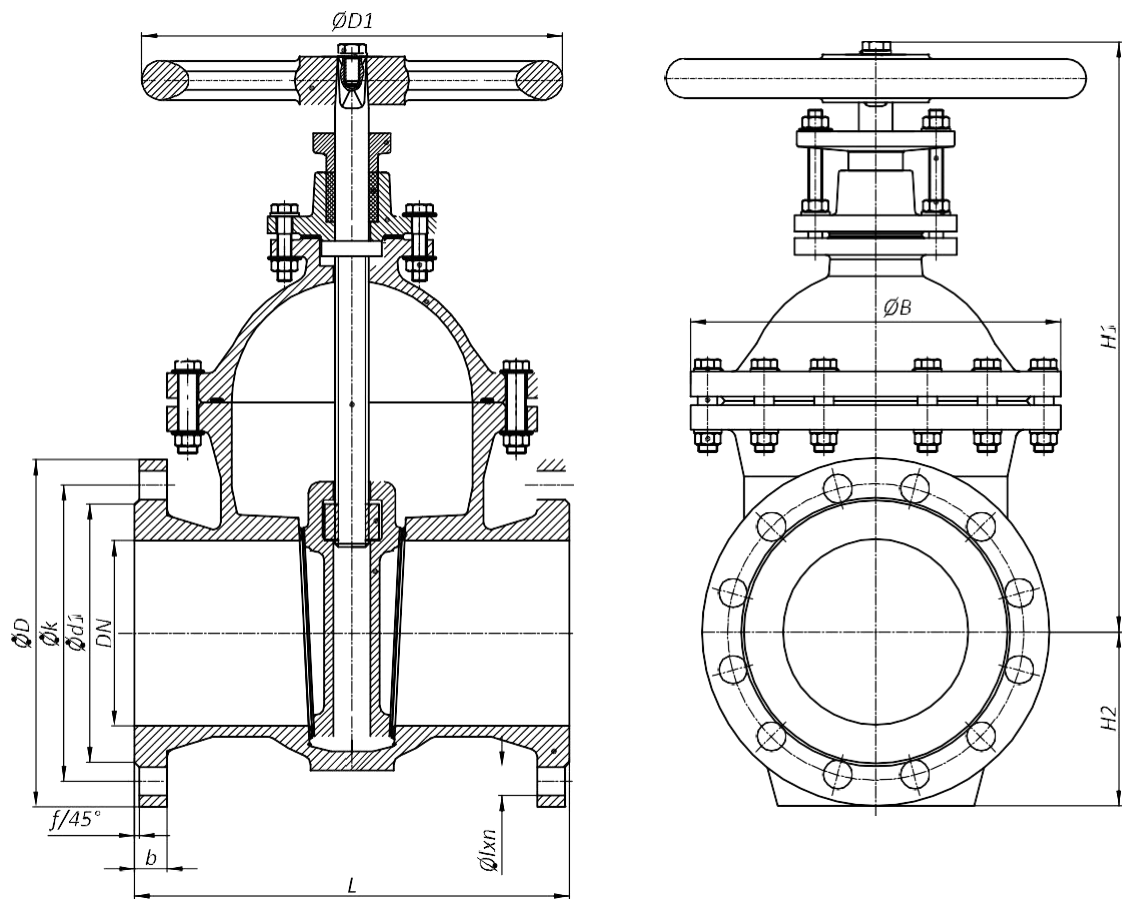
Item	part	material	Item	part	material
1	body	EN-GJS-400-15	17	washer	galv.
2	wedge	EN-GJS-400-15	18	screw	8.8 galv.
3	bonnet	EN-GJS-400-15	19	rod	A2
4	spindle	X20Cr13	20	nut	8 galv.
5	body seat ring	CC480K	21	washer	galv.
6	wedge seat ring	CC480K	22	sealing bush	CC493K
7	spindle nut	CC483K	23	O-ring	EPDM
8	washer	galv.	24	O-ring	EPDM
9	O-ring	EPDM	25	gasket	Cu
10	screw	8.8. galv.	26	drain plug	A4
11	nut	8 galv.	27	air plug	A4
12	gasket	It / EPDM	28	gasket	Cu
13	gland body	EN-GJS-400-15	29	position indicator scale	X20Cr13
14	gland packing	PTFE	30	position indication	CC493K
15	stuffing box	EN-GJS-400-15	31	bearing ring	Ms
16	hand wheel	EN-GJS-400-15	32	O-ring	EPDM

Standard materials are given in the table. Other materials - on request.





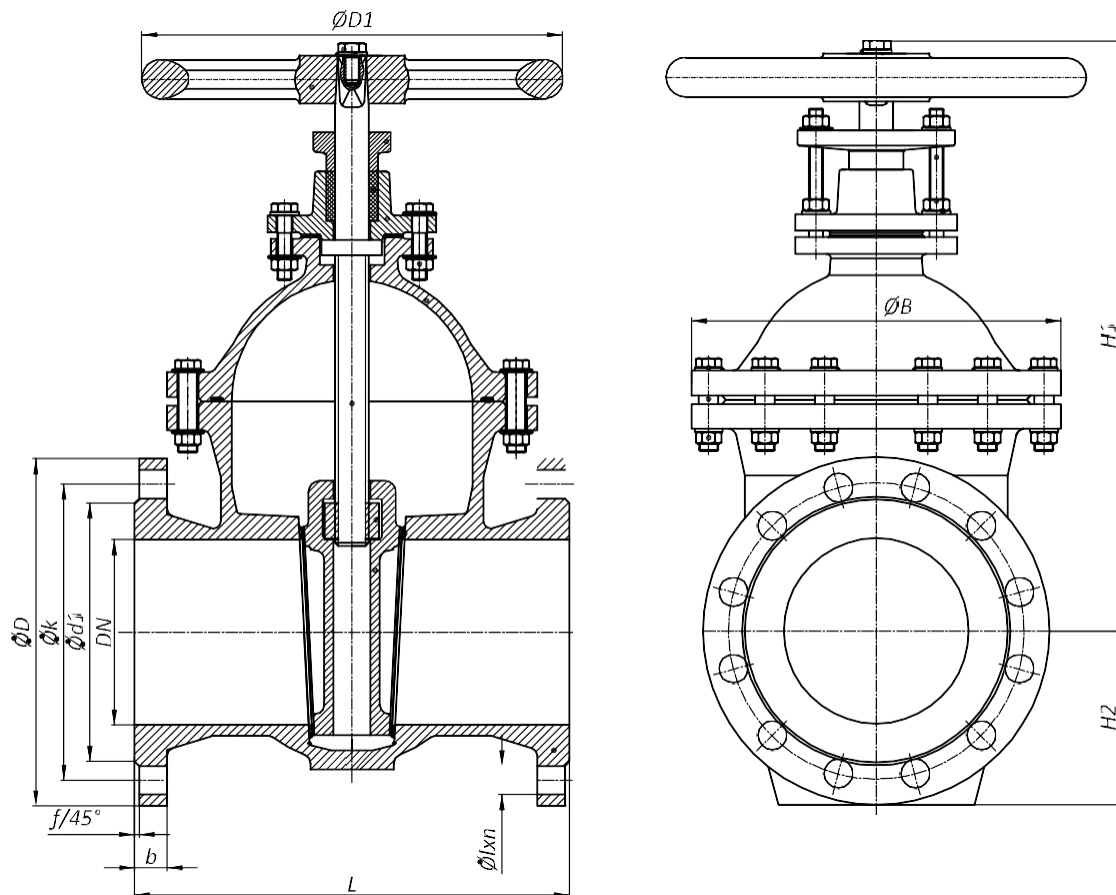
dimensions – PN10/16



DN	L	H ₁	PN10	PN16	B	PN 10						PN 16						f	D ₁	turns / lift	m
			H ₂			D	k	d ₁	l	n	b	D	k	d ₁	l	n	b				kg
40	240	280	80	80	160	150	110	84	19	4	19	150	110	84	19	4	19	3	200	11	21
50	250	290	87,5	87,5	180	165	125	99	19	4	19	165	125	99	19	4	19	3	225	13	27
65	270	330	97,5	97,5	215	185	145	118	19	4/8	19	185	145	118	19	4/8	19	3	280	17	40
80	280	350	105	105	235	200	160	132	19	8	19	200	160	132	19	8	19	3	280	20	45
100	330	400	115	115	280	220	180	156	19	8	19	220	180	156	19	8	19	3	320	23	68
125	360	460	130	130	315	250	210	184	19	8	19	250	210	184	19	8	19	3	360	24	90
150	390	520	147,5	147,5	340	285	240	211	23	8	19	285	240	211	23	8	19	3	360	28	120
200	460	630	180	180	420	340	295	266	23	8	20	340	295	266	23	12	20	3	400	37	190
250	530	730	207,5	212,5	500	395	350	319	23	12	22	405	355	319	28	12	22	3	500	39	222
300	630	840	232	240	580	445	400	370	23	12	24,5	460	410	370	28	12	24,5	4	640	46	370
350	690	940	262,5	270	620	505	460	429	23	16	24,5	520	470	429	28	16	26,5	4	640	54	467
400	750	1070	292,5	300	690	565	515	480	28	16	24,5	580	525	480	31	16	28	4	720	54	650
500	880	1260	345	367,5	840	670	620	582	28	20	26,5	715	650	609	34	20	31,5	4	800	59	1123
600	1000	1480	400	430	980	780	725	682	31	20	30	840	770	720	37	20	36	5	800	72	1685
700	1130	1620	457,5	465	1060	895	840	794	31	24	32,5	910	840	794	37	24	39,5	5	800	75	2250
800	1250	1820	517,5	522,5	1200	1015	950	901	34	24	35	1025	950	901	41	24	43	5	900	86	3195
1000	1500	2200	625	637,5	1460	1230	1160	1112	37	28	40	1255	1170	1112	44	28	50	5	900	105	5000

Other nominal diameters on request.

dimensions – PN25/40



DN	L	H ₁	PN25	PN40	B	PN 25						PN 40						f	D ₁	turns / lift	m
			H ₂			D	k	d ₁	l	n	b	D	k	d ₁	l	n	b				kg
40	240	280	80	80	160	150	110	84	19	4	19	150	110	84	19	4	19	3	200	11	21
50	250	290	87,5	87,5	180	165	125	99	19	4	19	165	125	99	19	4	19	3	225	13	27
65	270	330	97,5	97,5	215	185	145	118	19	8	19	185	145	118	19	8	19	3	280	17	40
80	280	350	105	105	235	200	160	132	19	8	19	200	160	132	19	8	19	3	280	20	45
100	330	400	122,5	122,5	280	235	190	156	23	8	19	235	190	156	23	8	19	3	320	23	68
125	360	460	140	140	315	270	220	184	28	8	19	270	220	184	28	8	23,5	3	360	24	90
150	390	520	155	155	340	300	250	211	28	8	20	300	250	211	28	8	26	3	360	28	120
200	460	630	190	197,5	420	360	310	274	28	12	22	375	320	284	31	12	30	3	400	37	190
250	530	730	222,5	235	500	425	370	330	31	12	24,5	450	385	345	34	12	34,5	3	500	39	222
300	630	840	252,5	267,5	580	485	430	389	31	16	27,5	515	450	409	34	16	39,5	4	640	46	370
350	690	940	287,5	300	620	555	490	448	34	16	30	580	510	465	37	16	44	4	640	54	467
400	750	1070	320	340	690	620	550	503	37	16	32	660	585	535	41	16	48	4	720	54	650
500	880	1260	375	387,5	840	730	660	609	37	20	36,5	755	670	615	44	20	52	4	800	59	1123
600	1000	1480	432,5	455	980	845	770	720	41	20	42	890	795	735	50	20	58	5	800	72	1685
700	1130	1620	490	-	1060	960	875	820	44	24	46,5	-	-	-	-	-	-	5	800	75	2250
800	1250	1820	552,5	-	1200	1085	990	928	50	24	51	-	-	-	-	-	-	5	900	86	3195
1000	1500	2200	670	-	1460	1320	1210	1140	57	28	60	-	-	-	-	-	-	5	900	105	5000

Other nominal diameters on request.

round body gate valve with rising stem RGA series, type AV04-392

application:
Gate valve for water supply and sewerage system

nominal diameter	DN 40 – DN 1000
nominal pressure	PN 10/16/25/40
operating temperature	to 60 °C

mounting length: according to EN 558 SERIES 15

corrosion coating: epoxy, 250 mic RAL 7037, other coating on request

connection: flange according to EN 1092-2, on request – flanges GOST etc.

leakage class: A, according to EN 12266

stem: rising

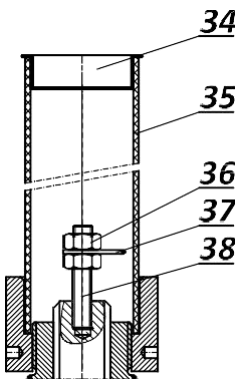
operation: hand wheel, electric actuator, request: gearbox, stem extension, hydraulic or pneumatic actuators

special design:

- Position indication
- By-pass

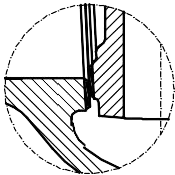


nominal diameter DN	operating pressure EN 12266 PN bar	flanges PN bar
40 – 600	40	40
40 – 1000	25	25
40 – 1000	16	16
40 – 1000	10	10

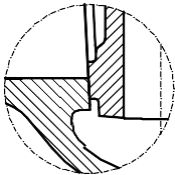


position
indication

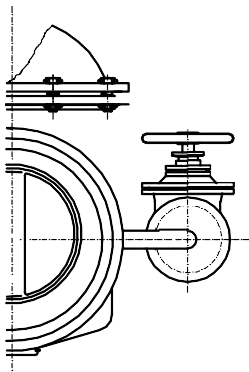
seal



X15CrNiMn 18-8 / X15CrNiMn 18-8
CC480K / CC480K



EN-GJS-400-15 /
EN-GJS-400-15

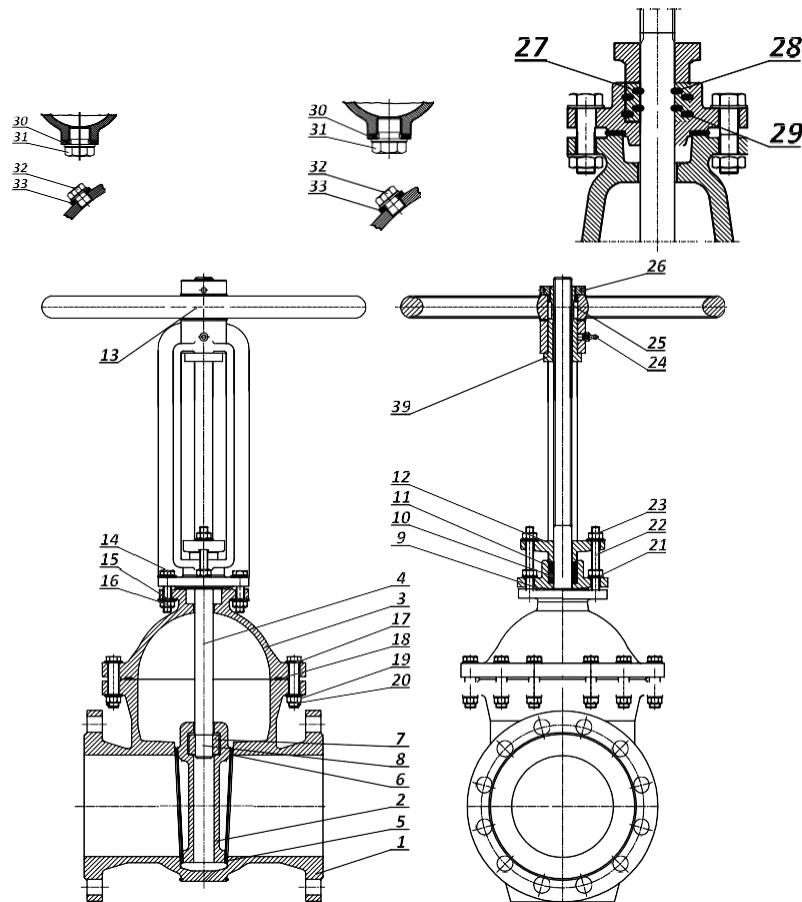


by-pass

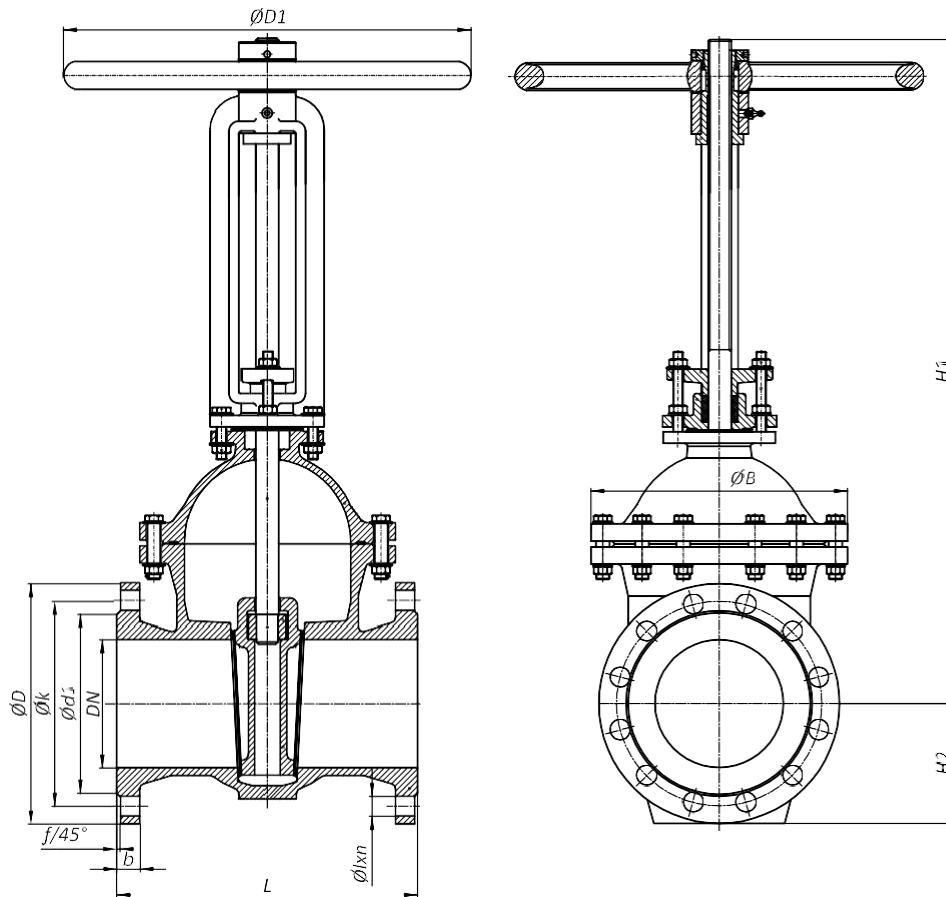
Parts list

Item	part	material	Item	part	material
1	body	EN-GJS-400-15	21	washer	galv.
2	wedge	EN-GJS-400-15	22	rod	A2
3	bonnet	EN-GJS-400-15	23	nut	8 galv.
4	spindle	X20Cr13	24	lubricating nipple	Ms
5	body seat ring	CC480K	25	key	C45E
6	wedge seat ring	CC480K	26	nut	CC483K
7	spindle nut	CC483K	27	sealing bush	CC493K
8	plug	X17CrNi16-2	28	O-ring	EPDM
9	gasket	It / EPDM	29	O-ring	EPDM
10	gland packing	PTFE	30	gasket	Cu
11	housing	EN-GJS-400-15	31	drain plug	A4
12	stuffing box	EN-GJS-400-15	32	gasket	Cu
13	hand wheel	EN-GJS-400-15	33	air plug	A4
14	screw	8.8 galv.	34	bonnet	PE
15	washer	galv.	35	protection hood	polycarbonate
16	nut	8 galv.	36	nut	8 galv.
17	screw	8.8 galv.	37	position indication	8.8 galv.
18	O-ring	EPDM	38	rod	A2
19	washer	galv.	39	spindle nut	CC483K
20	nut	8 galv.			

Standard materials are given in the table. Other materials - on request.



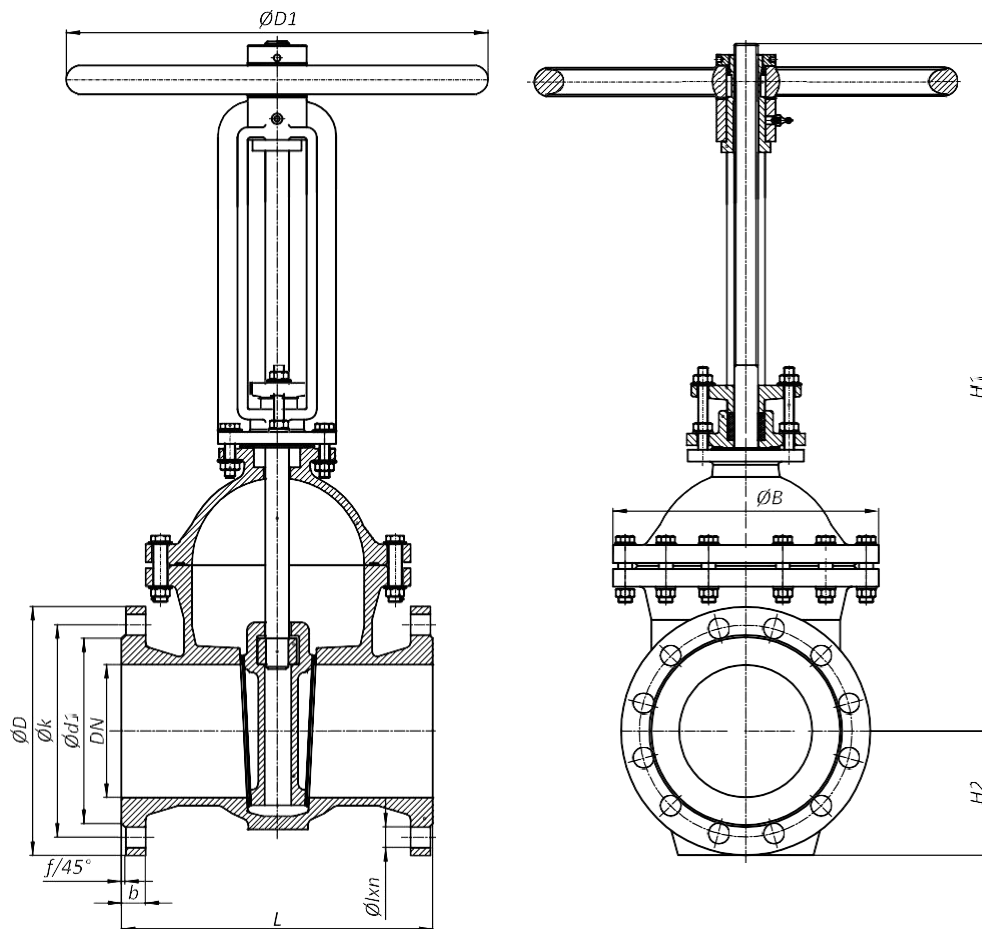
dimensions – PN10/16



DN	L	H ₁		PN10	PN16	B	PN 10						PN 16						f	D ₁	turns / lift	m
		closed	opened	H ₂	D		k	d ₁	l	n	b	D	k	d ₁	l	n	b	kg				
40	240	420	480	80	80	160	150	110	84	19	4	19	150	110	84	19	4	19	3	200	11	23
50	250	440	510	87,5	87,5	180	165	125	99	19	4	19	165	125	99	19	4	19	3	225	13	30
65	270	490	580	97,5	97,5	215	185	145	118	19	4/8	19	185	145	118	19	4/8	19	3	280	18	45
80	280	510	610	105	105	235	200	160	132	19	8	19	200	160	132	19	8	19	3	280	21	50
100	330	600	720	115	115	280	220	180	156	19	8	19	220	180	156	19	8	19	3	320	25	72
125	360	705	850	130	130	315	250	210	184	19	8	19	250	210	184	19	8	19	3	360	24	111
150	390	775	950	147,5	147,5	340	285	240	211	23	8	19	285	240	211	23	8	19	3	360	28	125
200	460	970	1200	180	180	420	340	295	266	23	8	20	340	295	266	23	12	20	3	400	37	220
250	530	1165	1440	207,5	212,5	500	395	350	319	23	12	22	405	355	319	28	12	22	3	500	39	270
300	630	1250	1600	232	240	580	445	400	370	23	12	24,5	460	410	370	28	12	24,5	4	640	46	430
350	690	1390	1780	262,5	270	620	505	460	429	23	16	24,5	520	470	429	28	16	26,5	4	640	54	530
400	750	1630	2070	292,5	300	690	565	515	480	28	16	24,5	580	525	480	31	16	28	4	720	54	730
500	880	1900	2430	345	367,5	840	670	620	582	28	20	26,5	715	650	609	34	20	31,5	4	800	59	1250
600	1000	2200	2850	400	430	980	780	725	682	31	20	30	840	770	720	37	20	36	5	800	72	1830
700	1130	2500	3250	457,5	465	1060	895	840	794	31	24	32,5	910	840	794	37	24	39,5	5	800	75	2420
800	1250	2900	3750	517,5	522,5	1200	1015	950	901	34	24	35	1025	950	901	41	24	43	5	900	86	3400
1000	1500	3420	4450	625	637,5	1460	1230	1160	1112	37	28	40	1255	1170	1112	44	28	50	5	900	105	5280

Other nominal diameters on request.

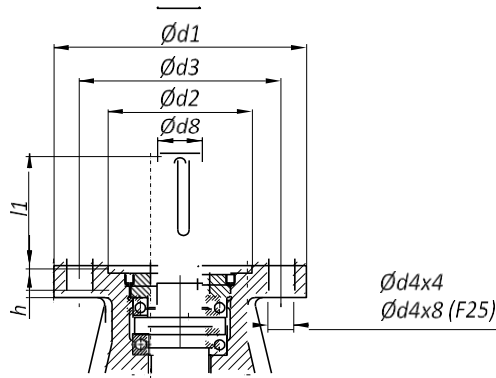
dimensions – PN25/40



DN	L	H ₁		PN25	PN40	B	PN 25						PN 40						f	D ₁	turns / lift	m
		closed	opened	H ₂			D	k	d ₁	l	n	b	D	k	d ₁	l	n	b				kg
40	240	420	480	80	80	160	150	110	84	19	4	19	150	110	84	19	4	19	3	200	11	23
50	250	440	510	87,5	87,5	180	165	125	99	19	4	19	165	125	99	19	4	19	3	225	13	30
65	270	490	580	97,5	97,5	215	185	145	118	19	8	19	185	145	118	19	8	19	3	280	18	45
80	280	510	610	105	105	235	200	160	132	19	8	19	200	160	132	19	8	19	3	280	21	50
100	330	600	720	122,5	122,5	280	235	190	156	23	8	19	235	190	156	23	8	19	3	320	25	72
125	360	705	850	140	140	315	270	220	184	28	8	19	270	220	184	28	8	23,5	3	360	24	111
150	390	775	950	155	155	340	300	250	211	28	8	20	300	250	211	28	8	26	3	360	28	140
200	460	970	1200	190	197,5	420	360	310	274	28	12	22	375	320	284	31	12	30	3	400	37	220
250	530	1165	1440	222,5	235	500	425	370	330	31	12	24,5	450	385	345	34	12	34,5	3	500	39	270
300	630	1250	1600	252,5	267,5	580	485	430	389	31	16	27,5	515	450	409	34	16	39,5	4	640	46	430
350	690	1390	1780	287,5	300	620	555	490	448	34	16	30	580	510	465	37	16	44	4	640	54	530
400	750	1630	2070	320	340	690	620	550	503	37	16	32	660	585	535	41	16	48	4	720	54	730
500	880	1900	2430	375	387,5	840	730	660	609	37	20	36,5	755	670	615	44	20	52	4	800	59	1250
600	1000	2200	2850	432,5	455	980	845	770	720	41	20	42	890	795	735	50	20	58	5	800	72	1830
700	1130	2500	3250	490	-	1060	960	875	820	44	24	46,5	-	-	-	-	-	-	5	800	75	2420
800	1250	2900	3750	552,5	-	1200	1085	990	928	50	24	51	-	-	-	-	-	-	5	900	86	3400
1000	1500	3420	4450	670	-	1460	1320	1210	1140	57	28	60	-	-	-	-	-	-	5	900	105	5280

Other nominal diameters on request.

actuators connection dimensions

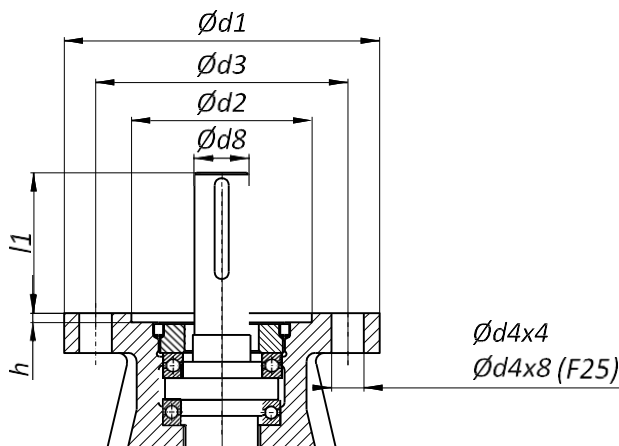


PN 10

DN	axial force	torque	turns / lift	time on	installation flange	actuators connection dimensions							actuator
	kN	Nm		sek	ISO 5210	d ₁	d ₂	d ₃	d ₄	h	d ₈	l ₁	AUMA
80	6,7	18,3	21	14	F 07	90	70	55	10	4	20	35	SA 07.2
100	8,9	31,2	24	17	F 07	90	70	55	10	4	20	35	SA 07.6
125	10,8	37,6	30	20	F 07	90	70	55	10	4	20	35	SA 07.6
150	12,7	44	36	40	F 07	90	70	55	10	4	20	35	SA 07.6
200	17,5	67	38	54	F 10	125	102	70	12	4	20	45	SA 10.2
250	23,5	99	44	78	F 10	125	102	70	12	4	20	45	SA 10.2
300	30,8	128	56	90	F 14	175	140	100	18	5	30	65	SA 14.2
350	39,7	188	55	90	F 14	175	140	100	18	5	30	65	SA 14.2
400	49,8	255	62	126	F 14	175	140	100	18	5	30	65	SA 14.6
500	74,2	415	68	138	F 16	210	165	130	22	6	40	80	SA 16.2
600	103,8	690	82	168	F 16	210	165	130	22	6	40	80	SA 16.2
700	107,2	900	82	180	F 16	210	165	130	22	6	40	80	SA 16.2
800	114,3	1200	94	198	F 16	210	165	130	22	6	40	80	SA 16.2
1000	173,4	2000	105	240	F 16	210	165	130	22	6	40	80	R1:4+SA 16.2

PN 16

DN	axial force	torque	turns / lift	time on	installation flange	actuators connection dimensions							actuator
	kN	Nm		sek	ISO 5210	d ₁	d ₂	d ₃	d ₄	h	d ₈	l ₁	AUMA
80	9,5	30	20	17	F 07	90	70	55	10	4	16	35	SA 07.6
100	11,1	38	23	20	F 07	90	70	55	10	4	16	35	SA 07.6
125	13,6	49	24	25	F 07	90	70	55	10	4	16	35	SA 07.6
150	16,6	60	28	30	F 10	125	102	70	12	4	20	45	SA 10.2
200	24,3	100	37	60	F 10	125	102	70	12	4	20	45	SA 10.2
250	34,2	158	39	66	F 14	175	140	100	18	5	30	65	SA 14.2
300	46,3	231	46	96	F 14	175	140	100	18	5	30	65	SA 14.2
350	60,5	303	54	114	F 14	175	140	100	18	5	30	65	SA 14.6
400	77,1	443	54	114	F 14	175	140	100	18	5	30	65	SA 14.6
500	121,1	772	59	120	F 14	175	140	100	18	5	30	65	R1:4+SA 14.6
600	169,4	1144	72	150	F 16	210	165	130	22	6	40	80	R1:4+SA 16.2
700	226,6	1671	75	170	F 16	210	165	130	22	6	40	80	R1:4+SA 16.2
800	292,6	2267	86	180	F 16	210	165	130	22	6	40	80	R1:6+SA 16.2
1000	450,9	3889	105	240	F 16	210	165	130	22	6	40	80	R1:6+SA 16.2



PN 25

DN	axial force	torque	turns / lift	installation flange	actuators connection dimensions							actuator
	kN	Nm		ISO 5210	d ₁	d ₂	d ₃	d ₄	h	d ₈	l ₁	
80	11,1	35	20	F 07	90	70	55	10	4	16	35	SA 07.6
100	13,5	46	23	F 07	90	70	55	10	4	16	35	SA 07.6
125	17,4	63	24	F 10	125	102	70	12	4	20	45	SA 10.2
150	22,1	80	28	F 10	125	102	70	12	4	20	45	SA 10.2
200	34,2	141	37	F 14	175	140	100	18	5	30	65	SA 14.2
250	49,6	230	39	F 14	175	140	100	18	5	30	65	SA 14.2
300	68,5	343	46	F 14	175	140	100	18	5	30	65	SA 14.6
350	90,9	454	54	F 14	175	140	100	18	5	30	65	SA 14.6
400	116,6	671	432	F 10	125	102	70	12	4	20	45	R1:8+SA 10.2
500	182,9	1166	472	F 14	175	140	100	18	5	30	65	R1:8+SA 14.2
600	258,5	1745	576	F 14	175	140	100	18	5	30	65	R1:8+SA 14.6
700	347,8	2565	600	F 14	175	140	100	18	5	30	65	R1:8+SA 14.6
800	450,9	3495	1376	F 14	175	140	100	18	5	30	65	R1:16+SA 14.6
1000	698,3	6023	1680	F 14	175	140	100	18	5	30	65	R1:16+SA 14.6

PN 40

DN	axial force	torque	turns / lift	installation flange	actuators connection dimensions							actuator
	kN	Nm		ISO 5210	d ₁	d ₂	d ₃	d ₄	h	d ₈	l ₁	
80	13,7	47	20	F 07	90	70	55	10	4	16	35	SA 07.6
100	17,7	66	23	F 10	125	102	70	12	4	20	45	SA 10.2
125	23,8	95	24	F 10	125	102	70	12	4	20	45	SA 10.2
150	31,4	125	28	F 14	175	140	100	18	5	30	65	SA 14.2
200	50,7	229	37	F 14	175	140	100	18	5	30	65	SA 14.2
250	75,4	384	39	F 14	175	140	100	18	5	30	65	SA 14.6
300	105,6	581	368	F 10	125	102	70	12	4	20	45	R1:8+SA 10.2
350	141,4	777	432	F 10	125	102	70	12	4	20	45	R1:8+SA 10.2
400	182,6	1155	432	F 14	175	140	100	18	5	30	65	R1:8+SA 14.2
500	286	1426	472	F 14	175	140	100	18	5	30	65	R1:8+SA 14.2
600	407	2100	576	F 14	175	140	100	18	5	30	65	R1:8+SA 14.6

gate valve series RGA,
type AV04-393

application:
Gate valve for liquids and gases flow blockage

nominal diameter	DN 15 – 600, 800 – 1200
nominal pressure	PN 10/16
operating temperature	-20 °C up to +200 °C

connection: flanged according to EN 1092 – 1,
welded ends according to EN 12627,
on request– flanges GOST etc.

leakage class: A, according to EN 12266

stem: rising

seal: PTFE / graphite + stainless steel

shaft seal type: PTFE

handling: hand wheel, electric actuator, on request: stem
extension, hydraulic actuator, pneumatic actuator.

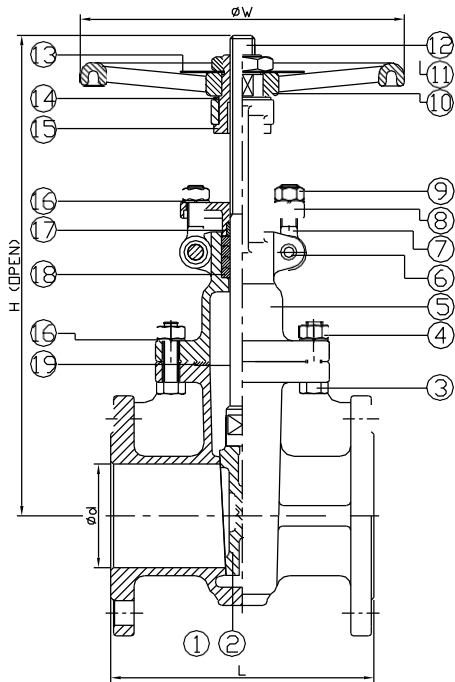


nominal diameter DN	operating pressure EN 12266 PN bar	flanges PN bar
15 – 600	10	10
800 – 1200	16	16

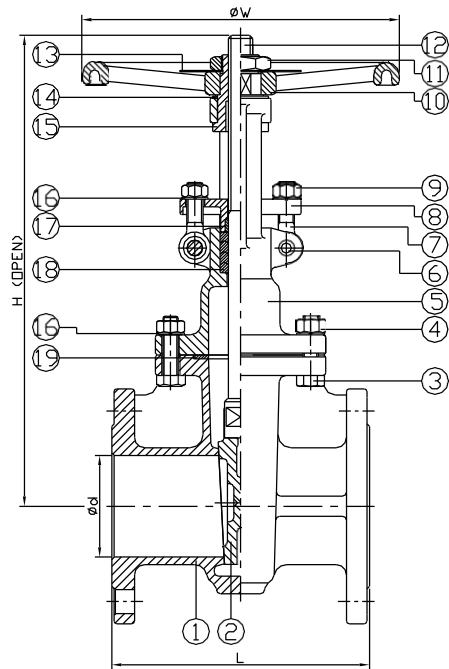
Parts list

Item	part	material	
1	Body	stainless steel (A351- CF8M) stainless steel (1.4408)	stainless steel (A351- CF8) stainless steel (1.4308)
2	Disc		
3	Bonnet bolt	stainless steel (304)	
4	Bonnet nut		
5	Bonnet	stainless steel (A351- CF8M) stainless steel (1.4408)	stainless steel (A351- CF8) (1.4308)
6	Hinge pin	stainless steel (304)	
7	Eye bolt		
8	Gland	stainless steel (A351- CF8) stainless steel (1.4308)	
9	Nut	stainless steel (304)	
10	Hand wheel	FCD	
11	Nut	Bronze	
12	Stem	stainless steel (316)	stainless steel (304)
13	Nameplate	stainless steel (304)	
14	Spring	Bronze	
15	Yoke sleeve		
16	Spring washer	stainless steel (304)	
17	Gland packing	PTFE	
18	Packing		
19	Seal	PTFE / graphite + stainless steel (304)	

* by DN >125 - stem seal graphite + stainless steel



dimensions

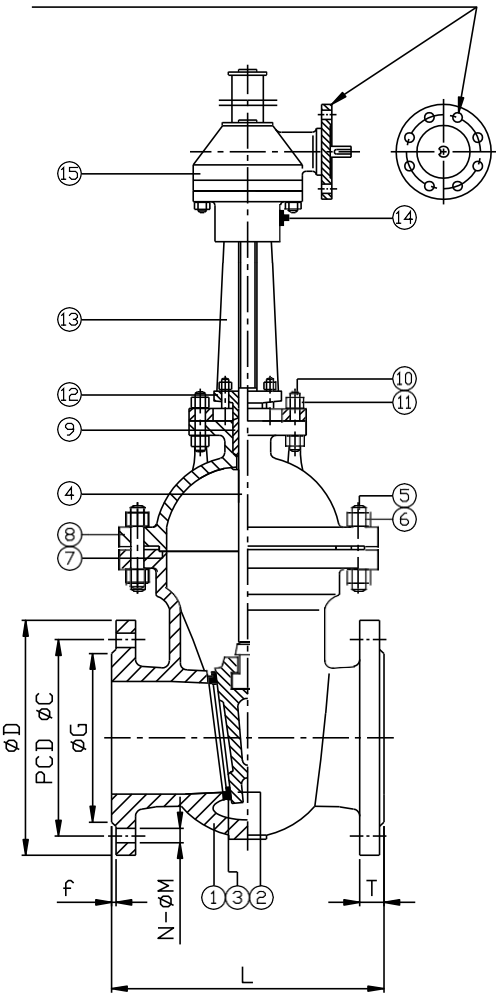


DN	d	L	H	W
		PN16	PN16	PN16
15	15	115	190	120
20	20	120	195	120
25	25	125	234	120
32	32	130	297	200
40	40	140	300	200
50	50	150	330	200
65	65	170	393	200
80	80	180	470	250
100	100	190	545	250
125	125	200	640	300
150	150	210	740	300
200	200	230	910	350
250	250	250	1097	400
300	300	270	1285	400

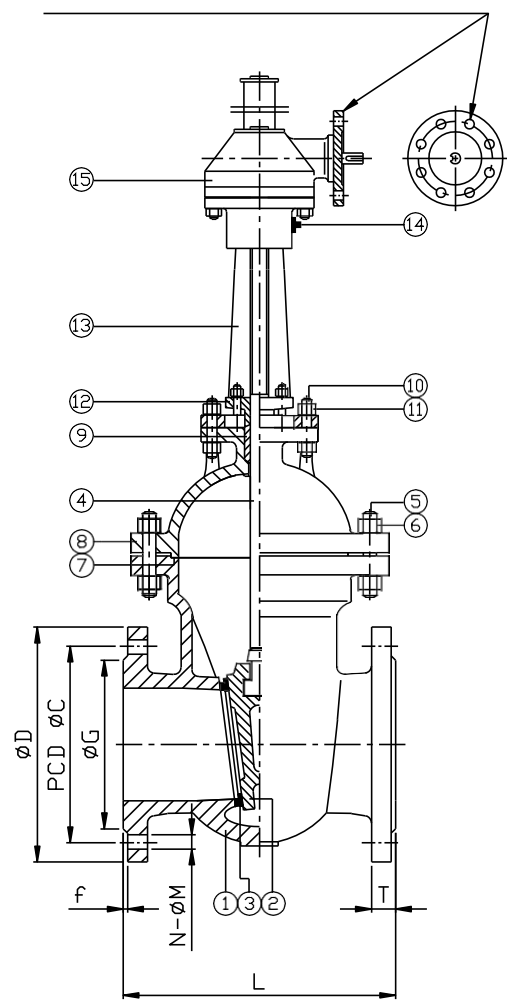
Other nominal diameters on request.

Parts list

Item	part	material
1	Body	steel (A216-WCB)
2	Wedge	steel (A216-WCB+13Cr)
3	Seat	WELDED 13Cr
4	Stem	stainless steel (A276-420)
5	Rod	B7
6	Nut	2H
7	Gasket	stainless steel 304+Graphite
8	Bonnet	steel (A216-WCB)
9	Packing	Graphite
10	Rod	B7
11	Nut	2H
12	Installation flange	steel (A216-WCB)
13	Yoke	
14	Nipple	Lattin
15	Gearbox	-



dimensions



DN	G	C	D	L	T	F	N	M
800	905	950	1050	720	36	5	24	33
1000	1110	1160	1230	840	38	5	28	38
1200	1330	1380	1455	960	44	5	32	39

Other nominal diameters on request.

Gate valves

Section	series	type	Page
Knife gate valve	SKV series	AV05-441	212-214
Knife gate valve	SKV series	AV05-442	215-219

knife gate valve SKV series,
type AV05-441

application:
For the flow blockage in high-abrasive media

nominal diameter	DN 50 – 1800
nominal pressure	PN 10/16
operating temperature	-40 °C up to +200 °C

connection: wafer

seal: soft (NBR, EPDM, FPM, PTFE)

corrosion coating: epoxy, 150 mic RAL 7037, other coating on request

leakage class: A, according to EN 12266

possible actuator design:

- Hand wheel
- manual gearbox
- pneumatic actuator
- electric actuator



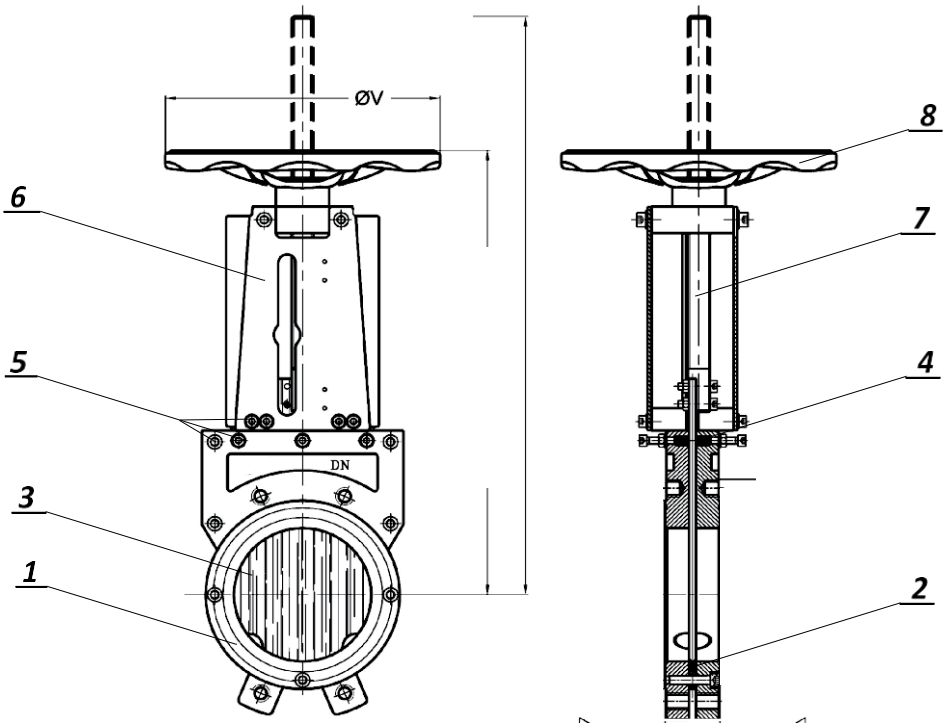
nominal diameter DN	operating pressure EN 12266 PN bar	flanges PN bar
50-200	10	16
250-300	7	16
350-400	6	16
450-600	4	16
700	3	16
800	2	16
900	1,5	16
1000-1800	1	16



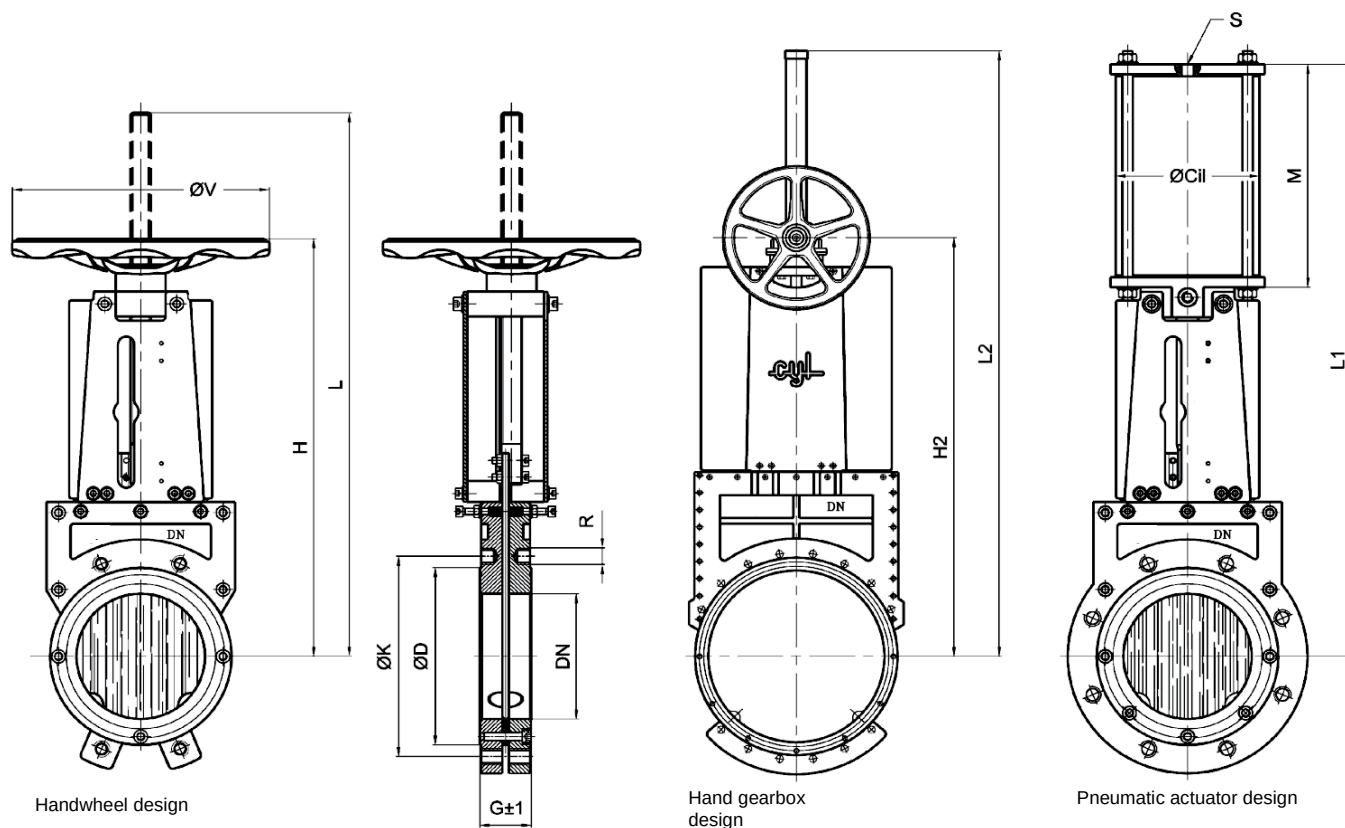
Parts list

Item	part	material
1	Body	Cast iron (GJL250)
2	Seat	NBR
3	Knife	stainless steel (SS 316)
4	Seal	NBR
5	Bolts and nuts	stainless steel (A4)
6	Yoke	steel (1.0580)
7	Stem	stainless steel (SS 316)
8	Handwheel	steel (1.0037)

*Standard materials are given in the table. other materials on request.



dimensions



DN	G±1	L	H	ØV	L2	H2	L1	M	Ø Cil	S	min. force (Nm)	max. force (Nm)
50	43	335	267	175	-	-	374	147	80	1/4 " G	8	16
65	46	376	293	175	-	-	413	160	80	1/4 " G	10	17
80	46	419	334	225	-	-	461	177	100	1/4 " G	12	19
100	52	476	371	225	-	-	518	197	100	1/4 " G	15	22
125	56	541	411	225	-	-	593	232	125	3/8 " G	17	24
150	56	651	500	300	-	-	709	267	160	3/8 " G	25	50
200	60	803	602	300	-	-	871	327	190	1/2 " G	27	53
250	68	954	703	300	-	-	1020	375	190	1/2 " G	50	69
300	78	1137	835	400	-	-	1194	428	190	1/2 " G	63	84
350	78	1273	921	400	1370	980	1351	499	250	1/2 " G	78	102
400	90	1433	1031	400	1530	1090	1511	549	250	1/2 " G	90	110
450	90	1604	1161	500	1667	1164	1664	590	300	1/2 " G	215	259
500	95	1779	1271	500	1829	1276	1838	656	300	1/2 " G	223	320
600	105	2066	1458	500	2116	1463	2125	757	300	1/2 " G	249	388

* Other nominal diameters on request.

knife-gate valve SKV series, type AV05-442

application:
For the flow blockage in high-abrasive media

nominal diameter	DN 50 – 600
nominal pressure	PN 6/10/16
operating temperature	-20 °C up to +250 °C

connection: flanged EN 1092 PN 6, 10 and 16

seal: soft (EPDM, VITON, TEFLON)

leakage class: A, according to EN 12266

specified temperature TS: -20°C up to +250°C
on request -50°C up to 550°C

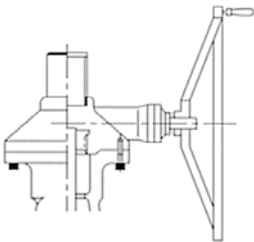
tests (conventionally):

body testing: 11 kg/cm² (water)

seat testing: 2.8 kg/cm² (water)

possible actuator designs:

- Hand wheel
- manual gearbox
- pneumatic actuator
- electric actuator



Gearbox actuator design



nominal diameter DN	operating pressure EN 12266 PN bar	flanges PN bar
50 – 600	16	6
50 – 600	16	10
50 – 600	16	16



Stainless steel body design



Stainless steel body design and
pneumatic actuator

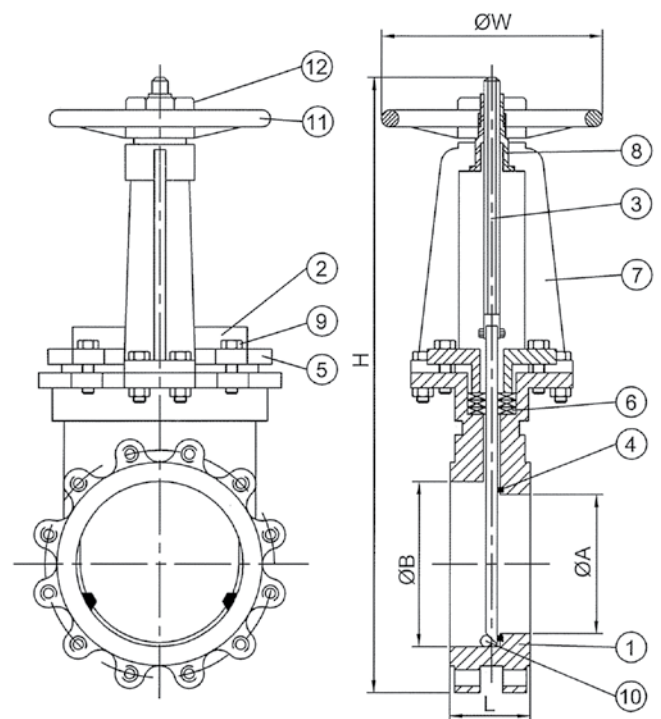
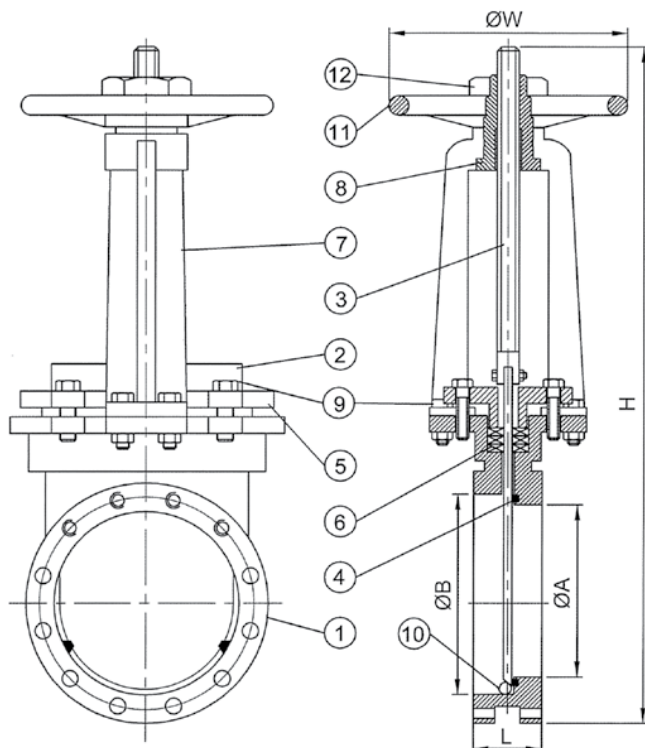


Pneumatic actuator design

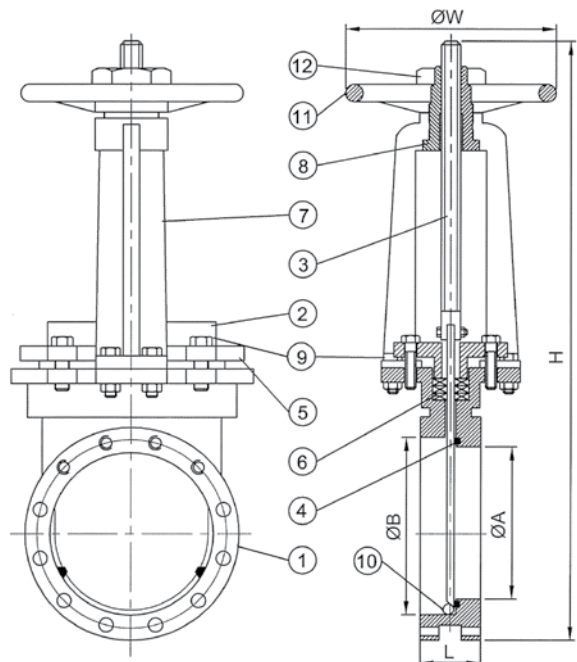
Parts list

Item	part	material
1	Body	Ductile iron
2	Plate	stainless steel (304, 316)
3	Stem	stainless steel (304, 316)
4	Seat	EPDM, Viton, Silicone, Teflon
5	Gland body	Cast iron
6	Gland packing	Teflon
7	Yoke	Ductile iron
8	Yoke bushing	Bronze, malleable cast-iron
9	Bolt, nut	Steel
10	Pawls	Cast iron
11	Hand wheel	Cast iron
12	Nut	Cast iron

Item	part	material
1	Body	stainless steel (CF8, CF8M, CF3M)
2	Plate	stainless steel (304, 316, 316L)
3	Stem	stainless steel (304, 316)
4	Seat	Teflon
5	Gland body	stainless steel (304)
6	Gland packing	Teflon
7	Yoke	stainless steel
8	Yoke bushing	Bronze
9	Bolt, nut	stainless steel (304)
10	Pawls	stainless steel (304)
11	Hand wheel	Cast iron
12	Nut	Cast iron

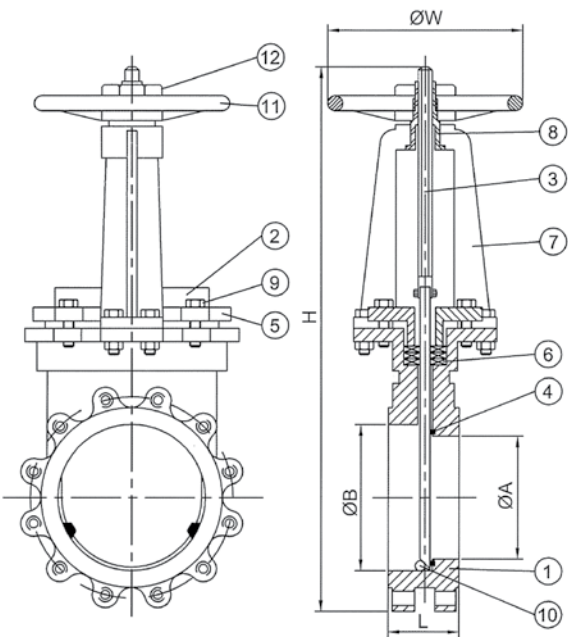


dimensions



DN	L	Ø a	Ø B	W	H
50	55	42	64	190	405
65	55	57	80	190	420
80	55	72	95	190	460
100	55	92	114	220	520
125	60	116	141	290	615
150	60	138	161	290	685
200	70	192	213	350	850
250	75	232	261	350	1000
300	80	280	315	400	1110
350	80	345	376	400	1200
400	90	395	425	500	1410
450	95	445	480	500	1570
500	120	490	520	500	1700
600	120	590	630	500	1970

* Other nominal diameters on request.



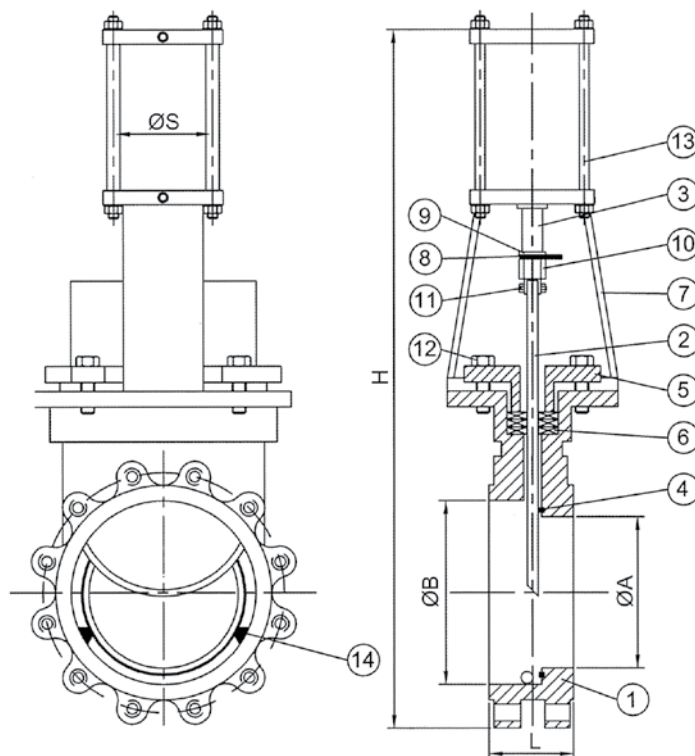
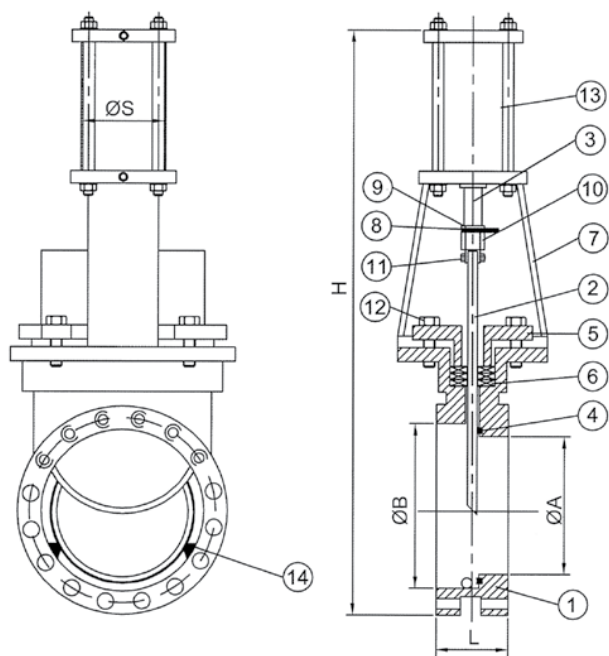
DN	L	Ø a	Ø B	W	H
50	48	42	64	190	420
65	51	57	80	190	430
80	51	72	95	190	460
100	51	95	120	220	520
125	57	125	148	290	600
150	57	150	175	290	660
200	70	195	222	350	810
250	70	250	275	350	990
300	76	300	325	400	1150
350	76	350	375	400	1230
400	89	400	430	500	1420
450	89	435	475	500	1600
500	114	480	515	500	1700
600	114	580	620	500	1970

* Other nominal diameters on request.

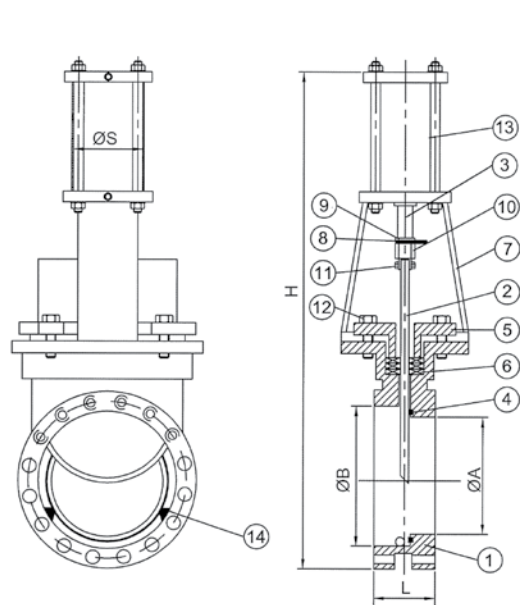
Parts list

Item	part	material
1	Body	Ductile iron
2	Plate	stainless steel (304, 316)
3	Stem	SS41+HCr
4	Seat	Teflon
5	Gland body	Cast iron
6	Gland packing	Teflon
7	Yoke	Ductile iron
8	Pointer	stainless steel (304)
9	Nut	stainless steel (304)
10	Nut	stainless steel (304)
11	Connector	stainless steel (304)
12	Bolt and nut	Steel
13	Actuator	Aluminium
14	Pawls	stainless steel (304)

Item	part	material
1	Body	stainless steel (CF8, CF8M, CF3M)
2	Plate	stainless steel (304, 316, 316L)
3	Stem	SS41+HCr
4	Seat	Teflon
5	Gland body	stainless steel (304)
6	Gland packing	Teflon
7	Yoke	Ductile iron
8	Pointer	stainless steel (304)
9	Nut	stainless steel (304)
10	Nut	stainless steel (304)
11	Connector	stainless steel (304)
12	Bolt and nut	stainless steel (304)
13	Actuator	Aluminium
14	Pawls	stainless steel (304)

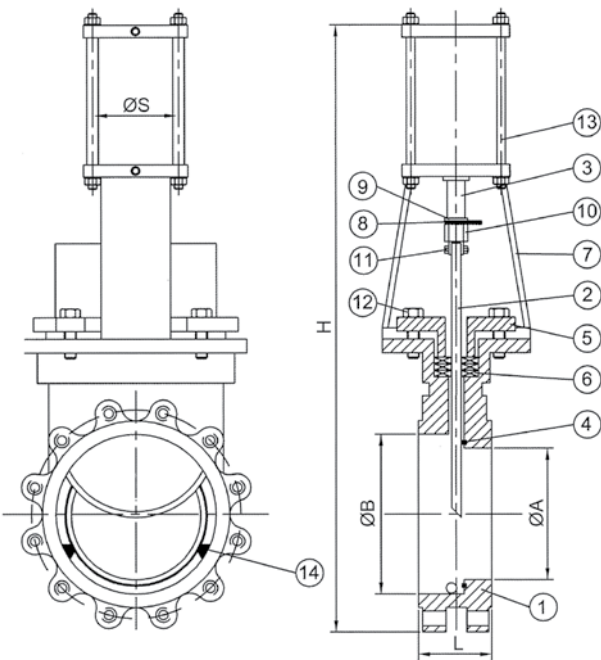


dimensions



DN	L	Ø a	Ø B	Ø S	H
50	55	42	64	63	590
65	55	57	80	63	600
80	55	72	95	80	650
100	55	92	114	80	720
125	60	116	141	125	870
150	60	138	161	125	940
200	70	192	213	150	1190
250	75	232	261	180	1440
300	80	280	315	200	1560
350	80	345	376	250	1840
400	90	395	425	250	2060
450	95	445	480	250	2200
500	120	490	520	300	2460
600	120	590	630	300	2750

* Other nominal diameters on request.



DN	L	Ø a	Ø B	Ø S	H
50	48	42	64	63	520
65	51	57	80	63	570
80	51	72	95	80	680
100	51	95	120	80	755
125	57	125	148	125	900
150	57	150	175	125	960
200	70	195	222	150	1160
250	70	250	275	180	1440
300	76	300	325	200	1605
350	76	350	375	250	1860
400	89	400	430	250	2070
450	89	435	475	250	2200
500	114	480	515	300	2400
600	114	580	620	300	2750

* Other nominal diameters on request.

Globe valves

Section	series	type	Page
Globe valve	SGV series	AV06-481	221-223

flanged end globe valve SGV series, type AV06-481

application:

Globe valve for blockage and regulation of liquids and gases flow

nominal diameter	DN 15 – 300
nominal pressure	PN 16
operating temperature	-20 °C up to +200 °C

connection: flanged **шток:**

выдвижной **seal:** PTFE

leakage class: A, according to EN 12266

shaft seal type: PTFE / graphite + stainless steel

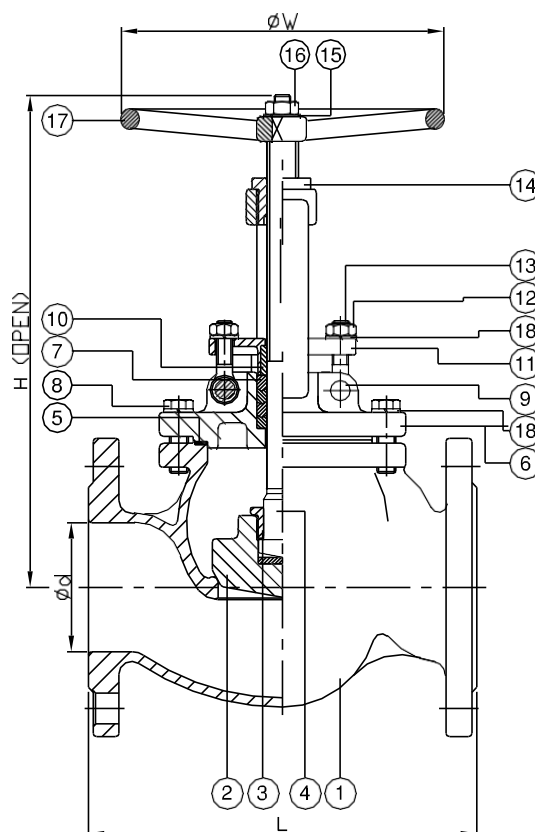
special designs: conical body for flow control



Parts list

Item	part	material	
1	Body	stainless steel (A351-CF8M) stainless steel (1.4408)	stainless steel (A351-CF8) stainless steel (1.4308)
2	Disc		
3	Disc cover		
4	Stem	stainless steel (316)	stainless steel (304)
5	Seal	PTFE / graphite + stainless steel (304)	
6	Bonnet	stainless steel (A351-CF8M) stainless steel (1.4408)	stainless steel (A351-CF8) stainless steel (1.4308)
7	Packing	PTFE	
8	Bonnet bolt	stainless steel (304)	
9	Hinge pin		
10	Sleeve	PTFE	
11	Gland	stainless steel (A351-CF8) stainless steel (1.4308)	
12	Nut	stainless steel (304)	
13	Eyebolt		
14	Yoke sleeve	Bronze	
15	Nameplate	stainless steel (304)	
16	Nut		
17	Hand wheel	FCD 400	
18	Spring washer	stainless steel (304)	

* by DN>200 – stem seal graphite + stainless steel



Strainers

Section	series	type	page
Y-strainer	STR series	AV14-761	225-227
Screwed end Y-strainer		AV14-762	228-230
Flanged end basket strainer	STB series	AV14-763	231-233

flanged end Y-strainer STR series type AV14-761

application:
For working medium cleaning from solids.

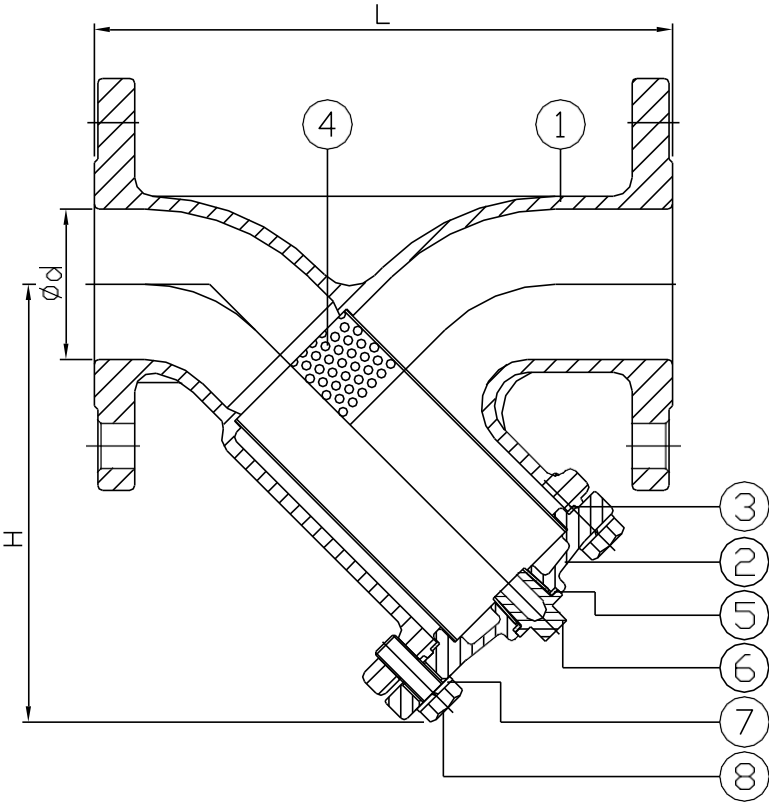
nominal diameter	DN 15 – 300
nominal pressure	PN 50
operating temperature	-20 °C up to +200 °C

connection: flanged

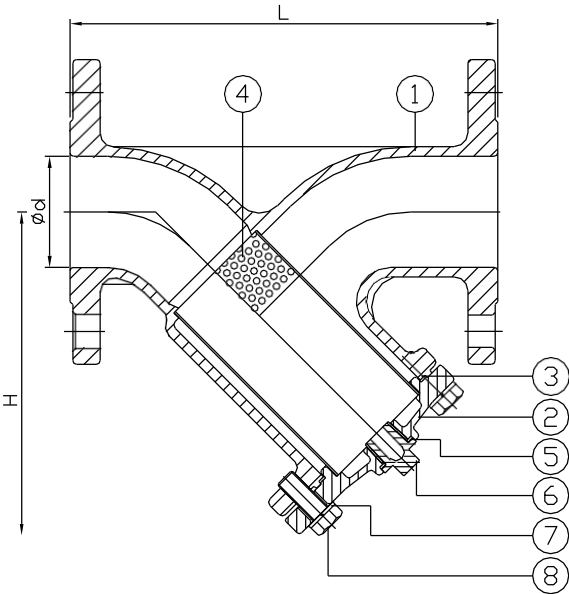


Parts list

Item	part	material		
1	Body	stainless steel (A351-CF8M)	stainless steel (A351-CF8)	steel (A216- WCB)
2	Bonnet			
3	Gasket	PTFE		
4	Screen	stainless steel (316)	stainless steel (304)	
5	Gasket	PTFE		
6	Plug	stainless steel (A351- CF8M)		
7	Spring washer	stainless steel (304)		
8	Bonnet bolt	stainless steel (304)		steel (A193-B7)



dimensions



DN	d	L		H	
		PN16	PN40	PN16	PN40
15	15	130	130	85	85
20	20	150	150	87	87
25	25	160	160	114	114
32	32	180	180	114	114
40	40	200	200	135	135
50	50	230	230	155	155
65	65	290	290	189	189
80	80	310	310	200	200
100	100	350	350	232	232
125	125	400	400	274	274
150	150	480	480	326	326
200	200	600	600	397	397
250	250	730	-	512	-
300	300	850	-	562	-

* Other nominal diameters on request.

screwed end Y-strainer STR series type AV14-762

application:

For working medium cleaning from solids

nominal diameter	DN 8 – 80
nominal pressure	PN 16/40
operating temperature	-20 °C up to +200 °C

connection:

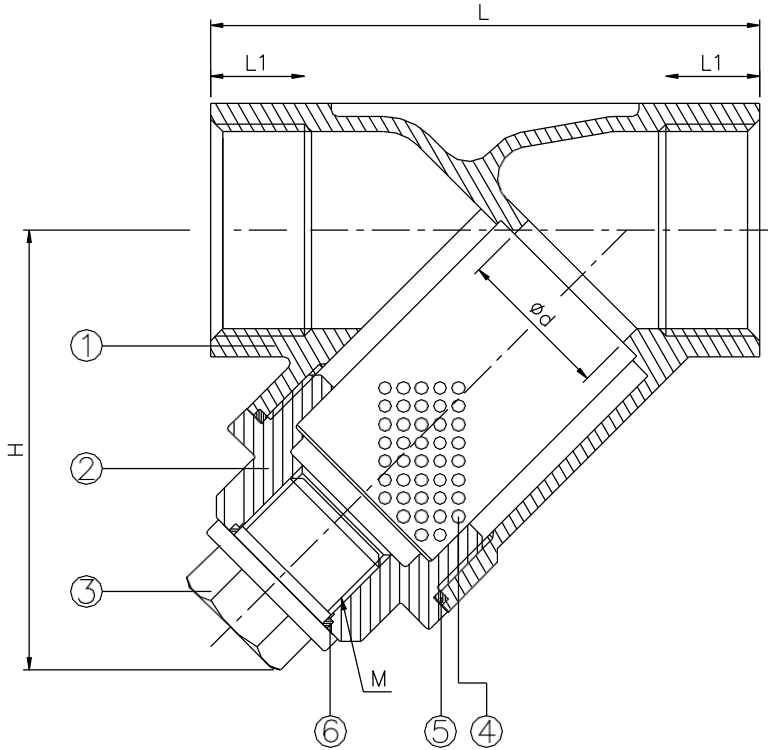
- DIN2999&BS21;
- ISO7/1 & EN10226 – ASME B1.20.1 (NPT)

seal: PTFE

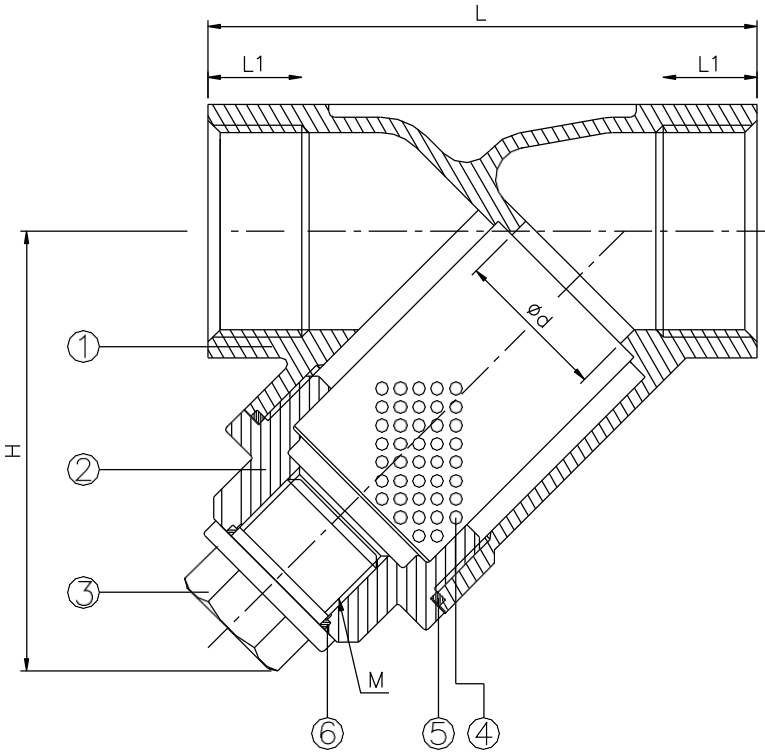


Parts list

Item	part	material
1	Body	stainless steel (A351- CF8M)
2	Cap	
3	Drain plug	
4	Screen	stainless steel (316)
5	Seal	PTFE
6	Gasket	



dimensions



DN	d	L	L1	H	M	maas, kg
8	15	65	13	46.5	1/4"-PF	0.3
10	15	65	13	46.5	1/4"-PF	0.3
15	15	65	13	46.5	1/4"-PF	0.2
20	20	80	15	54	1/4"-PF	0.3
25	25	90	18.5	67	1/2"-PF	0.5
32	32	105	18.5	74	1/2"-PF	0.8
40	40	120	22	81.5	1/2"-PF	1.4
50	50	140	22	95	1/2"-PF	1.6
65	65	180	26	121.3	1/2"-PF	3.7
80	80	200	29	138.3	1/2"-PF	5

flanged end basket strainer STB series type AV14-763

application:
For working medium cleaning from solids

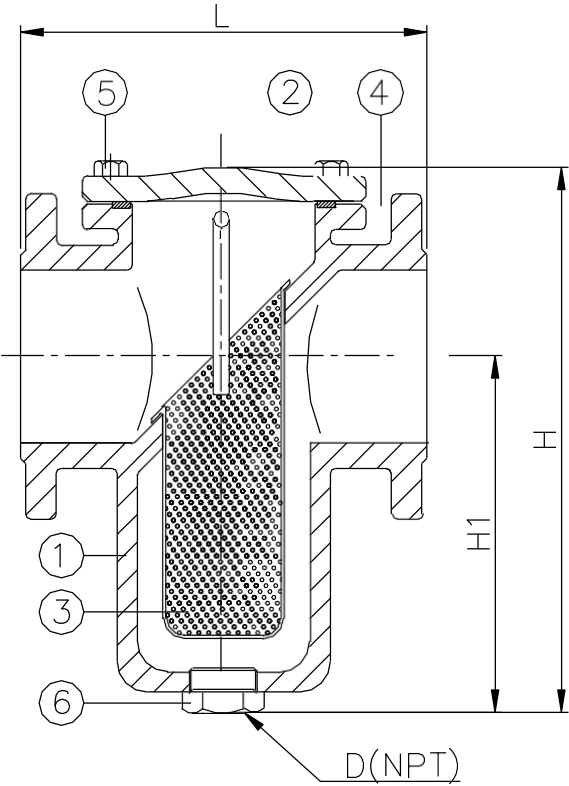
nominal diameter	DN 25 – 300
nominal pressure	PN 16/40
operating temperature	-20 °C up to +200 °C

connection: flanged

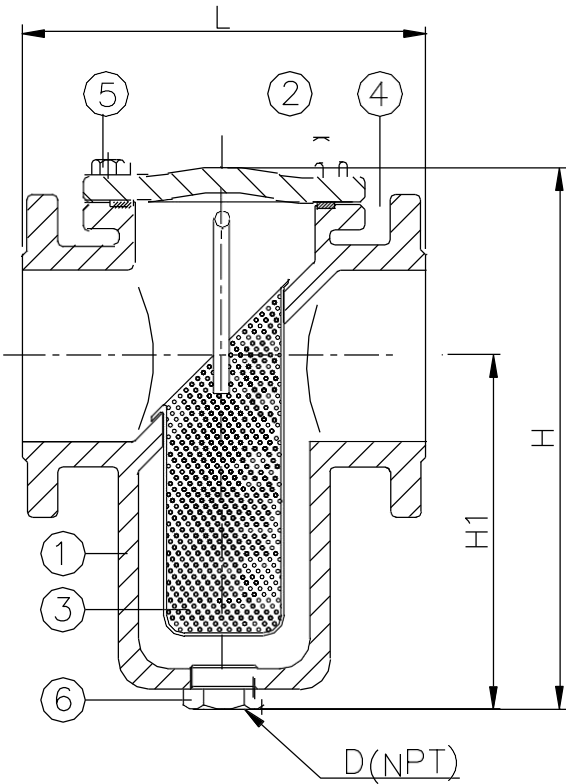


Parts list

Item	part	material		
1	Body	stainless steel (A351- CF8M)	stainless steel (A351- CF8)	steel (A216- WCB)
2	Cap			
3	Screen	stainless steel (304)		
4	Gasket	PTFE		
5	Bolt	stainless steel (A193-B8)		steel (193-B7)
6	Blow off plug	stainless steel (A351- CF80)		steel (A216- WCB)



dimensions



DN	L		H		H1	
	PN16	PN40	PN16	PN40	PN16	PN40
25	152	163.6	174	174	77	77
40	173	177.2	216	222	120	120
50	210	224	216	216	120	120
65	222	227	260	249.2	160	136. 5
80	254	272	306	292	200	171. 5
100	293	307	390	380	254	244
125	336	363	430	410	280	280
150	400	396	410	398	270	270
200	500	507	560	490	340	320
250	508	542	685	542	360	365
300	666	670	760	760	420	420

* Other nominal diameters on request.

Company, customer:	
Manufacture, shop floor:	
Contact person (full name):	
Position:	E-mail:
Tel:	Date, signature:

questionnaire for shutoff valve №

General data	Nominal diameter DN , mm		
	Nominal pressure PN , bar		
	Operating pressure P_o , bar		
	Operating temperature T_o , °C		
Mounting terms	Technological position №	Quantity, pcs.:	
	Brand name and type of replaceable valve:		
	Pipe line:	☐ -Horizontal	☐ -Vertical
	Pipe size, DN x S, mm:		
	Pipe line material:		
	General data of mounting location:	☐ -Outdoors	☐ -Indoors
	Environment temperature:	Min.:	Max.:
Operating data	Medium name, formula:		
	Medium state:	☐ -Liquid	☐ -Gas ☐ -Steam ☐ -Pulp
	Solid particles (size, quantity):		
	Inlet medium pressure: P_i		
	Pressure valve drop: ΔP		
	Medium temperature:		
	Steaming temperature:		
Body	Design:	☐ -Ball valve ☐ -Globe valve ☐ -Gate valve ☐ -Butterfly valve ☐ -Knife valve ☐ -Check valve ☐ -Goggle valve ☐ -	
	Body material:	☐ -Cast iron ☐ -Steel ☐ -Stainless steel ☐ -Lining (☐ -PTFE/ ☐ -PFA) ☐ -	
	Connection:	☐ -Flanged ☐ -Welding ends ☐ -Wafer ☐ -	
	Mounting length, mm		
Valve	Leakage class:	☐ -IV ☐ -V ☐ -VI ☐ - A ☐ - B ☐ -	
	Flow direction	☐ -One side	☐ -Bidirectional ☐ -
	Valve material:		
Actuator	Max. Δ P in closed position for calculation of actuator:		
	Actuator type:		
	Control unit:	☐ -No ☐ -Yes	
	Actuator power:	V:	Hz:
	Manual override:	☐ -No ☐ -Yes	
	Control signal:	☐ -4...20 mA ☐ -discrete ☐ -	
	Ex proof:	☐ -No EEx d ☐ -	
	Analog position sensor:	☐ -No ☐ -4...20 mA ☐ -0...1000 Ohm ☐ -	
	Endpoint sensor	☐ -No ☐ -Opened position ☐ -Closed position	
Accessories	Torque switches:	☐ -No ☐ -Opened position ☐ -Closed position	
	☐ -Counterflanges; Counterflanges material: ☐ -Cable glands		

additional requirements:



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