

PRODUCTS CATALOG

A vertical strip on the left side of the page shows a close-up of industrial piping. Several large, light-grey pipes are arranged horizontally, supported by metal brackets. One pipe has a blue identification band. Below the pipes, there are various valves, including a prominent white ball valve with a handwheel, and other smaller fittings and pipes. The background is a solid dark blue.

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PRODUCTS CATALOG

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PINCH VALVES

MODEL : 204M

NOMINAL DIAMETER	DN50 to DN1200
NOMINAL PRESSURE	PN10 to PN16
PURPOSE	shut-off and control valve

OPERATING ENVIRONMENT TEMPERATURE	from 50°C to -150°C
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OPERATING MEDIA	high-abrasive media, chemically aggressive media, acids, water with abrasive particles, salt solutions, carbon, sand, polar solvents, silicone oils, media containing mazut, oil, gasoline.
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BODY TYPE	closed
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FEATURES OF THE MODEL

- » Detachable body
- » Quick and easy replacement of the hose insert
- » Tensioning strips for stretching the hose insert
- » Dual-sided clamping of the hose

MATERIALS OF THE MAIN COMPONENTS

Name	Material	Operating media temperature	Notes
Hose	EPDM	-50°C ... +130°C	Abrasive media, dilute acidic and alkaline solutions, saline solutions, water with contaminants, particulate matter, sand
	NR	-40°C ... +80°C	High-abrasion media, water with admixtures, sand, coal
	NBR	-40°C ... +120°C	Abrasive media, water with impurities, substances containing mazut, oil, gasoline
	CSM	-40°C ... +130°C	Abrasive media, chemically aggressive media, water with impurities
	IIR	-50°C ... +130°C	Abrasive media, water with impurities, polar solvents, silicone oils
	NR + Linatex	-40°C ... +85°C	Highly abrasive media, weak acid and alkali solutions, salt solutions, water with impurities, sand, coal
	SBR	-40°C ... +100°C	Abrasive media, water with impurities, glycols, acetone
	FKM	-20°C ... +150°C	Abrasive media, chemically aggressive media, water with impurities
Body	A216 WCB	-30°C ... +150°C	-
	GGG40	-20°C ... +130°C	
	AISI304	-60°C ... +150°C	
	AISI316		
	Aluminium	-20°C ... +150°C	

It is possible to manufacture from other materials according to the technical requirements of the client.

PINCH VALVES

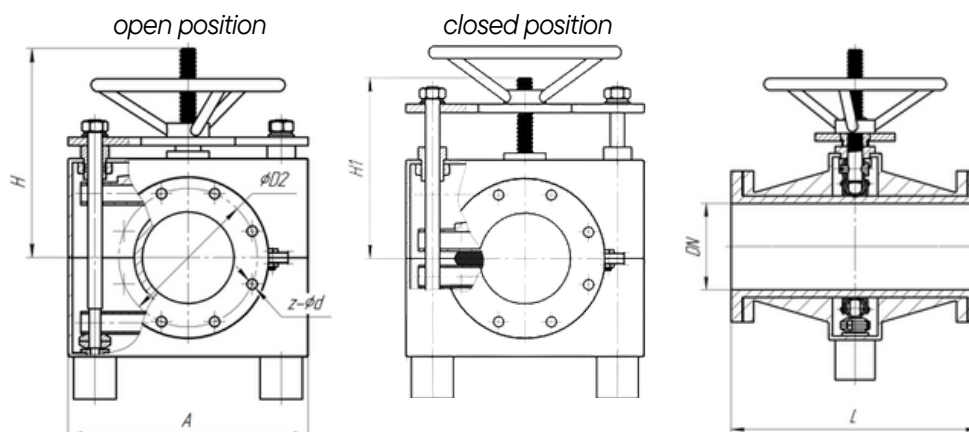
Nominal diameter: **DN50 ... DN1200**Nominal pressure: **PN10 ... PN16**

Table of connection sizes

DN, mm	PN, MPa (Bar)	Dimensions, mm						Torque, N*m	Rotations per stroke	Rod diameter, thread type, and pitch	Weight (without drive), kg
		L	W	D1	H	H1	n - Ød				
50	1,0 (10)	165	200	125	259	284	4 - Ø18	100	10	Tr30*5	-
65	1,0 (10)	165	260	145	288	321	4 - Ø18	120	13	Tr30*5	-
80	1,0 (10)	200	308	160	320	361	8 - Ø18	150	16	Tr30*5	-
100	1,0 (10)	260	350	180	355	405	8 - Ø18	180	17	Tr36*6	28
125	1,0 (10)	310	390	210	400	465	8 - Ø18	200	21	Tr36*6	37
150	1,0 (10)	375	435	240	449	525	8 - Ø22	250	25	Tr36*6	46
200	1,0 (10)	500	510	295	513	615	8 - Ø22	300	34	Tr36*6	84
250	1,0 (10)	625	610	350	622	747	12 - Ø22	350	42	Tr40*6	168
300	1,0 (10)	750	700	400	695	845	12 - Ø22	400	50	Tr40*6	201
350	1,0 (10)	375	790	460	790	965	16 - Ø22	500	59	Tr40*6	213
400	1,0 (10)	1000	880	515	910	1110	16 - Ø22	600	67	Tr45*6	286
450	1,0 (10)	1125	945	565	1010	1235	20 - Ø26	750	75	Tr45*6	-
500	1,0 (10)	1250	1050	620	1070	1320	20 - Ø26	900	84	Tr45*6	-

Upon request, tabulated values are provided for DN600 to DN1200.

DN, mm	PN, MPa (Bar)	Dimensions, mm							Torque, N*m	Rotations per stroke	Rod diameter, thread type, and pitch	Weight (without drive), kg
		L	A	D1	D2	H	H1	Z - Ød				
50	1,6 (16)	195	200	45	125	259	284	4 - Ø18	120	10	Tr30*5	-
65	1,6 (16)	230	260	60	145	288	321	4 - Ø18	150	13	Tr30*5	-
80	1,6 (16)	280	308	76	160	320	361	8 - Ø18	180	16	Tr30*5	-
100	1,6 (16)	360	350	95	180	355	405	8 - Ø18	220	17	Tr36*6	28
125	1,6 (16)	445	390	120	210	400	465	8 - Ø18	250	21	Tr36*6	37
150	1,6 (16)	500	435	145	240	449	525	8 - Ø22	300	25	Tr36*6	46
200	1,6 (16)	560	510	195	295	513	615	12 - Ø22	350	34	Tr40*6	84
250	1,6 (16)	630	610	245	355	622	747	12 - Ø26	450	42	Tr40*6	168
300	1,6 (16)	730	700	295	410	695	845	12 - Ø26	500	50	Tr40*6	201
350	1,6 (16)	890	790	345	470	790	965	16 - Ø26	600	59	Tr45*6	213
400	1,6 (16)	1090	880	395	525	910	1110	16 - Ø30	750	67	Tr45*6	286
450	1,6 (16)	1120	945	445	585	1010	1235	20 - Ø30	900	57	Tr50*8	-
500	1,6 (16)	1240	1050	495	650	1070	1320	20 - Ø33	1200	63	Tr50*8	-

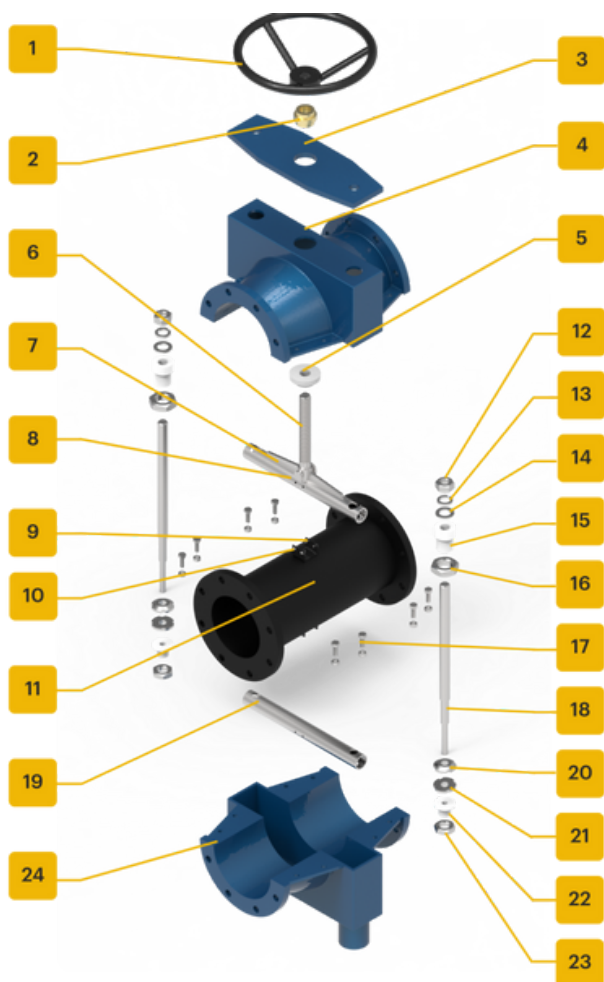
Upon request, tabulated values are provided for DN600...DN1200

* - Torque with safety factor

Valves can be supplied with an electric actuator or with a platform for an electric drive. In such a case, the attachment platform for the electric drive will be made according to the ISO 5211 standard

PINCH VALVES

MODEL : 204M



Nº Name

- 1 Handwheel
- 2 Bush
- 3 Support plate
- 4 Upper body part
- 5 Shaft seal
- 6 Shaft
- 7 Upper clamping plate
- 8 Wedge
- 9 Drilling rails
- 10 Clamping screw
- 11 Hose insert
- 12 Nut
- 13 Spring washer
- 14 Flat washer
- 15 Seal bushing
- 16 Support bushing nut
- 17 Bolts and nuts
- 18 Guides
- 19 Support plate
- 20 Lock nut
- 21 Lock washer
- 22 Centering bushing
- 23 Nut
- 24 Lower body part

PINCH VALVES

MODEL : 205M

NOMINAL DIAMETER	DN50 to DN1200
NOMINAL PRESSURE	PN10 to PN16
PRZEZNACZENIE	shut-off and control valve

OPERATING ENVIRONMENT TEMPERATURE	from 50°C to -150°C
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OPERATING MEDIA	highly abrasive media, chemically aggressive media, bases, acids, water with abrasive particles, salt solutions, carbon, sand, polar solvent solutions, silicone oils, media containing mazut, oil, gasoline.
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BODY TYPE:	closed (hermetic)
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FEATURES OF THE MODEL

- » Detachable body
- » Tensioning strips for stretching the hose insert
- » Dual-sided clamping of the hose
- » Quick and easy replacement of the hose insert
- » Hermetic Body

MATERIALS OF THE MAIN COMPONENTS

Name	Material	Operating media temperature	Notes
Hose	EPDM	-50°C ... +130°C	Abrasive media, dilute acidic and alkaline solutions, saline solutions, water with contaminants, particulate matter, sand
	NR	-40°C ... +80°C	High-abrasion media, water with admixtures, sand, coal
	NBR	-40°C ... +120°C	Abrasive media, water with impurities, substances containing mazut, oil, gasoline
	CSM	-40°C ... +130°C	Abrasive media, chemically aggressive media, water with impurities
	IIR	-50°C ... +130°C	Abrasive media, water with impurities, polar solvents, silicone oils
	NR + Linatex	-40°C ... +85°C	Highly abrasive media, weak acid and alkali solutions, salt solutions, water with impurities, sand, coal
	SBR	-40°C ... +100°C	Abrasive media, water with impurities, glycols, acetone
	FKM	-20°C ... +150°C	Abrasive media, chemically aggressive media, water with impurities
Body	A216 WCB	-30°C ... +150°C	-
	GGG40	-20°C ... +130°C	
	AISI304	-60°C ... +150°C	
	AISI316		

It is possible to manufacture from other materials according to the technical requirements of the client.

PINCH VALVES

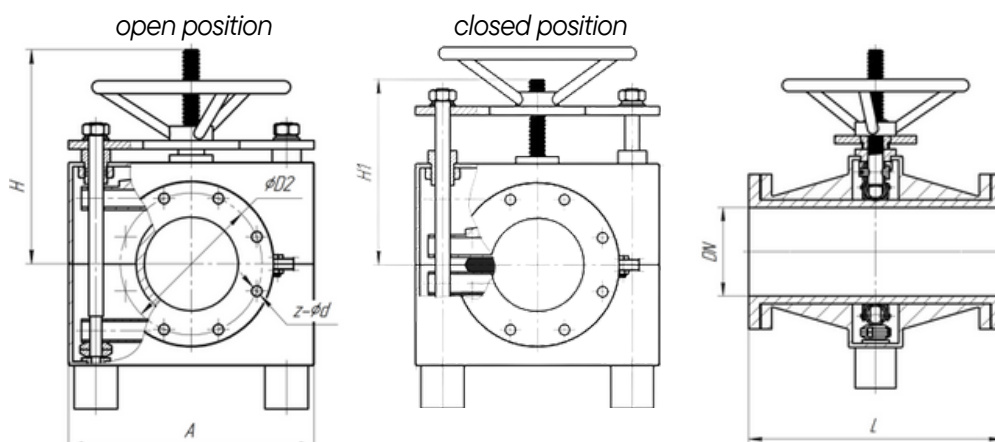
Nominal diameter: **DN50 ... DN1200**Nominal pressure: **PN10 ... PN16**

Table of connection sizes

DN, mm	PN, MPa (Bar)	Dimensions, mm						Torque, N*m	Rotations per stroke	Rod diameter, thread type, and pitch	Weight (without drive), kg
		L	W	D1	H	H1	n - Ød				
50	1,0 (10)	165	200	125	259	284	4 - Ø18	100	10	Tr30*5	-
65	1,0 (10)	165	260	145	288	321	4 - Ø18	120	13	Tr30*5	-
80	1,0 (10)	200	308	160	320	361	8 - Ø18	150	16	Tr30*5	-
100	1,0 (10)	260	350	180	355	405	8 - Ø18	180	17	Tr36*6	28
125	1,0 (10)	310	390	210	400	465	8 - Ø18	200	21	Tr36*6	37
150	1,0 (10)	375	435	240	449	525	8 - Ø22	250	25	Tr36*6	46
200	1,0 (10)	500	510	295	513	615	8 - Ø22	300	34	Tr36*6	84
250	1,0 (10)	625	610	350	622	747	12 - Ø22	350	42	Tr40*6	168
300	1,0 (10)	750	700	400	695	845	12 - Ø22	400	50	Tr40*6	201
350	1,0 (10)	375	790	460	790	965	16 - Ø22	500	59	Tr40*6	213
400	1,0 (10)	1000	880	515	910	1110	16 - Ø22	600	67	Tr45*6	286
450	1,0 (10)	1125	945	565	1010	1235	20 - Ø26	750	75	Tr45*6	-
500	1,0 (10)	1250	1050	620	1070	1320	20 - Ø26	900	84	Tr45*6	-

Upon request, tabulated values are provided for DN600 to DN1200.

DN, mm	PN, MPa (Bar)	Dimensions, mm							Torque, N*m	Rotations per stroke	Rod diameter, thread type, and pitch	Weight (without drive), kg
		L	A	D1	D2	H	H1	Z - Ød				
50	1,6 (16)	195	200	45	125	259	284	4 - Ø18	120	10	Tr30*5	-
65	1,6 (16)	230	260	60	145	288	321	4 - Ø18	150	13	Tr30*5	-
80	1,6 (16)	280	308	76	160	320	361	8 - Ø18	180	16	Tr30*5	-
100	1,6 (16)	360	350	95	180	355	405	8 - Ø18	220	17	Tr36*6	28
125	1,6 (16)	445	390	120	210	400	465	8 - Ø18	250	21	Tr36*6	37
150	1,6 (16)	500	435	145	240	449	525	8 - Ø22	300	25	Tr36*6	46
200	1,6 (16)	560	510	195	295	513	615	12 - Ø22	350	34	Tr40*6	84
250	1,6 (16)	630	610	245	355	622	747	12 - Ø26	450	42	Tr40*6	168
300	1,6 (16)	730	700	295	410	695	845	12 - Ø26	500	50	Tr40*6	201
350	1,6 (16)	890	790	345	470	790	965	16 - Ø26	600	59	Tr45*6	213
400	1,6 (16)	1090	880	395	525	910	1110	16 - Ø30	750	67	Tr45*6	286
450	1,6 (16)	1120	945	445	585	1010	1235	20 - Ø30	900	57	Tr50*8	-
500	1,6 (16)	1240	1050	495	650	1070	1320	20 - Ø33	1200	63	Tr50*8	-

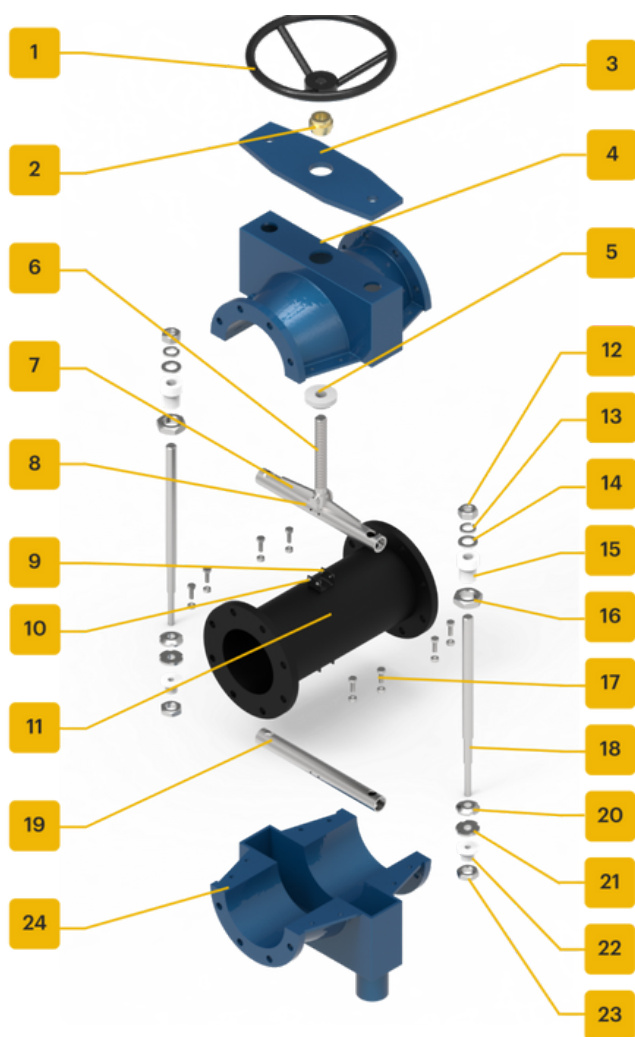
Upon request, tabulated values are provided for DN600 to DN1200.

* - Torque with safety factor

Valves can be supplied with an electric actuator or with a platform for an electric drive. In such a case, the attachment platform for the electric drive will be made according to the ISO 5211 standard

PINCH VALVES

MODEL : 205M



Nº Name

- 1 Handwheel
- 2 Bush
- 3 Support plate
- 4 Upper housing part
- 5 Shaft seal
- 6 Shaft
- 7 Upper clamping plate
- 8 Wedge
- 9 Drilling rails
- 10 Clamping screw
- 11 Hose insert
- 12 Nut
- 13 Spring washer
- 14 Flat washer
- 15 Seal bushing
- 16 Support bushing nut
- 17 Bolts and nuts
- 18 Guides
- 19 Support plate
- 20 Lock nut
- 21 Lock washer
- 22 Centering bushing
- 23 Nut
- 24 Lower body part

PINCH VALVES

MODEL : 206M

NOMINAL DIAMETER	DN50 to DN1200
NOMINAL PRESSURE	PN10 to PN16
PURPOSE	shut-off and control valve
OPERATING ENVIRONMENT TEMPERATURE	from 50°C to -150°C
OPERATING MEDIA	highly abrasive media, chemically aggressive media, bases, acids, water with abrasive particles, salt solutions, carbon, sand, polar solvent solutions, silicone oils, media containing mazut, oil, gasoline.
BODY TYPE:	open



FEATURES OF THE MODEL

- » Detachable body
- » Tensioning strips for stretching the hose insert
- » Dual-sided clamping of the hose
- » Quick and easy replacement of the hose insert
- » Open Body

MATERIALS OF THE MAIN COMPONENTS

Name	Material	Operating media temperature	Notes
Hose	EPDM	-50°C ... +130°C	Abrasive media, dilute acidic and alkaline solutions, saline solutions, water with contaminants particulate matter, sand
	NR	-40°C ... +80°C	High-abrasion media, water with admixtures, sand, coal
	NBR	-40°C ... +120°C	Abrasive media, water with impurities, substances containing mazut, oil, gasoline
	CSM	-40°C ... +130°C	Abrasive media, chemically aggressive media, water with impurities
	IIR	-50°C ... +130°C	Abrasive media, water with impurities, polar solvents, silicone oils
	NR + Linatex	-40°C ... +85°C	Highly abrasive media, weak acid and alkali solutions, salt solutions, water with impurities, sand, coal
	SBR	-40°C ... +100°C	Abrasive media, water with impurities, glycols, acetone
	FKM	-20°C ... +150°C	Abrasive media, chemically aggressive media, water with impurities
Body	A216 WCB	-30°C ... +150°C	-
	GGG40	-20°C ... +130°C	
	AISI304	-60°C ... +150°C	
	AISI316		

Possible to be made from other materials according to the technical requirements of the customer.

PINCH VALVES

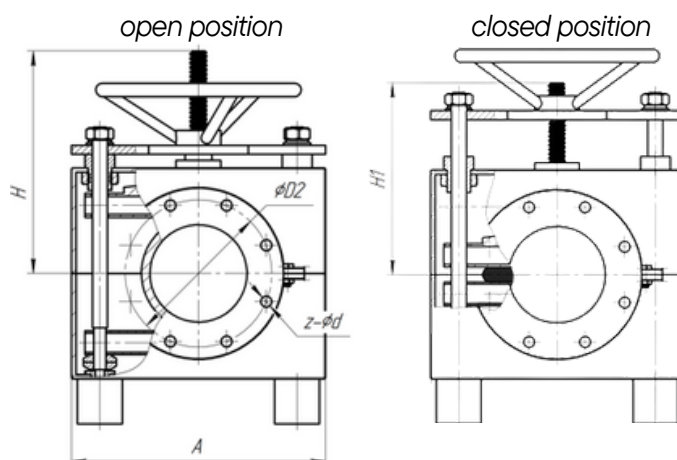
Nominal diameter: **DN50 ... DN1200**Nominal pressure: **PN10 ... PN16**

Table of connection sizes

DN, mm	PN, MPa (Bar)	Rozmiary, mm						Torque, N*m	Rotations per stroke	Rod diameter, thread type, and pitch	Weight (without drive), kg
		L	W	D1	H	H1	n - Ød				
50	1,0 (10)	165	200	125	259	284	4 - Ø18	100	10	Tr30*5	-
65	1,0 (10)	165	260	145	288	321	4 - Ø18	120	13	Tr30*5	-
80	1,0 (10)	200	308	160	320	361	8 - Ø18	150	16	Tr30*5	-
100	1,0 (10)	260	350	180	355	405	8 - Ø18	180	17	Tr36*6	-
125	1,0 (10)	310	390	210	400	465	8 - Ø18	200	21	Tr36*6	-
150	1,0 (10)	375	435	240	449	525	8 - Ø22	250	25	Tr36*6	-
200	1,0 (10)	500	510	295	513	615	8 - Ø22	300	34	Tr36*6	-
250	1,0 (10)	625	610	350	622	747	12 - Ø22	350	42	Tr40*6	-
300	1,0 (10)	750	700	400	695	845	12 - Ø22	400	50	Tr40*6	-
350	1,0 (10)	375	790	460	790	965	16 - Ø22	500	59	Tr40*6	-
400	1,0 (10)	1000	880	515	910	1110	16 - Ø22	600	67	Tr45*6	-
450	1,0 (10)	1125	945	565	1010	1235	20 - Ø26	750	75	Tr45*6	-
500	1,0 (10)	1250	1050	620	1070	1320	20 - Ø26	900	84	Tr45*6	-

Upon request, tabulated values are provided for DN600 to DN1200.

DN, mm	PN, MPa (Bar)	Dimensions, mm							Torque, N*m	Rotations per stroke	Rod diameter, thread type, and pitch	Weight (without drive), kg
		L	A	D1	D2	H	H1	Z - Ød				
50	1,6 (16)	195	200	45	125	259	284	4 - Ø18	120	10	Tr30*5	-
65	1,6 (16)	230	260	60	145	288	321	4 - Ø18	150	13	Tr30*5	-
80	1,6 (16)	280	308	76	160	320	361	8 - Ø18	180	16	Tr30*5	-
100	1,6 (16)	360	350	95	180	355	405	8 - Ø18	220	17	Tr36*6	-
125	1,6 (16)	445	390	120	210	400	465	8 - Ø18	250	21	Tr36*6	-
150	1,6 (16)	500	435	145	240	449	525	8 - Ø22	300	25	Tr36*6	-
200	1,6 (16)	560	510	195	295	513	615	12 - Ø22	350	34	Tr40*6	-
250	1,6 (16)	630	610	245	355	622	747	12 - Ø26	450	42	Tr40*6	-
300	1,6 (16)	730	700	295	410	695	845	12 - Ø26	500	50	Tr40*6	-
350	1,6 (16)	890	790	345	470	790	965	16 - Ø26	600	59	Tr45*6	-
400	1,6 (16)	1090	880	395	525	910	1110	16 - Ø30	750	67	Tr45*6	-
450	1,6 (16)	1120	945	445	585	1010	1235	20 - Ø30	900	57	Tr50*8	-
500	1,6 (16)	1240	1050	495	650	1070	1320	20 - Ø33	1200	63	Tr50*8	-

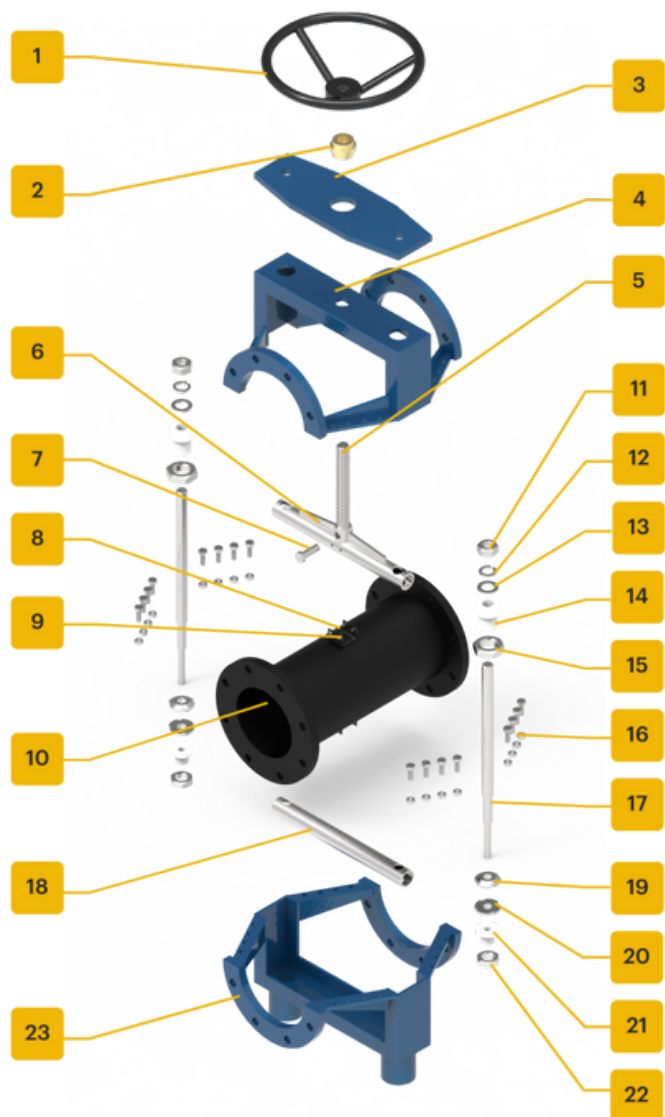
Upon request, tabulated values are provided for DN600 to DN1200.

* - Torque with safety factor

Valves can be supplied with an electric actuator or with a platform for an electric drive. In such a case, the attachment platform for the electric drive will be made according to the ISO 5211 standard

PINCH VALVES

MODEL : 206M



Nº Name

- 1 Handwheel
- 2 Bush
- 3 Support plate
- 4 Upper body part
- 5 Shaft seal
- 6 Upper clamping plate
- 7 Pin
- 8 Drilling rails
- 9 Clamping screw
- 10 Hose insert
- 11 Nut
- 12 Spring washer
- 13 Flat washer
- 14 Seal bushing
- 15 Support bushing nut
- 16 Bolts and nuts
- 17 Guides
- 18 Support plate
- 19 Lock nut
- 20 Lock washer
- 21 Centering bushing
- 22 Nut
- 23 Lower body part

KNIFE GATE VALVES

MODEL : 101

NOMINAL DIAMETER	DN50 to DN1400
NOMINAL PRESSURE	PN10 to PN16
PURPOSE	used as a shut-off valve
OPERATING ENVIRONMENT TEMPERATURE	from -60°C to +300°C
OPERATING MEDIA	water, steam, alkalis, acids, abrasive impurities, high-temperature gases, condensate, petroleum products



FEATURES OF THE MODEL

- » One-sided sealing
- » Monolithic Body
- » Full flow
- » Wide selection of sealing materials and sealing fillers
- » Option for installation of a flushing line at the bottom of the body

MATERIALS OF THE MAIN COMPONENTS

Name	Material	Operating media temperature	Notes
Seal	EPDM	-30°C ... +130°C	Water, steam, alkalis, acids, abrasive media
	NBR	-30°C ... +10°C	Petroleum products, diesel, mineral oils, propane, butane, abrasive media
	FKM	-40°C ... +200°C	Chemically aggressive media, mineral oils and greases, gasoline, hot water, abrasive media
	Metal	-	Chemically aggressive media, abrasive media, adhesive media
Body	GGG40	-20°C ... +130°C	Water, non-aggressive media
	WCB	-30°C ... +300°C	Water, steam, petroleum products
	2205	-60°C ... +300°C	Chemically aggressive media, petroleum products, water
	AISI304		
	AISI316		
	AISI316L		
Knife	2205	-60°C ... +300°C	Chemically aggressive media, petroleum products, water
	AISI316		Chemically aggressive media, petroleum products, water
	AISI310		Chemically aggressive media, mineral oils and greases, gasoline, water
	AISI316L		High-temperature gases, condensate, petroleum products, water
	AISI304		High-temperature gases, condensate, petroleum products, water
	AISI316Ti		Chemically aggressive substances, sulfuric acid, petroleum products

Possible to be made from other materials according to the technical requirements of the customer.

KNIFE GATE VALVES

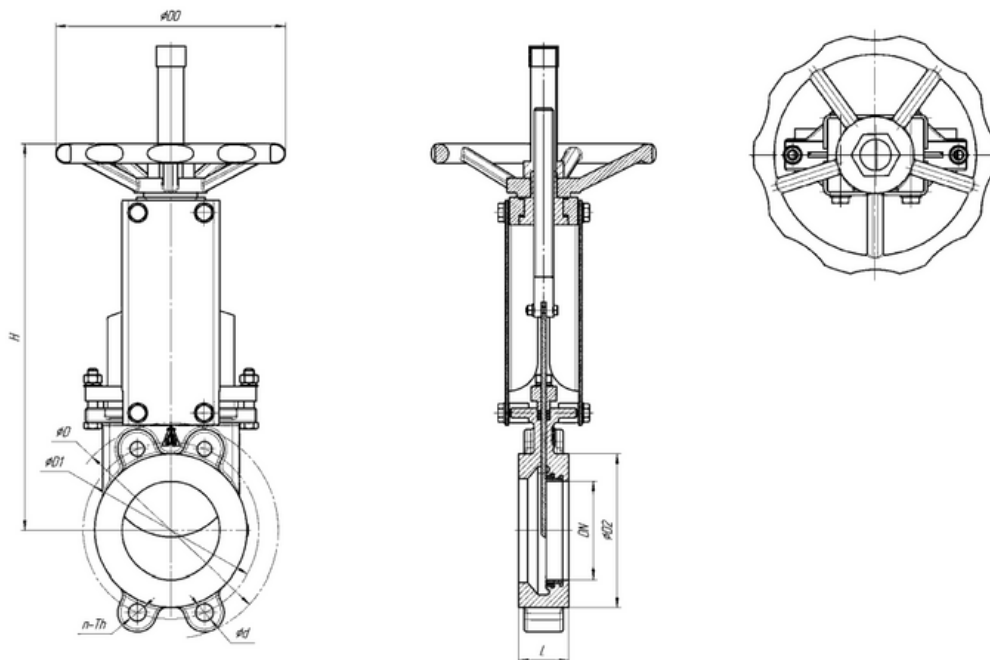
Nominal diameter: **DN50 ... DN1400**Nominal pressure: **PN10 ... PN16**

Table of connection sizes

DN, mm	PN, MPa (Bar)	Dimensions, mm								Torque, N*m	Mounting plate, ISO 5211	Rod diameter, thread type, and pitch	Weight (without drive), kg
		D	D1	D2	D0	H	L	d	n-Th				
50	1,0 (10)	165	125	99	180	260	48	18	4-M16	7	F10	Tr18*4	6
65	1,0 (10)	185	145	118	200	292	48	18	4-M16	8	F10	Tr18*4	7,8
80	1,0 (10)	200	160	132	200	320	51	18	8-M16	11	F10	Tr20*4	9
100	1,0 (10)	220	180	156	240	358	51	18	8-M16	13	F10	Tr20*4	12,3
125	1,0 (10)	250	210	184	260	395	57	18	8-M16	15	F10	Tr20*4	16,8
150	1,0 (10)	285	240	211	280	450	57	23	8-M16	16	F10	Tr24*5	19
200	1,0 (10)	340	295	266	300	532	70	23	8-M16	19	F10	Tr24*5	26
250	1,0 (10)	395	350	319	320	670	70	23	12-M20	26	F10	Tr26*5	37
300	1,0 (10)	445	400	370	350	758	76	23	12-M20	46	F10	Tr26*5	49
350	1,0 (10)	505	460	429	400	857	76	23	16-M20	85	F12	Tr30*6	72
400	1,0 (10)	565	515	480	450	946	89	27	16-M24	90	F12	Tr30*6	96
450	1,0 (10)	615	565	530	500	1023	89	27	20-M24	98	F12	Tr32*6	159

Upon request, tabulated values are provided for DN500 to DN1400

* - Torque with safety factor

OPERATING PRESSURE DEPENDING ON THE DIAMETER

DN, mm	PN, MPa (Bar)
50-100	1,6 (16)
125-200	1,4 (14)
250-300	1,2 (12)

DN, mm	PN, MPa (Bar)
350-400	1,0 (10)
450-550	0,8 (8)
600-650	0,5 (5)

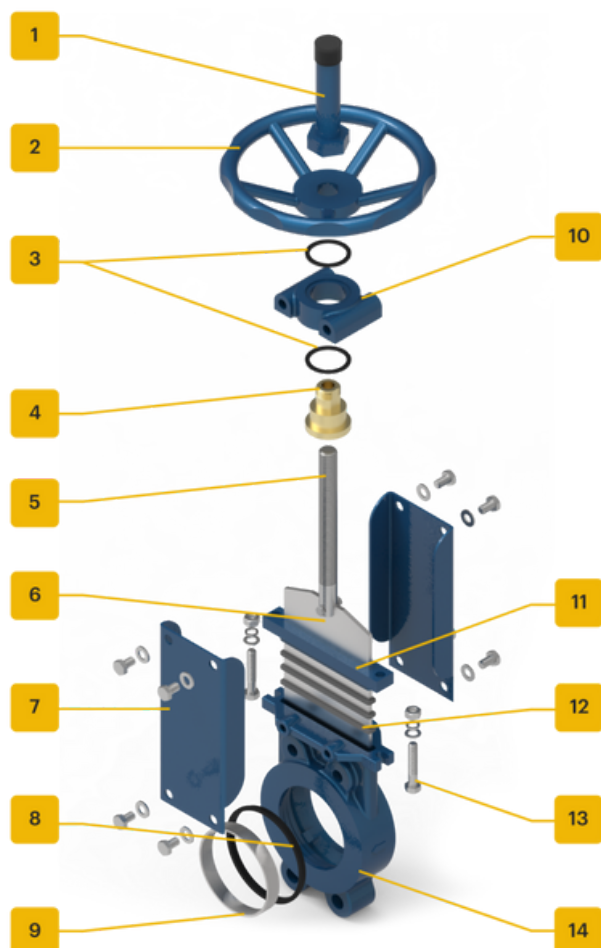
DN, mm	PN, MPa (Bar)
700-750	0,4 (4)
800-900	0,3 (3)
1000-1400	0,2 (2)

It is possible to supply knife gate valves with electric actuators or with a platform for electric actuation. In such a case, the electric actuation platform will be made according to ISO 5211 standard.

KNIFE GATE VALVES

Nominal diameter: **DN50 ... DN1400**

Nominal pressure: **PN10 ... PN16**



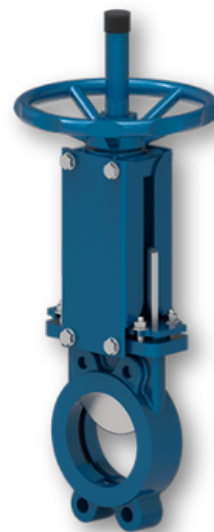
No Name

- 1 Protective cover
- 2 Handwheel
- 3 Bearing
- 4 Bushing
- 5 Spindle
- 6 Knife
- 7 Yoke
- 8 Seal
- 9 Locking cover
- 10 Mounting platform
- 11 Seal cover
- 12 Gland packing
- 13 Bolt
- 14 Body

KNIFE GATE VALVES

MODEL : 103

NOMINAL DIAMETER	DN50 to DN1000
NOMINAL PRESSURE	PN10 to PN16
PURPOSE	used as a shut-off valve
OPERATING ENVIRONMENT TEMPERATURE	from -20°C to +130°C
OPERATING MEDIA	liquid aggressive and non-aggressive media with suspended solid particles, loose media, petroleum products, alkalis, acids



FEATURES OF THE MODEL

- » End-face sealing
Double-sided sealing
- » A wide selection of body materials, sealing materials, and sealing inserts
- » When the valve is opened, the seal takes the shape of the housing cross-section, ensuring full passage through the valve without stagnant areas

MATERIALS OF THE MAIN COMPONENTS

Name	Material	Operating media temperature	Notes
Seal	EPDM	-30°C ... +130°C	Water, steam, alkalis, acids, abrasive media, condensate
Body	GGG40	-20°C ... +130°C	Water, non-aggressive media
	AISI316Ti		Water, steam, alkalis, acids, abrasive impurities, condensate
Knife	AISI316L	-20°C ... +130°C	Water, steam, alkalis, acids, abrasive impurities, condensate
	AISI304		
	AISI316Ti		

Possible to be made from other materials according to the technical requirements of the customer.

KNIFE GATE VALVES

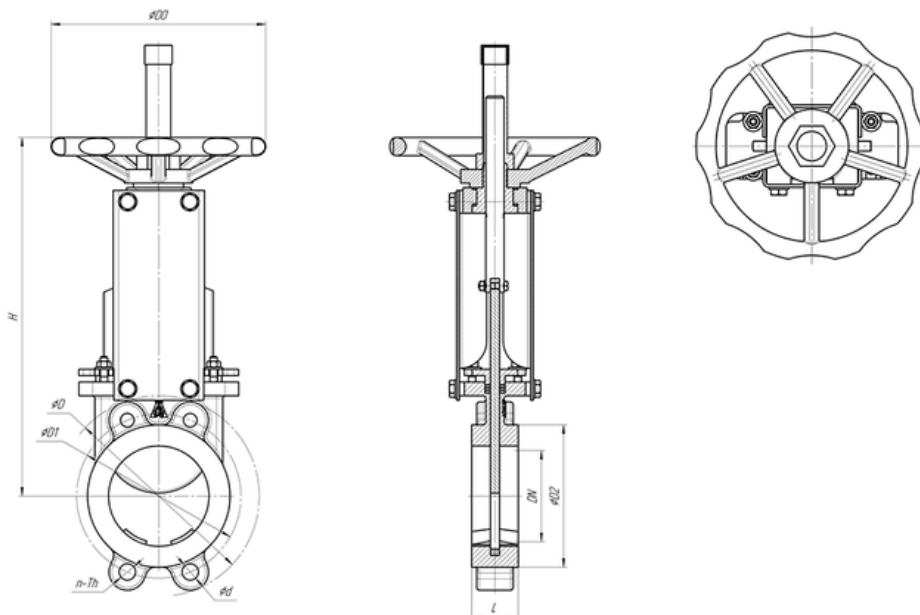
Nominal diameter: **DN50 ... DN1000**Nominal pressure: **PN10 ... PN16**

Table of connection sizes

DN, mm	PN, MPa (Bar)	Dimensions, mm								Torque, N*m	Mounting plate, ISO 5211	Rod diameter, thread type, and pitch	Weight (without drive), kg
		D	D1	D2	D0	H	L	d	n-Th				
50	1,0 (10)	165	125	99	180	290	48	18	4-M16	7	F10	Tr18*4	6
65	1,0 (10)	185	145	118	200	330	48	18	4-M16	8	F10	Tr18*4	7,8
80	1,0 (10)	200	160	132	200	358	51	18	8-M16	11	F10	Tr20*4	9
100	1,0 (10)	220	180	156	240	378	51	18	8-M16	13	F10	Tr20*4	12,3
125	1,0 (10)	250	210	184	260	428	57	18	8-M16	15	F10	Tr20*4	16,8
150	1,0 (10)	285	240	211	280	490	57	23	8-M16	16	F10	Tr24*5	19
200	1,0 (10)	340	295	266	300	588	70	23	8-M16	19	F10	Tr24*5	26
250	1,0 (10)	395	350	319	320	690	70	23	12-M20	26	F10	Tr26*5	37
300	1,0 (10)	445	400	370	350	815	76	23	12-M20	46	F10	Tr26*5	49
350	1,0 (10)	505	460	429	400	890	76	23	16-M20	85	F12	Tr30*6	72
400	1,0 (10)	565	515	480	450	980	89	27	16-M24	90	F12	Tr30*6	96
450	1,0 (10)	615	565	530	500	1025	89	27	20-M24	98	F12	Tr32*6	159

Na życzenie udostępniane są wartości tabelaryczne dla DN500...DN1000

*- Torque with safety factor

OPERATING PRESSURE DEPENDING ON DIAMETER

DN, mm	PN, MPa (Bar)
50-100	1,6 (16)
125-200	1,4 (14)
250-300	1,2 (12)

DN, mm	PN, MPa (Bar)
350-400	1,0 (10)
450-550	0,8 (8)
600-650	0,5 (5)

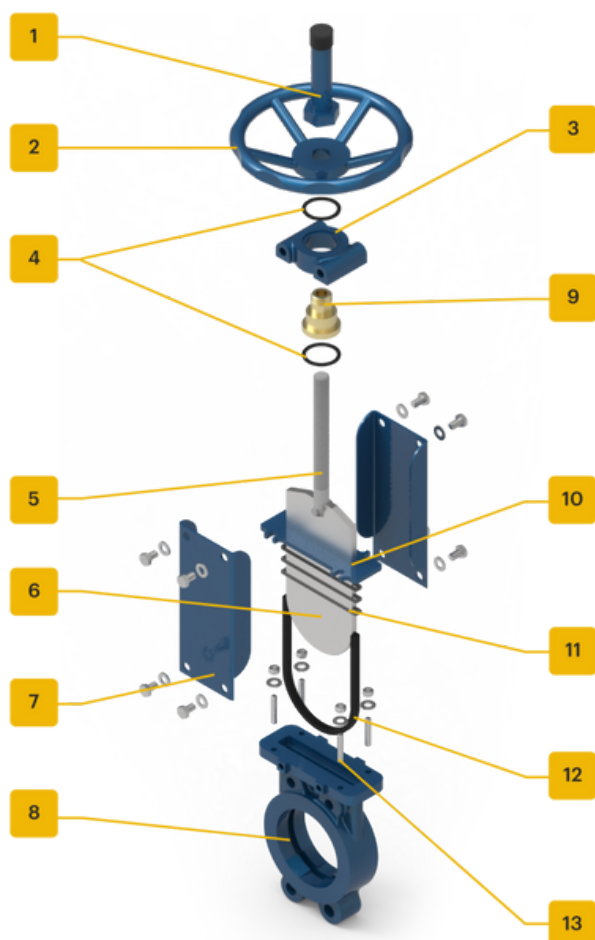
DN, mm	PN, MPa (Bar)
700-750	0,4 (4)
800-900	0,3 (3)
1000	0,2 (2)

Valves can be supplied with an electric actuator or with a platform for an electric drive. In such a case, the attachment platform for the electric drive will be made according to the ISO 5211 standard.

KNIFE GATE VALVES

Nominal diameter: **DN50 ... DN1000**

Nominal pressure: **PN10 ... PN16**



No Name

- 1 Protective cover
- 2 Handwheel
- 3 Mounting platform
- 4 Bearing
- 5 Spindle
- 6 Knife
- 7 Yoke
- 8 Body
- 9 Bushing
- 10 Seal cover
- 11 Gland packing
- 12 Seal
- 13 Bolt and nut

KNIFE GATE VALVES

MODEL : 104

NOMINAL DIAMETER	DN50 to DN1000
NOMINAL PRESSURE	PN10 to PN16
PURPOSE	used as a shut-off valve
OPERATING ENVIRONMENT TEMPERATURE	from -30°C to +200°C
OPERATING MEDIA	water, steam, alkalis, acids, abrasive impurities, high-temperature gases, condensate, petroleum products



FEATURES OF THE MODEL

- » End gasket
- » Double-sided tightness
- » Disassemblable two-part body
- » Wide selection of body materials, seals, and gland packing
- » When the valve is opened, the seal conforms to the body section, thereby ensuring full passage of the valve without stagnant zones

MATERIALS OF THE MAIN COMPONENTS

Name	Material	Operating media temperature	Notes
Seal	NBR	-30°C ... +100°C	Water, steam, resins, acids, abrasive contaminants, high-temperature gases, condensate, petroleum products, diesel fuel, mineral oils, propane, butane, abrasive media
	EPDM	-20°C ... +130°C	Water, steam, alkalis, acids, abrasive media
	FKM (Viton)	-20°C ... +200°C	Chemically aggressive media, mineral oils and greases, gasoline, hot water
Body	GGG40	-30°C ... +200°C	Water, non-aggressive media
	WCB	-30°C ... +200°C	Water, steam, petroleum products
	AISI304	-30°C ... +200°C	Chemical aggressive media, petroleum products, water, abrasive media
	AISI316	-30°C ... +200°C	Chemical aggressive media, petroleum products, water
	AISI316L	-30°C ... +200°C	Chemical aggressive media, petroleum products, water
	AISI316Ti	-30°C ... +200°C	Chemically aggressive media, sulfuric acid, petroleum products
Knife	AISI316L	-30°C ... +200°C	Chemically aggressive media, mineral oils and greases, gasoline, hot water
	AISI304	-30°C ... +200°C	Chemically aggressive media, mineral oils and greases, gasoline, hot water
	AISI316Ti	-30°C ... +200°C	Chemically aggressive media, sulfuric acid, petroleum products

Possible to be made from other materials according to the technical requirements of the customer.

KNIFE GATE VALVES

Nominal diameter: **DN50 ... DN1000**

Nominal pressure: **PN10 ... PN16**

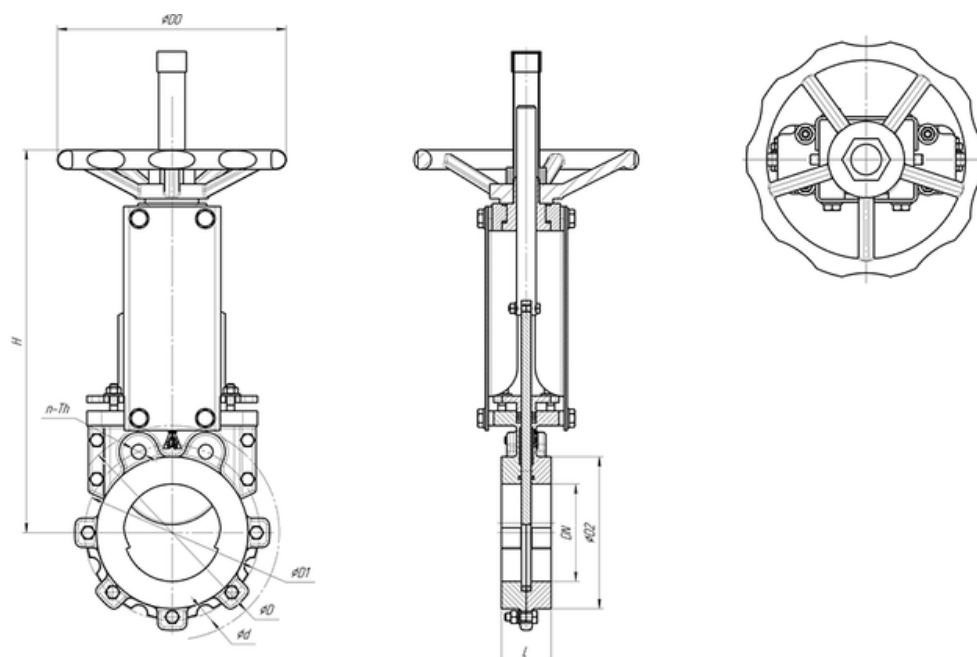


Table of connection sizes, PN 10

DN, mm	Dimensions, mm								Torque, N*m	Mounting plate, ISO 5211	Rod diameter, thread type, and pitch	Weight (without drive), kg
	D	D1	D2	D0	H	L	d	n-Th				
50	165	125	99	180	265	48	18	4-M16	-	-	-	-
65	185	145	118	200	290	48	18	4-M16	-	-	-	-
80	200	160	132	200	330	51	18	8-M16	-	-	-	-
100	220	180	156	240	360	51	18	8-M16	-	-	-	-
125	250	210	184	260	400	57	18	8-M16	-	-	-	-
150	285	240	211	280	450	57	23	8-M16	-	-	-	-
200	340	295	266	300	530	70	23	8-M16	-	-	-	-
250	395	350	319	320	595	70	23	12-M20	-	-	-	-
300	445	400	370	350	660	76	23	12-M20	-	-	-	-
350	505	460	429	400	760	76	23	16-M20	-	-	-	-
400	565	515	480	450	850	89	27	16-M24	-	-	-	-
450	615	565	530	500	940	89	27	20-M24	-	-	-	-

Upon request, tabulated values are provided for DN500....DN1000

* - Torque with safety factor

OPERATING PRESSURE DEPENDING ON THE DIAMETER

DN, mm	PN, MPa (Bar)
50-200	1,6 (16)
25-600	1,0 (10)

DN, mm	PN, MPa (Bar)
650-700	0,8 (8)
750-1000	0,6 (6)

It is possible to supply knife gate valves with electric actuators or with a platform for electric actuation. In such a case, the electric actuation platform will be made according to ISO 5211 standard.

KNIFE GATE VALVES

Nominal diameter: **DN50 ... DN1000**

Nominal pressure: **PN10 ... PN16**

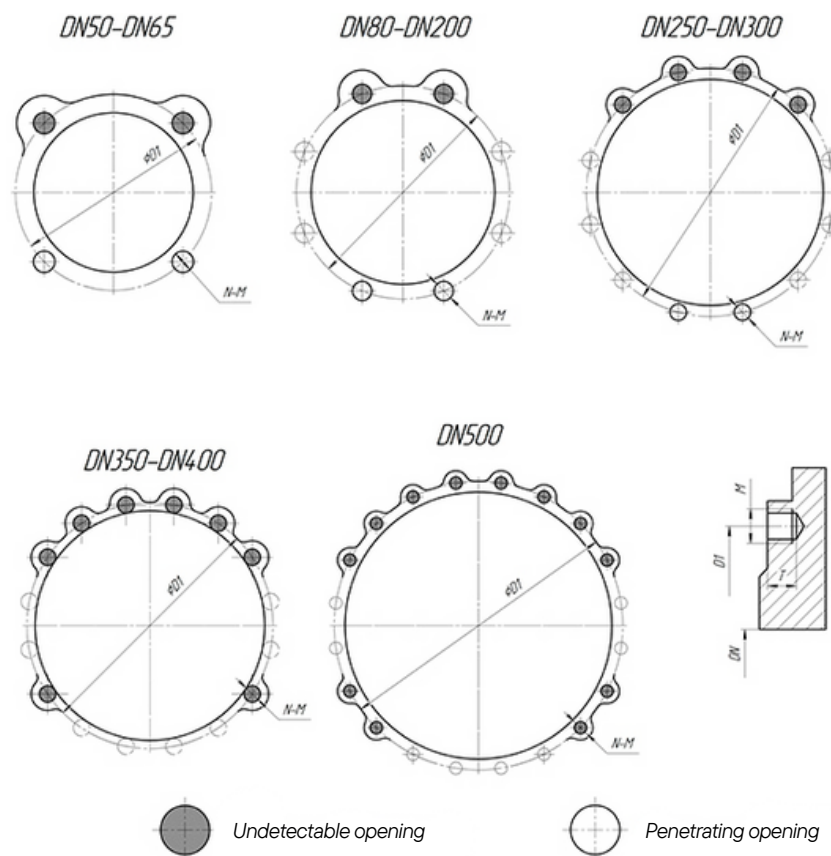


Table of connection sizes

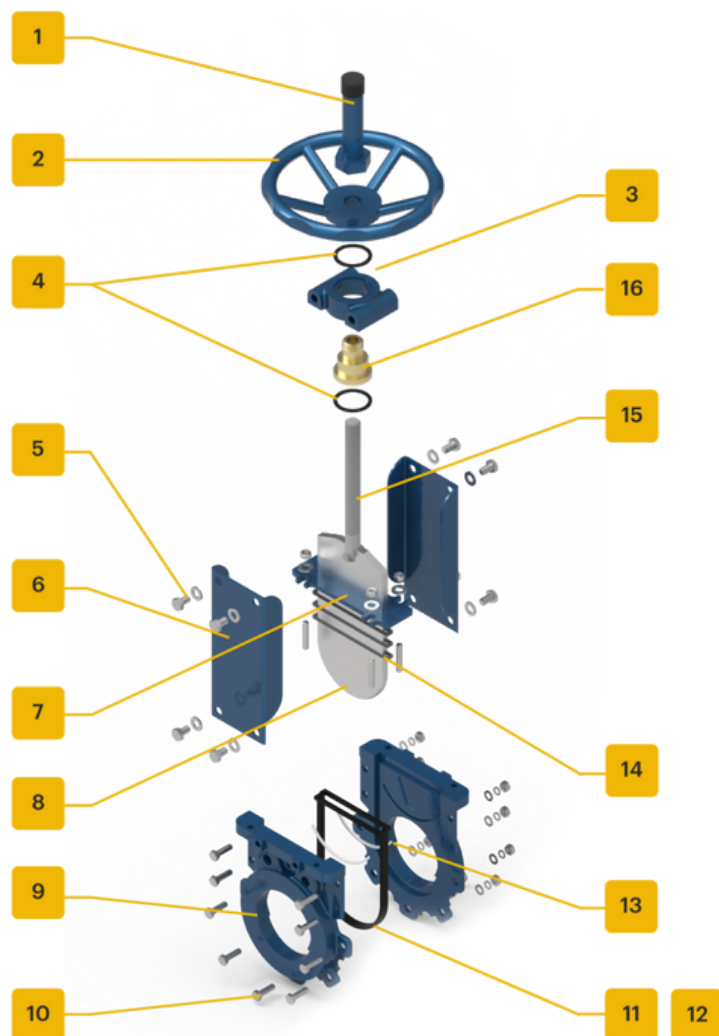
DN, mm	Dimensions, mm				Undetectable opening	Penetrating opening
	D1	N	M	T		
50	125	99	M16	13	2	2
65	145	118	M16	13	2	2
80	160	132	M16	13	2	6
100	180	156	M16	13	2	6
125	210	184	M16	16	2	6
150	240	211	M16	16	2	6
200	295	266	M20	20	2	6
250	350	319	M20	20	4	8
300	400	370	M20	20	4	8
350	460	429	M20	20	8	8
400	515	480	M24	24	10	6
450	565	530	M24	24	12	8
Upon request, tabulated values are provided for DN500...DN1000						

* - Torque with safety factor

KNIFE GATE VALVES

Nominal diameter: **DN50 ... DN1000**

Nominal pressure: **PN10 ... PN16**



Nº Name

- 1 Protective cover
- 2 Handwheel
- 3 Mounting platform
- 4 Bearing
- 5 Bolt and nut
- 6 Bracket
- 7 Seal cover
- 8 Knife
- 9 Body
- 10 Bolt
- 11 Seal
- 12 Body seal
- 13 Scraper
- 14 Gland packing
- 15 Spindle
- 16 Bushing

KNIFE GATE VALVES

MODEL : 106

NOMINAL DIAMETER	DN50 to DN800
NOMINAL PRESSURE	PN10 to PN16
PURPOSE	used as a shut-off valve
OPERATING ENVIRONMENT TEMPERATURE	from -20°C to +200°C
OPERATING MEDIA	highly aggressive media, chemically aggressive media, mineral oils and greases, gasoline, hot water, petroleum products, diesel fuel, propane, butane, media with high content of abrasive particles



FEATURES OF THE MODEL

- » Double-sided sealing (replaceable seals without removing the valve housing)
- » Tight sealing between the seals ensures full flow capacity of the valve without stagnant areas
- » Automatic cleaning of the knife
- » High resistance of the valve to media containing abrasive substances due to the lack of contact of the working medium with the valve housing
- » Lower removable cover with the possibility of connecting a housing flushing system
- » Monolithic body

FEATURES OF THE MODEL

Name	Material	Operating media temperature	Notes
Seal	NBR	-20°C ... +90°C	Water, high-altitude abrasive media
	NBR	-20°C ... +100°C	Petroleum products, diesel, mineral oils, propane, butane, abrasive media
	PU		Petroleum products, medical reagents, high-altitude abrasive media
	EPDM	-20°C ... +130°C	Water, steam, alkalis, acids, abrasive media
	FKM (Viton)	-20°C ... +200°C	Chemically aggressive media, mineral oils and greases, gasoline, hot water, abrasive media
Body	GGG40	-20°C ... +200°C	-
Knife	AISI316L	-20°C ... +200°C	High-temperature gases, condensate, petroleum products, water
	AISI304		High-temperature gases, condensate, petroleum products, water, abrasive media

Possible to be made from other materials according to the technical requirements of the customer.

KNIFE GATE VALVES

Nominal diameter: **DN50 ... DN800**

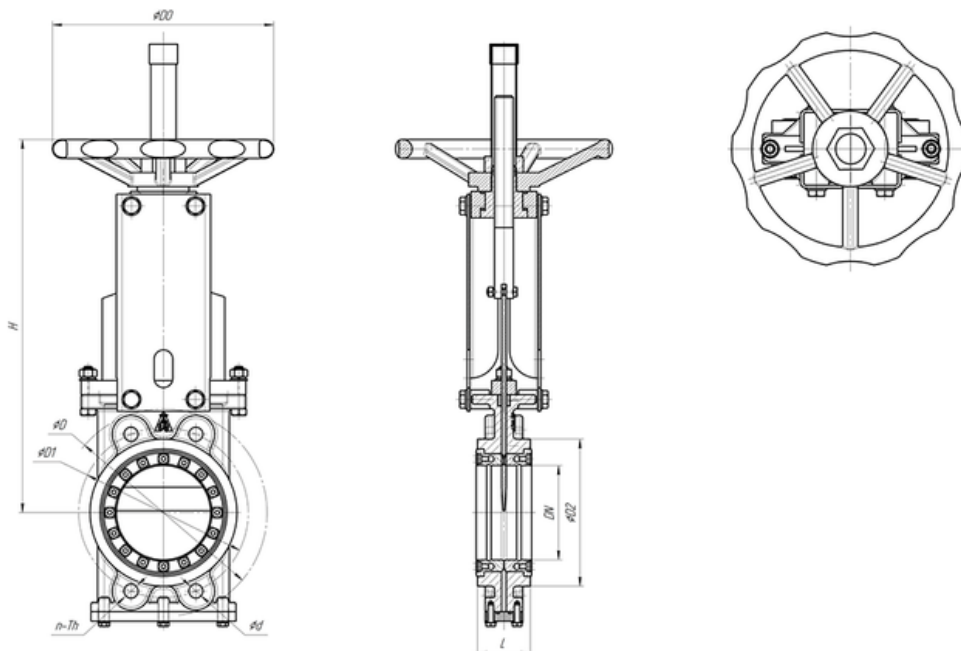
Nominal pressure: **PN10 ... PN16**


Table of connection sizes

DN, mm	PN, MPa (Bar)	Dimensions, mm								Torque, N*m	Mounting plate, ISO 5211	Rod diameter, thread type, and pitch	Weight (without drive), kg
		D	D1	D2	D0	H	L	d	n-Th				
50	1,0 (10)	165	125	99	180	260	53	18	4-M16	16	F10	Tr18*4	6,9
65	1,0 (10)	185	145	118	200	292	53	18	4-M16	16	F10	Tr18*4	8,6
80	1,0 (10)	200	160	132	200	320	56,6	18	8-M16	20	F10	Tr20*4	9,1
100	1,0 (10)	220	180	156	240	358	56,6	18	8-M16	20	F10	Tr20*4	11,5
125	1,0 (10)	250	210	184	260	395	63	18	8-M16	20	F10	Tr20*4	14,3
150	1,0 (10)	285	240	211	280	450	62	23	8-M20	24	F10	Tr24*5	17,2
200	1,0 (10)	340	295	266	300	532	76,5	23	8-M20	51	F10	Tr24*5	28
250	1,0 (10)	395	350	319	320	670	75,5	23	12-M20	68	F10	Tr26*5	43
300	1,0 (10)	445	400	370	350	758	84	23	12-M20	85	F10	Tr26*5	62
350	1,0 (10)	505	460	429	400	857	84	23	16-M20	117	F12	Tr30*6	78,5
400	1,0 (10)	565	515	480	450	946	99	27	16-M24	117	F12	Tr30*6	165
450	1,0 (10)	615	565	530	500	1023	99	27	20-M24	177	F12	Tr32*6	222

Upon request, tabulated values are provided for DN500...DN800

* - Torque with safety factor

OPERATING PRESSURE DEPENDING ON THE DIAMETER

DN, mm	PN, MPa (Bar)
50-100	1,6 (16)
125-200	1,0 (10)
250-400	0,7 (7)

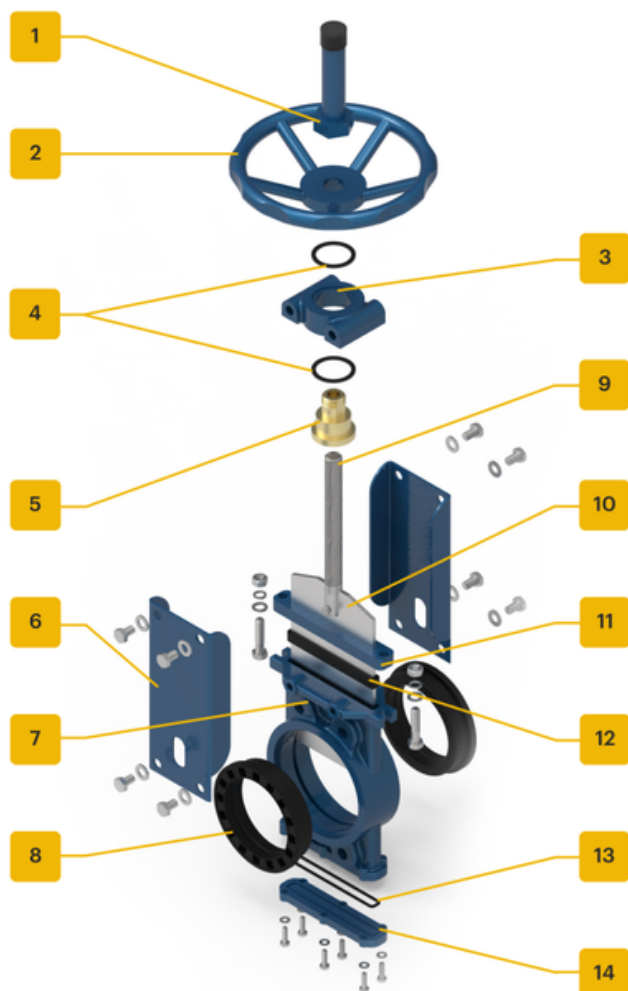
DN, mm	PN, MPa (Bar)
450-500	0,5 (5)
600-700	0,3 (3)
800	0,2 (2)

It is possible to supply knife gate valves with electric actuators or with a platform for electric actuation. In such a case, the electric actuation platform will be made according to ISO 5211 standard.

KNIFE GATE VALVES

Nominal diameter: **DN50 ... DN800**

Nominal pressure: **PN10 ... PN16**



Nº Name

- 1 Protective cover
- 2 Handwheel
- 3 Mounting platform
- 4 Bearing
- 5 Bushing
- 6 Yoke
- 7 Body
- 8 Seal
- 9 Spindle
- 10 Knife
- 11 Seal cover
- 12 Gland packing
- 13 Lower seal
- 14 Lower detachable cover

KNIFE GATE VALVES

MODEL : 108

NOMINAL DIAMETER	DN50 to DN800
NOMINAL PRESSURE	PN10 to PN16
PURPOSE	used as a shut-off valve
OPERATING ENVIRONMENT TEMPERATURE	from -20°C to +100°C
OPERATING MEDIA	water, steam, alkalis, acids, abrasive impurities, high-temperature gases, condensate, petroleum products



FEATURES OF THE MODEL

- » Monolithic polyurethane end seal, bi-directional sealing
- » Full bore
- » Disassemblable two-piece body
- » High abrasion resistance of the valve due to the "PU" sealing and absence of contact between the working medium and the valve body

MATERIALS OF THE MAIN COMPONENTS

Name	Material	Operating media temperature	Notes
Seal	PU	-20°C ... +100°C	Petroleum products, medical reagents, high-altitude abrasive media
Body	GGG40	-20°C ... +100°C	-
	WCB	-20°C ... +100°C	
	AISI304	-20°C ... +100°C	
	AISI316	-20°C ... +100°C	
	AISI316L	-20°C ... +100°C	
	AISI316Ti	-20°C ... +100°C	
Knife	AISI316L	-20°C ... +100°C	Chemically aggressive media, petroleum products, water
	AISI304	-20°C ... +100°C	Chemically aggressive media, petroleum products, water
	AISI316Ti	-20°C ... +100°C	Chemically aggressive media, petroleum products, water

Possible to be made from other materials according to the technical requirements of the customer.

KNIFE GATE VALVES

Nominal diameter: **DN50 ... DN800**

Nominal pressure: **PN10 ... PN16**

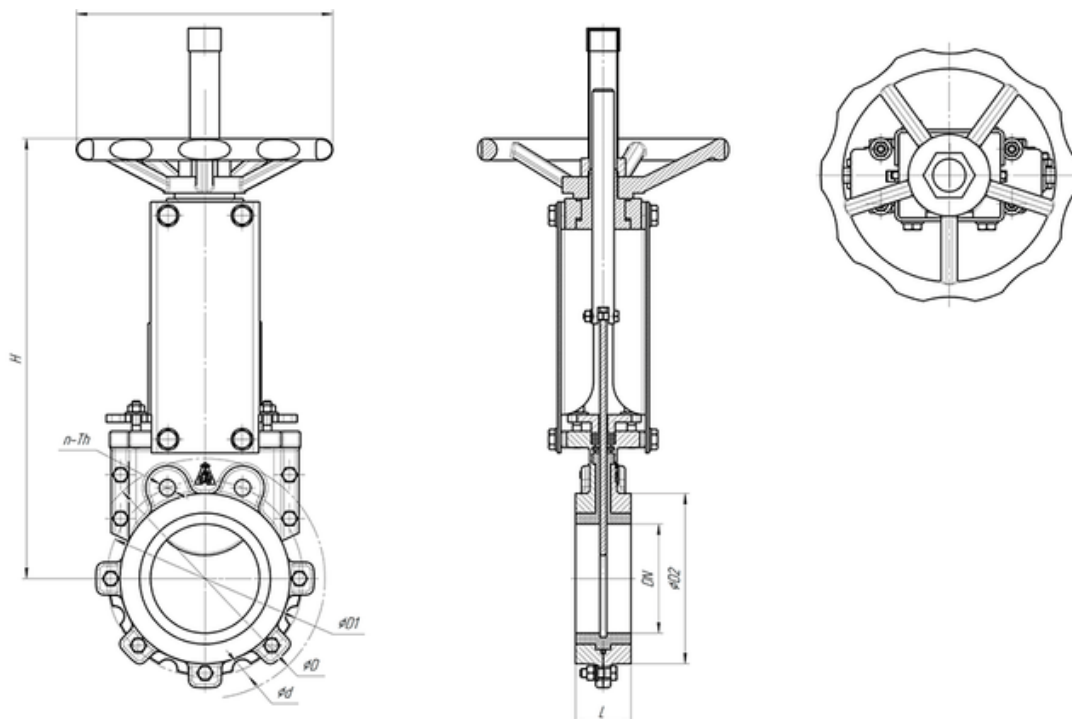


Table of connection sizes, PN 10

DN, mm	Dimensions, mm								Torque, N*m	Mounting plate, ISO 5211	Rod diameter, thread type, and pitch	Weight (without drive), kg
	D	D1	D2	D0	H	L	d	n-Th				
50	165	125	99	180	290	48	18	4-M16	-	-	-	-
65	185	145	118	200	330	48	18	4-M16	-	-	-	-
80	200	160	132	200	358	51	18	8-M16	-	-	-	-
100	220	180	156	240	378	51	18	8-M16	-	-	-	-
125	250	210	184	260	428	57	18	8-M16	-	-	-	-
150	285	240	211	280	490	57	23	8-M16	-	-	-	-
200	340	295	266	300	588	70	23	8-M16	-	-	-	-
250	395	350	319	320	690	70	23	12-M20	-	-	-	-
300	445	400	370	350	815	76	23	12-M20	-	-	-	-
350	505	460	429	400	890	76	23	16-M20	-	-	-	-
400	565	515	480	450	980	89	27	16-M24	-	-	-	-
450	615	565	530	500	1025	89	27	20-M24	-	-	-	-

Upon request, tabulated values are provided for DN500...DN800

* - Torque with safety factor

OPERATING PRESSURE DEPENDING ON THE DIAMETER

DN, mm	PN, MPa (Bar)
50-200	1,6 (16)
25-400	1,0 (10)

DN, mm	PN, MPa (Bar)
450-600	1 (10)
650-800	0,6 (6)

It is possible to supply knife gate valves with electric actuators or with a platform for electric actuation. In such a case, the electric actuation platform will be made according to ISO 5211 standard.

KNIFE GATE VALVES

Nominal diameter: **DN50 ... DN800**

Nominal pressure: **PN10 ... PN16**

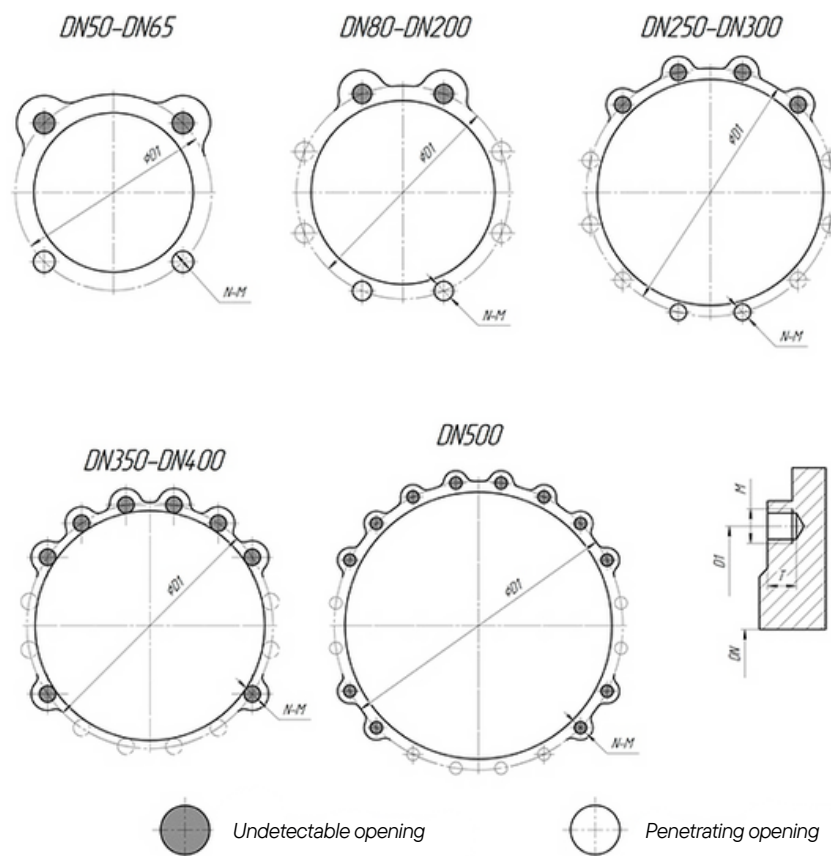


Table of connection sizes

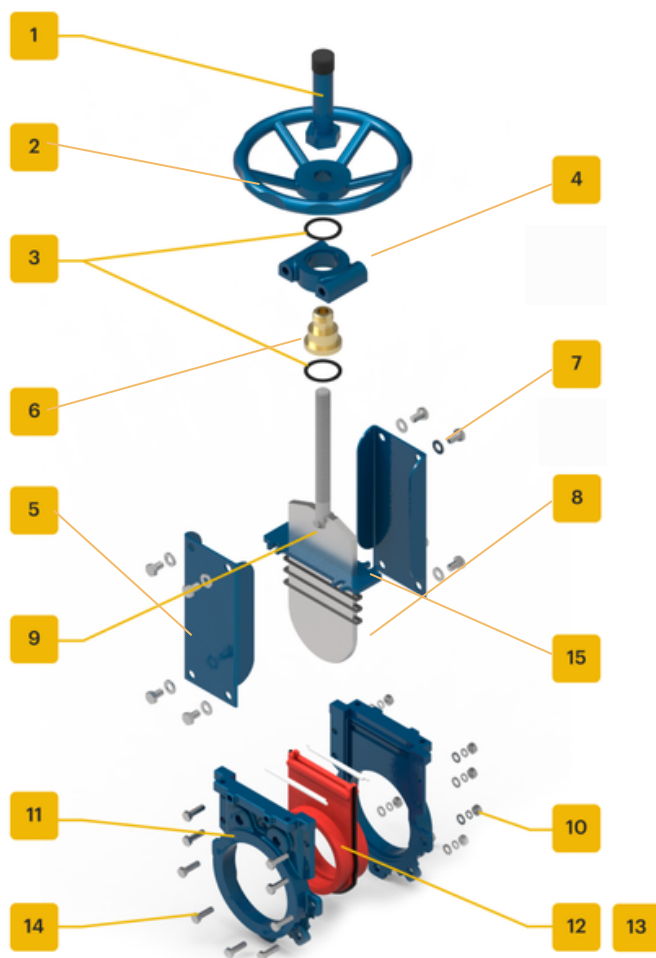
DN, mm	Dimensions, mm				Undetectable opening	Penetrating opening
	D1	N	M	T		
50	125	99	M16	13	2	2
65	145	118	M16	13	2	2
80	160	132	M16	13	2	6
100	180	156	M16	13	2	6
125	210	184	M16	16	2	6
150	240	211	M16	16	2	6
200	295	266	M20	20	2	6
250	350	319	M20	20	4	8
300	400	370	M20	20	4	8
350	460	429	M20	20	8	8
400	515	480	M24	24	10	6
450	565	530	M24	24	12	8
Upon request, tabulated values are provided for DN500...DN800						

* - Torque with safety factor

KNIFE GATE VALVES

Nominal diameter: **DN50 ... DN800**

Nominal pressure: **PN10 ... PN16**



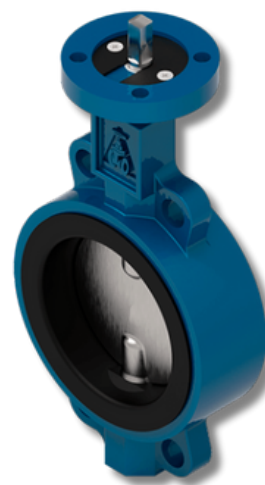
Nr Name

- 1 Protective cover
- 2 Handwheel
- 3 Bearing
- 4 Mounting platform
- 5 Yoke
- 6 Bushing
- 7 Bolt and nuts
- 8 Gland packing
- 9 Knife
- 10 Nut
- 11 Body
- 12 Gasket
- 13 Body gasket
- 14 Screws and nuts
- 15 Seal cover

BUTTERFLY VALVES

MODEL : 301

NOMINAL DIAMETER	DN50 to DN1200
NOMINAL PRESSURE	PN10 to PN16
PURPOSE	control and shut-off
CONNECTION'S TYPE	inter-flange
OPERATING ENVIRONMENT TEMPERATURE	from -20°C to +160°C
OPERATING MEDIA	water, seawater, polluted water, air, steam, oil products, petroleum products, oils, acids, alkalis, salts, aggressive chemical environments, acetic acid, ethyl alcohol, ethylene glycol, milk, food additives



FEATURES OF THE MODEL

- » Replaceable seat seal
- » Single- or double-component stem
- » Wide selection of seal materials
- » Pinless connection of the disk to the stems (double-component stem)
- » Ease of installation and convenience in maintenance

EQUIPPED WITH VARIOUS TYPES OF CONTROL

manual (handwheel), manual gearbox, pneumatic actuator, electric actuator depending on the customer's technical requirements.

MATERIALS OF THE MAIN COMPONENTS

Name	Material	Operating media temperature	Notes
Seal	EPDM	-15°C ... +110°C	Water, steam, weak solutions of alkalis and acids
	NBR	-15°C ... +90°C	Petroleum products, diesel fuel, mineral oils, propane, butane
	NR	-5°C ... +70°C	Water, moderately abrasive media
	FKM (Viton)	-5°C ... +150°C	Chemically aggressive media, mineral oils and greases, gasoline, hot water
	Neoprene	-5°C ... +100°C	Water, steam, weak solutions of alkalis and acids, oils
	Silicon	-20°C ... +160°C	Acetic acid, ethyl alcohol, ethylene glycol, water, milk, food additives
	CSM	-5°C ... +100°C	Abrasive media, chemically aggressive media, water with contaminants
Body	A216 WCB	-	-
	AISI304		
	GGG40		
	GG25		
	AISI316		
Disc	AISI304	-20°C ... +160°C	Water, seawater, polluted water, air, steam, oil products, petroleum products, oils, acids, bases, salts, aggressive chemical substances
	AISI316		
	GGG40		Water, overheated water, weak solutions of acids and bases
	GGG40 + disc with a rubber seal	The operating temperature range for the seals	-

Possible to be made from other materials according to the technical requirements of the customer.

BUTTERFLY VALVES

Nominal diameter: **DN50 ... DN1200**

Nominal pressure: **PN10 ... PN16**

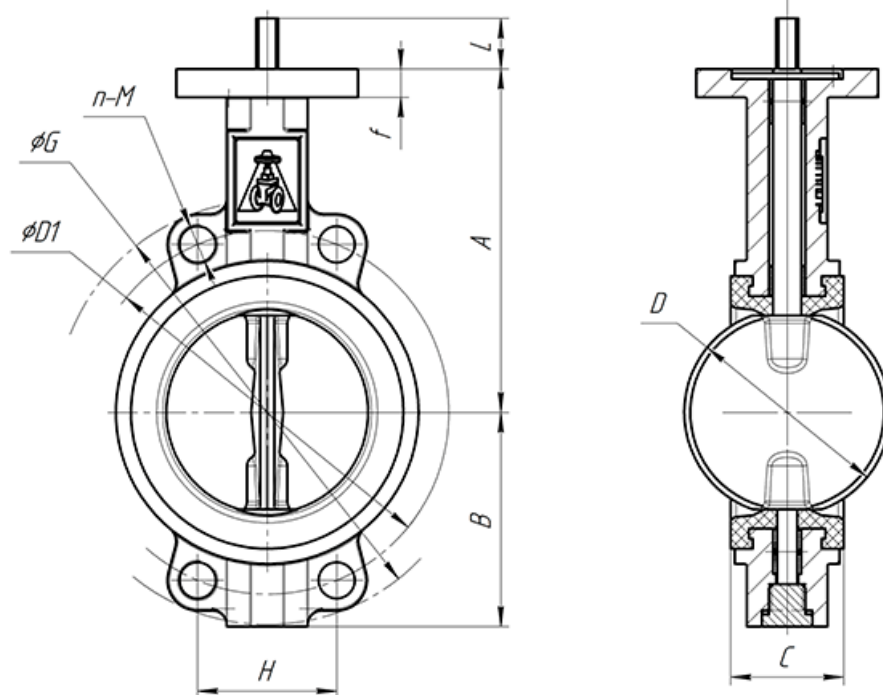


Table of connection sizes

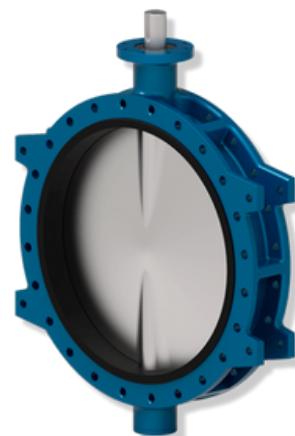
DN, mm	PN, MPa (Bar)	H1, mm	H2, mm	L, mm	D, mm	H, mm	D1, mm	G, mm	n- Ød
50	1,6 (16)	125	73	43	53	28	125	155	4-Ø16
65		136	82	46	64	28	145	179	4-Ø16
80		142	91	46	79	28	160	190	8-Ø16
100		163	107	52	104	28	180	220	8-Ø16
125		176	127	56	123	28	210	254	8-Ø16
150		197	143	56	156	28	240	285	8-Ø20
200		230	170	60	202	38	295	339	12-Ø20
250		260	204	68	250	38	355	406	12-Ø24
300		292	240	78	302	38	410	477	12-Ø24
350		336	267	78	333	45	460	515	16-Ø24
400		368	325	102	390	60	525	579	16-Ø27
450		400	356	114	441	60	585	627	20-Ø27
Upon request, tabulated values are provided for DN500...DN1200									

Butterfly valves can be supplied with an electric actuator or with a platform for an electric drive. In such a case, the attachment platform for the electric drive will be made according to the ISO 5211 standard

BUTTERFLY VALVES

MODEL : 303

NOMINAL DIAMETER	DN400 to DN2000
NOMINAL PRESSURE	PN10 to PN16
PURPOSE	control and shut-off
CONNECTION'S TYPE	flanged
OPERATING ENVIRONMENT TEMPERATURE	from -15°C to +110°C
OPERATING MEDIA	water, weak solutions of acids and bases, air, overheated water, environments with moderate abrasive particle content



FEATURES OF THE MODEL

- » Shortened face-to-face length
- » Replaceable seat seal
- » Lightweight design

EQUIPPED WITH VARIOUS TYPES OF CONTROL

manual (handwheel), manual gearbox, pneumatic actuator, electric actuator depending on the customer's technical requirements

MATERIALS OF THE MAIN COMPONENTS

Name	Material	Operating media temperature	Notes
Seal	EPDM	-15°C ... +110°C	Water, steam, weak solutions of alkalis and acids
	NBR	-15°C ... +90°C	Petroleum products, diesel fuel, mineral oils, propane, butane
Body	A216 WCB	-	-
	GGG40		
Disc	AISI304	-20°C ... +160°C	Water, seawater, polluted water, air, steam, oil products, petroleum products, oils, acids, bases, salts, aggressive chemical substances
	AISI316		
	WCB + EPDM + disc with a rubber seal	Operating temperature range for seals	-

Possible to be made from other materials according to the technical requirements of the customer.

BUTTERFLY VALVES

Nominal diameter: **DN400 ... DN2000**

Nominal pressure: **PN10 ... PN16**

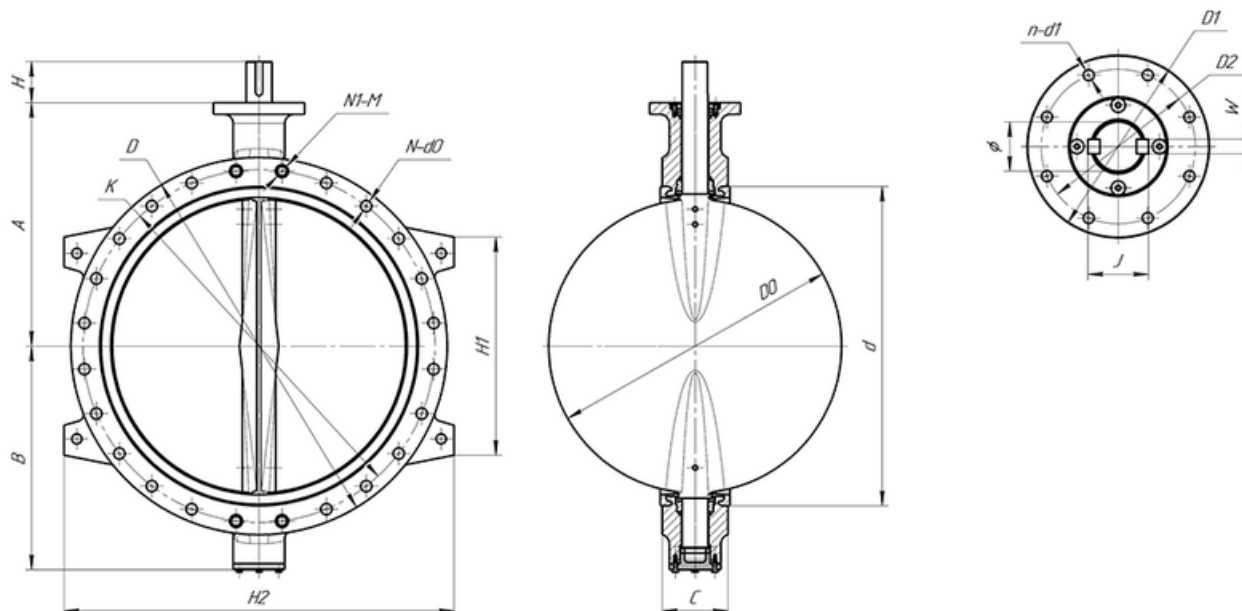


Table of connection sizes

DN, mm	PN, MPa (Bar)	H1, mm	H2, mm	H, mm	D0, mm	L, mm	D, mm	D1, mm	d, mm	n- Ød	n1- Ød	d1, mm	d3, mm	n-d1	Rod diameter, Ø	h, mm	K, mm	H3, mm	W, mm
400	1,6 (16)	400	325	60	390	102	580	525	450	12-31	4-M27	175	140	4-Ø18	37.95	10	40.95	337	600
450		422	345	60	441	114	640	585	501	16-31	4-M27	175	140	4-Ø18	42.86	12	45.86	370	660
500		480	378	75	492	127	715	650	555	16-34	4-M30	175	140	4-Ø18	45.72	14	49.22	412	735
600		562	475	75	593	154	840	770	660	16-37	4-M33	210	165	4-Ø22	53.98	16	57.98	483	860
700		624	543	70	695	165	910	840	753	20-37	4-M33	300	254	8-Ø18	63.35	18	71.4	520	926
800		672	606	75	795	190	1025	950	860	20-41	4-M36	300	254	8-Ø18	70	20	79	586	1045
900		720	670	110	865	203	1125	1050	963	24-41	4-M36	300	254	8-Ø18	80	22	90	648	1155
1000		800	735	135	965	216	1255	1170	1064	20-44	4-M39	300	254	8-Ø18	90	25	100	717	1285
1100		900	830	135	1065	254	1355	1270	1176	28-44	4-M39	350	298	8-Ø22	95	25	105	778	1385
1200		941	878	150	1160	254	1485	1390	1278	28-50	4-M45	350	298	8-Ø33	105	28	117	849	1515
1400		1040	1009	150	1385	279	1685	1590	1490	32-50	4-M45	415	356	8-Ø33	120	32	134	963	1715
1500		1080	1040	150	1457	318	1820	1710	1638	32-57	4-M52	415	356	8-Ø33	140	36	156	1039	1850
1600		1150	1132	180	1574	318	1930	1820	1704	36-57	4-M52	415	356	8-Ø33	160	40	178	1101	1960
1800		1280	1270	230	1775	356	2130	2020	1893	36-57	8-M52	475	406	8-Ø40	160	40	178	1213	2160
2000		1390	1350	280	1955	406	2345	2230	2105	40-50	8-M56	475	406	8-Ø40	160	40	178	1344	2375

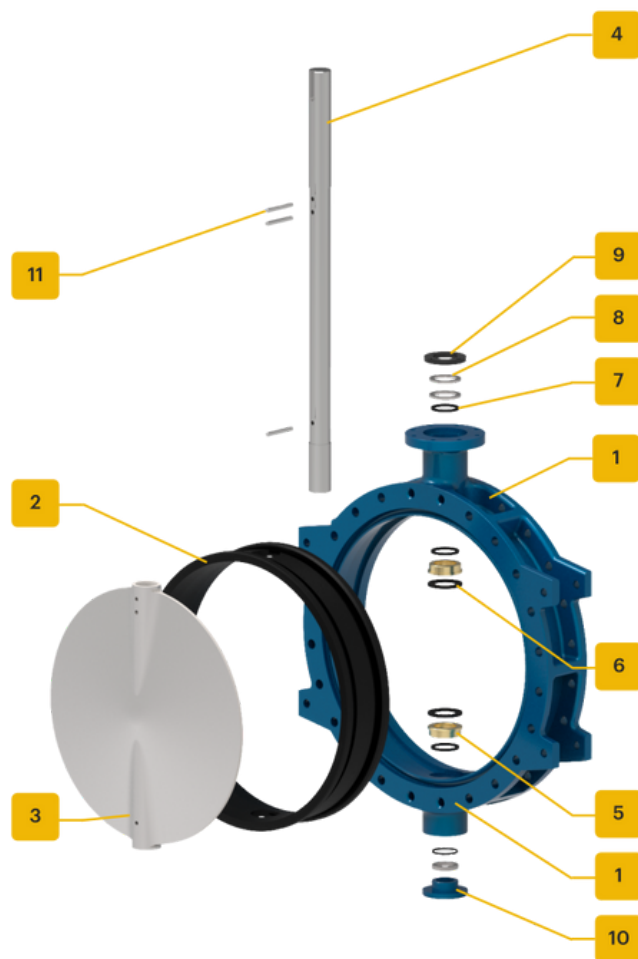
Characteristics for PN10 on request

Butterfly valves can be supplied with an electric actuator or with a platform for an electric drive. In such a case, the attachment platform for the electric drive will be made according to the ISO 5211 standard

BUTTERFLY VALVES

Nominal diameter: **DN400 ... DN2000**

Nominal pressure: **PN10 ... PN16**



N^o Name

- 1 Body
- 2 Seal
- 3 Disc
- 4 Stem
- 5 Bushing
- 6 Sealing ring
- 7 Sealing ring
- 8 Ring
- 9 Upper cover
- 10 Lower cover
- 11 Pin

BUTTERFLY VALVES

MODEL : 306

NOMINAL DIAMETER	DN50 to DN2000
NOMINAL PRESSURE	PN6 to PN100
PURPOSE	control and shut-off
CONNECTION'S TYPE	flanged, wafer, welded
OPERATING TEMPERATURE OF THE ENVIRONMENT	from -196°C to +600°C
OPERATING MEDIA	water, seawater, contaminated water, air, steam, oil products, petroleum products, oils, acids, bases, salts, aggressive chemical substances



FEATURES OF THE MODEL

- » Metal-to-metal seal for high temperatures up to +600°C
- » Metal-to-graphite seal to ensure class A tightness in one or two directions
- » Interchangeable graphite or metal seal
- » Low torque (drive selection)
- » High cycle performance compared to valves with symmetrical discs
- » Valve design with extended bearings for high-temperature operation
- » Availability of a wide range of materials for the body and disc for use in aggressive environments

EQUIPPED WITH VARIOUS TYPES OF CONTROL

manual (handwheel), manual gearbox, pneumatic actuator, electric actuator depending on the customer's technical requirements

MATERIALS OF THE MAIN COMPONENTS

Name	Material	Operating media temperature	Notes
Seal	AISI304 + grafit	425°C	Water, seawater, polluted water, air, steam, oil products, petroleum products, oils, acids, bases, salts, aggressive chemical substances
	AISI316 + grafit	425°C	
	2205 + grafit	310°C	Water, contaminated water, air, steam, oils, petroleum products, oils, weak acids and bases, aggressive chemical substances, seawater, salts
	Metal	600°C	
Body	A216 WCB	-29°C ... +425°C	Water, steam, petroleum products
	AISI304	-196°C ... +600°C	Chemically aggressive environments, mineral oils and greases, gasoline, hot water, abrasive media
	AISI316		Chemically aggressive media, mineral oils and greases, gasoline, hot water
	AISI316Ti		Chemically aggressive media, petroleum products, petroleum products
	AISI904L		Chemically aggressive media, petroleum products, petroleum products
	LCB	-45°C ... +340°C	Water, steam, petroleum products, gas
Disc	A216 WCB	-29°C ... +425°C	Water, steam, petroleum products
	AISI304	-196°C ... +600°C	Chemically aggressive media, mineral oils and fats, gasoline, hot water, abrasive media
	AISI316		Chemically aggressive media, mineral oils and fats, gasoline, hot water
	AISI316Ti		Chemically aggressive media, phosphoric acid, petroleum products
	AISI904L		Chemically aggressive media, phosphoric acid, petroleum products
	LCB	-45°C ... +340°C	Water, steam, petroleum products, gas

Possible to be made from other materials according to the technical requirements of the customer.

BUTTERFLY VALVES

Nominal diameter: **DN400 ... DN2000**

Nominal pressure: **PN10 ... PN16**

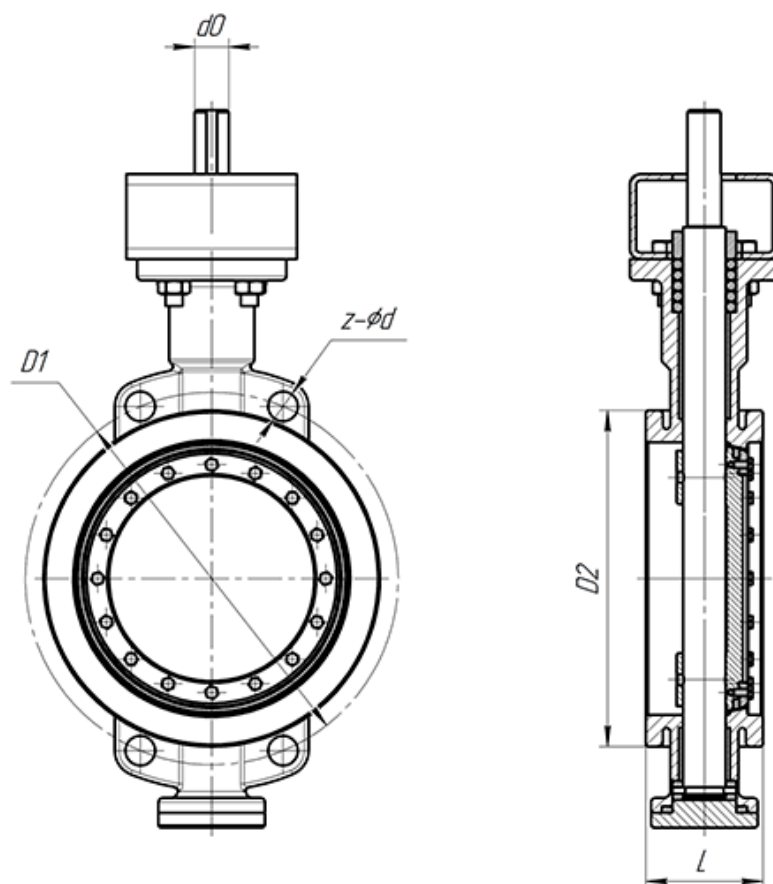


Table of connection sizes

DN, mm	PN, MPa (Bar)	L, mm	D1, mm	D2, mm	n- Ød	ISO 5211	d0, mm
80	1,6 (16)	64	160	138	8-Ø18	F07	16
100		64	180	158	8-Ø18	F07	18
125		70	210	188	8-Ø18	F10	22
150		76	240	212	8-Ø22	F10	25
200		89	295	268	12-Ø22	F10	25
250		114	355	320	12-Ø26	F12	35
300		114	410	378	12-Ø26	F12	35
350		127	470	438	16-Ø24	F14	45
400		140	525	490	16-Ø27	F16	50
450		152	585	550	20-Ø27	F16	50

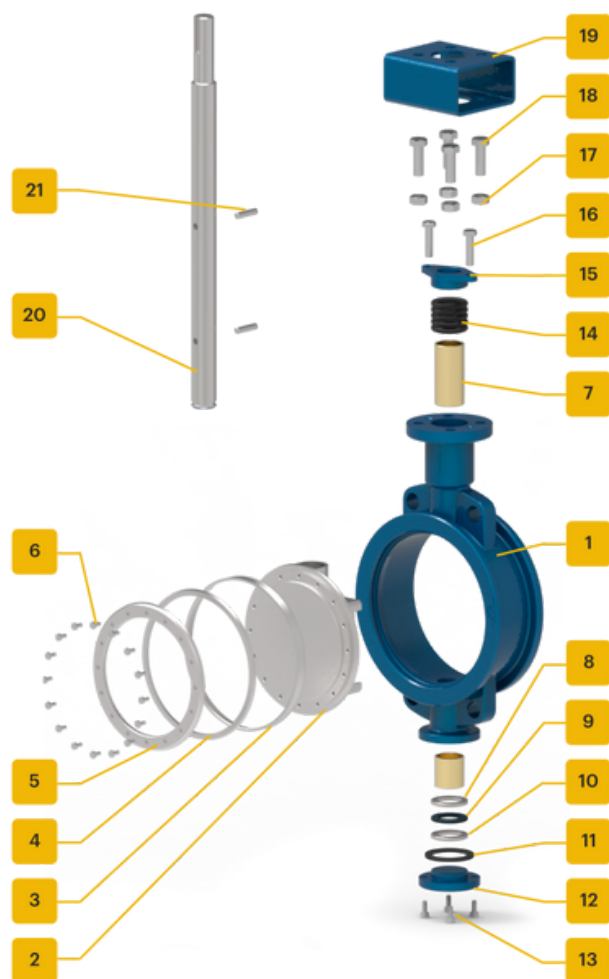
Characteristics for PN6, PN10, PN25, PN40, PN63, PN100 by request.

Butterfly valves can be supplied with an electric actuator or with a platform for an electric drive. In such a case, the attachment platform for the electric drive will be made according to the ISO 5211 standard

BUTTERFLY VALVES

Nominal diameter: **DN400 ... DN2000**

Nominal pressure: **PN10 ... PN16**



Nº Name

- 1 Body
- 2 Disc
- 3 Body's seal
- 4 Disk's seal
- 5 Seal Clamp Plate
- 6 Screw
- 7 Bushing
- 8 Locking ring
- 9 Sealing ring
- 10 Locking ring
- 11 Sealing ring
- 12 Bottom cover
- 13 Bolt
- 14 Body gasket
- 15 Cover gasket
- 16 Bolt
- 17 Nut
- 18 Bolt
- 19 Mounting platform
- 20 Stem
- 21 Wedge

BUTTERFLY VALVES

MODEL : 307

NOMINAL DIAMETER	DN50 to DN1200
NOMINAL PRESSURE	PN10 to PN16
PURPOSE	Control and shut-off
CONNECTION'S TYPE	Flanszowe, wafer
OPERATING TEMPERATURE OF THE ENVIRONMENT	from -60°C to +180°C
OPERATING MEDIA	Sulfuric acid, nitric acid, chromic acid, acetic acid, hydrochloric acid, phosphoric acid, and other acids



FEATURES OF THE MODEL

- » High chemical resistance of the sealing and disc to chemically aggressive operating media
- » Disassemblable housing
- » Sealing class "A"

EQUIPPED WITH VARIOUS TYPES OF CONTROL:

Manual (handle), manual gearbox, pneumatic actuator, electric actuator, depending on the technical specifications of the customer.

MATERIALS OF THE MAIN COMPONENTS

Name	Materials	Operating media temperature	Notes
Seal	PTFE	-60°C ... +180°C	Sulfuric acid, nitric acid, chromic acid, acetic acid, hydrochloric acid, and other acids
	FEP	-60°C ... +150°C	
	PO	-60°C ... +100°C	Phosphoric acid, nitric acid, hydrochloric acid, and other acids
	PFA	-60°C ... +180°C	Sulfuric acid, nitric acid, chromic acid, acetic acid, hydrochloric acid, and other acids
Body	AISI316	-60°C ... +180°C	-
	AISI304		
	A216 WCB	-29°C ... +180°C	
Disc	AISI316 + PTFE/FEP/PO/PFA	-60°C ... +180°C	Sulfuric acid, nitric acid, chromic acid, acetic acid, hydrochloric acid, and other acids
	AISI304 + PTFE/FEP/PO/PFA		
	A216 WCB + PTFE/FEP/PO/PFA	-29°C ... +180°C	

Possible to be made from other materials according to the technical requirements of the customer.

BUTTERFLY VALVES

Nominal diameter: **DN50 ... DN1200**

Nominal pressure: **PN10 ... PN16**

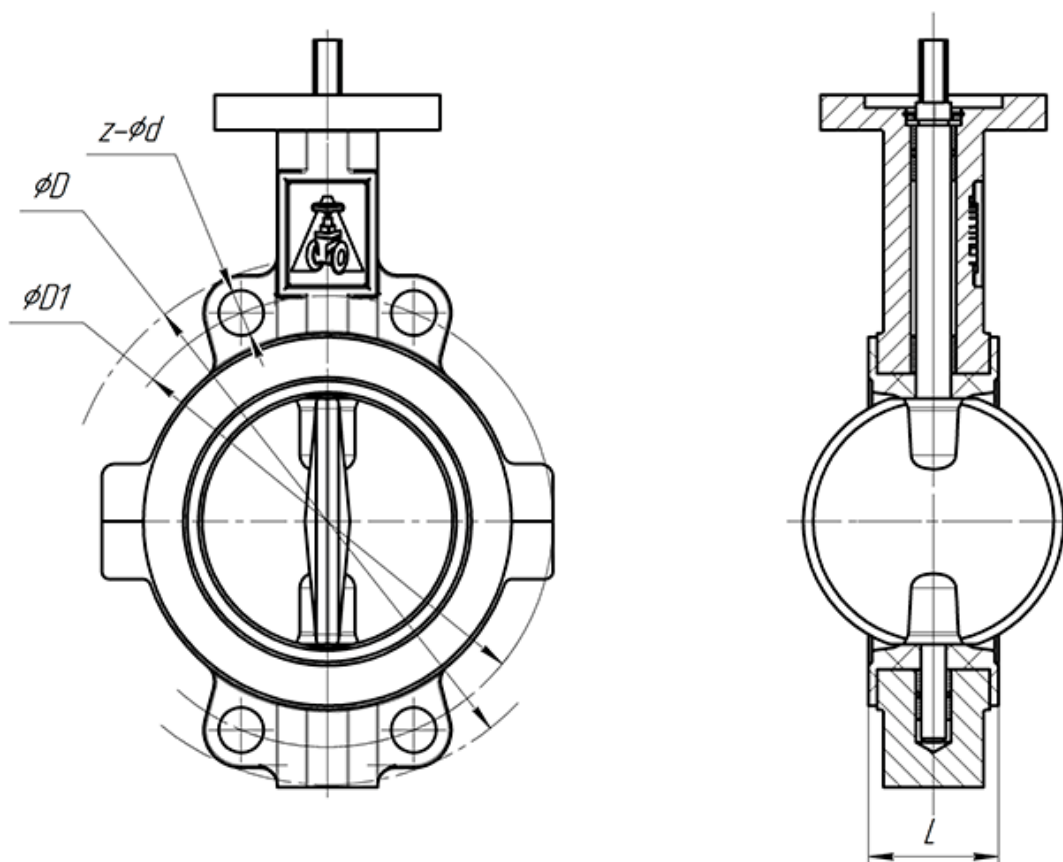


Table of connection sizes

DN, mm	PN, MPa (Bar)	L, mm	D1, mm	D, mm	n- Ød
50	1,6 (16)	43	125	160	4-Ø18
65		46	145	180	4-Ø18
80		46	160	195	8-Ø18
100		52	180	215	8-Ø18
125		56	210	245	8-Ø18
150		56	240	280	8-Ø23
200		60	295	335	12-Ø27
250		68	355	405	12-Ø27
300		78	410	460	12-Ø27
350		78	470	520	16-Ø27
400		102	525	580	16-Ø30
450		114	585	640	20-Ø30

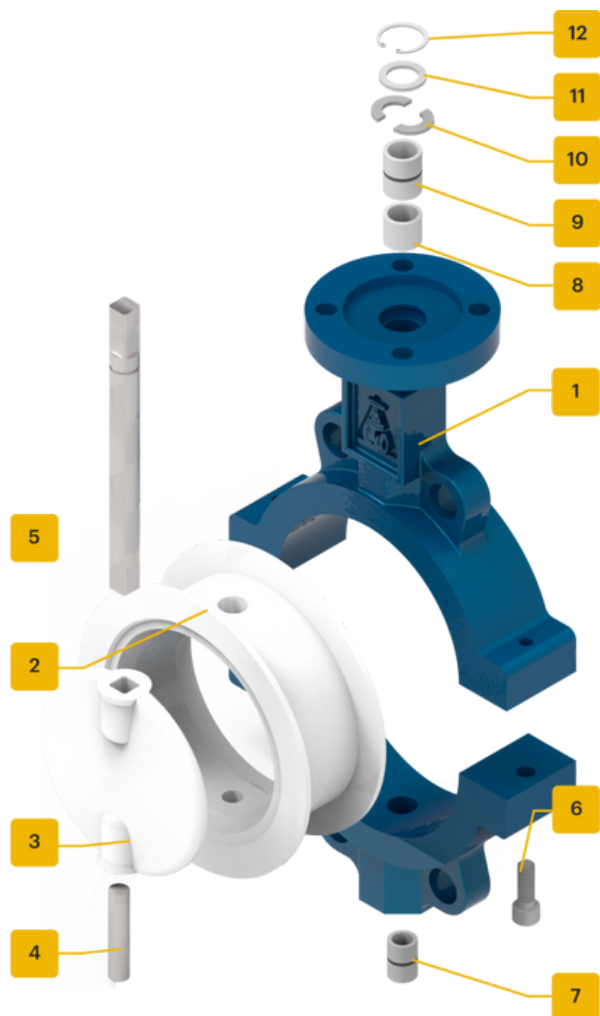
Characteristics DN500 ... DN1200 by request

Butterfly valves can be supplied with an electric actuator or with a platform for an electric drive. In such a case, the attachment platform for the electric drive will be made according to the ISO 5211 standard

BUTTERFLY VALVES

Nominal diameter: **DN50 ... DN1200**

Nominal pressure: **PN10 ... PN16**



N^o Name

- 1 Body
- 2 Seal
- 3 Disc
- 4 Lower stem
- 5 Upper stem
- 6 Bolt
- 7 Lower bushing
- 8 Upper bushing
- 9 Mechanical seal
- 10 Locking ring
- 11 Gasket
- 12 Retaining ring

BUTTERFLY VALVES

MODEL : 308

NOMINAL DIAMETER	DN50 to DN300
NOMINAL PRESSURE	0,3 to 0,7 MPa
PURPOSE	flanged
CONNECTION'S TYPE	flanged
OPERATING TEMPERATURE OF THE ENVIRONMENT	from -60°C to +180°C
OPERATING MEDIA	water, acid and alkali solutions, air, chemically aggressive media



FEATURES OF THE MODEL

- » Shortened face-to-face length
- » Light construction
- » Replaceable saddle seal

EQUIPPED WITH VARIOUS TYPES OF CONTROL

Manual (handle), manual gearbox, pneumatic actuator, electric actuator, depending on the technical specifications of the customer

MATERIALS OF THE MAIN COMPONENTS

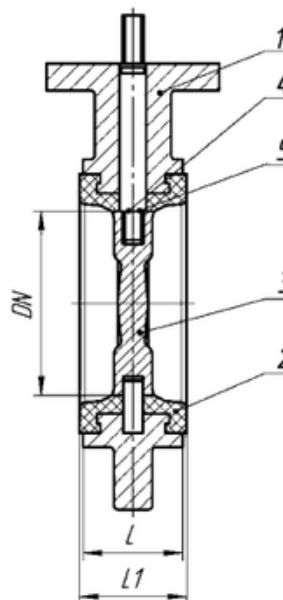
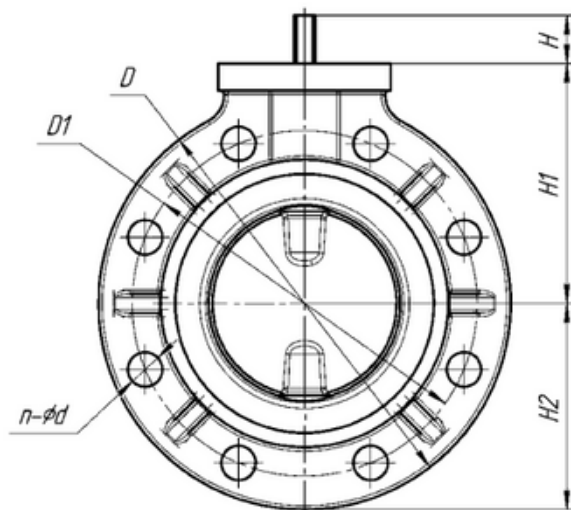
Name	Material	Operating media temperature	Notes
Body, disc	UPVC	-40°C ... +200°C	Water, weak acid and alkali solutions, air, overheated water
	PVDF	-15°C ... +140°C	
	PP	-15°C ... +140°C	
Seal	EPDM	-60°C ... +180°C	-
	VITON	-29°C ... +180°C	

Possible to be made from other materials according to the technical requirements of the customer.

BUTTERFLY VALVES

Nominal diameter: **DN50 ... DN350**

Nominal pressure: **PN10 ... PN16**



- 1 - Body
- 2 - Seal
- 3 - Disc
- 4 - O-ring Seal
- 5 - O-ring Seal

Table of connection sizes

DIN											
DN, mm	Dn, mm	D1, mm	D, mm	n- Ød	L	L1	H1	H2	H	MPa, obudowa	PN, MPa (Bar)
50	57	125	160	4-Ø18	35	42	83	102	61	1,50	0,7
65	72	145	184	4-Ø18	37	46	92	110	61	1,50	0,7
80	80	160	200	8-Ø18	37	46	100	118	61	1,50	0,7
100	102	180	230	8-Ø18	47	56	115	134	61	1,50	0,6
125	130	210	254	8-Ø18	57	70	127	160	61	1,50	0,5
150	153	240	290	8-Ø23	62	71	145	177	71	1,50	0,5
200	203	295	337	8-Ø23	76	87	168	204	71	1,50	0,4
250	255	350	400	12-Ø23	96	111	200	235	71	1,50	0,3
300	312	400	483	12-Ø23	116	132	239	289	71	1,05	0,3
350	358	460	520	12-Ø23	116	132	259	305	71	1,05	0,3

Butterfly valves can be supplied with an electric actuator or with a platform for an electric drive. In such a case, the attachment platform for the electric drive will be made according to the ISO 5211 standard

BALL VALVES

MODEL : 421

NOMINAL DIAMETER	DN25 to DN500
NOMINAL PRESSURE	PN10 to PN63
PURPOSE	control and shut-off
CONNECTION'S TYPE	flanged, wafer
OPERATING TEMPERATURE OF THE ENVIRONMENT	from -29°C to +350°C
OPERATING MEDIA	water, steam, heated water, phosphoric and sulfuric acid, pulp, cellulose, petroleum products, chemically aggressive media



FEATURES OF THE MODEL

- » V-shaped segment with a wide selection of abrasion-resistant coatings
- » Equal percentage control characteristic
- » Repairability (possibility of replacing seals, packing, segment)
- » Possibility of manufacturing a segment valve with splined connection of the segment to the stems
- » Low torque
- » Small face-to-face length

EQUIPPED WITH VARIOUS TYPES OF CONTROL

Manual (handle), manual gearbox, pneumatic actuator, electric actuator depending on the technical specifications of the customer's assignment

MATERIALS OF THE MAIN COMPONENTS

Name	Material	Operating media temperature	Notes
Seal	PCTFE/PTFE	-29°C ... +120°C	Water, steam, heated water, phosphoric and sulfuric acid, pulp, petroleum products, chemically aggressive media
	PEEK/PTFE	-29°C ... +150°C	
	PEEK/grafit	-29°C ... +240°C	
	DEVILON/PTF	-29°C ... +120°C	
	AISI904L AISI304 AISI316 AISI904L AISI316Ti + (STELLITE / TUNGSTEN CARBIDE / PERMANENT COATING) / grafit	-29°C ... +350°C/ -29°C ... +150°C	Water, steam, heated water, pulp, cellulose, petroleum products, chemically aggressive media
Body	A216 WCB	-29°C ... +350°C	Water, steam, heated water, petroleum products
	AISI304		Water, steam, heated water, pulp, petroleum products, chemically aggressive media
	AISI316		Water, steam, heated water, phosphoric and sulfuric acid, pulp, petroleum products, chemically aggressive media
	AISI904L		
	AISI316Ti		
Segment	AISI304 AISI316 AISI904L AISI316Ti	-29°C ... +350°C	Water, steam, heated water, pulp, petroleum products, chemically aggressive media
			Water, steam, heated water, phosphoric and sulfuric acid, pulp, petroleum products, chemically aggressive media

BALL VALVES

Nominal diameter: **DN25 ... DN500**

Nominal pressure: **PN10 ... PN63**

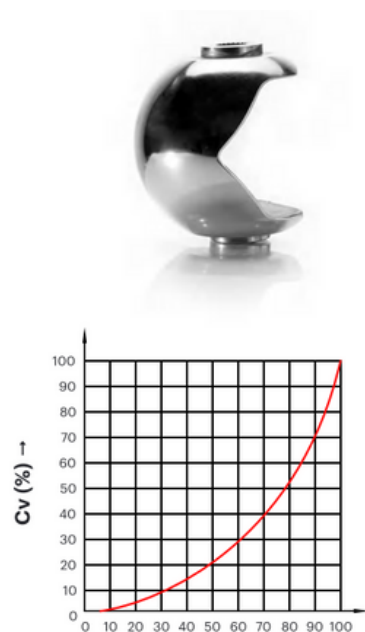
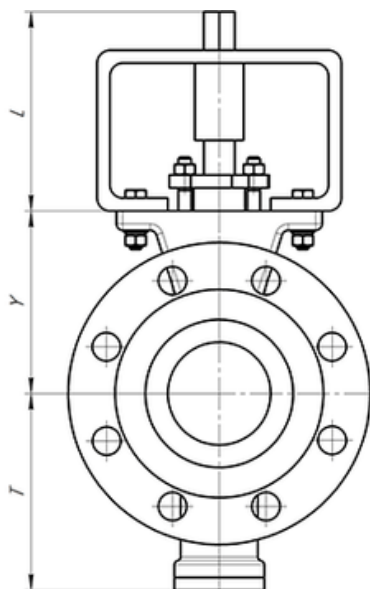
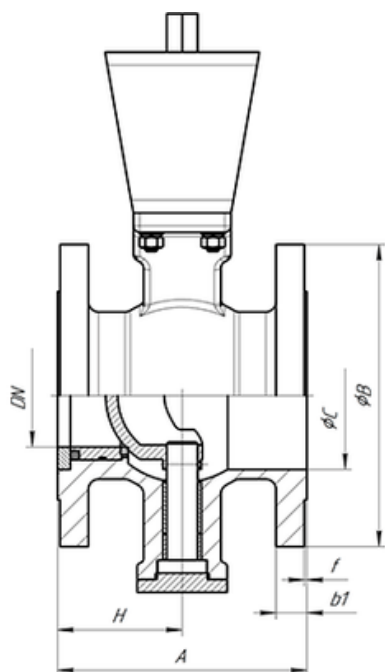


Table of connection sizes

DN, mm	PN, MPa (Bar)	L, mm	D, mm	b, mm	h, mm	C, mm	H1, mm	H2, mm	H, mm	W, mm	Torque, N*m	
											Metallic seal	Soft seal
25	1,6 (16)	102	115	16	2	38	81	73	75	35	20	20
32		102	140	18	2	45	86	78	75	35	25	25
40		114	150	18	2	50	90	80	75	35	30	30
50		124	165	20	2	62	93	90	75	35	35	35
65		145	185	20	2	73	108	105	75	35	50	50
80		165	200	20	2	90	123	118	75	35	60	80
100		194	220	22	2	115	138	130	75	35	80	120
125		194	250	22	2	134	148	145	80	40	110	180
150		229	285	24	2	164	170	170	94	50	170	300
200		243	340	24	2	206	200	201	94	50	240	500
250		297	405	26	2	260	240	237	98	60	430	900
300		338	460	28	2	316	286	282	98	60	600	1400
350		400	520	30	2	372	330	337	125	60	1200	2000
400		400	580	32	2	420	367	372	172	80	1800	3200
450		520	640	40	2	470	422	432	172	190	3000	4500
500		600	715	44	2	516	490	498	180	190	4600	6500

Characteristics for PN10, PN25, PN40, PN63 available upon request.

Ball valves can be supplied with an electric actuator or with a platform for an electric drive. In such a case, the attachment platform for the electric drive will be made according to the ISO 5211 standard

BALL VALVES

MODEL : 408

NOMINAL DIAMETER	DN25 to DN250
NOMINAL PRESSURE	PN16 to PN63
PURPOSE	shut-off the flow of the working medium
CONNECTION'S TYPE	flanged, wafer
OPERATING TEMPERATURE OF THE ENVIRONMENT	from -60°C to +240°C
OPERATING MEDIA	water, steam, heated water, dilute acid and alkali solutions, petroleum products, gas, chemically aggressive media, high-temperature media



FEATURES OF THE MODEL

» Disassemblable (body) housing

» Full-bore design

EQUIPPED WITH VARIOUS TYPES OF CONTROL

manual (handle), manual gearbox, pneumatic actuator, electric actuator, depending on the technical specifications of the customer

MATERIALS OF THE MAIN COMPONENTS

Nazwa	Materiał	Temperatura środowiska	Uwagi
Seal	PTFE	-60°C ... +200°C	Water, steam, heated water, weak acid and alkali solutions, petroleum products, gas, chemically aggressive media
	RPTFE		
	PEEK	-60°C ... +240°C	Water, steam, heated water, weak acid and alkali solutions, petroleum products, gas, chemically aggressive media, high-temperature media
Body	A216 WCB	-35°C ... +200°C	Water, steam, heated water, weak acid and alkali solutions, petroleum products, gas, chemically aggressive media, high-temperature media
	AISI304	-60°C ... +200°C	
	AISI316		
Ball (sphere)	AISI304	-60°C ... +240°C	Water, steam, heated water, weak acid and alkali solutions, petroleum products, gas, chemically aggressive media, high-temperature media
	AISI316		

Possible to be made from other materials according to the technical requirements of the customer.

BALL VALVES

Nominal diameter: **DN15 ... DN250**

Nominal pressure: **PN16 ... PN63**

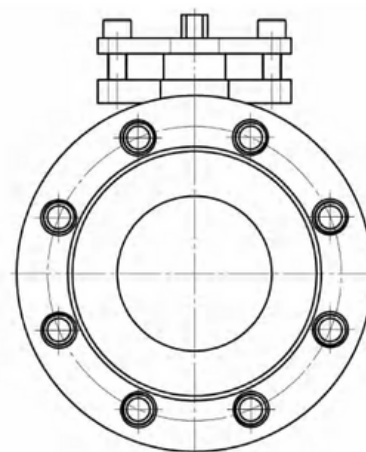
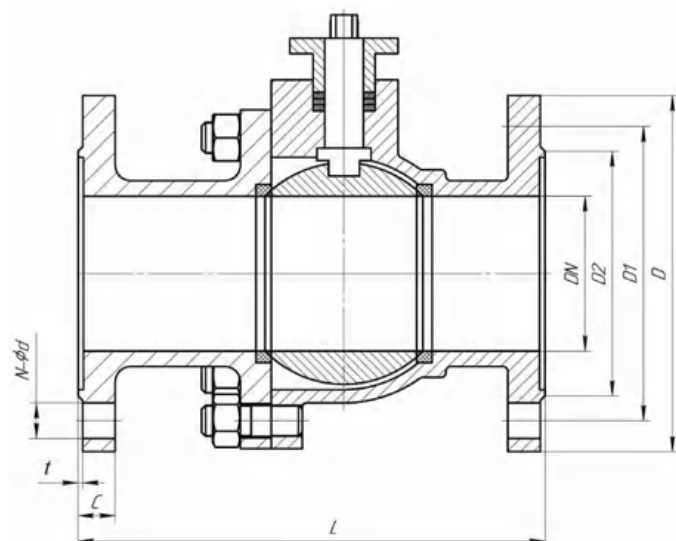


Table of connection sizes

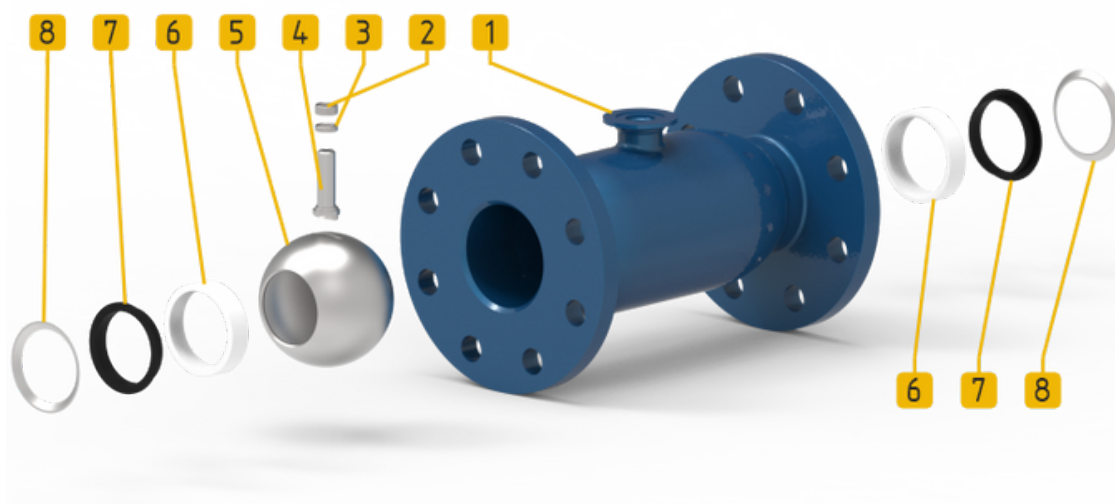
DN, mm	PN, MPa (Bar)	L, mm	D, mm	D1, mm	D2, mm	h, mm	b, mm	n- Ød
15	1,6 (16)	130	95	65	47	2	14	4-Ø14
20		130	105	75	58	2	16	4-Ø14
25		140	115	85	68	2	18	4-Ø14
32		165	140	100	78	2	18	4-Ø18
40		165	150	110	88	3	20	4-Ø18
50		203	165	125	102	3	22	4-Ø18
65		222	185	145	122	3	24	4-Ø18
80		241	200	160	133	3	24	8-Ø18
100		280	220	180	158	3	26	8-Ø18
125		320	250	210	184	3	28	8-Ø18
150		360	285	240	212	3	28	8-Ø23
200		457	340	295	268	3	30	12-Ø23
250		533	405	355	320	3	31	12-Ø25

Ball valves can be supplied with an electric actuator or with a platform for an electric drive. In such a case, the attachment platform for the electric drive will be made according to the ISO 5211 standard

BALL VALVES

Nominal diameter: **DN15 ... DN250**

Nominal pressure: **PN16 ... PN63**



Nº	Name
1	Body
2	Bushing
3	Piston seal ring
4	Stem
5	Ball
6	Saddle seal
7	Sealing ring
8	Disc spring

- | | |
|---|------------------|
| 1 | Body |
| 2 | Bushing |
| 3 | Piston seal ring |
| 4 | Stem |
| 5 | Ball |
| 6 | Saddle seal |
| 7 | Sealing ring |
| 8 | Disc spring |

GLOBE VALVES

MODEL : 601

NOMINAL DIAMETER	DN15 to DN500
NOMINAL PRESSURE	PN16 to PN420
PURPOSE	used as a shut-off valve
OPERATING ENVIRONMENT TEMPERATURE	from -196°C to +540°C
OPERATING MEDIA	liquid aggressive and non-aggressive , petroleum products, alkalis, acids, steam, water, etc.



FEATURES OF THE MODEL

- » Forged valve for high-pressure application
- » Extended and ribbed bonnet construction for cryogenic and high temperature application
- » A wide selection of body materials, sealing materials, and sealing inserts

MATERIALS OF THE MAIN COMPONENTS

Name	Material	Operating media temperature	Notes
Body	WCB	-29C...+425C	Water, steam, non-aggressive media
	WC6	-30C...+595C	Water, high-temperature steam, non-aggressive media
	LCB	-46C...+345C	Water, steam, non-aggressive media (can be used in low ambient temperature conditions)
	LC1	-60C...+340C	
	AISI304	-60C...+540C	Water, steam, aggressive media (depends on exact material grade)
	AISI316	-60C...+540C	
	AISI904L	-60C...+400C	Chemically aggressive media (phosphoric acid, sulphuric acid, etc.)
Plug/disc	WCB	-29C...+425C	Water, steam, non-aggressive media
	WC6	-30C...+595C	Water, high-temperature steam, non-aggressive media
	LCB	-46C...+345C	Water, steam, non-aggressive media (can be used in low ambient temperature conditions)
	LC1	-60C...+340C	
	AISI304	-60C...+540C	Water, steam, aggressive media (depends on exact material grade)
	AISI316	-60C...+540C	
	AISI904L	-60C...+400C	Chemically aggressive media (phosphoric acid, sulphuric acid, etc.)

GLOBE VALVES

Nominal diameter: **DN15 ... DN500**

Nominal pressure: **PN16 ... PN420**

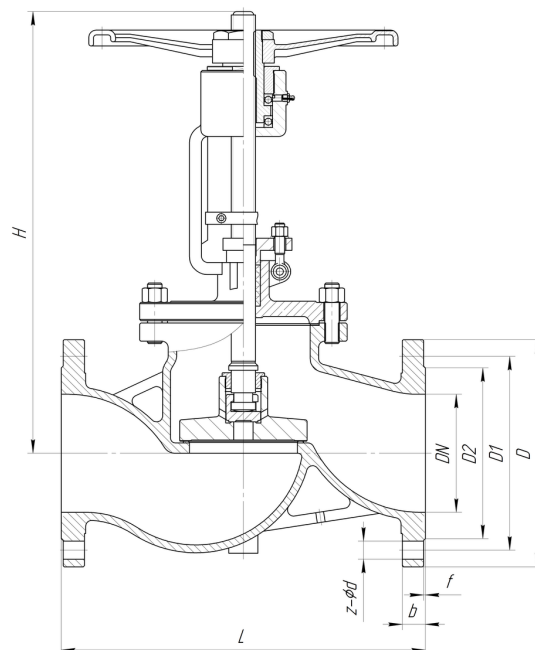


Table of connection sizes

DN, mm	PN, MPa (Bar)	Dimensions, mm							
		D	D1	D2	H	L	b	f	Z - Ød
15	1,6 (16)	95	65	47	*Can be provided by request	130	14	2	4-14
20	1,6 (16)	105	75	58		150	14	2	4-14
25	1,6 (16)	115	85	68		160	14	2	4-14
32	1,6 (16)	135	100	78		180	16	2	4-18
40	1,6 (16)	145	110	88		200	16	3	4-18
50	1,6 (16)	160	125	102		230	16	3	4-18
65	1,6 (16)	180	145	122		290	18	3	4-18
80	1,6 (16)	195	160	133		310	20	3	4-18
100	1,6 (16)	215	180	158		350	20	3	8-18
125	1,6 (16)	245	210	184		400	22	3	8-18
150	1,6 (16)	280	240	212		480	24	3	8-22
200	1,6 (16)	335	295	268		600	26	3	12-22
250	1,6 (16)	405	355	320		650	30	3	12-26
300	1,6 (16)	460	410	370		750	30	4	12-26
350	1,6 (16)	520	470	430		850	34	4	16-26
400	1,6 (16)	580	525	482		980	36	4	16-30
450	1,6 (16)	640	585	532		1100	40	4	20-30
500	1,6 (16)	715	650	585		1150	44	4	20-33

GATE VALVES

MODEL : 502

NOMINAL DIAMETER	DN40 to DN1200
NOMINAL PRESSURE	PN6 to PN100
PURPOSE	used as a shut-off valve
OPERATING ENVIRONMENT TEMPERATURE	from -196°C to +540°C
OPERATING MEDIA	liquid aggressive and non-aggressive , petroleum products, alkalis, acids, steam, water, etc.



FEATURES OF THE MODEL

- » Forged valve for high-pressure application
- » Extended and ribbed bonnet construction for cryogenic and high temperature application
- » A wide selection of body materials, sealing materials, and sealing inserts
- » Solid and flexible wedge

MATERIALS OF THE MAIN COMPONENTS

Name	Material	Operating media temperature	Notes
Body	WCB	-29C...+425C	Water, steam, non-aggressive media
	WC6	-30C...+595C	Water, high-temperature steam, non-aggressive media
	LCB	-46C...+345C	Water, steam, non-aggressive media (can be used in low ambient temperature conditions)
	LC1	-60C...+340C	
	AISI304	-60C...+540C	Water, steam, aggressive media (depends on exact material grade)
	AISI316	-60C...+540C	
	AISI904L	-60C...+400C	Chemically aggressive media (phosphoric acid, sulphuric acid, etc.)
Wedge	WCB	-29C...+425C	Water, steam, non-aggressive media
	WC6	-30C...+595C	Water, high-temperature steam, non-aggressive media
	LCB	-46C...+345C	Water, steam, non-aggressive media (can be used in low ambient temperature conditions)
	LC1	-60C...+340C	
	AISI304	-60C...+540C	Water, steam, aggressive media (depends on exact material grade)
	AISI316	-60C...+540C	
	AISI904L	-60C...+400C	Chemically aggressive media (phosphoric acid, sulphuric acid, etc.)

GATE VALVES

Nominal diameter: **DN40 ... DN1200**

Nominal pressure: **PN6 ... PN100**

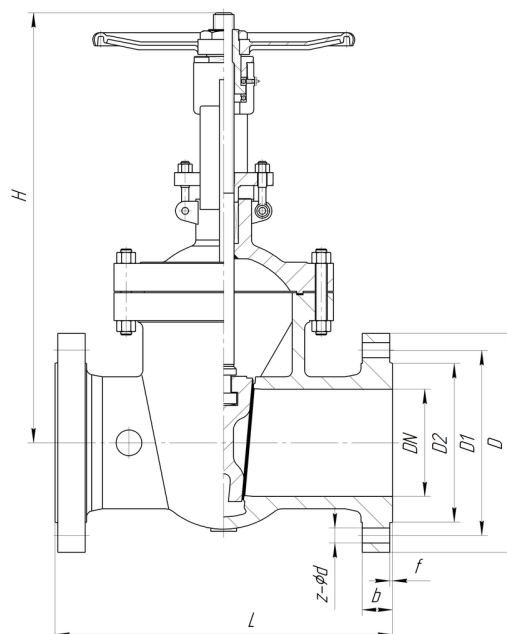


Table of connection sizes

DN, mm	PN, MPa (Bar)	Dimensions, mm							
		D	D1	D2	H	L	b	f	Z - Ød
50	1,6 (16)	160	125	102	*Can be provided by request	250	16	3	4-18
65	1,6 (16)	180	145	122		270	18	3	4-18
80	1,6 (16)	195	160	133		280	20	3	4-18
100	1,6 (16)	215	180	158		300	20	3	8-18
125	1,6 (16)	245	210	184		325	22	3	8-18
150	1,6 (16)	280	240	212		350	24	3	8-22
200	1,6 (16)	335	295	268		400	26	3	12-22
250	1,6 (16)	405	355	320		450	30	3	12-26
300	1,6 (16)	460	410	370		500	30	4	12-26
350	1,6 (16)	520	470	430		550	34	4	16-26
400	1,6 (16)	580	525	482		600	36	4	16-30
450	1,6 (16)	640	585	532		650	40	4	20-30
500	1,6 (16)	715	650	585		700	44	4	20-33

CHECK VALVES

MODEL : 702

NOMINAL DIAMETER	DN40 to DN600
NOMINAL PRESSURE	PN10 to PN63
PURPOSE	used for prevent reverse media flow
OPERATING ENVIRONMENT TEMPERATURE	from -60°C to +540°C
OPERATING MEDIA	liquid aggressive and non-aggressive , petroleum products, alkalis, acids, steam, water, etc.



FEATURES OF THE MODEL

- » Forged valve for high-pressure application
- » Simplicity of maintenance
- » A wide selection of body materials, sealing materials, and sealing inserts

MATERIALS OF THE MAIN COMPONENTS

Name	Material	Operating media temperature	Notes
Body	WCB	-29C...+425C	Water, steam, non-aggressive media
	WC6	-30C...+595C	Water, high-temperature steam, non-aggressive media
	LCB	-46C...+345C	Water, steam, non-aggressive media (can be used in low ambient temperature conditions)
	LC1	-60C...+340C	
	AISI304	-60C...+540C	Water, steam, aggressive media (depends on exact material grade)
	AISI316	-60C...+540C	
	AISI904L	-60C...+400C	Chemically aggressive media (phosphoric acid, sulphuric acid, etc.)
Wedge	WCB	-29C...+425C	Water, steam, non-aggressive media
	WC6	-30C...+595C	Water, high-temperature steam, non-aggressive media
	LCB	-46C...+345C	Water, steam, non-aggressive media (can be used in low ambient temperature conditions)
	LC1	-60C...+340C	
	AISI304	-60C...+540C	Water, steam, aggressive media (depends on exact material grade)
	AISI316	-60C...+540C	
	AISI904L	-60C...+400C	Chemically aggressive media (phosphoric acid, sulphuric acid, etc.)

CHECK VALVES

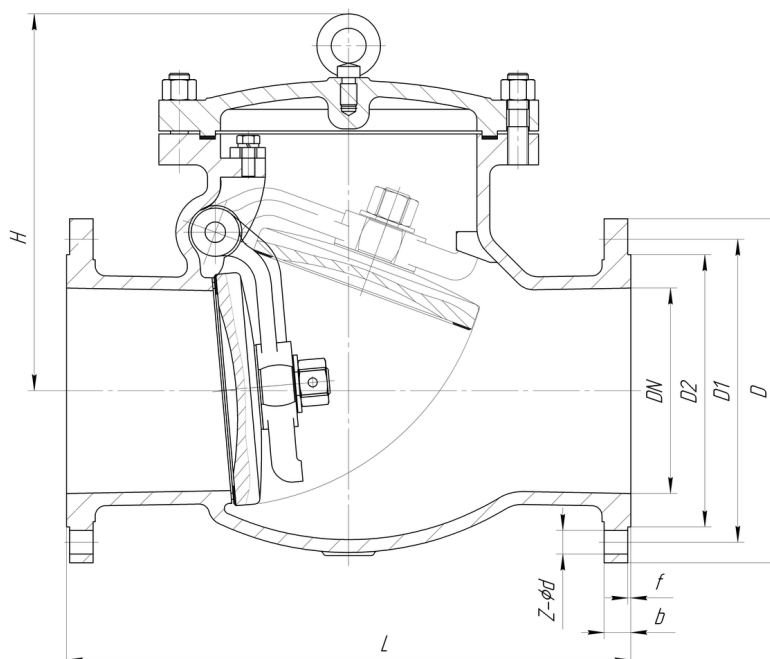
Nominal diameter: **DN40 ... DN600**Nominal pressure: **PN10 ... PN63**

Table of connection sizes

DN, mm	PN, MPa (Bar)	Dimensions, mm							
		D	D1	D2	H	L	b	f	Z - Ød
50	1,6 (16)	160	125	102	*Can be provided by request	230	16	3	4-18
65	1,6 (16)	180	145	122		290	18	3	4-18
80	1,6 (16)	195	160	133		310	20	3	4-18
100	1,6 (16)	215	180	158		350	20	3	8-18
125	1,6 (16)	245	210	184		400	22	3	8-18
150	1,6 (16)	280	240	212		480	24	3	8-22
200	1,6 (16)	335	295	268		550	26	3	12-22
250	1,6 (16)	405	355	320		650	30	3	12-26
300	1,6 (16)	460	410	370		750	30	4	12-26
350	1,6 (16)	520	470	430		850	34	4	16-26
400	1,6 (16)	580	525	482		950	36	4	16-30

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