

01.	STRAIGHT PATTERN STOP VALVES PN 40 DN 15 - 250 for general application with control disc for general application for petroleum products for naval application	ZPZ 1 ZPR 1 ZFZ 1 ZMZ 1
02.	STRAIGHT PATTERN STOP VALVES PN 40 DN 15 - 250 for electric actuator for general application with control disc for general application	ZPZ 2 ZPR 2
03.	STRAIGHT PATTERN STOP VALVES PN 40 DN 15 - 80 for pneumatic actuator	ZPZ 1P
04.	STRAIGHT PATTERN STOP VALVES WITH BELLOWS PN 40 DN 15 - 200 for general application with control disc for general application	ZPM 2Z ZPM 2R
05.	STRAIGHT PATTERN STOP VALVES PN 40 DN 15 - 100 made of acid resisting materials	ZAZ 1
06.	ANGLE PATTERN STOP VALVES PN 40 DN 15 - 250 for general application with control disc for general application for petroleum products for naval application	ZCZ 1 ZCR 1 ZEZ 1 ZDZ 1
07.	STRAIGHT PATTERN STOP VALVES PN 160 DN 10 - 50 stop type stop type with control disc	ZSZ ZSR
08.	ANGLE PATTERN HIGH PRESSURE STOP AND START-UP VALVES FOR ACTUATORS PN 260 stop type start - up type	ZWK 1 ZUK 1
09.	STRAIGHT PATTERN HIGH PRESSURE STOP VALVES PN 320 DN 15 - 100 BW with handwheel with control disc and handwheel	ZWZ 1A ZWR 1A

	for actuator	ZWZ 1B
	with control disc and for actuator	ZWR 1B
10.	STRAIGHT PATTERN HIGH PRESSURE VALVES PN 180 DN 15 – 50 BW for pneumatic actuator general application	ZWZ 1P
11.	STRAIGHT PATTERN HIGH PRESSURE VALVES PN 320 DN 5/10	ZWP 1
12.	STRAIGHT PATTERN STOP VALVES WITH BELLOWS PN 40 DN 15 - 200	450 M
13.	ANGLE PATTERN FLANGED STOP VALVES W. BELLOWS PN 40 DN 15 - 25	222 M
14.	FLANGED STOP VALVES WITH BELLOWS PN 40 DN 32 - 100 STRAIGHT PATTERN AND ANGLE PATTERN	218M/222M
15.	FLANGED STOP VALVES WITH BELLOWS PN 40 DN 125 - 250 STRAIGHT PATTERN AND ANGLE PATTERN	218M/222M
16.	FLANGED STOP VALVES PN 100 DN 15 - 25	422/1
17.	BW STOP VALVES PN 100 DN 15 - 25	422 S/1
18.	FLANGED STOP VALVES PN 100 DN 32 - 80	430
19.	BW STOP VALVES PN 100 DN 32 - 80	430 S
20.	BW STOP VALVES PN 320 DN 6 - 25 OBLIQUE FORM	675
21.	BW STOP VALVES PN 500 DN 15 - 50	649
22.	BW GLOBE VALVES PN 420 DN 6 - 10 STAINLESS STEEL EXECUTION	677A

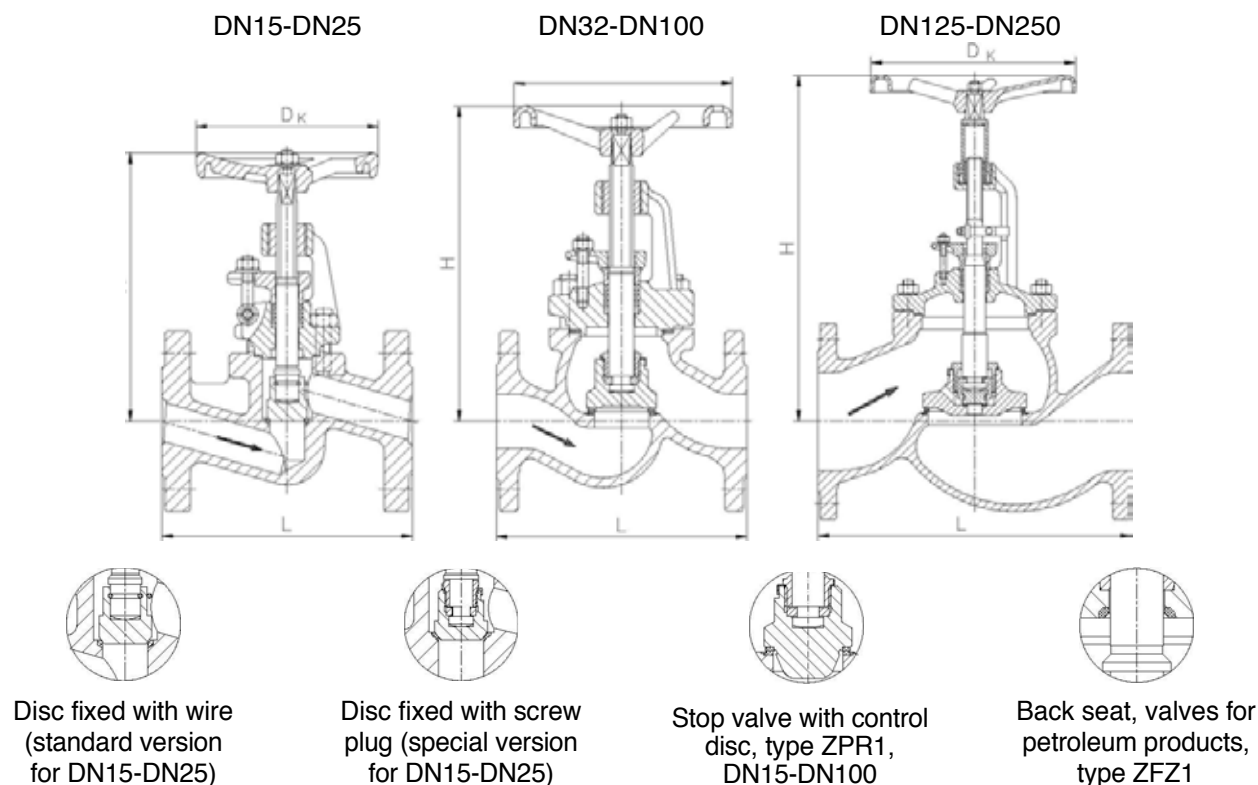
STRAIGHT PATTERN STOP VALVES PN 40

WITH HAND WHEEL FLANGED AND WITH BUTT WELDED ENDS

DN15 – DN250

The valves are designed for application in pipeline installations conducting non-aggressive and non-toxic media. They are manufactured in following versions:

- for general application: type **ZPZ1**, **ZPR1** • for petroleum products: type **ZFZ1** • for naval application: type **ZMZ1**



Maximum permissible operating temperature, TS [°C]							
20	100	150	200	250	300	350	400
Maximum permissible operating pressure, PS [bar]							
40	35	32	28,5	26	23,4	22	21,2

Materials

Body:	DN 15 ÷ 25	carbon steel
Materials:	DN 32 ÷ 250	carbon cast steel
Bonnet:	DN 15 ÷ 65 and 250	carbon steel
	DN 80 ÷ 200	carbon cast steel
Trim:	stainless steel (min.18%Cr)	
Packing:	reinforced graphite	

Dimensions and weights

DN	15	20	25	32	40	50	65	80	100	125	150	200	250
L	130	150	160	180	200	230	290	310	350	400	480	600	730
H	186	186	186	250	265	280	305	325	360	450	515	640	635
stroke	14	14	14	14	23	23	39	35	45	36	55	66	85
D _K	120	120	120	160	160	200	200	250	320	320	320	400	450
Weight /kg/	4,0 2,9*	4,3 3,4*	4,9 3,9*	11,3 8,7*	13 10*	17,7 14,2*	25,8 19,8*	35 26,5*	52 43,5*	67 57*	86 73*	151 131 *	355 305*
*) – relates to valves with buttweld ends													

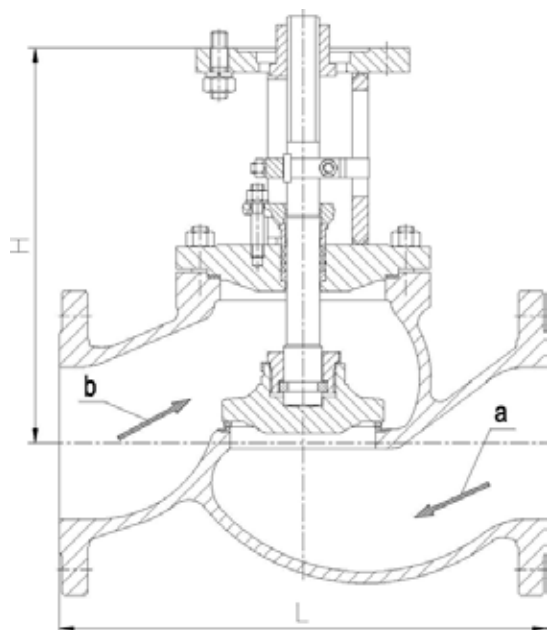
STRAIGHT PATTERN STOP VALVES PN 40

FOR ACTUATOR FLANGED AND WITH BUTT WELDED ENDS

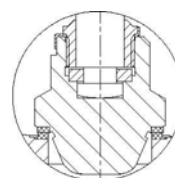
DN15 – DN250

The valves are designed for pipeline installations of non-aggressive and non-toxic media.

They are designed for general application: type **ZPZ2**, **ZPR2** /version with control disc/ and are suitable for mounting of drive – electro-mechanical actuator type NWA -1, manual operation gear type NGR or another actuator specified while ordering.



a - direction of flow for DN32-DN100
b - direction of flow for DN125-DN250



Stop valve
with control disc
type ZPR2

Maximum permissible operating temperature TS [°C]							
20	100	150	20 10	250	300	350	400
Maximum permissible operating pressure PS [bar]							
40	35	32	28,5	26	23,4	22	21,2

Materials

Body:	carbon cast steel
Bonnet:	carbon cast steel
Trim:	stainless steel (min.18%Cr)
Packing:	reinforced graphite

Dimensions and weights

DN	32	40	50	65	80	100	125	150	200	250
L	180	200	230	290	310	350	400	480	600	730
H	210	218	233	280	325	375	357	390	471	570
H _{max}	423	431	446	521	566	629	611	644	806	930
Weight	13,6	15,3	19,8	28,6	40	60	76	95	159	365
/kg/	11*	12,3*	16,6*	22,4*	32*	52*	66*	82*	139*	315*
H _{max}	- height with actuator NWA1									
*)	- relates to valves with butt weld ends									

STRAIGHT PATTERN STOP VALVES PN 40

FOR PNEUMATIC ACTUATOR FLANGED AND WITH BUTT WELD ENDS

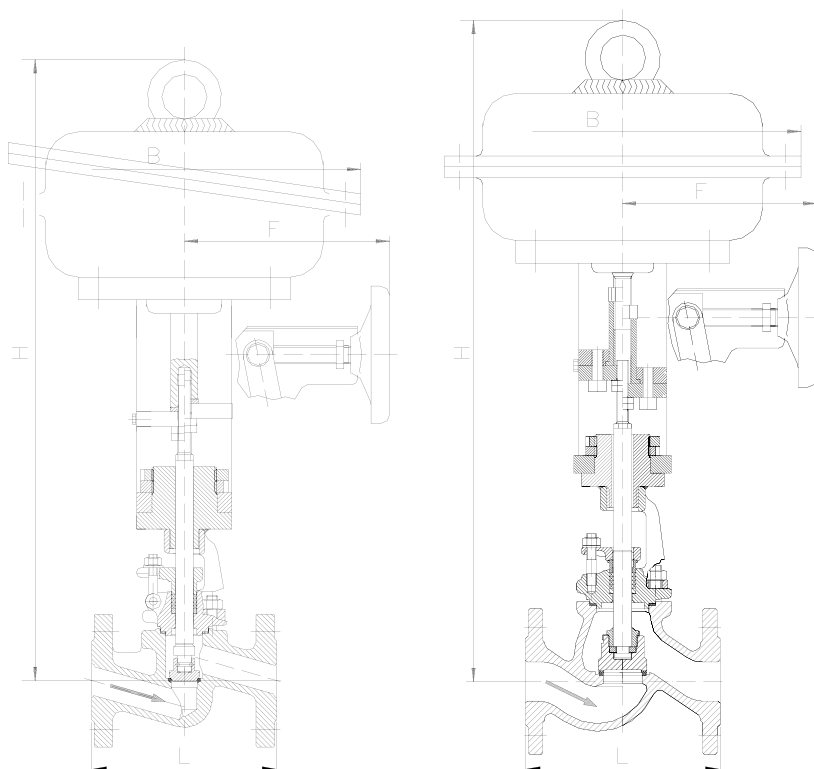
DN15 – DN80

The valves are designed for application in pipeline installations conducting non-aggressive and non-toxic media.

They are designed for general application - type **ZPZ1P**.

They are suitable for mounting of one way action pneumatic actuator type:

- R1B – springs close the valve while air pressure failure
- P1B – springs open the valve while air pressure failure



Materials

Body: DN 15 ÷ 25 carbon steel
DN 32 ÷ 80 carbon cast steel

Bonnet: DN 15 ÷ 25 carbon steel
DN 32 ÷ 80 carbon cast steel

Trim: stainless steel (min.18%Cr)

Packing: reinforced graphite

Dimensions and weights

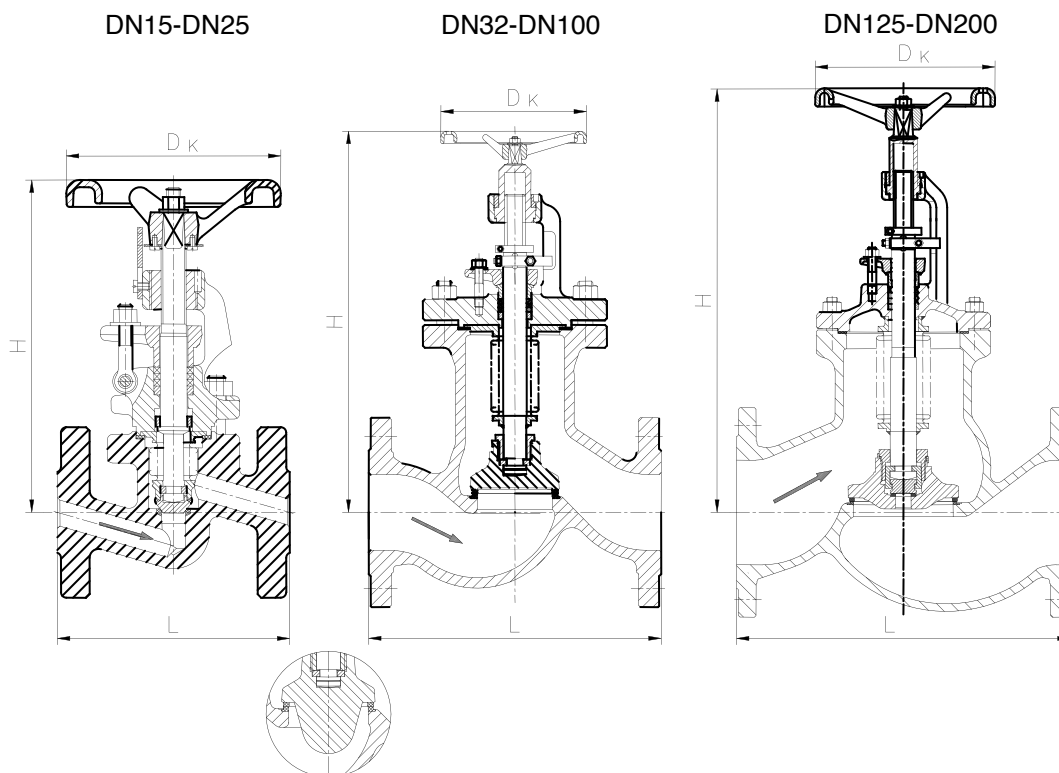
Type and size of actuator	DN	L	H	h	B	F	Weight of valve [kg]
R1B-400-20-1-57-12	15	130	598	16	305	240	5,6
P1B-400-20-1-57-12							
R1B-400-20-1-57-12	20	150	598	16	305	240	6,3
P1B-400-20-1-57-12							
R1B-400-20-1-57-12	25	160	598	16	305	240	7,3
P1B-400-20-1-57-12							
R1B-630-20-7-57-12	32	180	750	17	375	270	13,4
P1B-400-20-1-57-12			655		305	240	12,8
R1B-630-38-7-57-12	40	200	762	27	375	270	14,9
P1B-630-38-1-57-12							
R1B-1000-38-7-84-16	50	230	1010	23	480	345	21,5
P1B-630-38-1-57-16			782		375	270	18,5
R1B-1500-50-7-84-16	65	290	1092	39	550	380	30,5
P1B-630-38-1-57-16			804		375	270	27
R1B-1500-50-7-84-20	80	310	1113	35	550	380	39
P1B-1000-38-1-84-20			1053		480	345	

STRAIGHT PATTERN STOP VALVES PN 40

WITH BELLOWS WITH HANDWHEEL FLANGED AND WITH BUTT WELD ENDS
DN15 – DN200

The valves are designed for application in pipeline installations conducting non-aggressive and non-toxic media where high tightness of stuffing box is necessary. They are produced in following versions:

- stop valves for general application: type **ZPM2Z**
- stop valves with control disc for general application: type **ZPM2R**



Stop valve
with control disc,
type ZPM2R, DN15-DN100

Materials

Body:	DN 15 ÷ 25	carbon steel
	DN 32 ÷ 200	carbon cast steel
Bonnet:	DN 15 ÷ 65	carbon steel
	DN 80 ÷ 200	carbon cast steel
Trim:		stainless steel (min.18%Cr)
Packing:		reinforced graphite
Bellow:		acid resistant steel

Dimensions and weights

DN	15	20	25	32	40	50	65	80	100	125	150	200
L	130	150	160	180	200	230	290	310	350	400	480	600
H	185	185	185	320	320	390	400	460	500	525	605	715
D _K	120	120	120	160	160	200	200	250	320	320	320	400
Weight [kg]	4,1 3*	4,4 3,5*	5 4*	12,1 9,5*	13,7 10,7*	19,3 15,8*	27 21*	37,5 29*	54,5 46*	71 61*	91 78*	160 140*

*) – relates to valves with butt-welded ends

STRAIGHT PATTERN STOP VALVES PN 40

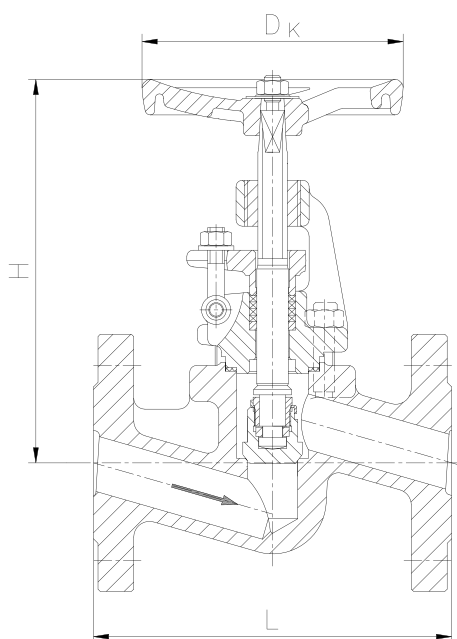
MADE OF ACID RESISTANT MATERIALS, WITH HAND WHEEL FLANGED
DN15 – DN100

The valves are designed for pipeline installations of liquid and gaseous aggressive media.

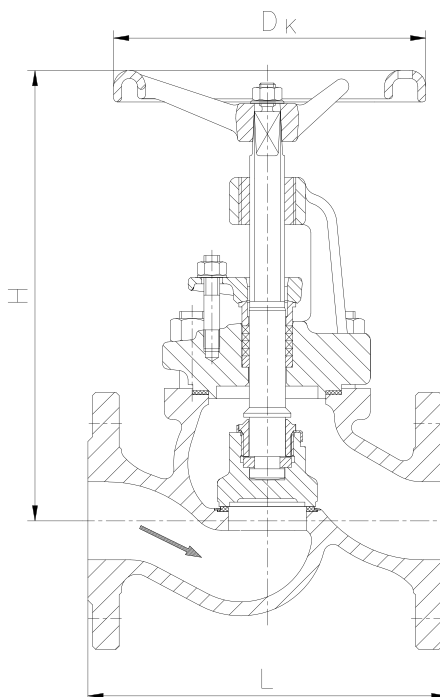
They are produced in following version:

- stop valves: type ZAZ1

DN15-DN25



DN32-DN100



Maksymalna dopuszczalna temperatura pracy TS, °C					
20	100	150	200	250	300
Maksymalne dopuszczalne ciśnienie pracy PS, bar					
40	29	27	26	24	22,4

Materials

Body:	DN 15 ÷ 25	stainless steel
	DN 32 ÷ 100	stainless cast steel
Bonnet:	DN 15 ÷ 65	stainless steel
	DN 80 ÷ 100	stainless cast steel
Trim:	integral	
Stem:	stainless steel	
Disc:	stainless steel	
Packing:	reinforced graphite	

Dimensions and weights

DN	15	20	25	32	40	50	65	80	100
L	130	150	160	180	200	230	290	310	350
H	188	188	188	250	265	280	305	325	360
stroke	12	12	12	13	15	19	24	22	30
D _k	120	120	120	160	160	200	200	250	350
Weight [kg]	4	4,3	4,9	11,3	13	17,7	25,8	35	52

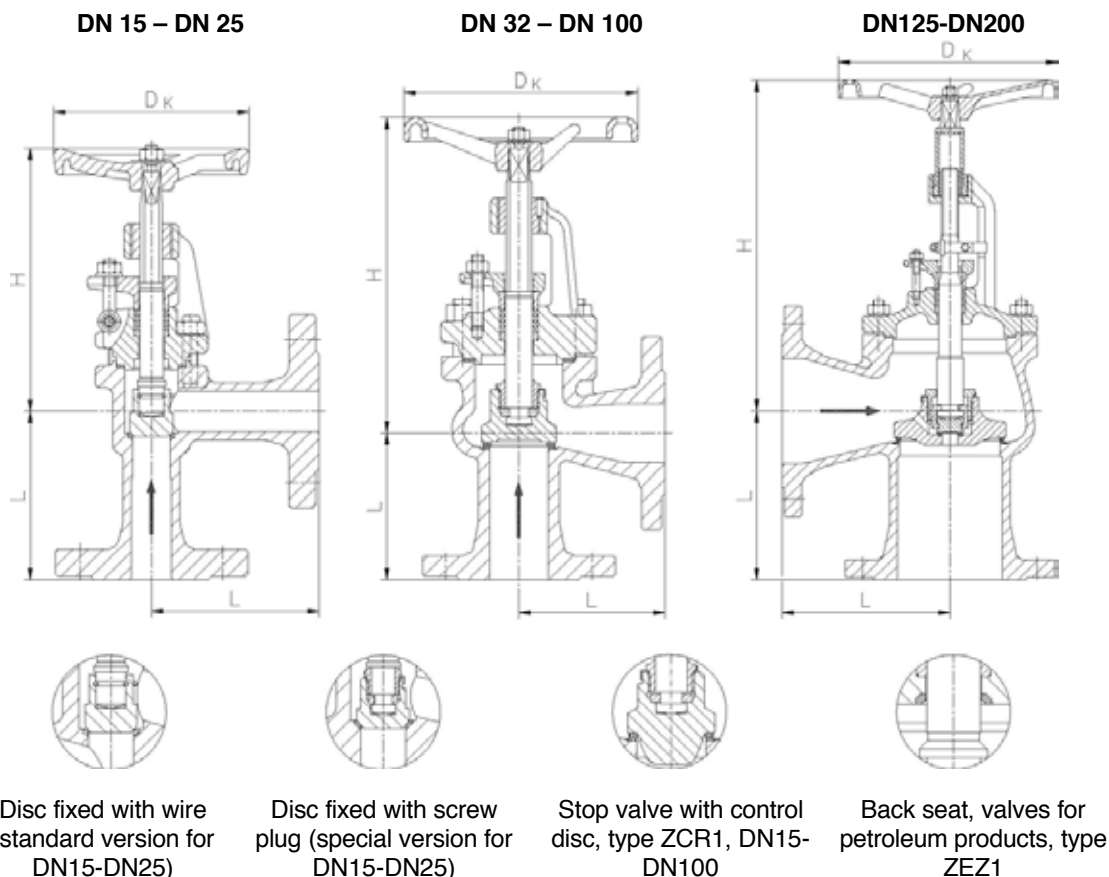
ANGLE PATTERN STOP VALVES PN 40

WITH HAND WHEEL FLANGED AND WITH BUTT WELD ENDS

DN15 – DN200

The valves are designed for application in pipeline installations conducting non-aggressive and non-toxic media. They are manufactured in following versions:

- for general application: type **ZCZ1 / ZCR1** – version with control disc
- for petroleum products: type **ZEZ1**
- for naval application: type **ZDZ1**



Materials

Body:		carbon cast steel
Bonnet:	DN 15 ÷ 65	carbon steel
	DN 80 ÷ 200	carbon cast steel
Trim:		stainless steel (min.18%Cr)
Packing:		reinforced graphite

Dimensions and weights

DN	15	20	25	32	40	50	65	80	100	125	150	200
L	90	95	100	105	115	125	145	155	175	200	225	275
H	186	186	186	250	265	280	305	325	360	450	515	640
stroke	14	14	14	14	23	23	39	35	45	36	55	66
D _K	120	120	120	160	160	200	200	250	320	320	320	400
Weight [kg]	4 2,9*	4,4 3,5*	5,1 4,1*	10,5 7,9*	12 9*	17,7 14,2*	23,8 17,8*	33,7 25,2*	50,5 42*	66 56*	77 64*	137 117*
*) – relates to valves with butt-weld ends												

STRAIGHT PATTERN STOP VALVES

FLANGED AND WITH WELDING ENDS PN160 DN10 - DN50

The valves are designed for application in pipeline installations conducting petroleum products, steam, water and other nonaggressive and non toxic liquid and gaseous media. They are manufactured in following versions:

- stop valves - type **ZSZ**
- stop valves with control disc – type **ZSR**

Operating data

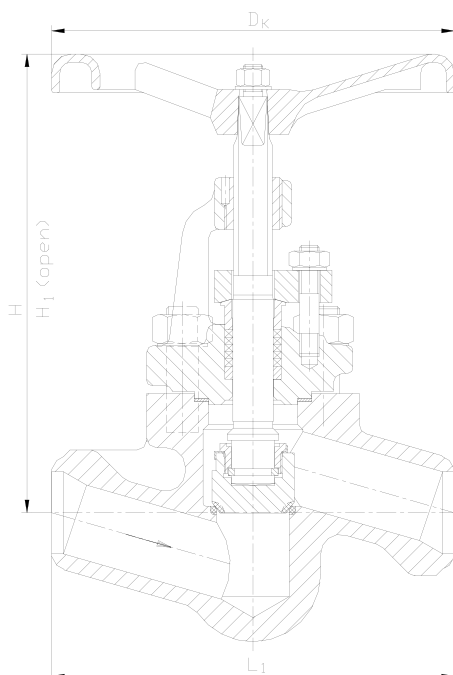
Material	Maximum permissible operating temperature, TS, °C																		
	20	100	150	200	250	300	350	400	425	450	475	500	510	520	530	540	550	560	570
	Maximum permissible operating pressure, PS, bar																		
P245GH	160	140	133	125	117	102	98	90	72	51									
16Mo3	160	160	160	160	148	129	122	114	112	110	105	71	58	47	36				
13CrMo4-5	160	160	160	160	160	148	137	129	125	122	117	103	88	72	59	47	37	29	24
11CrMo9-10	160	160	160	160	160	160	160	148	145	140	130	103	90	79	68	59	51	43	38

A. m. data are maximum permitted parameters for valves with flanges PN160.
For valves with butt welding ends, data PS and TS marked on bodies are obligatory

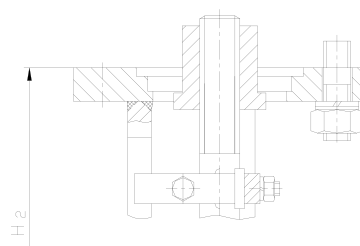
Dimensions and weights

Size		DN10	DN15	DN20	DN25	DN32	DN40	DN50
H		170	170	230	230	264	264	285
H ₁		180	180	242	242	280	280	305
H ₂		-	195			230		260
Weight [kg]	flanged	5,4	5,6	11,2	12	20,8	22,2	27,8
	welded	3,4	3,4	7	7,2	14,2	14,4	16,5
D _K		120	120	160	160	200	200	250
stem end		□ 11	□ 11	□ 13	□ 13	□ 16	□ 16	□ 17

with handwheel

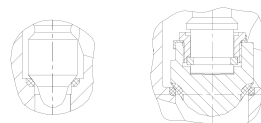


for actuator



Version with
regulating head

DN10 and DN15 DN20 to DN50



ANGLE PATTERN HIGH PRESSURE VALVES STOP AND START-UP VALVES WITH BUTT WELD ENDS

The valves are designed for pipeline installations conducting non-aggressive and non-toxic media.

They are manufactured in following versions:

- stop valves for actuator / DN 80 – DN 200 / - type **ZWK1**
- start-up valves for actuator / DN 100 / - type **ZUK1**

Operating data

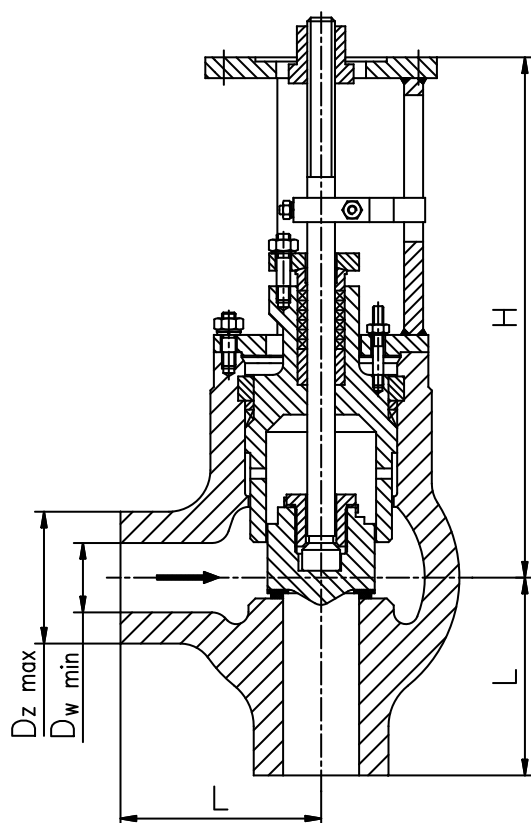
Material	Maximum permissible operating temperature, TS [°C]													
	20	250	300	350	400	425	450	480	500	510	520	530	540	545
	Maximum permissible operating pressure, PS [bar]													
GP240GH *	260	240	220	204	196	194	125							
G17CrMo5-5 *			260	260	260	250	240	200	147	112				
G17CrMoV5-10 *									240	240	235	207	183	142
13HMF **									265	265	265	150	218	205

Notes : *) - relates to valves ZWK1
 **) - relates to valves ZUK1

Materials

Body: carbon steel / alloy steel
 Disc, stem: stainless steel (min.17%Cr)
 Trim: stainless steel (min.18%Cr) or stellite

Dimensions and weights



ZWK

DN	L	H	D _{z max}	D _{w min}	Weight [kg]
80	200	560	120	78	117
100	230	600	142	98	182
150	270	780	210	144	310
200	370	850	280	198	660

STRAIGHT PATTERN HIGH PRESSURE STOP VALVES

WITH BUTT WELD ENDS DN15 – DN 100

The valves are designed for application in pipeline installations conducting non-aggressive and non-toxic media. They are manufactured in following versions:

- stop valves with hand wheel - type **ZWZ1A** / stop valves with control disc – type **ZWR1A** /
- stop valves for actuator - type **ZWZ1B** / stop valves with control disc – type **ZWR1B** /.

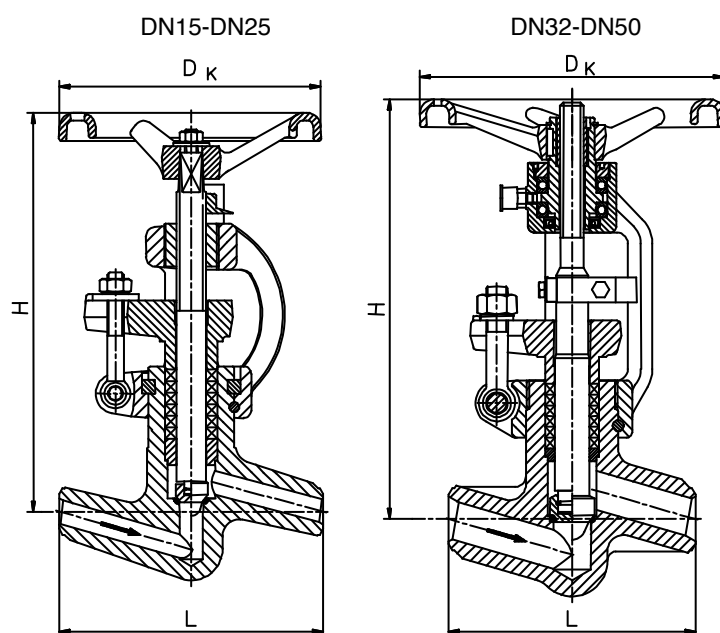
Operating data

Material	Maximum permissible operating temperature TS, °C													
	20	200	250	300	350	400	450	490	500	530	550	570	590	600
	Maximum permissible operating pressure PS, bar													
P245GH	320	317	310	290	280	260	132							
16Mo3	320	320	315	284	273	265	255	245	200	93				
13CrMo4-5	320	320	320	317	314	311	292	284	282	170	110	63		
11CrMo9-10	320	320	320	320	320	312	296	283	280	192	144	109	80	67
14MoV6-3	320	320	320	320	320	320	320	320	320	280	213	152		
X10CrMoVNB	320	320	320	320	320	320	320	320	320	311	298	274	218	190
15NiCuMoNb5	320	320	320	320	320	320	320	172	114					
Maximum pressure drop for valves with actuators type NWA1 ? P=265 bar														

Materials

Body: carbon steel / alloy steel
 Disc, stem: stainless steel (min.17%Cr)
 Trim: stainless steel (min.18%Cr)

Dimensions and weights



DN	L	H	stroke	D _k	Weight [kg]
15	160	230	14	160	5,6
20	160	265	18	200	9,5
25	160	265	18	200	9
32	230	390	25	320	24
40	230	390	25	320	23,5
50	300	482	40	360	45

Stop valves and stop valves with control disc,
with handwheel

STRAIGHT PATTERN HIGH PRESSURE VALVES

FOR PNEUMATIC ACTUATOR WITH BUTT WELD ENDS

DN15 – DN 50

The valves are designed for application in pipeline installations conducting non-aggressive and non-toxic media. They are designed for general application - type **ZWZ1P**.

They are suitable for mounting of one way action pneumatic actuator, type:

- R1B – while air pressure failure the springs close the valve;
- P1B – while air pressure failure the springs open the valve.

Operating data

Material	Maximum permissible operating temperature, TS [°C]												
	20	200	250	300	350	400	450	490	500	530	550	570	600
	Maximum permissible operating pressure, PS [bar]												
P245GH	180	180	180	180	180	180	132						
16Mo3		180	180	180	180	180	180	180	160	93			
13CrMo4-5			180	180	180	180	180	180	180	156	140	63	
11CrMo9-10								180	180	180	170	130	67
14MoV6-3									180	180	180	152	
X10CrMoVNb									180	180	180	180	180

Maximum pressure drop:
for valves with actuators type R1B $\Delta p=180$ bar.
for valves with actuators type P1B $\Delta p=250$ bar.

Materials

Body: carbon steel / alloy steel

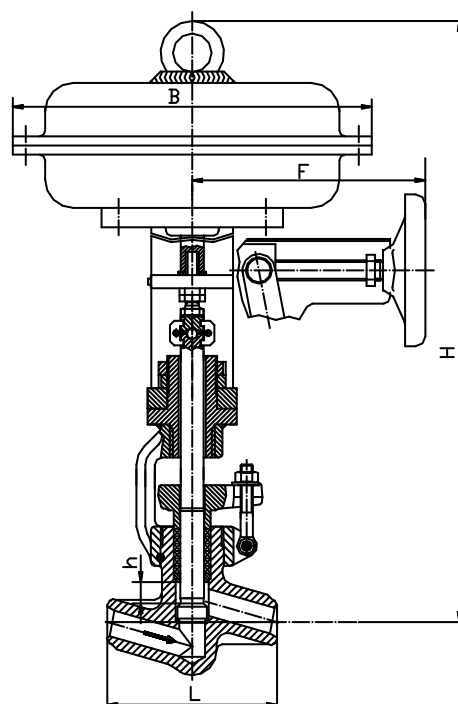
Disc: stem: stainless steel (min.17%Cr)

Trim: stainless steel (min.18%Cr)

Dimensions and weights

Type and size of actuator	DN	L	H	h	B	F	Weight of valve* [kg]
R1B-400-20-7-57-12	15	160	640	14	305	240	5,5
P1B-400-20-3-57-12							
R1B-630-38-7-57-12	20	160	660	18	375	270	9,5
P1B-630-20-3-57-12							
R1B-630-38-7-57-12	25	160	660	18	375	270	9,5
P1B-630-20-3-57-12							
R1B-1000-63-7-84-16	32	230	1090	25	480	345	27
P1B-1000-38-3-84-12							
R1B-1000-63-7-84-16	40	230	1090	25	480	345	27
P1B-1000-38-3-84-16							
R1B-1500-80-7-84-20	50	300	1220	50	550	380	37
P1B-1500-50-3-84-20							

*) – weight of valve without actuator



STRAIGHT PATTERN HIGH PRESSURE VALVES

DN 5/10 FOR MEASURING INSTALLATIONS

The valves are designed for operation in measuring and isolating installations for steam and water condensate. They are produced as type - **ZWP1**

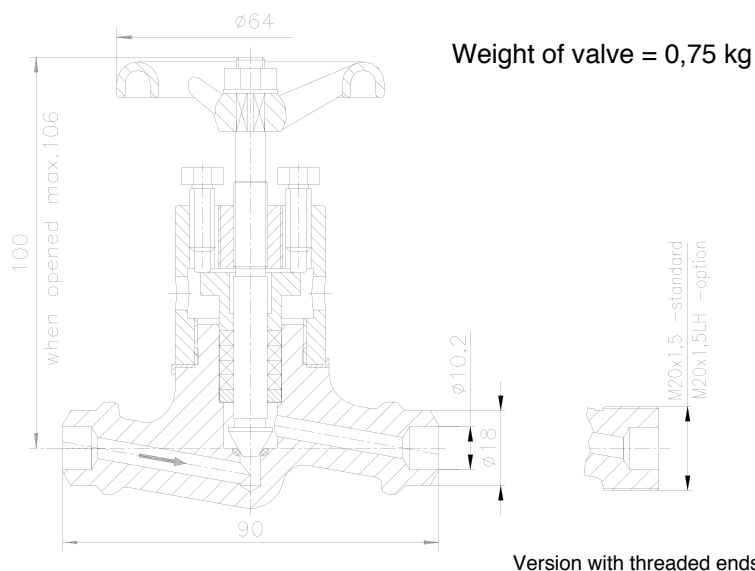
Operating data

Material		Maximum permissible operating temperature, TS [°C]													
		200	250	300	350	400	450	500	510	530	545	550	555	600	
		Maximum permissible operating pressure, PS [bar]													
Threaded end	20	256	280	250	180	160									
	15HM		256	256	216	210	200	160	144						
	10H2M				256	256	256	248	224	165	130				
	13HMF							256	248	224	181	168			
	1H18N9T	224	213	202	195	190	184	180	180	178	176	169	160		
	H9AMFNb							256	240	224	210	208	202	144	
Buttweld end	20	320	280	250	225	200									
	15HM		320	320	270	260	250	200	180						
	10H2M				320	320	320	310	280	206	162				
	13HMF							320	310	280	226	210			
	1H18N9T	280	266	253	244	237	230	225	224	223	220	211	200		
	H9AMFNb							320	300	280	263	260	252	180	

Materials

Body: carbon steel / alloy steel
 Disc, stem: stainless steel (min.17%Cr)
 Trim: stainless steel (min.18%Cr)

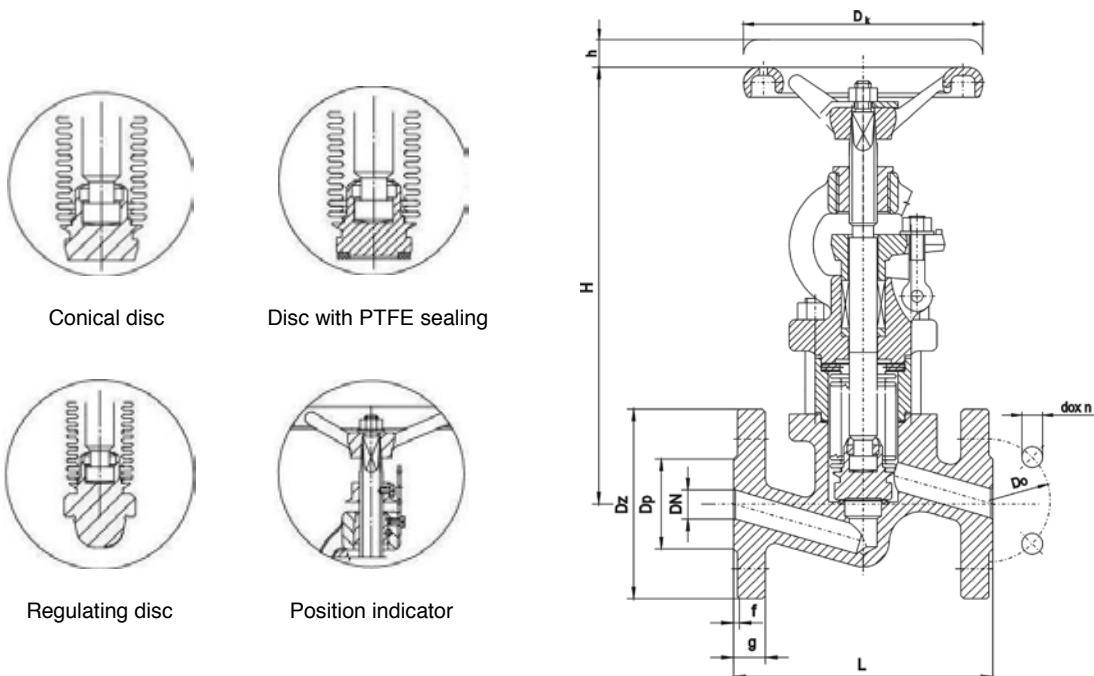
Dimensions and weights



GLOBE VALVE BELLOWS SEALED WITH FLANGES

CAT. NO. 450M - STRAIGHT FORM

ND 15÷25 / NP 4,0 MPA / TMAX= 450°C*



* for stainless steel performance (A) Tmax for material; **1.4571** from -196°C up to +300° C

Dimensions and weights

ND	Dz	Dp	D ₀	d ₀ x n	L	f	g	H	h	D _K	Weight
mm											kg
15	95	45	65	14 x 4	130	2	16	215	10	120	4,7
20	105	58	75	14 x 4	150	2	18	215	10	120	5,3
25	115	68	85	14 x 4	160	2	18	215	10	120	5,7

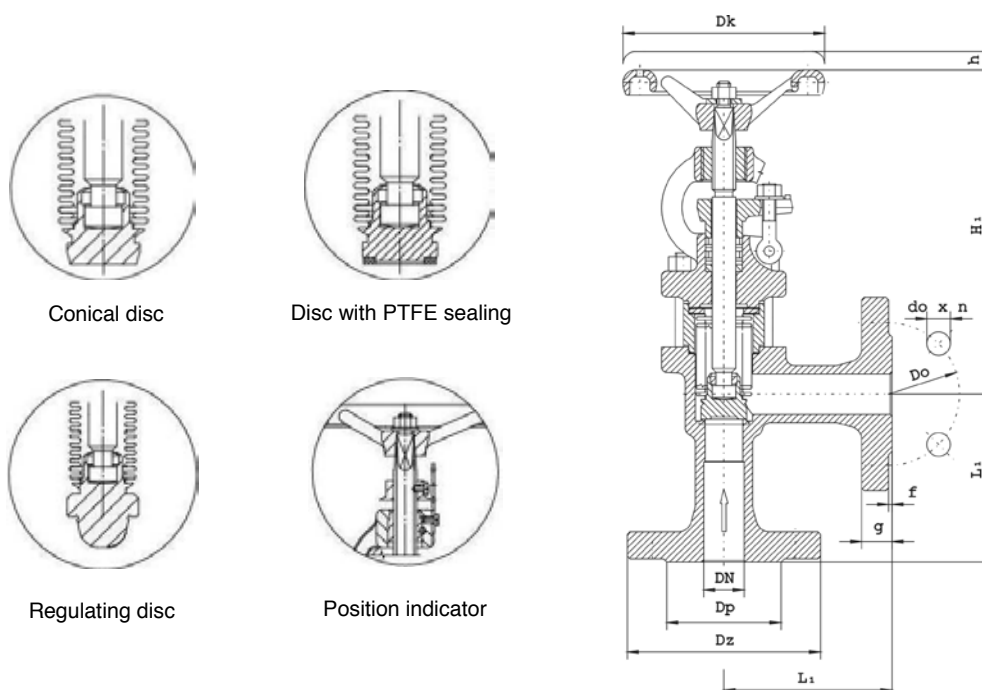
Materials

Description	Material		
	standard	with PTFE sealing (Tmax 200°C)	stainless steel (Tmax 300°C)
Body	P250GH	P250GH	X6CrNiMoTi17-12-2
Body seat	18-8 Cr-Ni	18-8 Cr-Ni	X6CrNiMoTi17-12-2
Bonnet	P250GH	P250GH	X6CrNiMoTi17-12-2 (X6CrNiTi18-10)
Stem	X30Cr13	X30Cr13	X6CrNiTi18-10
Disc seat	18-8 C r-Ni	PTFE	18-8 Cr-Ni
Bellows	18-8 Cr-Ni	18-8 Cr-Ni	18-8 Cr-Ni
Packing	Graphite	Graphite/PTFE	Graphite

GLOBE VALVE BELLOWS SEALED WITH FLANGES

CAT. NO. 222M - ANGLE FORM

ND 15÷25 / NP 4,0 MPA / TMAX=400°C*



* for stainless steel valves (A) Tmax for material; **1.4408** from -196°C up to +300° C

Dimensions and weights

ND	Dz	Dp	D ₀	d ₀ x n	L ₁	f	g	H ₁	h	D _K	Weight
mm											kg
15	95	45	65	14 x 4	90	2	16	200	10	120	4,5
20	105	58	75	14 x 4	95	2	18	200	10	120	5,2
25	115	68	85	14 x 4	100	2	18	200	10	120	5,3

Materials

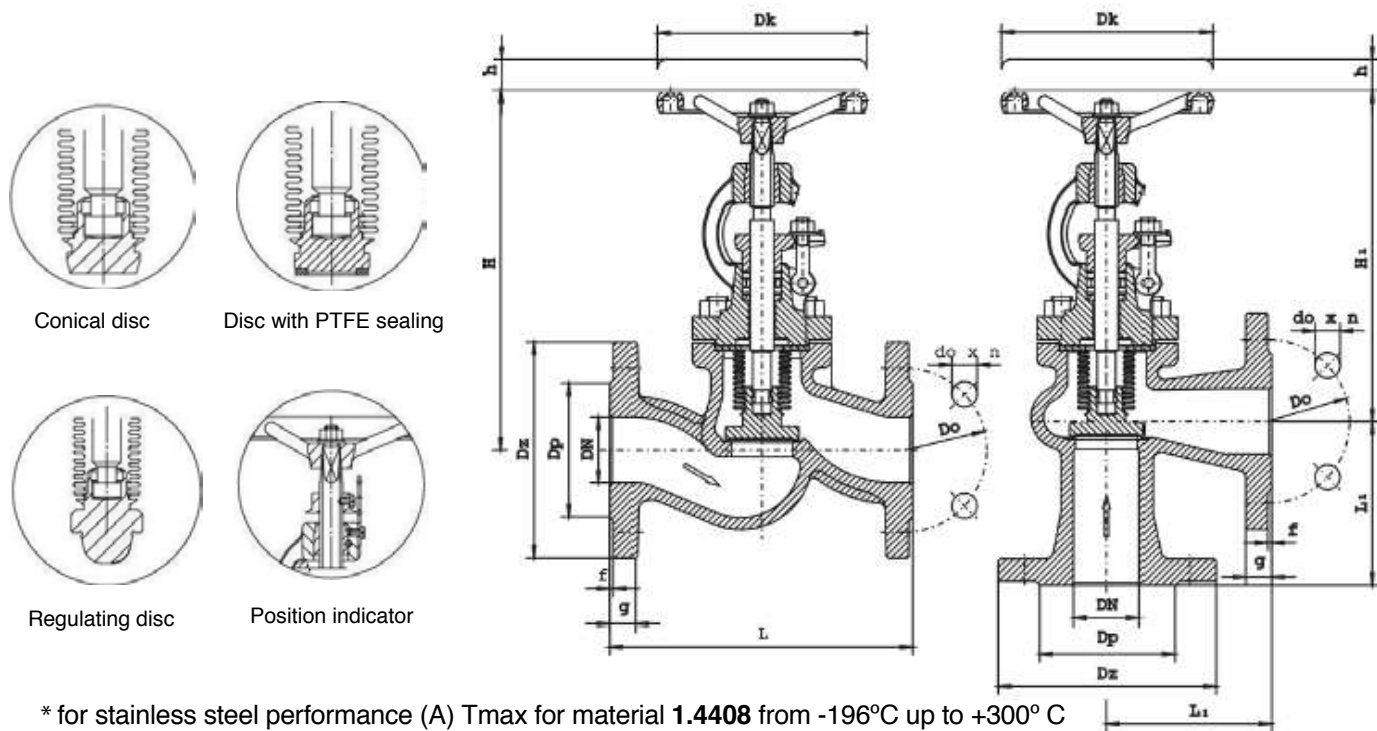
Description	Material	
	standard	with PTFE sealing (Tmax 200°C)
Body	GP240GH	GP240GH
Body seat	18-8 Cr-Ni	18-8 Cr-Ni
Bonnet	P250GH	P250GH
Stem	X30Cr13	X30Cr13
Disc seat	18-8 Cr-Ni	PTFE
Bellows	18-8 Cr-Ni	18-8 Cr-Ni
Packing	Graphite	Graphite/PTFE

GLOBE VALVE BELLOWS SEALED WITH FLANGES

CAT. NO. 218M-STRAIGHT FORM

CAT. NO. 222M-ANGLE FORM

ND 32-100 / NP 4,0 MPA / TMAX=400°C*



* for stainless steel performance (A) Tmax for material 1.4408 from -196°C up to +300° C

Dimensions and weights

ND	D _z	D _p	D ₀	d ₀ x n	L	L ₁	f	g	H	H ₁	h	D _K	Weight	
													fig. 218M	fig. 222M
mm													kg	
32	140	78	100	18 x 4	180	105	2	18	260	240	10	160	11,0	10,6
40	150	88	110	18 x 4	200	115	2	18	270	250	13	160	12,7	13,6
50	165	102	125	18 x 4	230	125	2	20	275	255	13	160	16,0	17,0
65	185	122	145	18 x 8	290	145	2	22	320	290	15	200	28,0	28,0
80	200	138	160	18 x 8	310	155	2	24	370	320	16	250	36,0	37,4
100	235	162	190	22 x 8	350	175	2	24	405	360	18	320	50,0	50,0

Materials

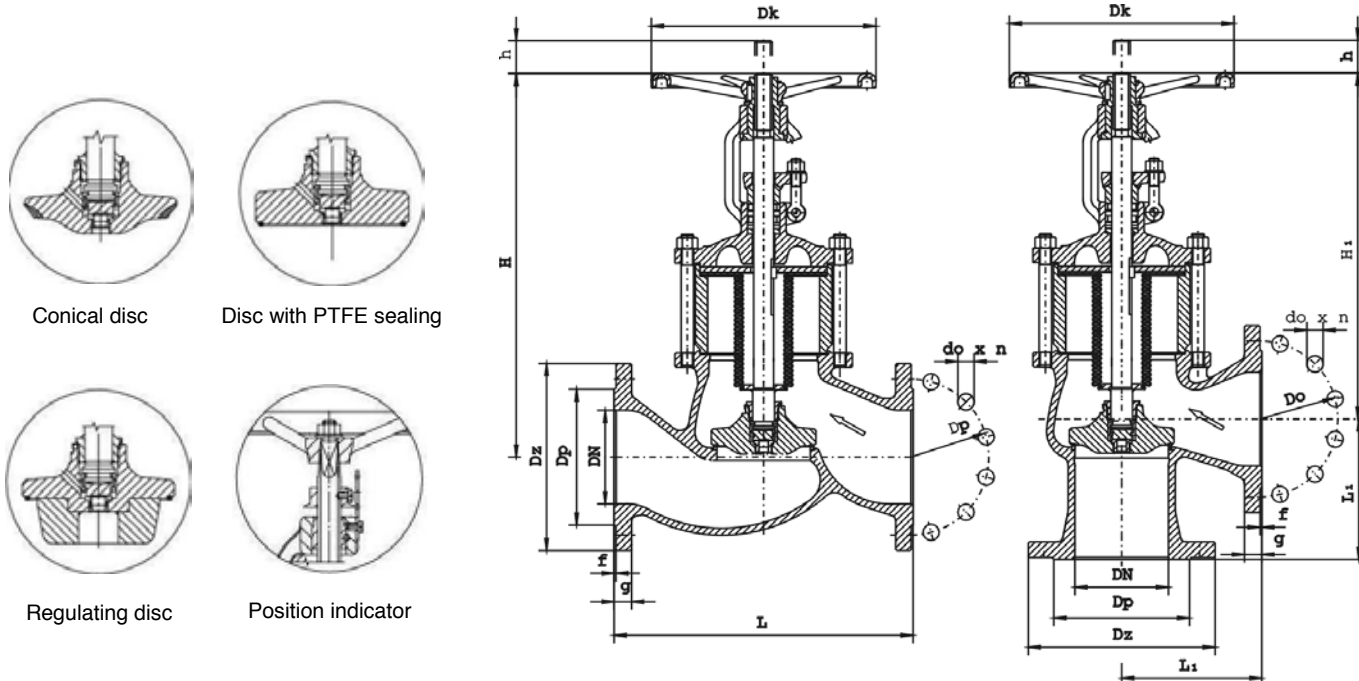
Description	Material		
	standard	with PTFE sealing (Tmax 200°C)	stainless steel (Tmax 250°C)
Body	GP240GH	GP240GH	GX5CrNiMo19-11-2
Body seat	18-8 Cr-Ni	18-8 Cr-Ni	GX5CrNiMo19-11-2
Bonnet - ND 32-50 - ND 65-100	P250GH GP240GH	P250GH GP240GH	X6CrNiMoTi17-12-2 (X6CrNiTi18-10) GX5CrNiMo19-11-2
Stem	X30Cr13	X30Cr13	X6CrNiTi18-10
Disc seat	18-8 Cr-Ni	PTFE	18-8 Cr-Ni
Bellows	18-8 Cr-Ni	18-8 Cr-Ni	18-8 Cr-Ni
Packing	Graphite	Graphite/PTFE	Graphite

GLOBE VALVE BELLOWS SEALED WITH FLANGES

CAT. NO. 218M-STRAIGHT FORM

CAT. NO. 222M-ANGLE FORM

ND 125÷250 / NP 4,0 MPA / TMAX=400 °C*



* for stainless steel performance (A) Tmax for material: **1.4408** from – 196 °C up to + 300 °C

Dimensions and weights

ND	D _Z	D _p	D ₀	d ₀ x n	L	L ₁	f	g	H	H ₁	h	D _K	Weight	
													218M	222M
mm													kg	
125	270	188	220	26 x 8	400	200	2	26	570	524	37	320	78,0	80,0
150	300	218	250	26 x 8	480	225	2	28	610	554	50	360	110,0	99,0
200	375	285	320	30 x 12	600	275	2	34	670	610	50	400	205,0	181,0
250	450	345	385	33 x 12	730	325	2	38	780	730	75	500	350,0	330,0
300	515	410	450	33 X 16	850	-	2	42	1205	-	88	640	540,0	530,0

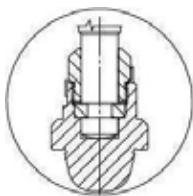
Materials

Description	Material		
	standard	with PTFE sealing (Tmax 200°C)	stainless steel (Tmax 250°C)
Body	GP240GH	GP240GH	GX5CrNiMo19-11-2
Body seat	18-8 Cr-Ni	18-8 Cr-Ni	GX5CrNiMo19-11-2
Bonnet	GP240GH	GP240GH	GX5CrNiMo19-11-2
Stem	X30Cr13	X17CrNi16-2	X6CrNiTi18-10
Disc seat	18-8 C r-Ni	PTFE	18-8 Cr-Ni
Bellows	18-8 Cr-Ni	18-8 Cr-Ni	18-8 Cr-Ni
Packing	Graphite	Graphite/PTFE	Graphite

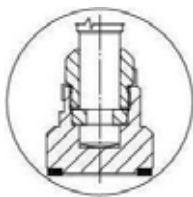
GLOBE VALVE WITH FLANGES

Cat. no. 422

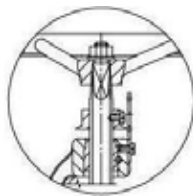
ND 15÷25 / NP 10,0 MPA / TMAX = 425°C



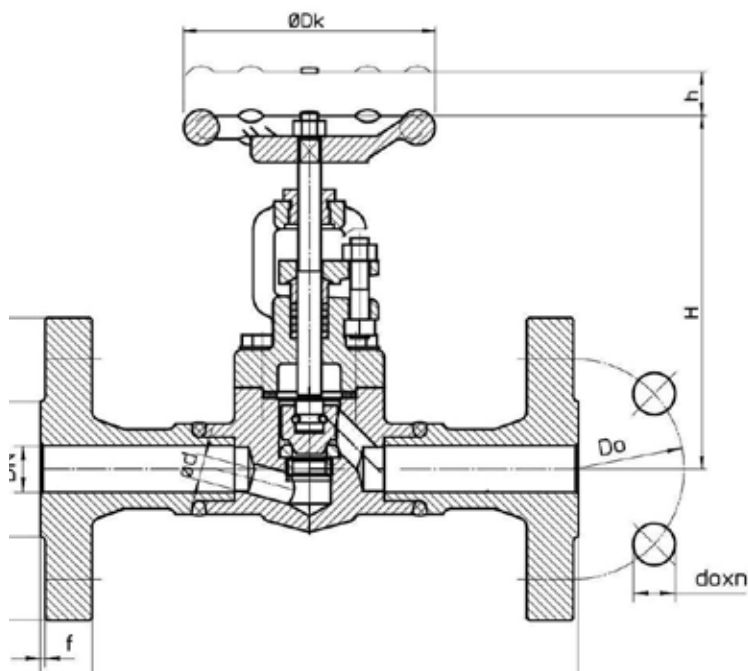
Regulating disc



Disc with PTFE sealing



Position indicator



Dimensions and weights

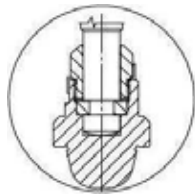
ND	Dz	Dp	Do	f	g	doxn	L	d	H	h	Dk	Weight
mm												kg
15	105	45	75	2	20	14 x 4	210	10	160	10	80	4,6
20	130	58	90	2	22	18 x 4	230	13	165	13	80	6,7
25	140	68	100	2	24	18 x 4	230	18	180	15	100	9,3

Materials

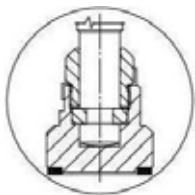
Description	Material
Body	A105
Bonnet	A105
Stem	13Cr
Body seat	17 Cr
Disc seat	13 Cr
Packing	Graphite

GLOBE VALVE WITH BUTT WELDING ENDS IN STRAIGHT FORM Cat. no. 422S/1

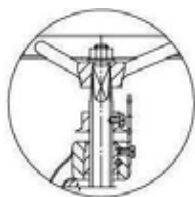
ND 15÷25 / NP 10,0 MPA / TMAX = 425°C



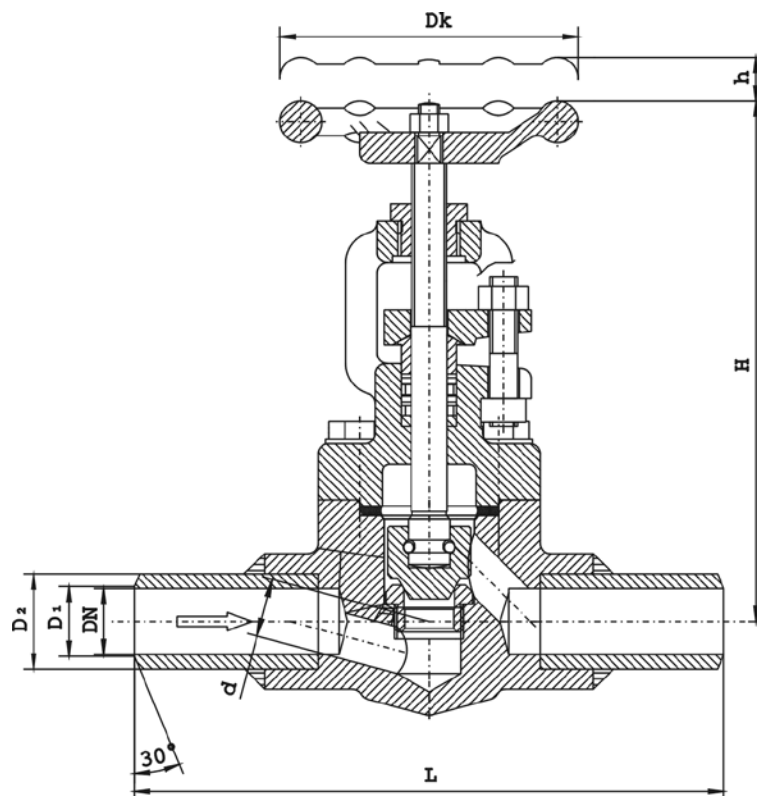
Regulating disc



Disc with PTFE sealing



Position indicator



Dimensions and weights

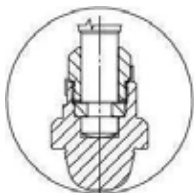
ND	D ₁	D ₂	d	L	H	h	D _K	Weight
mm								kg
10	13	17	8	160	160	10	80	2,0
15	17	22	10	160	160	10	80	2,1
20	22	28	13	160	165	13	80	2,3
25	28	34	18	160	180	15	100	3,9

Materials

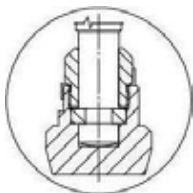
Description	Material
Body	A105
Bonnet	A105
Stem	X30Cr13
Body seat	X30Cr13
Disc seat	X30Cr13
Packing	Graphite

GLOBE VALVE WITH FLANGES
CAT. NO. 430

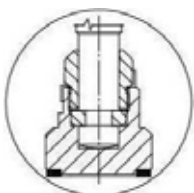
ND 15÷25 / NP 10,0 MPA / TMAX = 425°C



Regulating disc



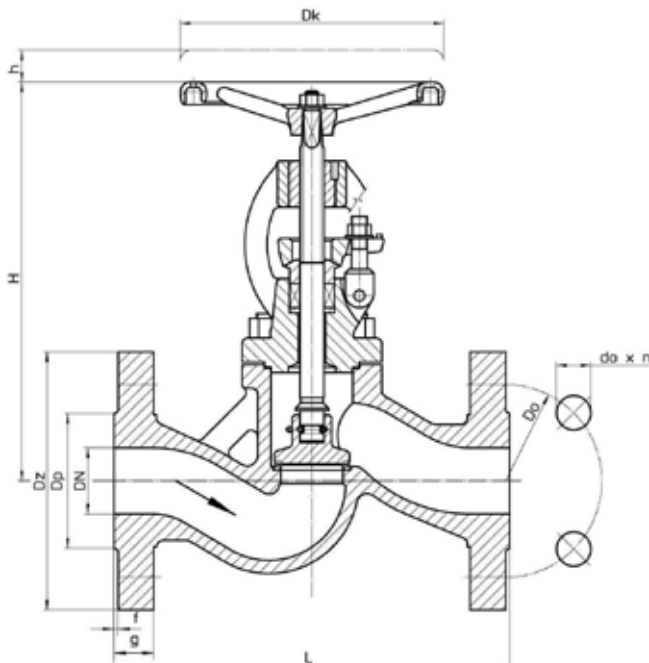
Conical disc



Disc with PTFE sealing



Position indicator



* for stainless steel performance (A) T_{max} for material: **1.4408** from – 196 °C up to + 250 °C

Dimensions and weights

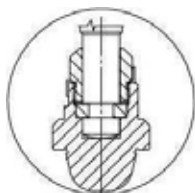
ND	D _z	D ₀	D _p	d ₀ x n	L	f	g	H	h	Dk	Weight
mm											kg
32	155	110	78	22 x 4	260	2	24	250	22	200	15,7
40	170	125	88	22 x 4	260	2	28	270	22	200	20,0
50	195	145	102	26 x 4	300	2	30	290	22	200	25,5
65	220	170	122	26 x 8	340	2	34	360	41	280	43,0
80	230	180	138	26 x 8	380	2	36	380	46	360	51,6
100	265	210	162	30 x 8	430	2	36	500	55	360	120,0
150	355	290	218	33 x 8	550	2	44	580	70	400	250,0

Materials

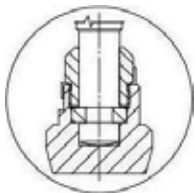
Description	Material
Body	GP240GH
Body seat	18-8 Cr-Ni
Bonnet	GP240GH
Stem	X30Cr13
Disc seat	X30Cr13
Packing	Graphite

GLOBE VALVE WITH BUTT-WELDING ENDS
CAT. NO. 430S

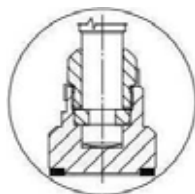
ND 32÷150 / NP 10,0 MPA / TMAX = 450°C



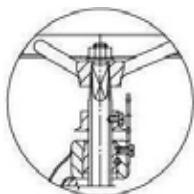
Regulating disc



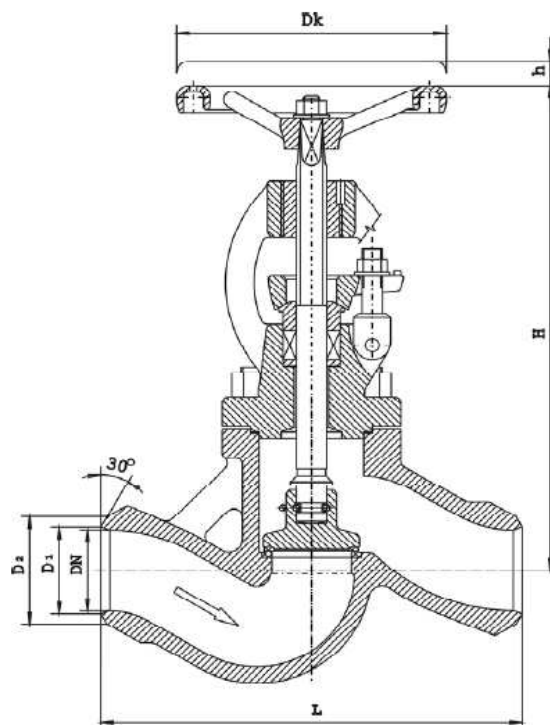
Conical disc



Disc with PTFE sealing



Position indicator


Dimensions and weights

ND	D ₁	D ₂	L	H	h	D _K	Weight
mm							kg
32	37	43	230	250	22	200	9,7
40	43	54	230	270	26	200	12,1
50	54	67	300	290	32	200	19,5
65	70	83	340	360	35	280	30,5
80	82	96	380	380	48	360	37,8
100	104	115	430	500	55	360	95,0
150	154	176	550	580	70	400	200,0

Materials

Description	Material
Body	GP240GH
Body seat	18-8 Cr-Ni
Bonnet	GP240GH
Stem	X30Cr13
Disc seat	X30Cr13
Packing	Graphite

GLOBE VALVE WITH BUTT-WELDING ENDS IN STRAIGHT FORM
Cat. no. 649

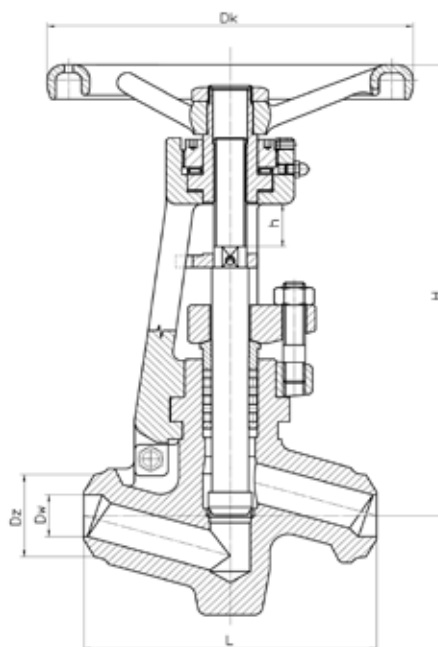
ND 15÷50 / NP 25÷50 MPA / TMAX=650°C



Regulating disc



Position indicator


Dimensions and weights

ND	Dw			Dz			L	H	h	D _K	Weight
	PN 250	PN 320	PN 500	PN 250	PN 320	PN 500					
mm											kg
15	16,0	15,0	16,5	22	22	32	160	275	20	200	8,0
20	20,0	20,0	20,0	27	28	38	160	275	20	200	8,0
25	26,5	24,0	23,5	35	35	47	160	275	20	200	8,0
32	30,0	30,0	30,0	40	40	58	250	365	25	320	28,5
40	38,5	36,0	33,5	49	49	66	250	365	25	320	28,0
50	45,0	49,5	45,0	61	77	86	250	365	25	320	27,5

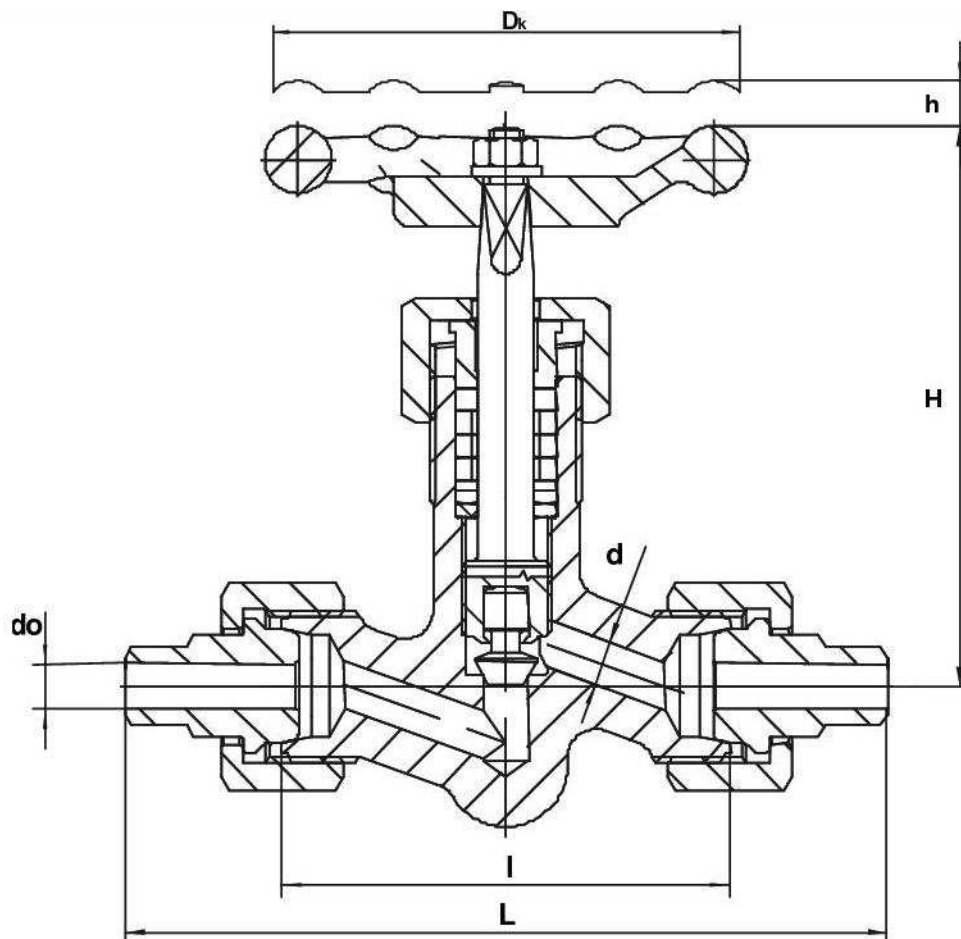
Materials

	Standard - Tmax 450°C	Version A - Tmax 550°C	Version B - Tmax 580°C	Version U - Tmax 530°C	Version C - Tmax 650°C
Body	P250GH (1.0460)	13CrMo4-5 (1.7335)	11CrMo9-10 (1.7383)	16Mo3 (1.5415)	X10CrMoVNb9-1 (1.4903)
Bonnet					
DN 15-25	P250GH (1.0460)	11CrMo9-10 (1.7383)			X10CrMoVNb9-1 (1.4903)
DN 15-25	GP240GH (1.0619)	G17CrMo5-5 (1.7357)			
Stem	X30Cr13	X39CrMo17-1 (1.4122)			X7CrMoBNb16-16
Body's seat	X30Cr13	Stellited			
Disc's ring	Skwam-IG	Stellited			
Packing	Graphite				

STAINLESS STEEL GLOBE VALVE WITH WELDING ENDS

Cat. no. 677A

ND 6÷10 / NP 42,0 MPA / TMAX = 400°C



Dimensions and weights

ND	d _o	d	L	L ₁	H	h	D _K	Weight
mm								kg
6	6	6	80	136	100	8	80	1,0
8	8	8	80	136	100	8	80	1,0
10	10	8	80	136	103	8	80	1,0

Materials

Destription	Material
Body	1.4571
Gland nut	A2-80
Gland sleeve	Cr Ni 18-8
Stem	17% Cr
Disc	17% Cr
Packing	Graphite