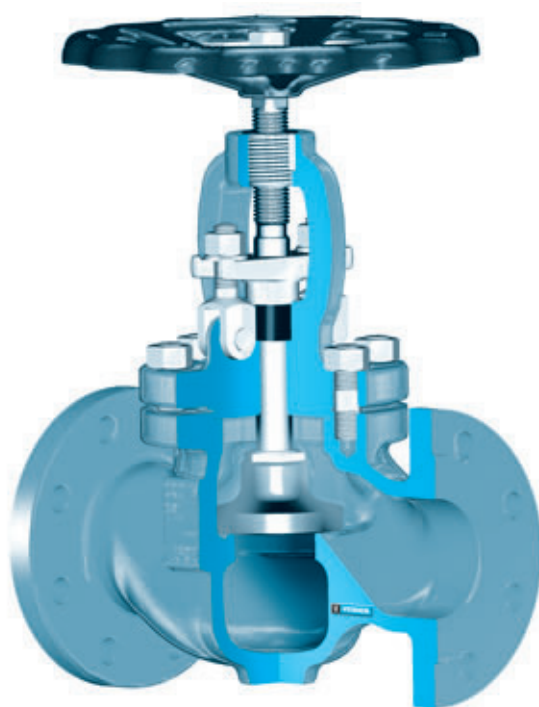


- **Globe valves** ▪ Shut-off check valve ▪ 200 AE/BE ▪ PN 10-160 ▪ DN 65-200
- **Globe valves** ▪ Lift check valve ▪ 240 MT ▪ PN 10-160 ▪ DN 65-200



Range of application

Admissible operating pressure [bar] at design temperature [°C] ¹⁾

Material	PN	-200	-50	-10	20	100	120	150	200	250	300	350	400	425	450	475	500	510	520	530	540	550
1.0619	10-16			16	16	16	16	15	14	13	11	10	8									
	25			25	25	25	25	23	22	20	17	16	13									
	40			40	40	40	40	37	35	32	28	24	21									
	63			63	63	63	63	53	50	45	40	36	32									
	100			100	100	100	100	83	80	70	60	56	50									
	160 ³⁾			160	160	160	160	135	130	112	96	90	80									
1.5419	10			10	10	9	9	9	8	7	7	7	6	6	6	6	3	3	2	2		
	25			25	25	23	23	22	20	19	17	16	16	16	15	15	9	7	6	4		
	40			40	40	36	36	35	31	29	27	26	25	24	24	23	14	11	9	7		
	63			63	63	59	59	58	51	48	45	42	41	40	39	38	22	18	14	12		
	100			100	100	92	92	90	80	74	69	65	63	62	61	59	35	28	22	18		
	160 ³⁾			160	160	148	148	143	128	119	111	104	101	100	98	94	55	44	35	29		
1.7221	10-16 ²⁾			16	16	16	16	15,1	15	14	13	11										
	25 ²⁾			25	25	25	25	23,6	23	22	20	17										
	40 ²⁾			40	40	40	40	37,7	37	35	32	28										
	63 ²⁾			63	63	63	55	54	53	50	45	40										
	100 ²⁾			100	100	100	87	84	83	80	70	60										
	160 ²⁾			160	160	160	140	136	135	130	112	96										
1.7357	10-16			16	16	16	16	15	14	13	11	10	8									
	25			25	25	25	25	25	25	25	25	24	23	22	21	20	18	15	12	9		
	40			40	40	40	40	40	40	40	40	38	36	35	34	33	29	24	19	15		
	63			63	63	63	63	63	63	63	63	61	58	57	56	51	47	40	32	25		
	100 ⁴⁾			100	100	100	100	100	100	100	100	95	91	89	87	80	74	62	49	38		
1.4308	10-16	16	16	16	16	13	12,6	12	11	8	8											
	25	25	25	25	25	21	19,8	18	17	13	12											
	40	40	40	40	40	34	32,4	30	24	21	20											
1.4581	10-16			16	16	15	14,6	14	13	13	12	12	11	10	8	7,5	7	7	7	7	7	6,5
	25			25	25	24	23,2	22	21	20	19	18	17	16	13	12,5	12	11	11	11	11	11
	40			40	40	38	36,8	35	33	32	30	28	26	24	21	20	19	19	19	18	18	18

1) Operating temperature = design temperature minus temperature surcharge acc. to DIN regulations.

2) At temperature > 50 °C only applicable for short-time service.

3) PN 160 is only valid for DN 65-100.

4) Only for globe valves DN 65-80; for lift check valves DN 65-125.

Permissible differential pressure (pressure inlet below the disc) acc. to EN 13709.

■ **Globe valves** ■ **Lift check valve** ■ **240 MT** ■ **PN 10-160** ■ **DN 65-200**

■ **Globe valves** ■ **Lift check valve** ■ **240 MT** ■ **PN 10-160** ■ **DN 65-200**

Version

- Straight bonnet
- Cast steel body and bonnet
- Shut-off disc, Fig.No. 200 AE
- Throttle disc, Fig.No. 200 BE
- Outside screw and yoke
- Position indicator if required
- Turning and rising stem

Media

Depending on the material the globe valves are suitable for water, gas, oil and other non aggressive media

Fields of application

Chemical industries, power plant, ship building and other

Pressure and temperature ratings

- Pressure rating SW up to 160 bar
- Pressure rating BW-Ends up to 160 bar
- Temperature rating up to 550 °C

Materials

- 1.0619
- 1.5419
- 1.7221
- 1.7357
- 1.4581
- 1.4308

Further materials on request

Design Highlights

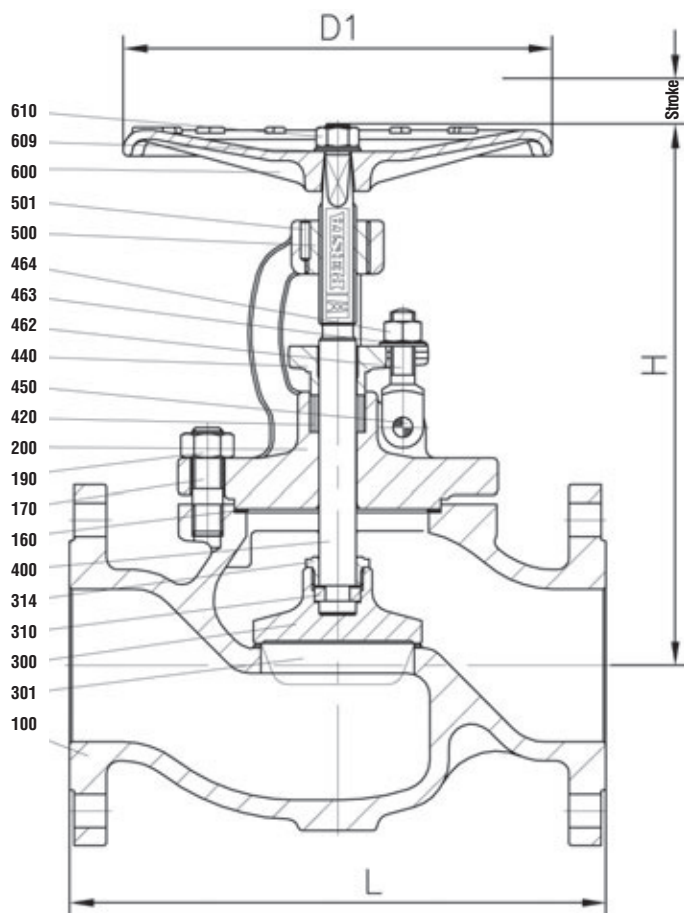
- Seats are welded on
- Body-bonnet connection male and female
- Body and bonnet in two pieces with bolted connection

Benefits

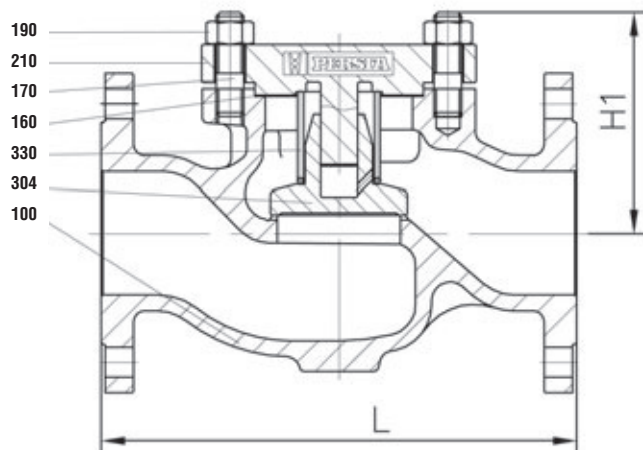
- Extremely resistant to wear
- Sealing blow out proof
- To ease maintenance work, e.g. regrinding of the body seats

- **Globe valves** ▪ Lift check valve ▪ 240 MT ▪ PN 10-160 ▪ DN 65-200
- **Globe valves** ▪ Lift check valve ▪ 240 MT ▪ PN 10-160 ▪ DN 65-200

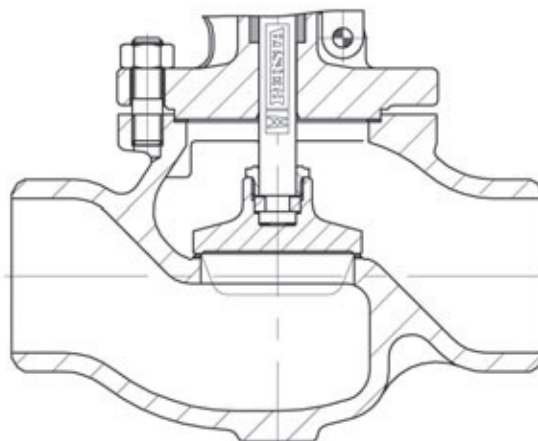
Shut-off check valve



Lift check valve



BW-Version



■ **Globe valves** ■ **Lift check valve** ■ **240 MT** ■ **PN 10-160** ■ **DN 65-200**

■ **Globe valves** ■ **Lift check valve** ■ **240 MT** ■ **PN 10-160** ■ **DN 65-200**

Materials							
Pos.	Component	1.0619 (11)	1.5419 (32)	1.7221 (31)	1.7357 (34)	1.4581 (72)	1.4308 (77)
100	Body	1.0619 ⁴⁾	1.5419 ⁵⁾	1.7219 ⁴⁾	1.7357 ⁵⁾	1.4581 ⁹⁾	1.4308 ⁹⁾
160	▶ Gasket	Graphite	Graphite	Graphite	Graphite	Teflon	Graphite
170	Stud ¹⁾	1.1181	1.7709	A4-70	1.7709	A4-70	A4-70
170	Stud ²⁾	1.7709	1.4923	A4-70	1.4923		
190	Hexagonal nut ¹⁾	1.1181	1.7218	A4-70	1.7218	A4-70	A4-70
190	Hexagonal nut ²⁾	1.7218	1.7218	A4-70	1.7218		
200	Bonnet	1.0619	1.7357	1.7221	1.7357	1.4581	1.4308
210	Bonnet	1.0460	1.7335	1.0566	1.7335	1.4571	1.4571
300	▶ Disc	1.4021 ³⁾	1.7335 ⁵⁾	1.0566 ⁴⁾	1.7335 ⁵⁾	1.4571 ⁸⁾	1.4571 ⁸⁾
301	▶ Throttle disc	1.4021 ³⁾	1.7335 ⁵⁾	1.0566 ⁴⁾	1.7335 ⁵⁾	1.4571 ⁸⁾	1.4571 ⁸⁾
304	▶ Disc	1.0460 ³⁾	1.7335 ⁵⁾	1.0566 ⁴⁾	1.7335 ⁵⁾	1.4571 ⁸⁾	1.4571 ⁸⁾
310	▶ Filling piece	1.0035	1.0035	1.0035	1.0035	1.4571	1.4571
314	▶ Disc nut	1.0050	1.0050	1.0050	1.0050	1.4571	1.4571
330	▶ Spring	1.4310	1.4310	1.4310	1.4310	1.4571	1.4571
400	▶ Stem	1.4021	1.4021	1.4571	1.4021	1.4571	1.4571
420	▶ Packing	Graphite	Graphite	Graphite	Graphite	Teflon	Graphite
440	Gland flange	1.0460	1.0460	1.4571	1.0460	1.4571	1.4571
450	Rivet	1.1181	1.1181	A4-50	1.1181	A4-50	A4-50
462	Gland bolt	1.1181	1.1181	1.4571	1.1181	1.4571	1.4571
463	Washer	St	St	A4-50	St	A4-50	A4-50
464	Hexagonal nut	1.1181	1.1181	A4-70	1.1181	A4-70	A4-70
500	▶ Stem nut	1.0718	1.0718	1.0718	1.0718	1.0718	1.0718
501	▶ Cylindrical pin	St	St	St	St	St	St
600	Handwheel	0.7040	0.7040	0.7040	0.7040	0.7040	0.7040
609	Washer	St	St	St	St	A4-50	A4-50
610	Hexagonal nut	1.1181	1.1181	1.1181	1.1181	A4-70	A4-70
▶ Spare parts							
Special materials on request; alterations reserved.							
1) PN 10-40		4) Seat hard faced with Cr17			9) ≥ PN 63 seat hard faced with hastelloy		
2) PN 63-160		5) Seat hard faced with stellite					
3) Seat hard faced ≥ DN 125, 1.0460 seat hard faced with Cr17		8) ≥ PN 63 seat hard faced with stellite					

Dimensions/mm							
PN	DN	FL L	BW L	H	Stroke	H1	D1
10-40	65	290	290	310	22	105	225
	80	310	310	360	25	115	280
	100	350	350	400	30	140	280
	125	400	400	465	40	145	360
	150	480	480	530	50	170	360
	200	600	600	575	65	240	450

PN	DN	FL L	BW L	H	Stroke	H1	D1
63-160	65	340	340	360	22	120	280
	80	380	380	400	25	145	280
	100	430	430	410	30	165	360
63	125	500	500	535	40	210	360
	150	550	550	555	50	235	450
100	125	500	500	535	40	210	360
	150	550	550	555	50	235	450

Weights/kg									
DN	200 AE/BE								
	PN 10-16 FL	PN 25-40 FL	PN 10-40 BW	PN 63 FL	PN 63 BW	PN 100 FL	PN 100 BW	PN 160 FL	PN 160 BW
65	27,5	27,5	16,0	34,0	24,0	34,0	24,0	39,0	24,0
80	37,0	37,0	28,0	47,0	36,0	47,0	36,0	51,0	36,0
100	52,0	53,0	41,0	72,0	56,0	72,0	56,0	80,0	56,0
125	69,0	69,0	55,0	117,0	93,0	120,0	93,0		
150	103,0	110,5	97,0	160,0	125,0	166,0	125,0		
200	171,0	175,0	156,0						

DN	240 MT								
	PN 10-16 FL	PN 25-40 FL	PN 10-40 BW	PN 63 FL	PN 63 BW	PN 100 FL	PN 100 BW	PN 160 FL	PN 160 BW
65	18,5	18,5	11,5	29,0	13,0	29,0	13,0	33,0	13,0
80	29,6	29,6	20,4	42,0	23,0	42,0	23,0	46,0	23,0
100	35,4	35,4	29,0	63,0	38,0	63,0	38,0	71,0	38,0
125	58,0	58,0	40,0	101,0	78,0	106,0	78,0		
150	80,0	80,0	65,0	145,0	110,0	150,0	110,0		
200	145,0	160,0	148,0						

Kvs-values BW- and FL-Version						
Line	DN 65 PN 10-160	DN 80 PN 10-160	DN 100 PN 10-160	DN 125 PN 10-160	DN 150 PN 10-160	DN 200 PN 10-40
200 AE	71,0	122,0	162,0	260,0	370,0	660,0
200 BE	61,5	78,0	104,0	171,0	250,0	422,0
240 MT	72,1	105,9	171,6	263,0	374,0	688,0

The valves are also available in angle pattern up to DN 100 nominal sizes > DN 200 on request.

Permissible differential pressure (pressure inlet below the disc) acc. to EN 13709. **DN** 65 80 100 125 150 200 **BAR** 110 70 44 33 21 14