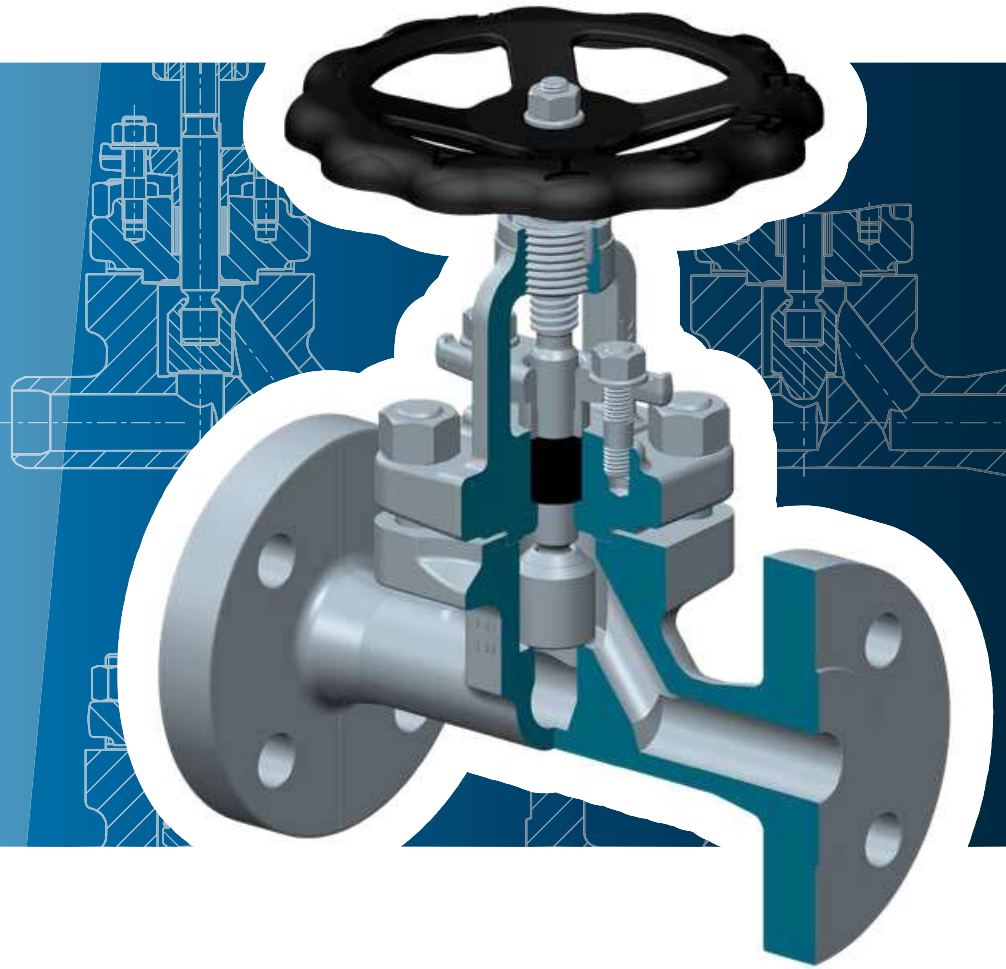


ASME

version
available



GLOBE VALVE

200 AE/BE PN 63-160 DN 10-50

LIFT CHECK VALVE

240 MT PN 63-160 DN 10-50

Design highlights

- Forged body and bonnet
- Seat hardened or armoured
- Body seal with male and female connection
- Bolted bonnet

Advantages

- Homogeneous joining
- Sturdy and heavy duty
- Absolute seat impermeability
- Blow-out-proof seal to improve service options, e.g. when regrinding the seat.

Version

- Flow passage with straight top part
- Forged body and bonnet
- Shut-off disc, AE version
- Throttle disc, BE version
- External stem thread
- Rotating, rising stem
- Available in angular form 202 AE/BE
- Operation in intermediate position only possible for short periods with the AE/BE versions (stroke 10–90%)

Materials

- 1.0460
- 1.0571
- 1.5415 (only butt-weld ends)
- 1.7335
- 1.4404

Other materials available on request.

Flow medium

Depending on the choice of materials, the valves can be used for water, steam, gas, oil or other non-aggressive media.

Applications

In chemical, industrial and power plants, and in shipbuilding

Operating data

- Operating pressure, butt-weld ends, up to 160 bar (DIN 2401; DIN EN 1092-1 or DIN EN 12516-1)
- Operating pressure, flange ends, up to 160 bar (DIN 2401 or DIN EN 1092-1)
- Operating temperature up to 570 °C

Max. area of application for butt-weld ends ³⁾

Permissible operating pressure [bar(g)] at calculation temperature [°C] ¹⁾

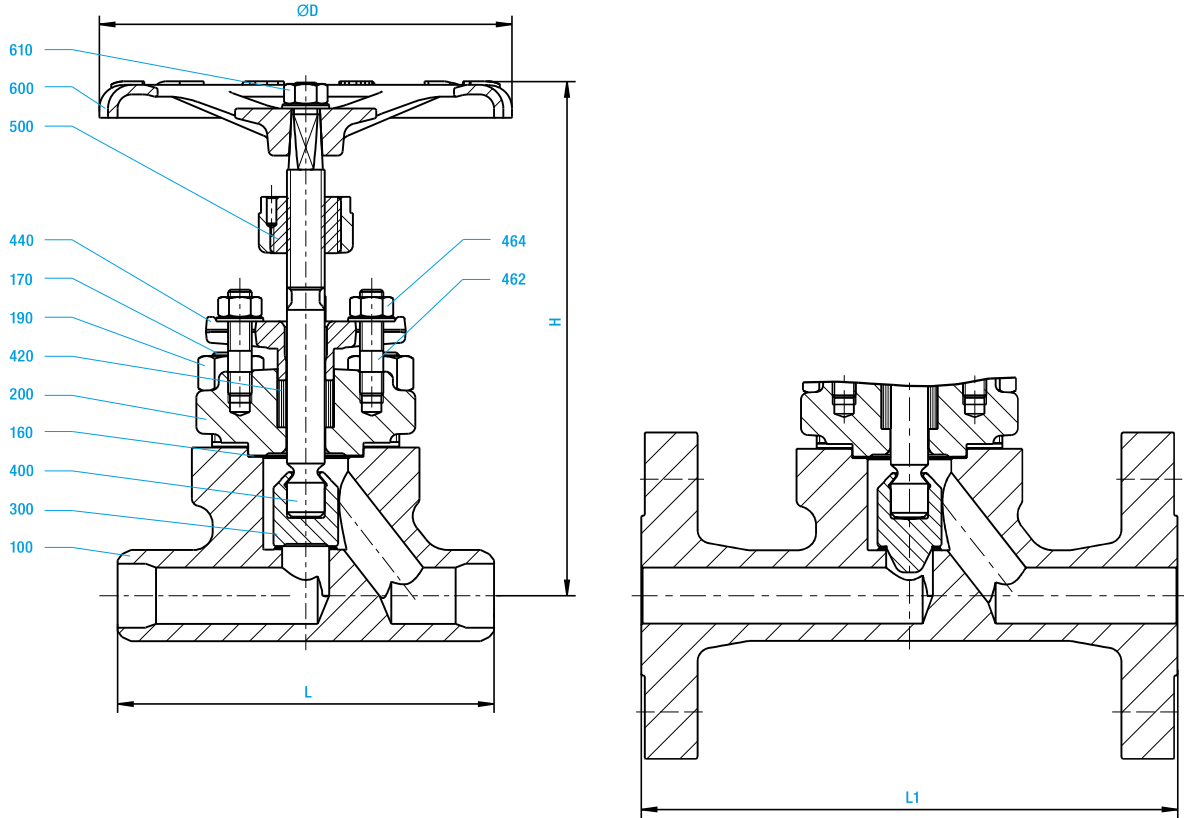
Material	PN	-196	-60	-10	20	100	120	150	200	250	300	350	375	380	400	420	425	450	470	475	480	490	500	510	520	525	530	540	550	560	570	
1.0460	160			160	160	160	160		134.5	122.9	111.4	103.7	99.9	99.1	96	87.9	83.1	58.9	42.7	39.3	35.9											
1.5415 ²⁾	160			160	160	160	160	160	160	160	139	129.5	124.6	119.6	115		112	106.1	105.3	104.9	104.5	88.6	72.6	63.2	50.4	45.2	40.1					
1.7335	160			160	160	160	160	160	160	160	160	153	149.5	146	142		139	136.2	133.4	132	129.2	123.6	118	100	79	73.4	67	54.4	41.8	30.4	25.1	
1.4404	160	160	160	160	160	156.9		143.4	130	119.6	110.4	105.9	104.4		102.8		101.5	100.1	99.1	98.8	98.5		97.5									
1.0571	160		160	160	160	160	160	160	160	160	160	150.2																				

1) Operating temperature = calculation temperature minus temperature surcharge according to the standard codes.

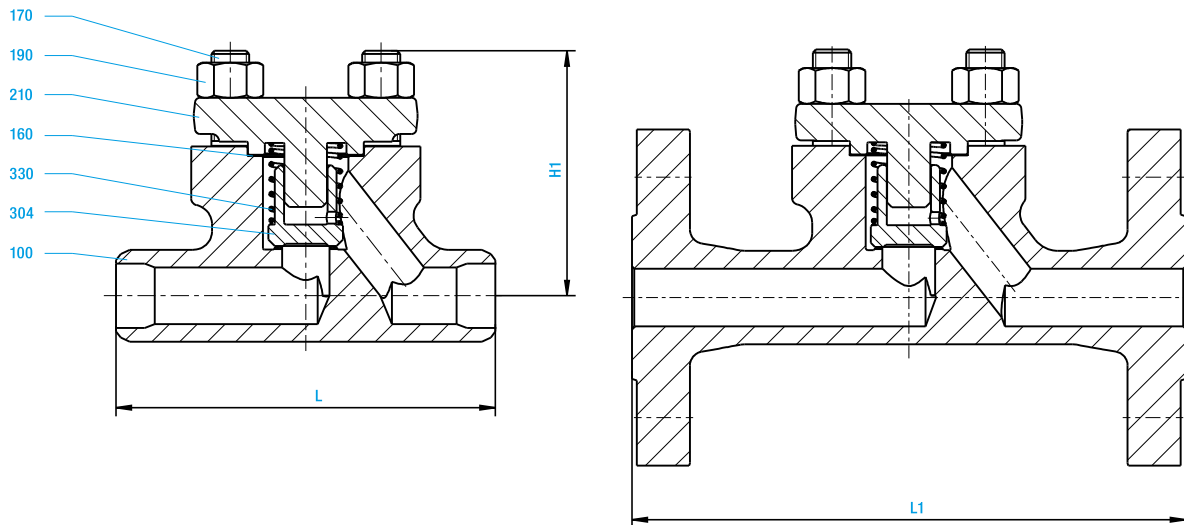
2) Only with butt-weld ends.

3) Max. area of application for flange ends or pressure rating valves; see technical appendix from page 138.

200 AE / BE



240 MT



Materials

Item	Designation	1.0460 (21) ⁴⁾	1.0571 (25)	1.5415 (42) ⁵⁾	1.7335 (44)	1.4404 (88)
100	Body	1.0460 ²⁾⁴⁾	1.0571 ²⁾³⁾	1.5415 ³⁾	1.7335 ³⁾	1.4404 ³⁾
160	Gasket	Graphite	Graphite	Graphite	Graphite	Graphite
170	Bolt	1.7225	1.7225	1.7225	1.4923	1.4980
190	Hexagonal nut	1.1181	1.1181	1.7218	1.4923	1.4980
200	Bonnet	1.0460	1.0571	1.7335	1.7335	1.4404
210	Check valve cover	1.0460	1.0571	1.7335	1.7335	1.4404
300	Disc	1.4021 ¹⁾	1.0571 ²⁾	1.7335 ³⁾	1.7335 ³⁾	1.4571 ³⁾
304	Check valve disc	1.4021 ¹⁾	1.4571 ³⁾	1.7380 ³⁾	1.7380 ³⁾	1.4571 ³⁾
330	Pressure spring	1.4310	1.4310	1.4310	1.4310	1.4571
400	Stem	1.4021	1.4980	1.4122	1.4122	1.4980
420	Packing	Graphite	Graphite	Graphite	Graphite	Graphite
440	Gland	1.0460	1.4571	1.0460	1.0460	1.4571
462	Bolt	1.7225	1.7225	1.7225	1.7225	A4-70
464	Hexagonal nut	1.1181	1.7218	1.7218	1.7218	A4-70
500	Stem nut	1.0718	1.0718	1.0718	1.0718	1.0718
600	Handwheel	5.3106	5.3106	5.3106	5.3106	5.3106
610	Hexagonal nut	1.1181	1.1181	1.1181	1.1181	A4-70

Spare parts

Special materials available on request; subject to modifications.

- 1) Hard faced
- 2) Seat armoured with Cr17
- 3) Seat armoured with Stellite
- 4) DN 50 PN 63-160 material 1.0619 armoured with Cr17
- 5) Only with butt-weld ends

Dimensions/mm

PN	DN	Butt-weld ends				Stroke length	ØD
		Flange L1	L	H	H1		
160	10	210	150	218	104	12	180
	15	210	150	218	104	12	180
	20*	230	150	218	104	12	180
	25	230	160	218	104	12	180
	32*	260	180 (210**)	282	150	15	225
	40	260	210	282	150	15	225
	50	300	250	285	155	18	225

Weights/kg

PN	DN	200 AE/BE		240 MT	
		Flange	Butt-weld ends	Flange	Butt-weld ends
160	10	9	6.5	7	4.5
	15	9.1	6.5	7	4.4
	20	11.1	6.4	9	4.3
	25	11.7	6.4	9.6	4.3
	32	19.4	13.6	15.4	9
	40	22.3	15.3	18.3	9.3
	50	27.4	16.1	20.3	11

* Flangetype just up to PN100

** 1.0571, 1.5415, 1.7335, 1.4404

The valves are available in angular form 202 AE/BE. Version similar to page 36.

Kvs value m³/h *

Series	DN10	DN15	DN20	DN25	DN32	DN40	DN50
200 AE (BW)	4.1	5.9	7.6	7.7	17.1	18.1	27.6
200 AE (FL)	2.5	5	6.5	7.7	17.1	18.1	34.2
200 BE (BW)	4.1	5.8	7.3	7.6	17.6	18.5	25.9
200 BE (FL)	2.4	4.9	6.5	7.6	17.6	18.5	31.2
240 MT (BW)	4	5.8	6.9	7.3	17.6	18.9	28.9
240 MT (FL)	2.4	4.9	6.2	7.3	17.6	18.9	34.2

* Deviations are possible due to changed connection dimensions.