

Шаровые клапаны PN 10-40, DN 10-50

Технические характеристики

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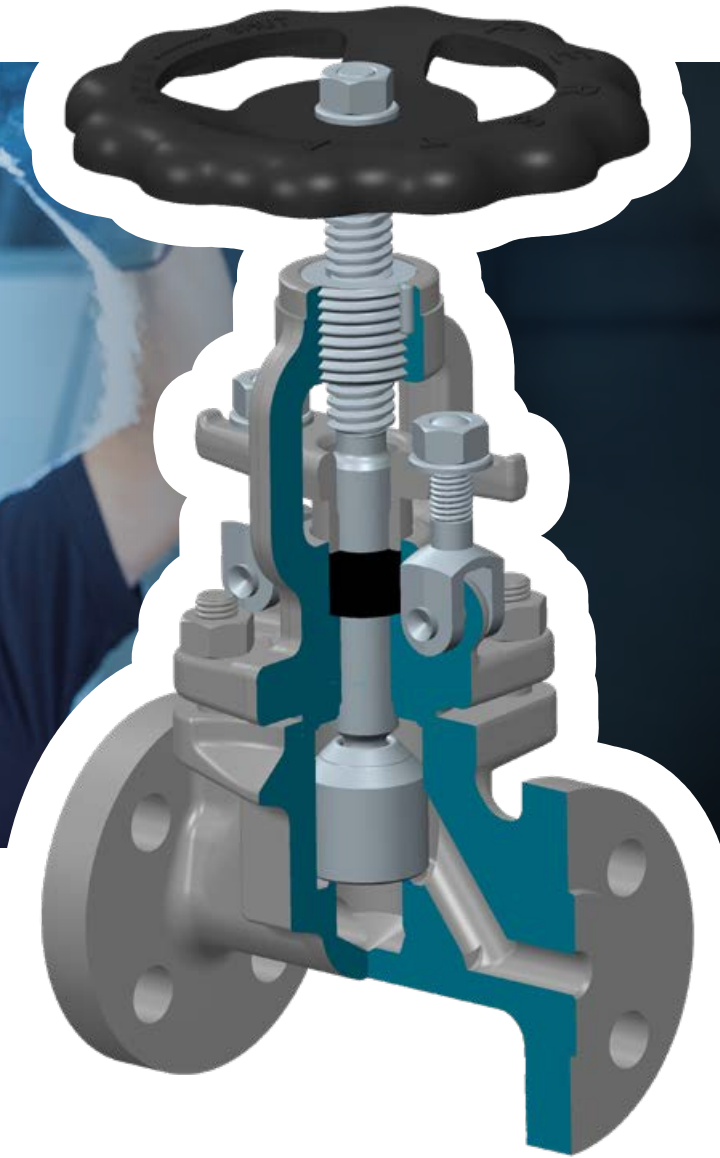
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GLOBE VALVE

200 AE/BE/AJ/BJ PN 10-40 DN 10-50

LIFT CHECK VALVE

240 MT PN 10-40 DN 10-50

Design highlights

- Forged body and bonnet
- Single-piece body
- Seat hard faced or stellite
- Body seal with male and female connection
- Bolted bonnet

Advantages

- Homogeneous joining
- No weld seam
- 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
- Shut-off disc with yoke sleeve, AJ version
- Throttle disc with yoke sleeve, BJ version
- External stem thread
- Position indicator on request
- Rotating, rising stem (AE/BE)
- Non-rotating, rising stem (AJ/BJ)
- Available in angular form 202 AE/BE
- Operation in intermediate position only possible for short periods with the AE/BE versions (stroke 10–90%)

Operating data

- Operating pressure, butt-weld ends, up to 40 bar (DIN 2401)
- Operating pressure, flange ends, up to 40 bar (DIN 2401)
- Operating temperature up to 550 °C

Materials

- 1.0460
- 1.0571
- 1.5415 only butt-weld ends
- 1.7335
- 1.4571

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.

Area of application

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

Material	PN	-200	-60	-10	20	120	150	200	250	300	350	400	450	500	510	520	530	540	550
1.0460	40			40	40	40	37	35	32	28	24	21	10						
1.5415 ⁵⁾	40			40	40	40	40	40	40	35	31	30	28	18	14	11	9		
1.7335	40			40	40	40	40	40	40	40	38	36	34	29	24	19	15	12	9
1.4571	40 ²⁾³⁾⁴⁾	40	40	40	40	40	40	40	40	38	36	34	32	32	31	31	31	31	31
1.0571	40 ⁴⁾		40	40	40	40	37	35	32	28									

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

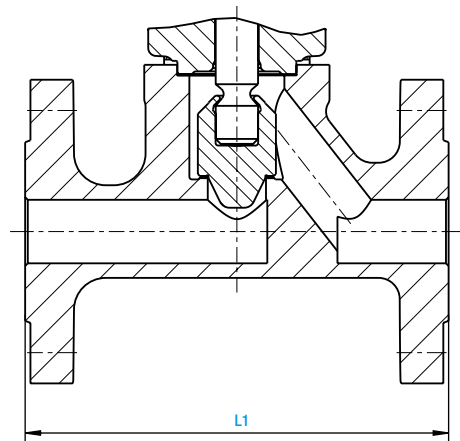
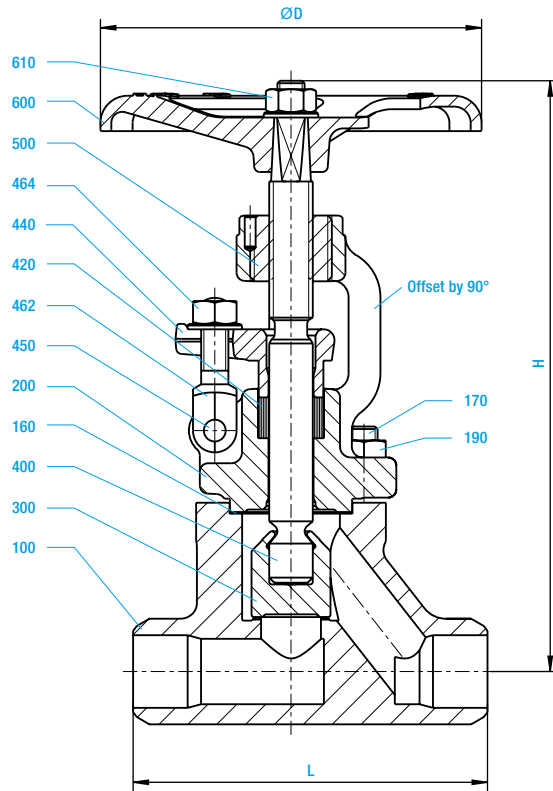
2) Operating > 400 °C operating temperature only permissible if no intergranular corrosion is expected.

3) From > 400 °C operating temperature: bolt material 1.4986.

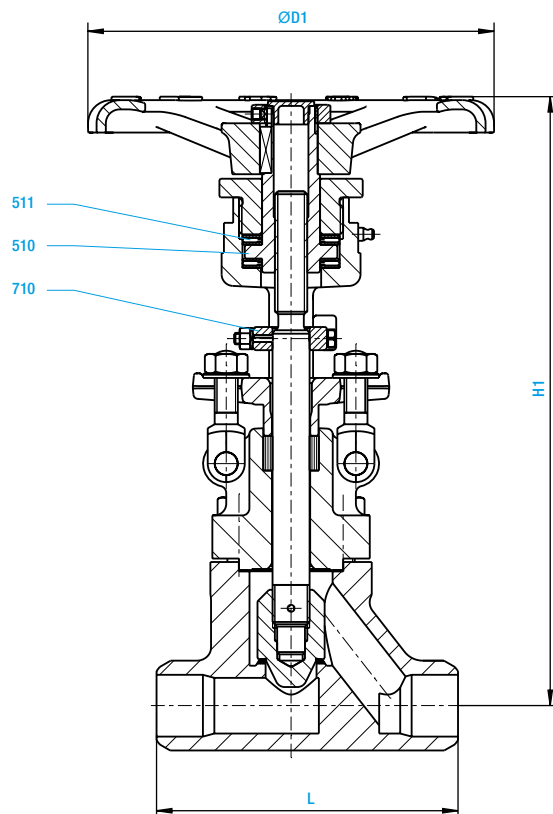
4) For A4-70 bolts with > 8 x d bolt length, the strength values as per Table 6 of DIN 267 Part 11 were taken into account.

5) Only with butt-weld ends.

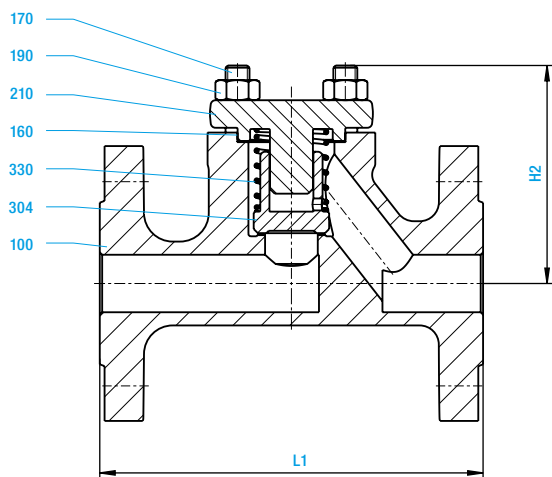
200 AE / BE



200 AJ / BJ



240 MT



Materials

Item	Designation	1.0460 (21)	1.0571(26)	1.5415 (42) ⁴⁾	1.7335 (44)	1.4571 (82)	1.4571 (87)
100	Body	1.0460 ²⁾	1.0571 ²⁾	1.5415 ³⁾	1.7335 ³⁾	1.4571	1.4571
160	Gasket	Graphite	Graphite	Graphite	Graphite	PTFE	Graphite
170	Bolt	1.1181	A4-70	1.7709	1.7709	A4-70	A4-70
190	Hexagonal nut	1.1181	A4-70	1.7218	1.7218	A4-70	A4-70
200	Bonnet	1.0460	1.0571	1.7335	1.7335	1.4571	1.4571
210	Check valve cover	1.0460	1.0571	1.7335	1.7335	1.4571	1.4571
300	Disc	1.4021 ¹⁾	1.0571 ²⁾	1.7335 ³⁾	1.7335 ³⁾	1.4571	1.4571
304	Check valve disc	1.4021 ¹⁾	1.4571	1.4571	1.4571	1.4571	1.4571
330	Spring	1.4310	1.4310	1.4310	1.4310	1.4571	1.4571
400	Stem	1.4021	1.4571	1.4021	1.4021	1.4571	1.4571
420	Packing	Graphite	Graphite	Graphite	Graphite	PTFE	Graphite
440	Gland	1.0460	1.4571	1.0460	1.0460	1.4571	1.4571
450	Rivet pin	1.1181	A4-50	1.1181	1.1181	A4-50	A4-50
462	Glant bolt	1.1181	1.4571	1.1181	1.1181	1.4571	1.4571
464	Hexagonal nut	1.1181	A4-70	1.1181	1.1181	A4-70	A4-70
500	Stem nut	1.0718	1.0718	1.0718	1.0718	1.0718	1.0718
510	Yoke sleeve	1.0718	1.0718	1.0718	1.0718	1.0718	1.0718
511	Needle bearing	WLS _t	WLS _t	WLS _t	WLS _t	WLS _t	WLS _t
600	Handwheel	5.3106	5.3106	5.3106	5.3106	5.3106	5.3106
610	Hexagonal nut	1.1181	1.1181	1.1181	1.1181	A4-70	A4-70
710	Anti-twist device	5.3106	5.3106	5.3106	5.3106	5.3106	5.3106

Spare parts

Special materials available on request; subject to modifications.

Attention: Butt-weld end valves also available in 15Mo3

1) Hard faced

2) Seat armoured with Cr17

3) Seat armoured with Stellite

4) Only butt-weld ends

Dimensions/mm

PN	DN	Flange L1	Butt-weld ends L	H	H1	H2	Stroke length	ØD	ØD1
10-40	10	130	130	220	265	90	12	140	180
	15	130	130	220	265	90	12	140	180
	20	150	130	220	265	90	12	140	180
	25	160	130	220	265	90	12	140	180
	32	180	160	245	330	130	15	180	180
	40	200	180	245	330	130	15	180	180
	50	230	210	285	338	140	18	225	210

Weights/kg

PN	DN	200 AE/BE Flange	Butt-weld ends	240 MT Flange	Butt-weld ends
10-40	10	5.0	4.1	3.4	2.5
	15	5.1	4.1	3.5	2.5
	20	5.7	4.1	4.1	2.5
	25	6.3	4.1	4.8	2.3
	32	10.0	7.6	7.9	5.3
	40	11.7	7.6	9.5	5.3
	50	15.8	11.4	12.3	8.3

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)	3	4.5	6.2	8.6	16	21	30
200 AE (FL)	1.8	3	5.3	8.6	13	21	37.5
200 BE (BW)	2.8	4.2	5.9	7.6	14.5	19.5	26.9
200 BE (FL)	1.5	2.8	4.9	7.6	11.2	19.5	34.5
200 AJ (BW)	3	4.5	6.2	8.6	16	21	30
200 AJ (FL)	1.8	3	5.3	8.6	13	21	37.2
200 BJ (BW)	2.8	4.2	5.9	7.6	14.5	19.5	26.9
200 BJ (FL)	1.5	2.8	4.9	7.6	11.2	19.5	34.5
240 MT (BW)	2.7	4.1	5.7	7.9	14.6	19.2	34
240 MT (FL)	1.7	2.7	5.7	7.9	11.9	19.2	25.8

* Deviations are possible due to changed connection dimensions.

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