

Application

Globe valves (V46) are industrial valves designed to open or close the service fluid flow fully. Control (V40) valves are used to regulate flowing fluid. Both types are used especially in power engineering, chemical industry as well as other industries putting great demands on functionality at high pressures and high temperatures.

Working medium

- water
- steam
- gas
- other fluids
- seawater

Technical description

The valve has a one-piece body which can be a forged or a cast depending on nominal size and nominal pressure. The yoke-type bonnet is also cast or forged and is connected with the body by means of a bolted or flanged joint. The seat and the disc are hard faced. The disc is made as either a plug type disc (valves V46) or a regulating disc (valves V40). Valves with regulating disc have a linear regulating characteristic. Tightness is achieved by means of special graphite gaskets and packing rings. Tightness of the stem of valve type V46.6 is achieved by a bellows. The valves are designed so as to be earthquake resistant.

Operation

- manual (hand wheel, chain wheel)
- electric actuator
- pneumatic actuator, hydraulic actuator
- actuator located out of the valve

Globe valves can be equipped with a locking device. Position indicator on request.

Operation is dimensioned for the working parameters acc. to EN 13709.



Testing

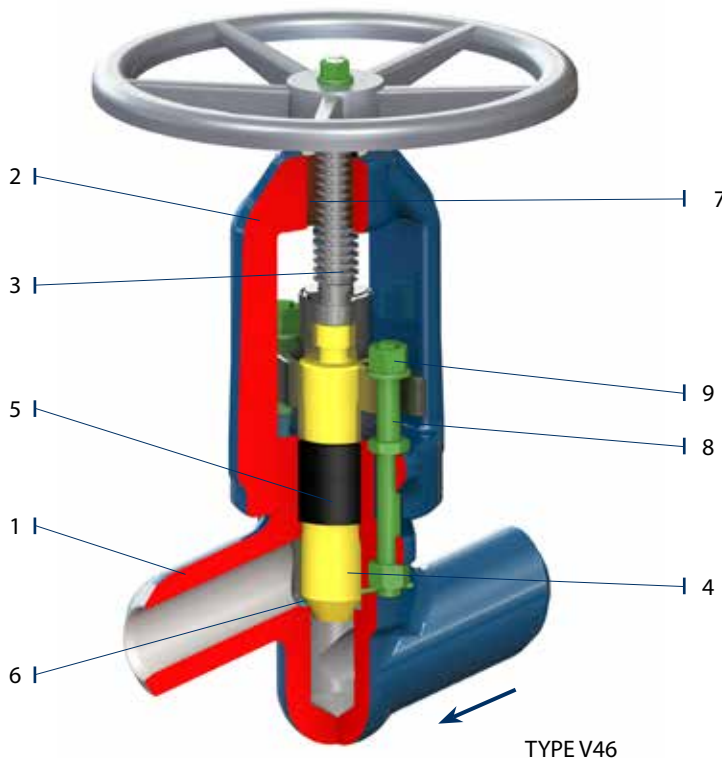
Valves are subject to shell strength test, shell tightness test, seat tightness test and functionality test according to EN 12266 with water as a standard. If required, other tests may be performed as well.

Connection to the piping

- flanged ends acc. to EN 1092-1, ISO 7005-1, GOST 12815-80
- welded ends acc. to EN 12627

Installation

Valves may be installed in any position. The flow direction shall correspond to the arrow on the valve body.

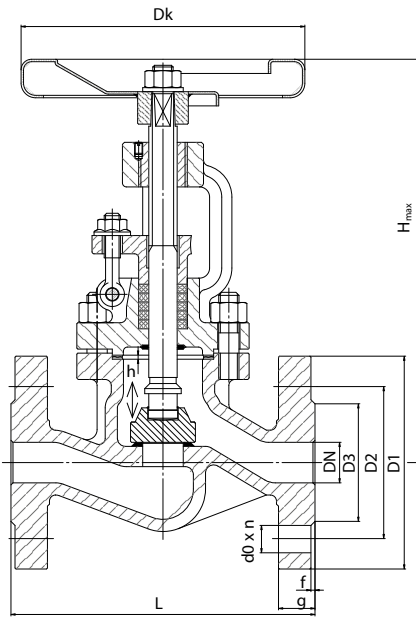


Position	Component
1	Body
2	Bonnet
3	Top stem
4	Bottom stem
5	Packing
6	Seat
7	Stem nut
8	Bolts
9	Nuts



PN 16-40 • DN 15-200 • Tmax 600 °C (450°C)

Connection: EN 1092-1, ISO 7005-1, GOST 12815-80 FLANGED ENDS
 EN 12627 WELDED ENDS

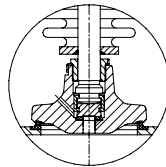


Material

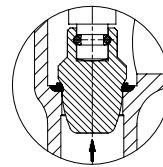
Component	Tmax 450 °C	Tmax 530 °C	Tmax 560 °C	Tmax 600 °C
Body, bonnet	GP240GH (1.0619)	G20Mo5 (1.5419)	G17CrMo5-5 (1.7357)	1.4408
Seat	13Cr *	Stellite		A182 F316, Stellite
Disc DN 15-32	13Cr	16Mo3 (1.5415)	13CrMo4-5 (1.7335)	1.4401
Disc DN 40-200	P250GH (1.0460)	16Mo3 (1.5415)	13CrMo4-5 (1.7335)	1.4408
Disc ring	13Cr *	Stellite		A182 F316, Stellite
Stem	13Cr			A182 F316
Gasket	Graphite + Austenite			

* We recommend Stellite overlay for steam as a medium (Trim.5)

DN 125-200
equilibrating disc



throttle plug



PN	DN	D1	D2	D3	do x n	L	g	f	H _{max}	h	Dk	kg
16	15	95	65	45	4 x 14	130	16	2	190	13	120	3,8
	20	105	75	58	4 x 14	150	18	2	225	13	140	4,5
	25	115	85	68	4 x 14	160	18	2	240	13	160	5
	32	140	100	78	4 x 18	180	18	2	255	15	180	9,5
	40	150	110	88	4 x 18	200	18	3	275	19	200	10,7
	50	165	125	102	4 x 18	230	18	3	315	24	200	12,8
	65	185	145	122	8 x 18	290	18	3	360	30	250	28,4
	80	200	160	138	8 x 18	310	20	3	390	40	280	37
	100	220	180	158	8 x 18	350	20	3	435	45	300	52
	125	250	210	188	8 x 18	400	22	3	480	55	350	70
25	150	285	240	212	8 x 22	480	22	3	535	65	500	106
	200	340	295	268	12 x 22	600	24	3	675	75	500	207
	15	95	65	45	4 x 14	130	16	2	190	13	120	3,8
	20	105	75	58	4 x 14	150	18	2	225	13	140	4,5
	25	115	85	68	4 x 14	160	18	2	240	13	160	5
	32	140	100	78	4 x 18	180	18	2	255	15	180	9,5
	40	150	110	88	4 x 18	200	18	3	275	19	200	10,7
	50	165	125	102	4 x 18	230	20	3	315	24	200	12,8
	65	185	145	122	8 x 18	290	22	3	360	30	250	28,4
	80	200	160	138	8 x 18	310	24	3	390	40	280	37
40	100	235	190	162	8 x 22	350	24	3	435	45	300	52
	125	270	220	188	8 x 26	400	26	3	480	55	350	70
	150	300	250	218	8 x 26	480	28	3	535	65	500	106
	200	360	310	278	12 x 26	600	30	3	675	75	500	207
	15	95	65	45	14 x 4	130	16	2	170	13	120	3,1
	20	105	75	58	14 x 4	150	18	2	184	13	140	4,4
	25	115	85	68	14 x 4	160	18	2	206	13	160	5,6
	32	140	100	78	18 x 4	180	18	2	210	15	180	7,6
	40	150	110	88	18 x 4	200	18	3	238	19	200	9,8
	50	165	125	102	18 x 4	230	20	3	276	24	200	14
65	185	145	122	18 x 8	290	22	3	315	30	250	21	
80	200	160	138	18 x 8	310	24	3	350	40	280	27,5	
100	235	190	162	22 x 8	350	24	3	392	45	300	41	
125	270	220	188	26 x 8	400	26	3	480	55	350	70	
150	300	250	218	26 x 8	480	28	3	535	65	500	106	
200	375	320	285	30 x 12	600	34	3	675	75	500	207	