

Globe valve series GL131, GL132

Application

Globe valves and control valves are designed for water, steam, gases and other fluids. They are used especially in power engineering, chemical industry as well as other industries putting great demands on functionality at high pressures and high temperatures. The valves can be supplied in a special modification for sea water as well.

Technical description

The valve has a one-piece body which can be forged or 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 seal. The valves are designed so as to be earthquake resistant.

Operation

Handwheel, chain wheel, electric actuator, pneumatic actuator, hydraulic actuator, remote operation. Valves can be equipped with a locking device.

Testing

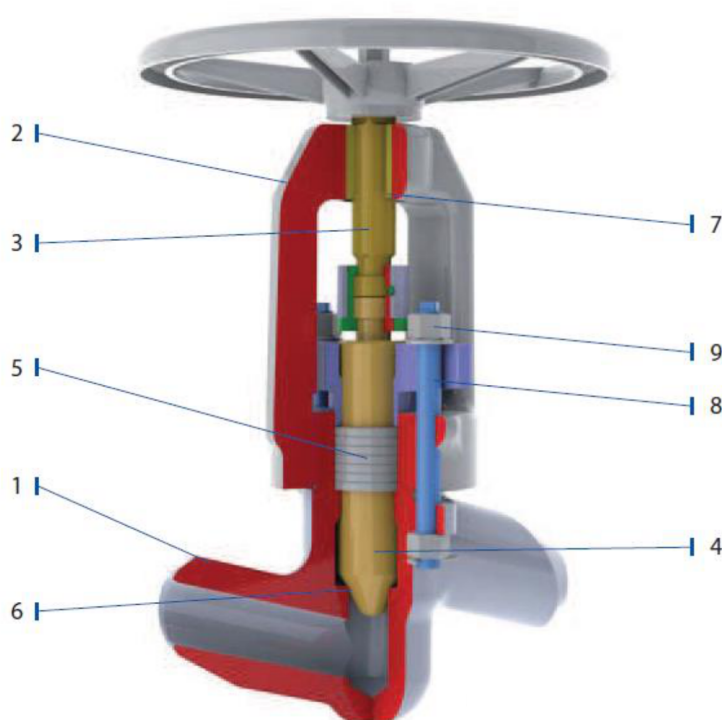
Valves are subject to shell strength test, shell tightness test, seat tightness test and functionality test according to EN 12266 with water as a standard. If required, other tests may be performed as well.

Connection to the piping

Flanged or welded ends as well as special ends (threaded or socket welding ends, for instance).

Installation

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



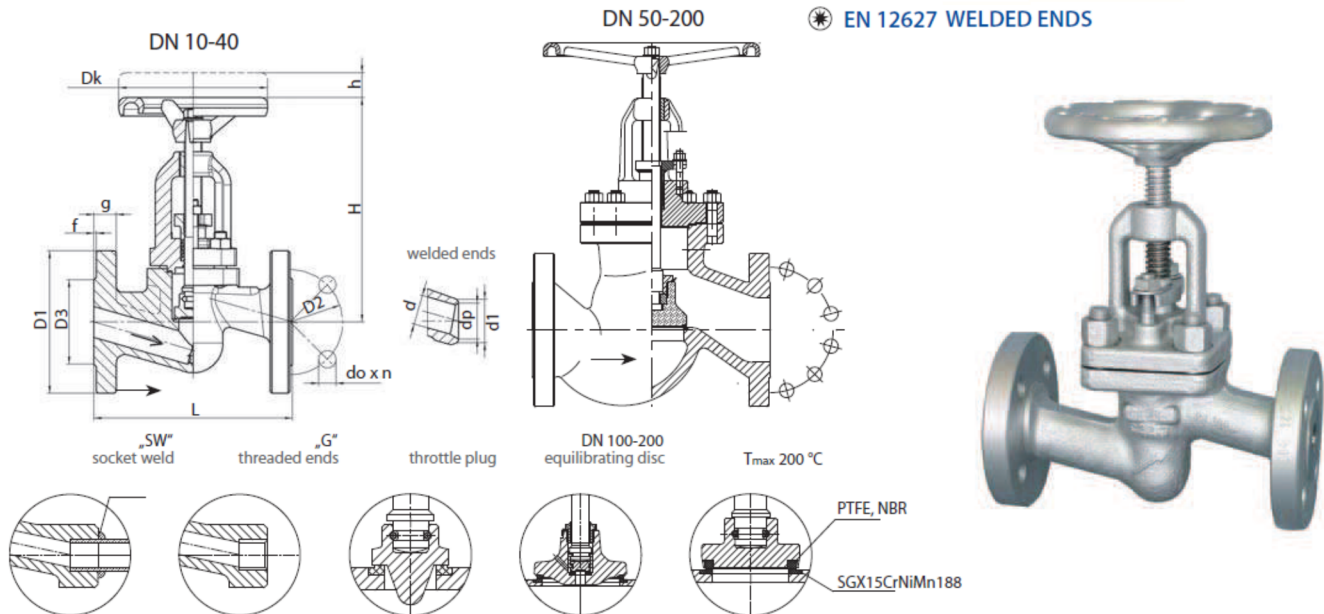
Position	Component
1	Body
2	Bonnet
3	Top stem
4	Bottom stem
5	Packing
6	Seat ring
7	Stem nut
8	Bolts
9	Nuts

Globe valve series GL131, GL132



PN 63-100 • DN 10-200 • Tmax 560 °C (450 °C)

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



Material

Součást / Component	Tmax 450 °C	Tmax 530 °C	Tmax 560 °C	Other versions
Body, bonnet DN 10-40	(P250GH) C22.8 (1.0460)	16Mo3 (1.5415)	13CrMo4-5 (1.7335)	(P250GH) C22.8, 16Mo3, 13CrMo4-5
Body, bonnet DN 50-200	GP240GH (1.0619)	G20Mo5 (1.5419)	G17CrMo5-5 (1.7357)	GP240GH, G20Mo5, G17CrMo5-5
Seat ring	G 18 8 Mn (1.4370)			Stellit
Disc DN 10-50	X30Cr13 (1.4028)	X30Cr13 (1.4028)	13CrMo4-5 (1.7335)	X30Cr13, 13CrMo4-5
Disc DN 65-200	P250GH (1.0460)	16Mo3 (1.5415)	13CrMo4-5 (1.7335)	P250GH, 13CrMo4-5
Disc ring	G 18 8 Mn (1.4370)			Stellit, PTFE, NBR
Stem	X20Cr13 (1.4021)	X17CrNi16-2 (1.4057)	X39CrMo17-1 (1.4122)	VT9
Gasket	Graft + Austenit / Graphite + Austenite			
Handwheel	Litina / Cast iron			

PN	DN	d	Flanged ends													Welded ends			
			D1		D3		D2	do x n	L	g	f	H	h	Dk	kg	d1	dp	L	kg
			GOST	EN	GOST	EN													
63 100	10	10	100		42	40	70	14 x 4	210	20	2	160	13	120	5,4	18	13	160	3,0
	15	14	105		47	45	75	14 x 4	210	20	2	160	13	120	5,4	22	15,5	160	3,0
	20	19	125	130	58		90	18 x 4	230	22	2	160	13	120	9,8	27	20,5	160	3,0
	25	23	135	140	68		100	18 x 4	230	24	2	160	13	120	10,8	34	26,5	160	3,0
	32	30	150	155	78		110	22 x 4	260	24	2	210	16	160	15,0	43	35	230	9,3
	40	38	165	170	88		125	22 x 4	260	28	3	210	18	160	15,7	49	41	230	9,5
63	50	45	175	180	102		135	22 x 4	300	26	3	250	22	200	30,7	57	51,2	300	19,9
	65	62	200	205	122		160	22 x 8	340	26	3	290	30	250	46,0	77	65	340	30,9
	80	73	210	215	133	138	170	22 x 8	380	28	3	300	40	320	62,0	89	78	380	48,7
	100	94	250		158	162	200	22 x 8	430	30	3	500	55	360	121,5	115	104	430	95,1
	125	120	295		184	188	240	26 x 8	500	34	3	600	65	400	168,0	141	127	500	137,9
	150	144	340	355	212	218	290	33 x 8	550	36	3	700	70	500	251,0	170	158	550	201,1
100	200	195	405	415	285		345	36 x 12	650	42	3	900	100	600	290,0	265	215	650	215,0
	50	45	195		102		145	26 x 4	300	28	3	250	22	180	30,7	57	51,2	300	19,9
	65	62	220		122		170	26 x 8	340	30	3	290	30	280	46,0	77	65	340	30,9
	80	73	230		133	138	180	26 x 8	380	32	3	300	40	360	62,0	89	78	380	48,7
	100	94	265		158	162	210	30 x 8	430	36	3	500	55	360	121,5	115	104	430	95,1
	125	120	310	315	184	188	250	33 x 8	500	40	3	600	65	400	168,0	141	127	500	137,9
100	150	144	350	355	212	218	290	33 x 12	550	44	3	700	70	500	251,0	170	158	550	201,1
	200	195	430		285		360	36 x 12	650	52	3	900	100	600	295,0	275	215	650	218,0

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