

1225 A

Globe valves
Slanted seat type
Bellows sealed

PN 10-40 DN 15-200

Design

Acc. to DIN 3356

Top part

Split stem,
Rising stem upper-part
with outside screw,
Rising handwheel

Stem sealing

Bellow with additional
stuffing box

Obturator

Disk

Body seat

Integral seat

Valve ends

Flanges acc. to
EN 1092-1 (DIN 2501
Part 1)

Requirements and tests

Acc. to DIN 3356 Part 1
BA = 1,3 x PN

Marking

Nominal size DN
Nominal pressure PN
Body material
Manufacturer brand
Flow direction arrow

Pos.	Denomination	Material		Pos.	Denomination	Material	
		1.0619	1.4408			1.0619	1.4408
1	Body	1.0619	1.4408	12	Sleeve	1.4021	1.4021
2	Yoke	1.0619	1.4408	15	Packing	Graphite	Graphite
3	Gland	1.0460	1.4571	16	Gasket	Graphite /	Graphite /
4	Handwheel	GTS/GTW	GTS/GTW			1.4401	1.4401
5	Disk	1.4571	1.4571	18	Stud bolt	1.0460	A4-70
6.1	Stem-under part	1.4571	1.4571	23	Stud bolt	1.7218	A4-70
6.2	Bellow	1.4571	1.4571	25	Hex. nut	1.7218	A4
6.3	Gland housing	1.4571	1.4571	26	Hex. nut	1.7218	A4
7	Stem-upper part	1.4021	1.4571	30	Coupling	1.4581	1.4581
10	Disc screwing	1.4571	1.4571				

Face-to-face dimension acc. to EN 558-1 series 1 (DIN 3202-F1)

DN	15	25	40	50	80	100	150	200
L	130	160	200	230	310	350	480	600
H	280	285	385	405	525	570	720	810
H1	287	296	402	427	560	615	785	895
Ø d	140	140	200	200	250	250	280	320
PN	b							24
10	kg					use PN 16		
PN	b				20	20	22	26
16	kg		use PN 40					
PN	b							30
25	kg					use PN 40		
PN	b	16	18	18	20	24	24	28
40	kg							34
k _{vs}		7	18	50	80	200	320	710
								1250

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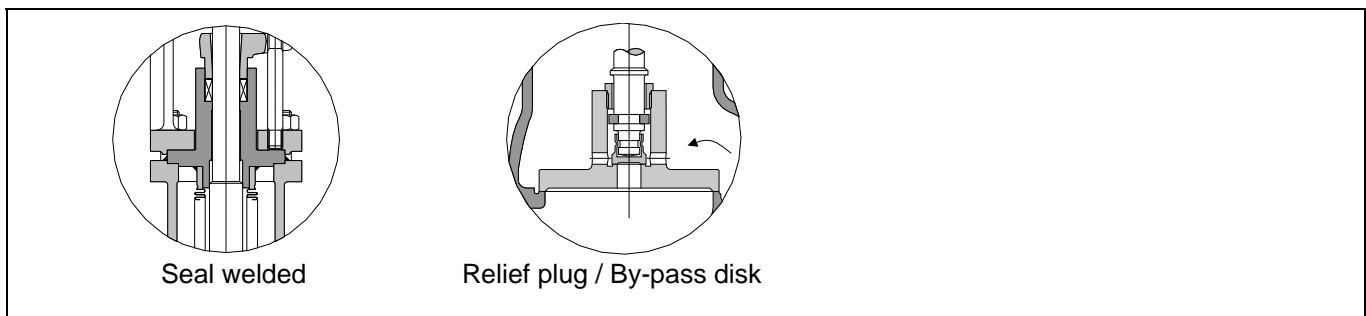
PN 10-40 DN 15-200

Pressure/Temperature ratings in bar g at Temperature in °C

Material	PN	50°C	100°C	120°C	150°C	200°C	250°C	300°C	350°C	400°C			
»1.0619« GP240GH EN 10213	10	10,0	8,7	8,7	8,0	7,2	6,6	6,0	5,6	5,4			
	16	16,0	14,0	14,0	12,8	11,6	10,6	9,6	9,0	8,6			
	25	25,0	21,8	21,8	20,0	18,2	16,6	15,1	14,0	13,5			
	40	40,0	35,0	35,0	32,0	29,1	26,6	24,1	22,5	21,6			
»1.4408« GX6CrNiMo18-10-2 EN 10213	10	10,0	8,2	8,2	7,2	6,2	5,7	5,1					
	16	16,0	13,2	13,2	11,6	10,0	9,1	8,2					
	25	25,0	20,7	20,7	18,1	15,7	14,2	12,8					
	40	40,0	33,1	33,1	29,0	25,1	22,8	20,5					

Modifications

Seal welded
Relief plug / By-pass disk
Heating jacket
Soft seated disk
Conical disk



Installation

Piping is to be in such a manner that injurious thrust and bending forces are kept away from the valve casings. Globe valves are usually installed thus allowing the liquid to enter below the plug and to leave above it. Globe valves can also be installed in pipelines with changing flow directions up to the under mentioned differential pressures between the working pressure before the closing plug and the back pressure behind it. As soon as these differential pressures will be exceeded, relief plugs have to be provided for. These have to be installed in such a way that the pressure to be sealed has to be above the plug.

Nominal size DN	150	200
Δp [bar]	21	14

The relief plug has the function of a by-pass and can only serve its purpose when after opening a back pressure is built up so that the differential pressure becomes smaller than the figures in the above table. If this is not possible, special designs are necessary. In this case we need the exact working conditions. When turning the handwheel it is not allowed to use additional levers.

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