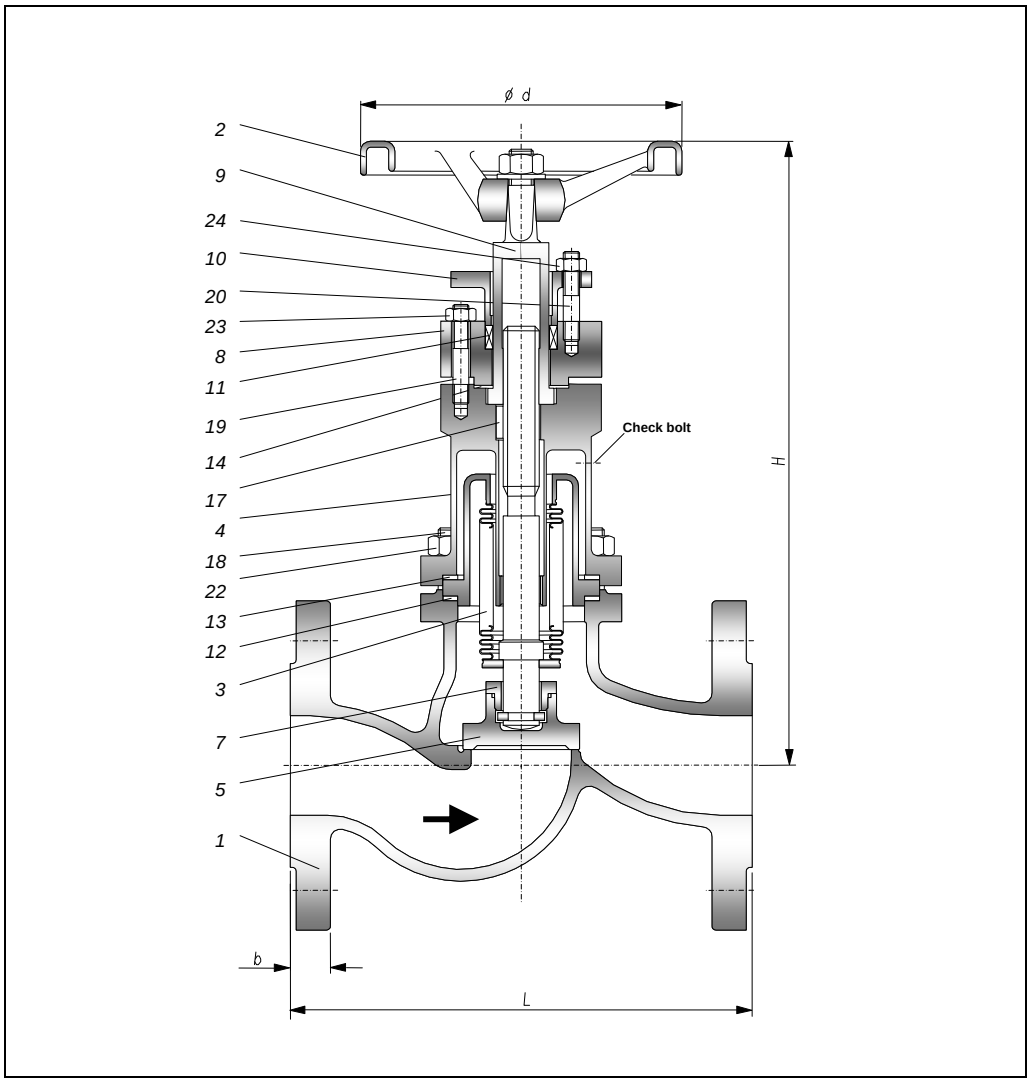
1107

Globe valve
Bellow sealed
Straight seat type

PN 10-40 DN 15-200



Design
Acc. to DIN 3356

Top part
Non-rising handwheel
Rising Stem

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 1.4308	1.4408	Pos.	Denomination	Material 1.4308	1.4408
1	Body	1.4308	1.4408	11	Packing	Graphite	Graphite
2	Handwheel	GTS7GTW	GTS/GTW	12,13	Gasket	Graphite / 1.4401	Graphite / 1.4401
3	Bellow insert	1.4541	1.4571				
	- Bellow	1.4571	1.4571	14	Bearing	PTFE/Coal	PTFE/Coal
4	Bonnet	1.0402 / 1.0305	1.0402/ 1.0305	17	Fitting key	1.0531	1.0531
				18	Stud bolt	A2-70	A4-70
5	Disk	1.4541	1.4571	18	Stud bolt	A2-70	A4-70
7	Disk screwing	1.4541	1.4571	20	Stud bolt	5.6	5.6
8	Cover	1.0042	1.0042	22	Hex. nut	A2	A4
9	Stem nut	0.7040	0.7040	23	Hex. nut	A2	A4
10	Gland	1.0042	1.0042	24	Hex. nut	5	5

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

DN		15	20	25	32	40	50	65	80	100	125	150	200
L		130	150	160	180	200	230	290	310	350	400	480	600
H		320	345	345	345	405	405	510	540	585	650	685	830
Ø d		140	140	140	140	180	180	200	200	225	280	280	320
PN 10	b	use PN 40						use PN 16					24
	kg												
PN 16	b							18	20	20	22	22	26
	kg												
PN 25	b							use PN 40					30
	kg												
PN 40	b	16	18	18	18	18	20	22	24	24	26	28	34
	kg												
k_{VS}		4	6,3	10	16	25	40	63	100	160	250	360	630

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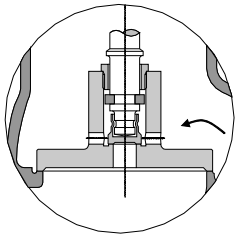
PN 10-40 DN 15-200

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					
»**1.4308**«	**10**	10,0	7,7	7,7	6,7	5,7	5,2	4,8					
GX5CrNi19-10	**16**	16,0	12,3	12,3	10,7	9,1	8,4	7,7					
EN 10213	**25**	25,0	19,2	19,2	16,7	14,2	13,1	12,1					
	40	40,0	30,8	30,8	26,8	22,8	21,0	19,4					
»**1.4408**«	**10**	10,0	8,2	8,2	7,2	6,2	5,7	5,1					
GX6CrNiMo18-10-2	**16**	16,0	13,2	13,2	11,6	10,0	9,1	8,2					
EN 10213	**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
Position Indicator
Throttle plug / Regulating disk
Relief plug / By-pass disk
Bonnet made of stainless steel
Soft seated disk
Conical disk



Relief plug / By-pass disk

Installation

Piping is to bed 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	125	150	200
Δp [bar]	33	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.

KLAUS UNION · Blumenfeldstrasse 18 · D-44795 Bochum · Tel. +49 (0)234 45 95-0 · www.klaus-union.de
KLAUS UNION · PO Box 10 13 49 · D-44713 Bochum · Fax +49 (0)234 45 95-7000