

1402

Gate valves

Double disk type

PN 10 - 25 DN 50 - 600

Design

Acc. to DIN 3352

Top part

Outside screw
Non-rising handwheel
Rising stem
Up to DN 125 one-piece bonnet

Obturator

Double disk

Body seat

Integral seats
min. 13% Cr

Valve ends

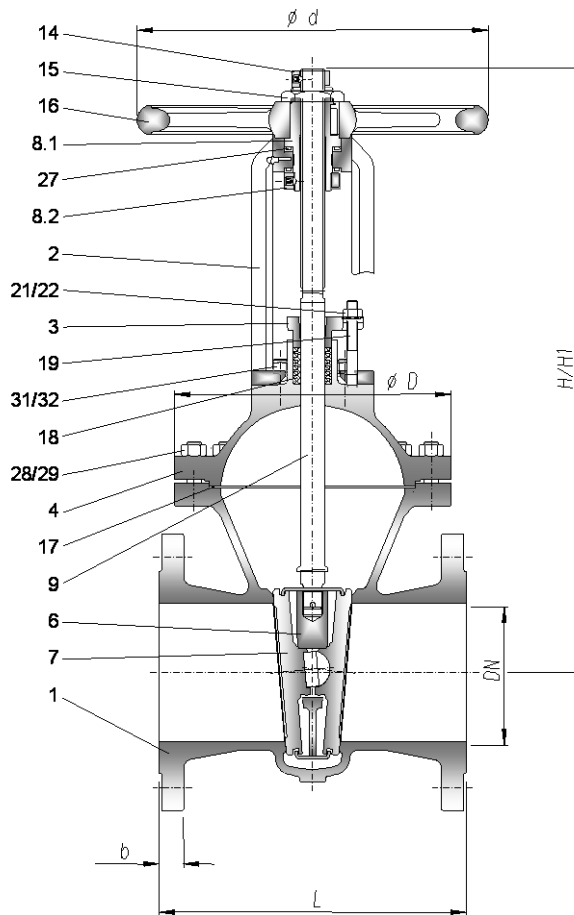
Flanges acc. to
EN 1092-1 (DIN 2501
Part 1)

Requirements and tests

Acc. to DIN 3352 Part 1

Marking

Nominal size DN
Nominal pressure PN
Body material
Manufacturer brand



Pos.	Denomination	Material		Pos.	Denomination	Material	
		1.0619	1.7221			1.0619	1.7221
1	Body	1.0619	1.7221	17	Gasket	1.4541 /	1.4541 /
2	Yoke	1.0619	1.7221		(grooved)	Graphite	Graphite
3	Gland	1.0619	1.7221	18	Packing	Graphite	Graphite
4	Bonnet	1.0619	1.7221	19	Stud bolt	1.7218	A2-70
6	Support	1.0619	1.4308	21	Washer	Stahl	1.4541
7	Sealing plates	1.4541	1.4541	22	Hex. Nut	1.1118	A2
8.1	Sleeve	0.7040	0.7040	27	Bearing	Cr.-steel	Cr.-steel
8.2	Threaded ring	1.4021	1.4021	28	Stud bolt	1.7218	A2-70
9	Stem	1.4541	1.4541	29	Hex. Nut	1.1118	A2
14	Stroke limiter	1.4021	1.4021	31	Stud bolt	1.7218	A2-70
15	Retaining nut	Steel, zinc-coated		32	Hex. Nut	1.1181	A2
16	Handwheel	Steel	Steel				

¹ further materials are shown in the technical part

Face-to-face dimensions acc. to EN 558-1 series 15 (DIN 3202-F5)

DN	50	65	80	100	125	150	200	250	300	350	400	500	600
L	250	270	280	300	325	350	400	450	500	550	600	700	800
H	325	365	405	475	560	645	800	945	1130	1280	1385	1775	2025
H1	390	445	505	595	710	820	1025	1220	1460	1655	1815	2310	2665
Ø d	200	225	225	320	360	400	400	500	500	500	640	720	800
Ø D	178	182	215	255	272	315	365	440	515	580	615	750	850
PN 10	b	18	18	20	20	22	22	24	26	28	30	32	36
	kg												
PN 16	b	20	18	20	20	22	22	24	26	28	30	32	36
	kg												
PN 25	b	20	22	24	24	26	28	30	32	34	38	40	44
	kg												

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			
»1.7221« GS-26CrMo4 SEW685/AD-W10	10	10,0	9,1	8,8	8,3	8,1	7,9	7,5					
	16	16,0	14,6	14,1	13,3	13,0	12,6	12,0					
	25	25,0	22,9	22,0	20,8	20,3	19,7	18,7					

Modifications

Position Indicator
Butt-welding ends
Pressure relieve
By-pass tube
Spring loaded stuffing box

Additional equipment

Chain wheel
Stem extension
Gear
Electric actuator

Installation

Piping is to be in such a manner that injurious thrust and bending forces are kept away from the valve casings. Gate valves are usually installed with vertical stem position. Gate valves can also be installed in pipelines with changing flow directions. If in the closed position the medium between the obturator and the middle area of the body can be heated up, the user has to check if a cavity pressure relief must be used. In this case e.g. a relief valve will be installed via tube to the inlet side of the gate valve (defined flow direction).

When turning the handwheel it is not allowed to use additional levers.

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Non-rising handwheel
Rising stem
Up to DN 125 one-piece bonnet

Obturator

Double disk

Body seat

Integral seats

Valve ends

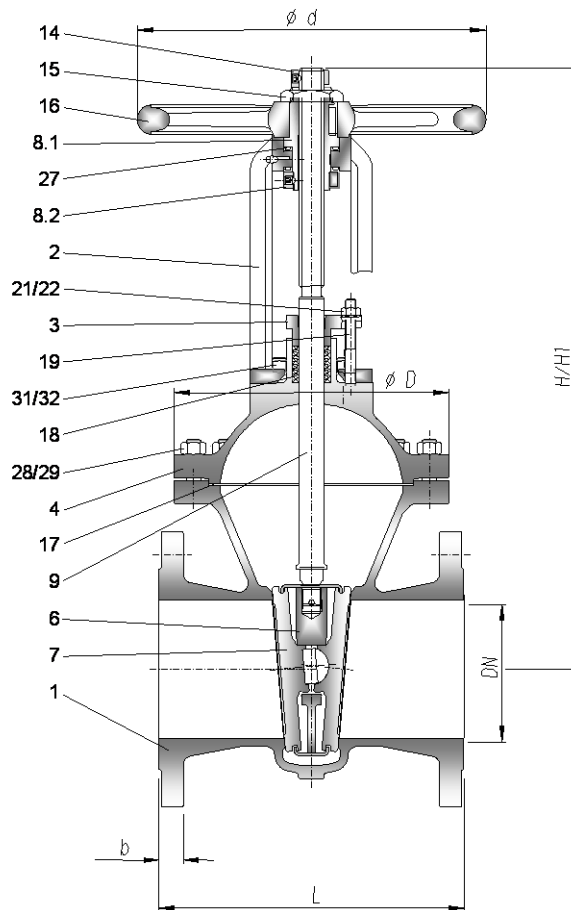
Flanges acc. to
EN 1092-1 (DIN 2501
Part 1)

Requirements and tests

Acc. to DIN 3352 Part 1

Marking

Nominal size DN
Nominal pressure PN
Body material
Manufacturer brand



Pos.	Denomination	Material		Pos.	Denomination	Material	
		1.4308	1.4408			1.4308	1.4408
1	Body	1.4308	1.4408	17	Gasket (grooved)	1.4541 / Graphite	1.4571 / Graphite
2	Yoke	1.4308	1.4408	18	Packing	Graphite	Graphite
3	Gland	1.4541	1.4571	19	Stud bolt	A2-70	A4-70
4	Bonnet	1.4308	1.4408	21	Washer	1.4541	1.4571
6	Support	1.4308	1.4408	22	Hex. Nut	A2	A4
7	Sealing plates	1.4541	1.4571	27	Bearing	Cr.-steel	Cr.-steel
8.1	Sleeve	0.7040	0.7040	28	Stud bolt	A2-70	A4-70
8.2	Threaded ring	1.4541	1.4571	29	Hex. Nut	A2	A4
9	Stem	1.4541	1.4571	31	Stud bolt	A2-70	A4-70
14	Stroke limiter	1.4021	1.4021	32	Hex. nut	A2	A4
15	Retaining nut	Steel, zinc-coated					
16	Handwheel	Steel	Steel				

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Face-to-face dimensions acc. to EN 558 series 15 (DIN 3202-F5)

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PN 10	b	18	18	20	20	22	22	24	26	28	30	32	36
	kg												
PN 16	b	20	18	20	20	22	22	24	26	28	30	32	36
	kg												
PN 25	b	20	22	24	24	26	28	30	32	34	38	40	44
	kg												

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

Material	PN	50°C	120°C	150°C	200°C	250°C	300°C						
»1.4308« GX5CrNi19-10 EN 10213	10	10,0	7,7	6,7	5,7	5,2	4,8						
	16	16,0	12,3	10,7	9,1	8,4	7,7						
	25	25,0	19,2	16,7	14,2	13,1	12,1						
»1.4408« GX6CrNiMo18-10-2 EN 10213	10	10,0	8,2	7,2	6,2	5,7	5,1						
	16	16,0	13,2	11,6	10,0	9,1	8,2						
	25	25,0	20,7	18,1	15,7	14,2	12,8						

Modifications

Position indicator
 Extended bonnet
 Butt-welding ends
 Pressure relief
 By-pass tube
 Spring loaded stuffing box

Additional equipment

Chain wheel
 Stem extension
 Gear
 Electric actuator

Installation

Piping is to be in such a manner that injurious thrust and bending forces are kept away from the valve casings. Gate valves are usually installed with vertical stem position. Gate valves can also be installed in pipelines with changing flow directions. If in the closed position the medium between the obturator and the middle area of the body can be heated up, the user has to check if a cavity pressure relief must be used. In this case e.g. a relief valve will be installed via tube to the inlet side of the gate valve (defined flow direction).

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