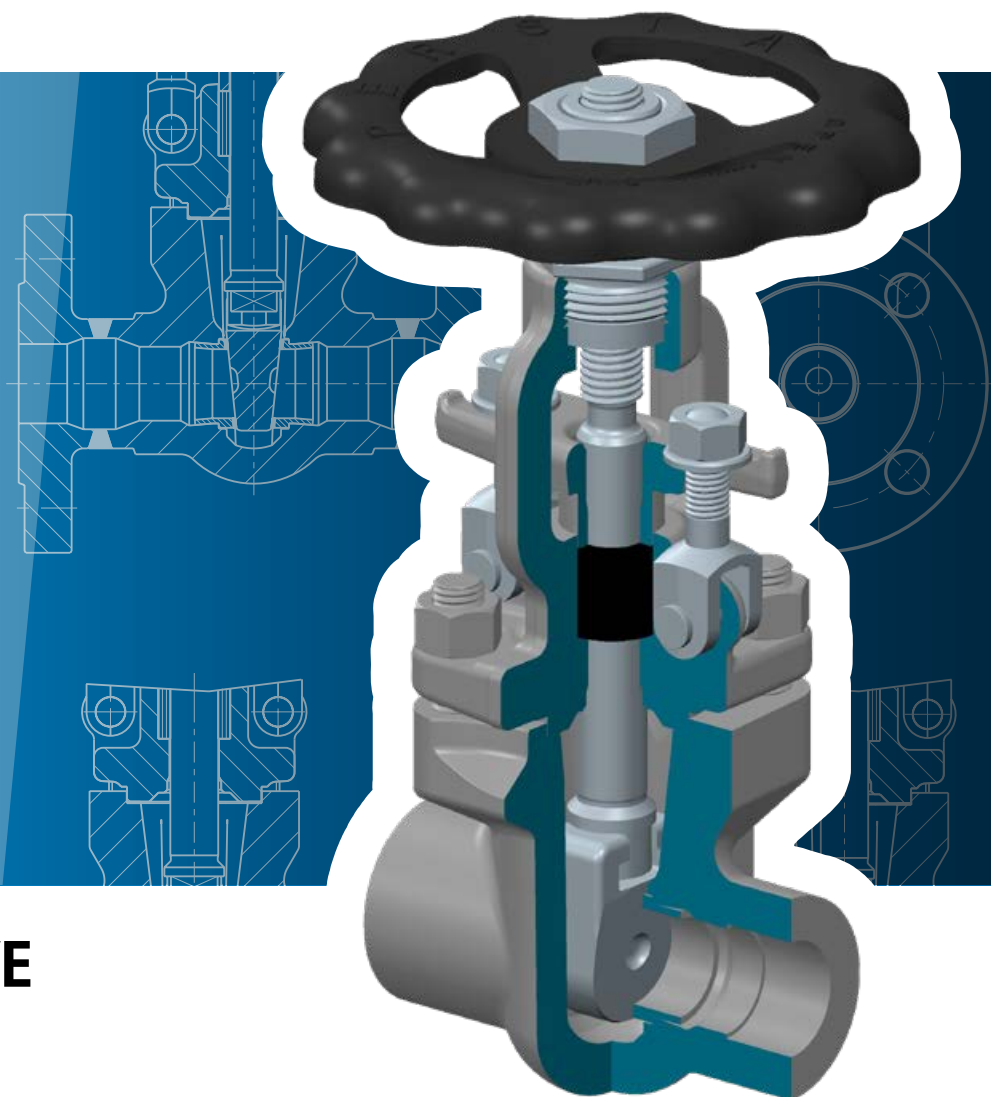




SMALL GATE VALVE

808 GJ PN 10-100 DN 10-40

Design highlights

- Forged body and bonnet
- Disc material 1.4021 or Stellite 6 and seat ring material 1.4571
- Body seal with male and female connection
- Full bore
- Non-rotating, rising stem

Advantages

- Homogeneous joining, sturdy and heavy duty
- Absolute seat impermeability and low wear
- No constriction in seat
- Blow-out-proof seal – improved external impermeability
- Minimum packing wear

Version

- Forged body and bonnet
- Body with full bore
- Solid wedge
- External stem thread
- Non-rotating, rising stem
- Available in flange version, butt-weld end or socket weld version.

Operating data

- Operating pressure, butt-weld ends, up to 100 bar (DIN 2401)
- Operating pressure, flange ends, up to 100 bar (DIN 2401)
- Operating temperature up to 550 °C

Materials

- 1.0460
- 1.7335
- 1.0571
- 1.4571

Other materials available on request.

Applications

In chemical, industrial and power plants, and in shipbuilding.

Flow medium

Depending on the choice of materials, the small gate valves can be used for water, steam, gas, oil or other non-aggressive media.

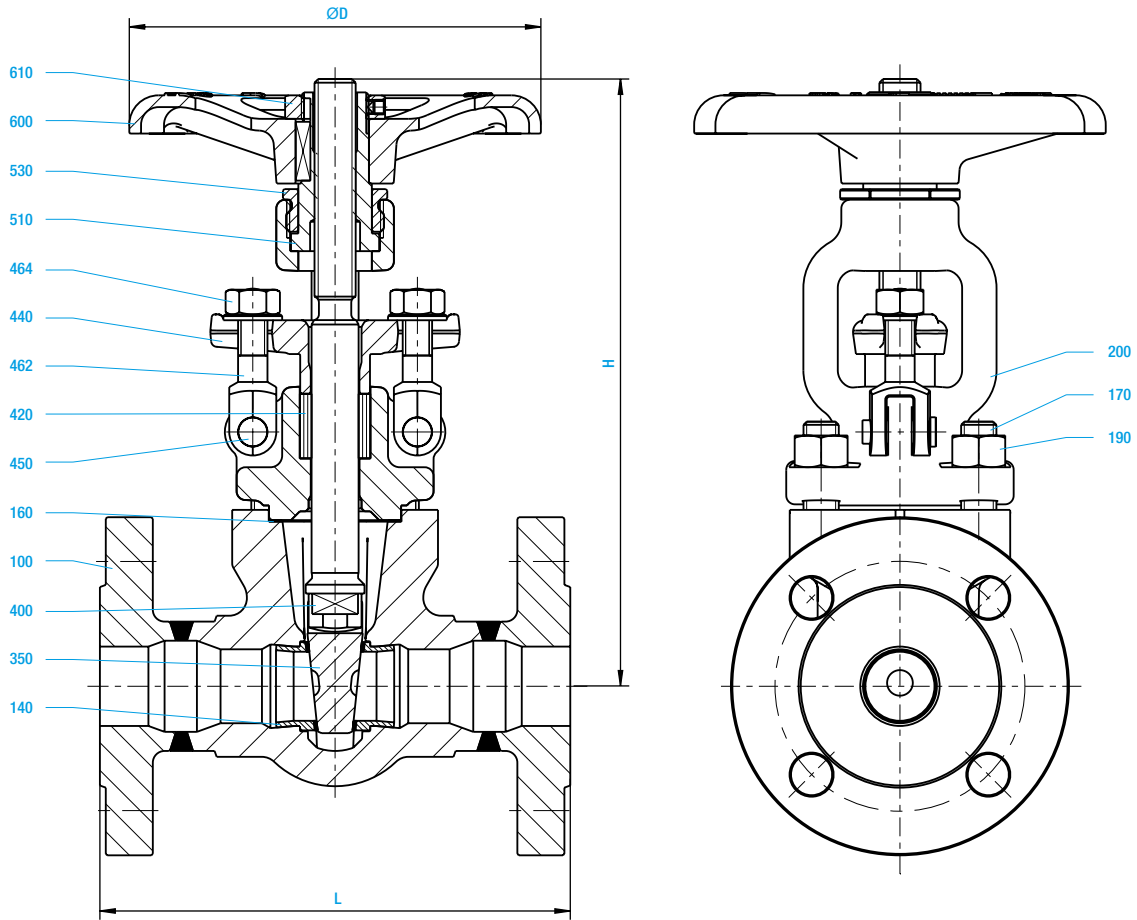
Area of application

Permissible operating pressure [bar(g)] at calculation temperature [°C] ¹⁾

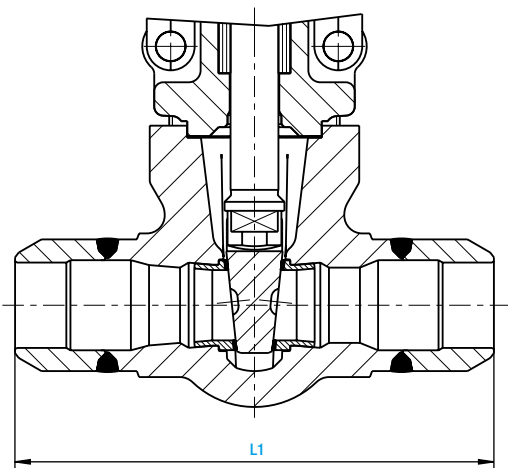
Material	PN	-200	-60	-10	20	100	200	250	300	350	400	450	475	480	500	510	520	530	540	550
1.0460	40			40	40	40	35	32	28	24	21	13	8	7						
	63			63	63	63	50	45	40	36	32	21	13	12						
	100			100	100	100	80	70	60	56	50	34	21	19						
1.7335	40			40	40	40	40	40	40	38	36	34	31.5	31	29	24	19	15	12	9
	63			63	63	63	63	63	63	61	58	56	51.5	50.6	47	40	32	25	20	15
	100			100	100	100	100	100	100	95	91	87	80.5	79.2	74	62	49	38	30	23
10571	40		40	40	40	40	35	33	31											
	63		63	63	63	63	50	47	44											
	100		100	100	100	100	80	75	65											
1.4571	40	40	40	40	40	40	35	33	31	30	29									
	63	63	63	63	63	63	50	47	44	42	40									
	100	100	100	100	100	100	80	75	70	65	60									

1) Operating temperature = calculation temperature minus temperature surcharge according to the standard codes.

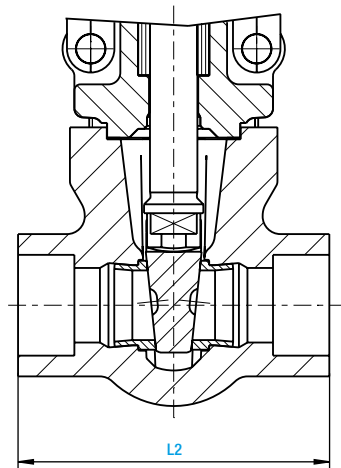
Flange version



Butt-weld end version



Socket weld version



Materials

Item	Designation	1.0460 (21)	1.7335 (44)	1.0571 (25)	1.4571 (87)
100	Body	1.0460	1.7335	1.0571	1.4571
140	Seat ring	1.4571	1.4571 ¹⁾	1.4571	1.4571
160	Gasket	Graphite	Graphite	Graphite	Graphite
170	Bolt	1.7709	1.4923	A4-70	A4-70
190	Hexagonal nut	1.7218	1.4923	A4-70	A4-70
200	Bonnet	1.0460	1.7335	1.0571	1.4571
350	Disc	1.4021	2.5788	2.5788	2.5788
400	Stem	1.4021	1.4021	1.4571	1.4571
420	Packing	Graphite	Graphite	Graphite	Graphite
440	Gland flange	1.0460	1.0460	1.4571	1.4571
450	Rivet pin	1.1181	1.1181	A4-50	A4-50
462	Hinge bolt	1.1181	1.1181	1.4571	1.4571
464	Hexagonal nut	1.1181	1.1181	A4-70	A4-70
510	Yoke sleeve	1.0718	1.0718	1.0718	1.0718
530	Screw	1.0718	1.0718	1.0718	1.0718
600	Handwheel	0.7040	0.7040	0.7040	0.7040
610	Hexagonal nut	St	St	St	St

Spare parts

1) Armoured with Stellite

Dimensions/mm

PN	DN	Flange L	Butt-weld ends L1	Socket welds L2	H	Stroke length	Rev/ stroke	ØD
10-100	10	130	130	105	207	27	13.5	140
	15	130	130	105	207	27	13.5	140
	20	150	150	105	207	27	13.5	140
	25	160	160	105	207	27	13.5	140
	32	180	180	115	228	35	17.5	180
	40	240	240	115	228	35	17.5	180

Weights/kg and Kvs value m³/h

PN	Flange		Butt-weld ends	Flange/welded ends	Kvs [m³/h]
DN	10-40	63-100	10-100	10-100	
10	6	6.6	4.7	4.8	
15	6	6.8	4.8	4.8	14.2
20	6.7	8.4	4.8	4.8	29.2
25	7.2	10	5	4.7	39.5
32	12	14	9	8.1	74.7
40	13.1	16.5	10	8	95.3