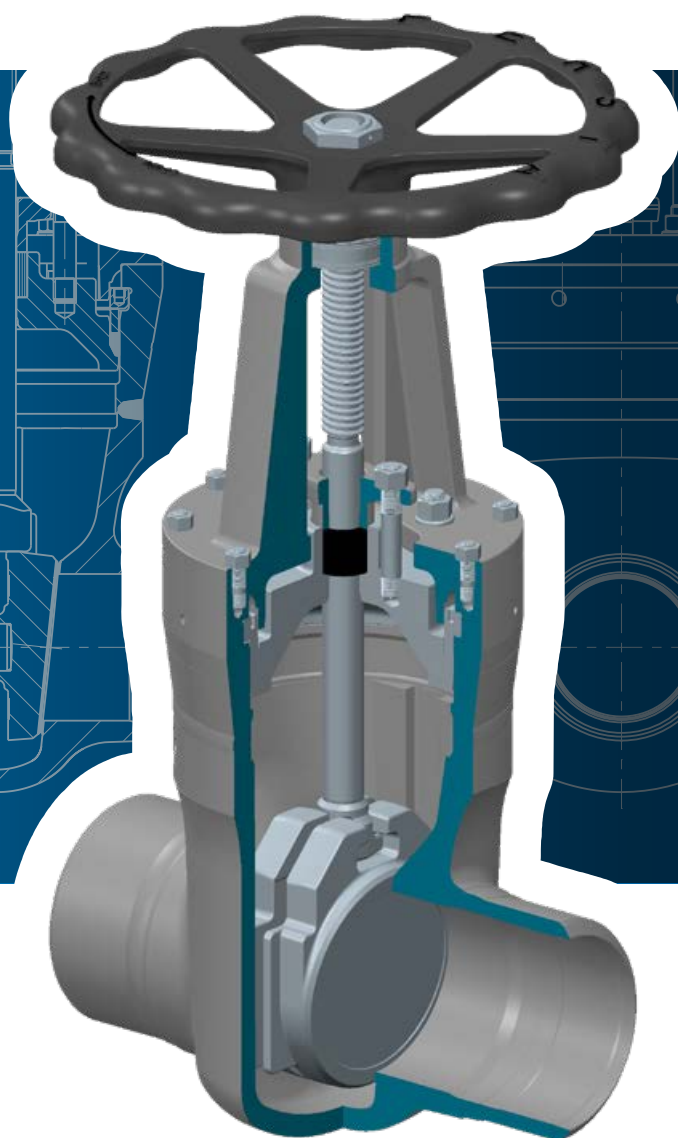




HIGH PRESSURE GATE VALVE

DSK 10 700 JT PD 10 DN 80-150

Design highlights

- Single-piece forged body with integral guide rails
- Integral seat, hardness of approx. 35–37 HRC
- Full bore
- Non-rotating, rising, roll-polished stem with a max. surface roughness of 2 µm
- Stem movement thread rolled
- Pressure sealing bonnet
- Suitable for retrofitting of electric actuators

Advantages

- Homogeneous joining, free of pores and cavities compared to cast steel, sturdy and heavy duty
- High wear-resistance and lasting effective impermeability at closure
- No constriction in seat
- Minimum packing wear
- Optimum thread surface with greater surface hardness and thus greater wear resistance compared to cut threads
- Increasing external impermeability as operating pressure rises
- Conversion kit can be installed without welding

Version

- Flexible wedge gate
- Body and bonnet forged
- Body with full bore
- External stem thread
- Non-rotating, rising stem
- Needle bearing yoke sleeve
- Pressure sealing bonnet as per VGB guidelines

Materials

- 1.0460
- 1.5415
- 1.7335
- 1.7383

Other materials available on request.

Flow medium

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

Applications

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

Operating data

- Operating pressure up to 120 bar
- Operating temperature up to 600 °C

Area of application

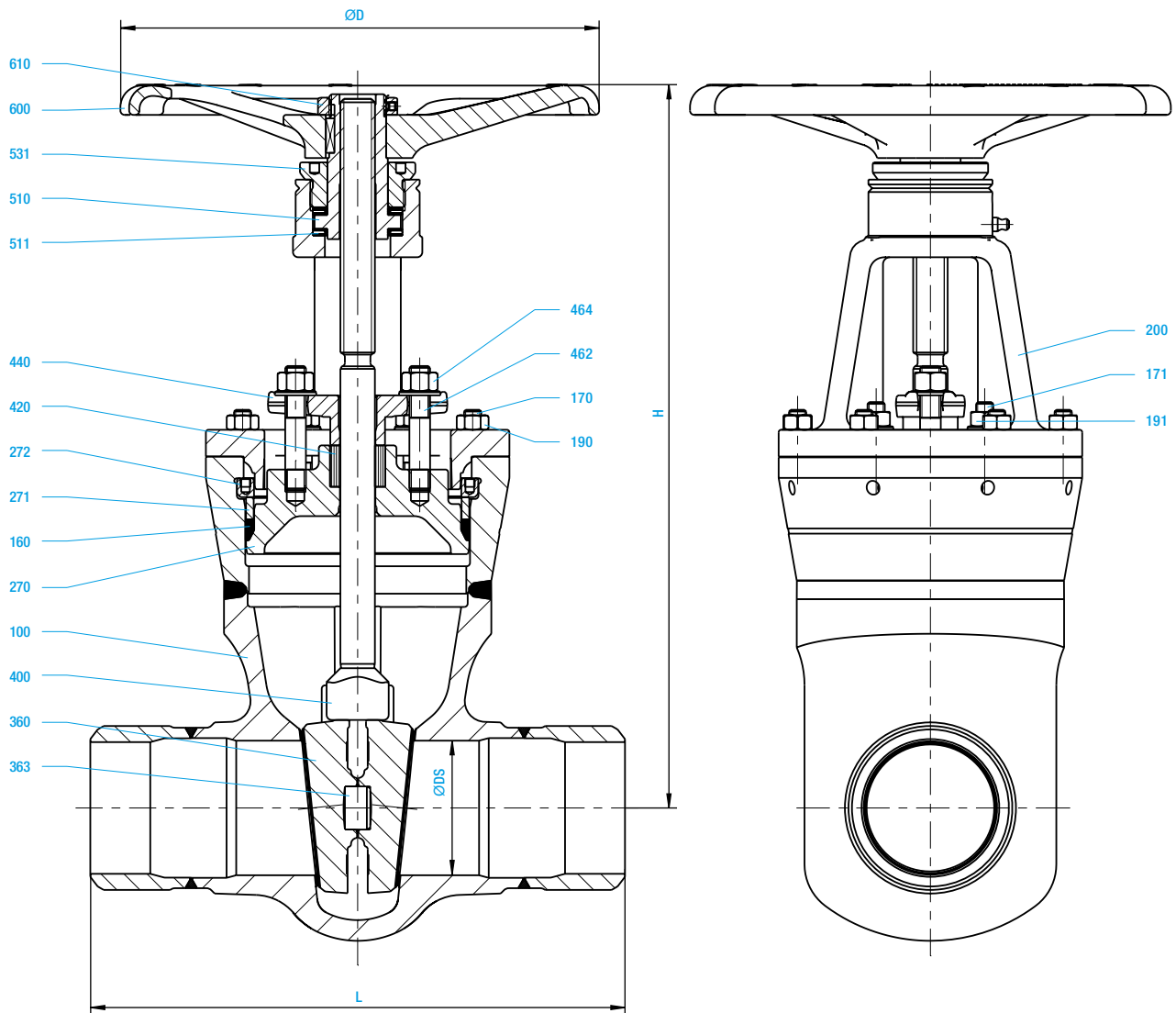
Permissible operating pressure [bar(g)] at calculation temperature [°C] ¹⁾

Material	PD	20	50	100	150	200	250	300	350	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590	600
1.0460	10	100	100	100	100	94	82	74	64.8	60	57.5	54.9	48.9	42.9	38	34	28	23												
1.5415	10	120	120	120	120	112	103	88	85	82	82	81	81	80	79	79	78	78	68	53	40	32	25.1							
1.7335	10	120	120	120	120	120	118	109	103	97	96	95	94	92	91	91	90	89	89	81	68	54	44	35	28	23	18			
1.7383 ²⁾	10	120	120	120	120	120	120	118	109	103	102	101	99	98	97	96	95	94	89	81	69	61	53	46	40	34	30	26	22	20

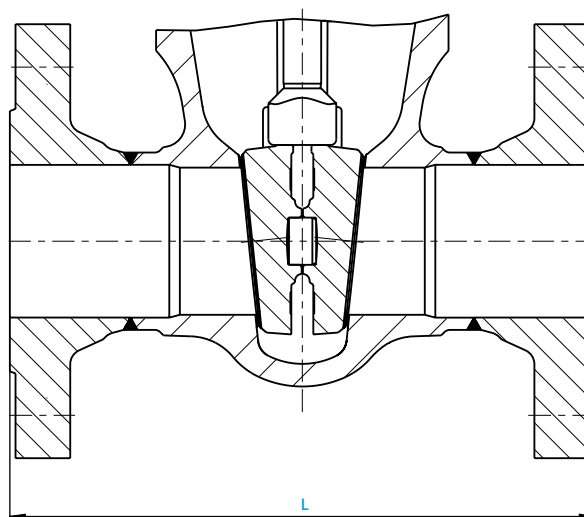
1) Operating temperature = calculation temperature minus temperature surcharge according to the standard codes.

2) For temperatures > 570 °C, stem material 1.4980, seat armoured with Stellite, and high-temperature packing.

Butt-weld end version



Flange version



Materials

Item	Designation	1.0460 (21)	1.5415 (42)	1.7335 (44)	1.7383 (45)
100	Body	1.0460	1.5415	1.7335	1.7383
	Body seat	Cr17	Stellite	Stellite	Stellite
160	Gasket	Graphite	Graphite	Graphite	Graphite
170	Bolt	1.7709	1.7709	1.7709	1.7709
171	Clamping screw	1.7709	1.7709	1.7709	1.7709
190	Hexagonal nut	1.7218	1.7218	1.7218	1.7218
191	Hexagonal nut	1.7218	1.7218	1.7218	1.7218
200	Bonnet	1.5419	1.5419	1.5419	1.5419
270	Cover	1.7383	1.7383	1.7383	1.7383
271	Support ring	1.7383	1.7383	1.7383	1.7383
272	Segment ring	1.7383	1.7383	1.7383	1.7383
360	Disc	1.0460	1.7383	1.7383	1.7383
	Disc seat	18/8 (40)	Stellite	Stellite	Stellite
363	Pressure piece	1.4021	1.4021	1.4021	1.4021
400	Stem	1.4021	1.4122	1.4122	1.4122
420	Packing	Graphite	Graphite	Graphite	Graphite
440	Gland flange	1.0460	1.0460	1.0460	1.0460
462	Bolt	1.7709	1.7709	1.7709	1.7709
464	Hexagonal nut	1.7218	1.7218	1.7218	1.7218
510	Yoke sleeve	1.0718	1.0718	1.0718	1.0718
511	Anti-friction bearing	WLSt	WLSt	WLSt	WLSt
531	Threaded connection	1.0718	1.0718	1.0718	1.0718
600	Handwheel	5.3106	5.3106	5.3106	5.3106
610	Hexagonal nut	St	St	St	St

Spare parts

Dimensions/mm

DN	ØDS	L	H	Stroke length	Rev/stroke	ØD	DIN/ISO 5210
80	78	310	420	90	22.5	280	F10
100	98	350	515	110	22	360	F10
150	150	450	700	165	27.5	450	F10/F14

Weights/kg and Kvs value m³/h

DN	Flange	Butt-weld ends	Kvs [m³/h]
80	48	34	628
100	80	60	991
150	185	139	2323