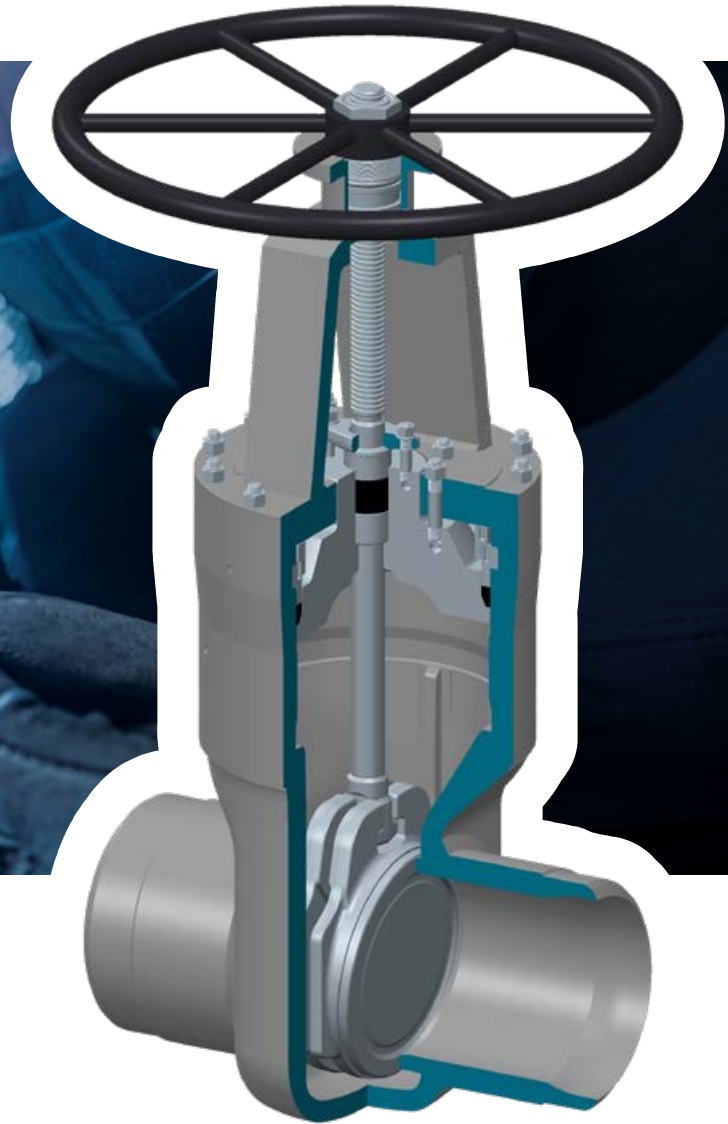




HIGH PRESSURE GATE VALVE

DSK 10 700 JT PD 10 DN 200-300

Design highlights

- Forged body
- Seat armoured
- Full bore
- Two piece gland
- Needle bearing yoke sleeve
- Pressure sealing bonnet

Advantages

- Homogeneous joining, free of pores and cavities compared to cast steel, sturdy and heavy duty
- Lasting effective impermeability at closure
- Minor constriction in seat
- Avoids stem damage due to uneven tightening of packing bolts
- Reduced force needed to open and close the valve
- Increasing external impermeability as operating pressure rises

Version

- Flexible wedge gate
- Forged body
- 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

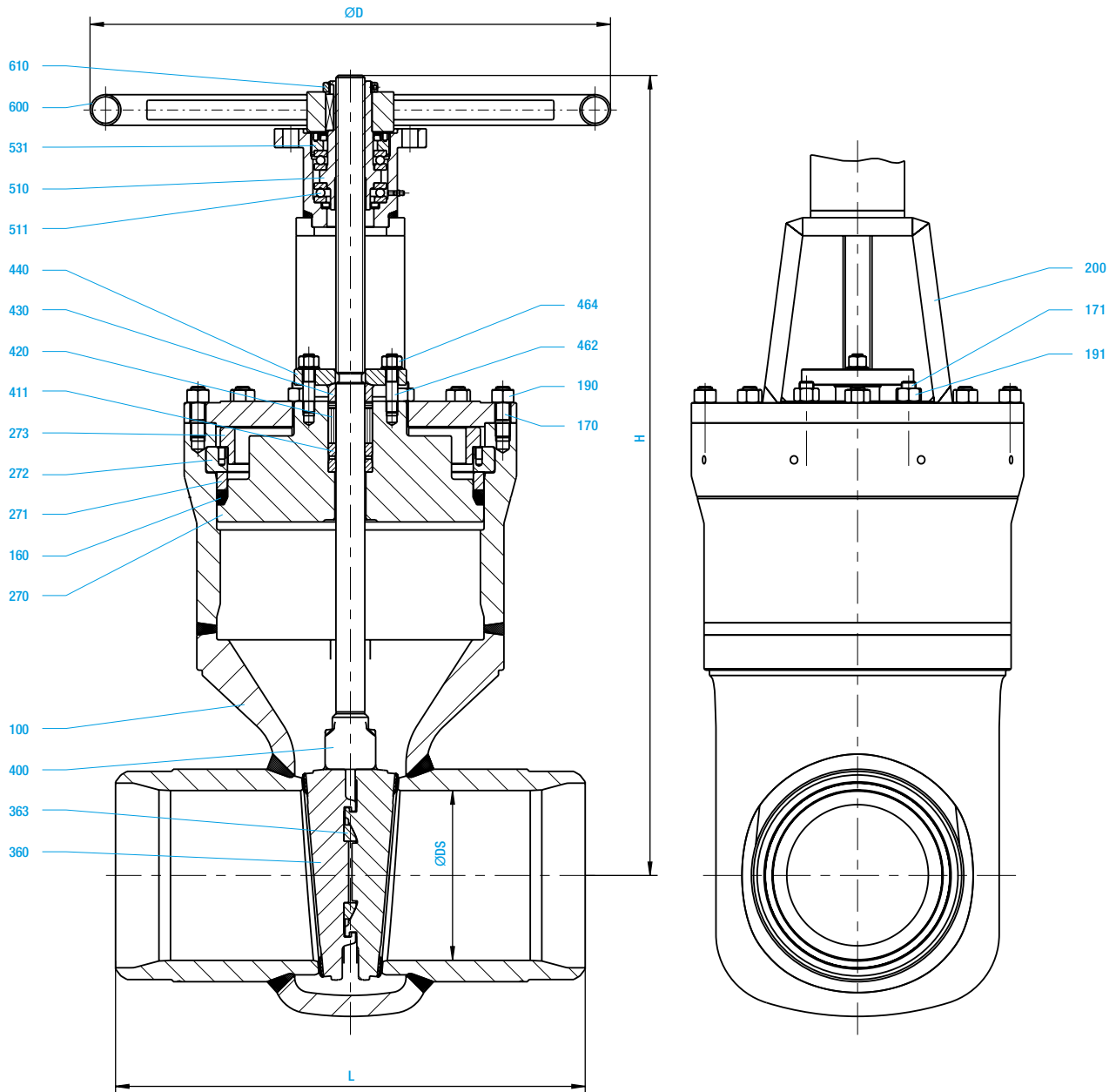
Area of application

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

Material	PD	20	120	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	94	82	74	62	50	48	45	43	41	38	34	28	23												
1.5415	10	120	120	120	112	103	88	85	82	82	81	81	80	79	79	78	78	68	53	40	32	25							
1.7335	10	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	118	109	103	102	101	99	98	97	96	95	94	89	79	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.



Materials

Item	Designation	1.0460 (21)	1.5415 (42)	1.7335 (44)	1.7383 (45)
100	Body	1.0460	1.7383/1.5415	1.7383/1.7335	1.7383
	Body seat	18/8	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	1.5415	1.5415	1.5415	1.5415
270	Cover	1.0460	1.5415	1.7335	1.7383
271	Support ring	1.0460	1.5415	1.7335	1.7383
272	Segment ring	1.0460	1.5415	1.7335	1.7383
273	Support cap	1.7383	1.5415	1.7335	1.7383
360	Disc	1.7383	1.7383	1.7383	1.7383
	Disc seat	Cr17	Stellite	Stellite	Stellite
363	Pressure piece	1.4122	1.4122	1.4122	1.4122
400	Stem	1.4021	1.4122	1.4122	1.4122
411	Guide sleeve	1.8507	1.8507	1.8507	1.8507
420	Packing	Graphite	Graphite	Graphite	Graphite
430	Gland	1.0718	1.0718	1.0718	1.0718
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	CW 713 R	CW 713 R	CW 713 R	CW 713 R
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
200	199	550	910	210	33	600	F14
250	235	650	1110	265	38	720	F14/F16
300	276	750	1300	313	39.5	890	F16

Weights/kg and Kvs value m³/h

DN	Butt-weld ends	Kvs [m³/h]
200	247	4000
250	550	6247
300	820	8997