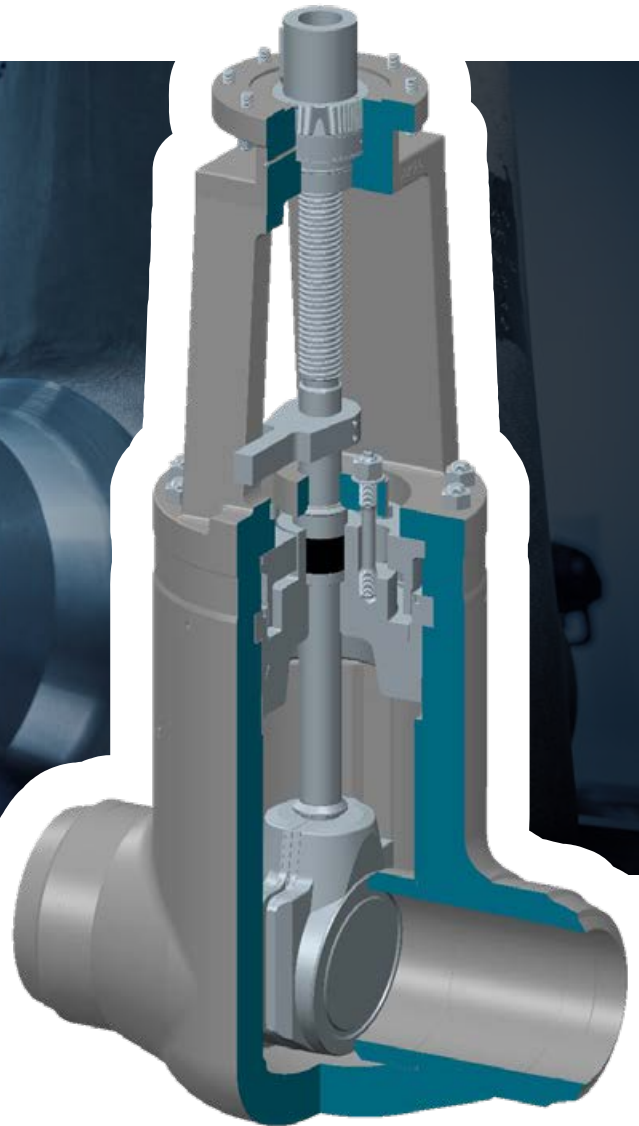



ASME

version
available

HIGH PRESSURE GATE VALVE

DSK 26 700 JT PD 25 / PD 40 DN 65-300



Design highlights

- High bonnet
- Disc and body seat generally integral and armoured in Stellite
- Full bore
- Non-rising handwheel
- Non-rotating stem with external stem thread and roll-polished shaft
- Stem with external anti-twist device
- Discs and stem connected by hammer head
- Two piece gland
- Yoke sleeve supported below and above with axial needle bearing

Advantages

- Avoids impermissible temperatures in the bearing area (lubricity of grease)
- Optimum glide pairing with minimum wear
- Advantageous in small spaces
- Minimum packing wear on polished surfaces
- Avoids deflection of torsion into the disc fittings
- Flexible connection between disc and stem allows discs to move freely within the guide rails of the body, which prevents bending strain on the stem
- Avoids stem damage due to uneven tightening of packing bolts
- Reduced force needed to open and close the valve

Version

- Forged body
- Flexible wedge guided in groove
- Welded seat rings
- External stem thread
- Position indicator / anti-twist device
- Pressure sealing bonnet as per VGB guidelines
- Needle bearing yoke sleeve
- Suitable for mounting actuators

Materials

- 1.0460
- 1.4901
- 1.4903
- 1.5415
- 1.6368
- 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 680 bar
- Operating temperature up to 650 °C

Area of application

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

Material	PD	20	50	100	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	610	620	630	640	650
1.0460	25	250	250	250	250	250	235	206	184	155	125	119	113	107	102	96	85	71	58																	
1.5415	25	300	300	300	300	300	280	258	221	213	206	205	203	202	200	199	197	196	194	170	132	101	79	64												
1.7335	25	300	300	300	300	300	300	294	272	258	243	240	237	234	231	228	227	225	224	222	202	170	134	109	88	69	57	46								
1.7383 ²⁾	25	300	300	300	300	300	300	294	272	258	255	252	249	246	243	240	237	234	224	199	174	152	132	115	100	85	75	65	56	49						
1.6368	25	410	410	410	410	410	410	410	410	410	410																									
1.4903 ²⁾	25	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	418	383	372	344	316	290	263	238	213	191	169	150	132	115	100	85	75	64
1.4901 ²⁾	25	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	423	397	370	345	320	297	275	252	230	208	186	166	147	127	110	95	82

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.

Area of application

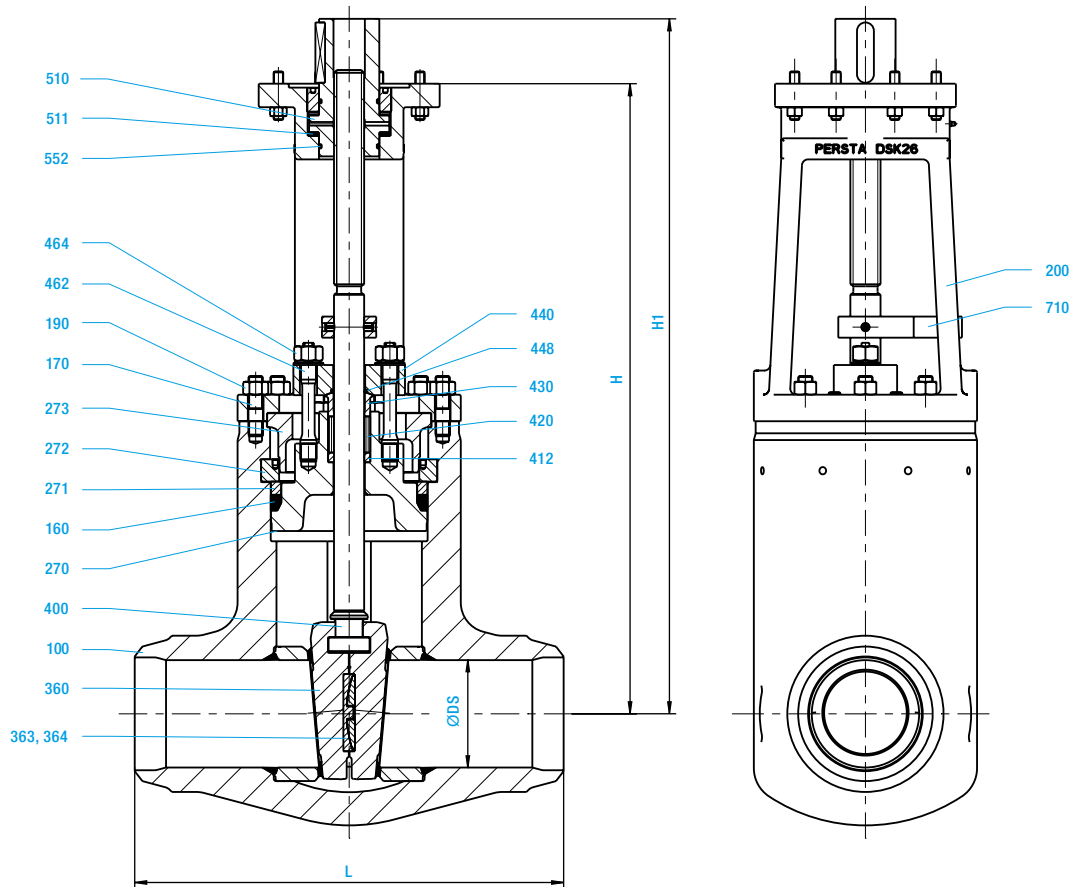
Permissible operating pressure [bar(g)] at calculation temperature [°C] ¹⁾

Material	PD	20	50	100	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	610	620	630	640	650
1.0460	40	400	400	400	400	400	377	330	295	248	200	190	181	172	162	153	135	113	93																	
1.5415	40	480	480	480	480	480	447	412	353	341	330	327	325	322	320	318	315	313	311	271	212	161	127	101												
1.7335	40	481	481	481	481	481	481	471	436	412	388	384	379	374	370	365	363	360	358	355	322	271	215	175	141	110	90	73								
1.7383 ²⁾	40	480	480	480	480	480	480	480	471	436	412	407	403	398	393	388	384	379	374	358	318	278	242	212	183	160	136	120	103	89	79					
1.6368	40	657	657	657	657	657	657	657	657	657	657	657																								
1.4903 ²⁾	40	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	669	612	596	551	506	464	421	381	341	306	271	240	212	183	160	136	120	103
1.4901 ²⁾	40	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	677	635	592	552	512	475	440	404	369	334	298	265	235	204	176	152	131

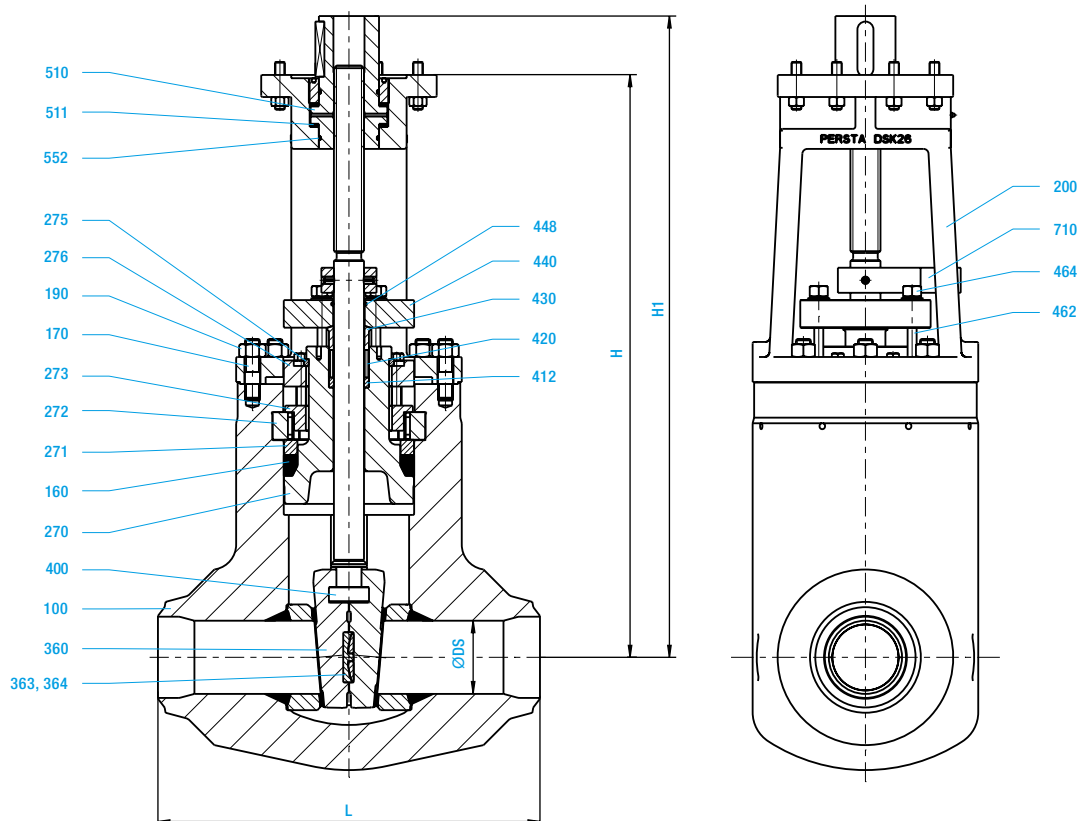
1) Operating temperature = calculation temperature minus temperature surcharge according to the standard codes.

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

DSK 26 PD 25 DN 80-300



DSK 26 PD 40 DN 65-250



Materials

Item	Designation	1.0460 (21)	1.5415 (42)	1.7335 (44)	1.7383 (45)	1.6368 (46)	1.4903 (63)	1.4901 (66)
100	Body	1.0460	1.5415	1.7335	1.7383	1.6368	1.4903	1.4901
	Body seat	Stellite	Stellite	Stellite	Stellite	Stellite	Stellite	Stellite
160	Gasket	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite
170	Bolt	1.7709	1.7709	1.7709	1.7709	1.7709	1.7709	1.7709
190	Hexagonal nut	1.7218	1.7218	1.7218	1.7218	1.7218	1.7218	1.7218
200	Bonnet	1.5419	1.5419	1.5419	1.5419	1.5419	1.5419	1.5419
270	Cover	1.7383	1.7383	1.7383	1.7383	1.4903	1.4903	1.4901
271	Support ring	1.7383	1.7383	1.7383	1.7383	1.4903	1.4903	1.4901
272	Segment ring	1.7383	1.7383	1.7383	1.7383	1.4903	1.4903	1.4901
273	Support cap	1.5419	1.5419	1.5419	1.5419	1.5419	1.5419	1.5419
275	Retaining ring	1.7383	1.7383	1.7383	1.7383	1.4903	1.4903	1.4903
276	Clamping flange	1.7383	1.7383	1.7383	1.7383	1.4903	1.4903	1.4903
360	Disc	1.7383	1.7383	1.7383	1.7383	1.4903	1.4903	1.4901
	Disc seat	Stellite	Stellite	Stellite	Stellite	Stellite	Stellite	Stellite
363/364	Pressure piece	1.4021	1.4021	1.4021	1.4021	1.4021	1.4021	1.4021
400	Stem	1.4122	1.4122	1.4122	1.4122	1.4923	1.4923	1.4980
400	Stem from 570 °C				1.4980		1.4980	
412	Guide sleeve	0.7660	0.7660	0.7660	0.7660	0.7660	0.7660	0.7660
420	Packing	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite
430	Gland	1.5415	1.5415	1.5415	1.5415	1.5415	1.5415	1.5415
440	Gland flange	1.7380	1.7380	1.7380	1.7380	1.7380	1.7380	1.7380
448	Packing ring	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite
462	Bolt	1.7709	1.7709	1.7709	1.7709	1.4923	1.4923	1.4923
464	Hexagonal nut	1.7218	1.7218	1.7218	1.7218	1.4923	1.4923	1.4923
510	Yoke sleeve	CW713R	CW713R	CW713R	CW713R	CW713R	CW713R	CW713R
511	Anti-friction bearing	WLSt	WLSt	WLSt	WLSt	WLSt	WLSt	WLSt
552	O-ring	Viton	Viton	Viton	Viton	Viton	Viton	Viton
710	Anti-twist device	1.0425	1.0425	1.0425	1.0425	1.0425	1.0425	1.0425

Spare parts

Dimensions/mm DSK 26.25

DN	ØDS	L	H	H1	Stroke length	Rev/stroke	Hand-wheel	DIN/ISO 5210
80	70	305	511	556	80	16	360	F10 (F14)
100	90	406	606	658	105	18	450	F14
125	111	483	720	781	130	21	500	F14
150	136	559	872	952	152	22		F16 (F14)
200	178	711	1045	1078	192	24		F25 (F16)
250	222	864	1240	1267	248	28		F30 (F25)
300	263	991	1497	1528	287	29		F30

Weights/kg and Kvs value m³/h DSK 26.25

DN	Weight [kg]	Kvs [m³/h]
80	73	505
100	128	875
125	208	1270
150	395	1910
200	608	3270
250	1120	5080
300	1814	7140

Dimensions/mm DSK 26.40

DN	ØDS	L	H1	H	Stroke length	Rev/stroke	Hand-wheel	DIN/ISO 5210
65	50	330	518	466	56	19	400	F10 (F14)
80	57	368	638	485	63	21	450	F14
100	72	457	713	656	87	15	500	F14
125	90	580	795	725	106	15		F16
150	111	925	1090	1040	133	15		F25 (F16)
200	146	762	1195	1165	174	18		F30 (F25)
250	185	1270	1475	1440	212	21		F35

Weights/kg and Kvs value m³/h DSK 26.40

DN	Weight [kg]	Kvs [m³/h]
65	83	210
80	135.7	310
100	218.8	505
125	426.6	835
150	748.8	1485
200	1185.9	2200
250	2211.5	3530