

Шаровые клапаны высокого давления PD 25/PD 40, DN 80-250

Технические характеристики

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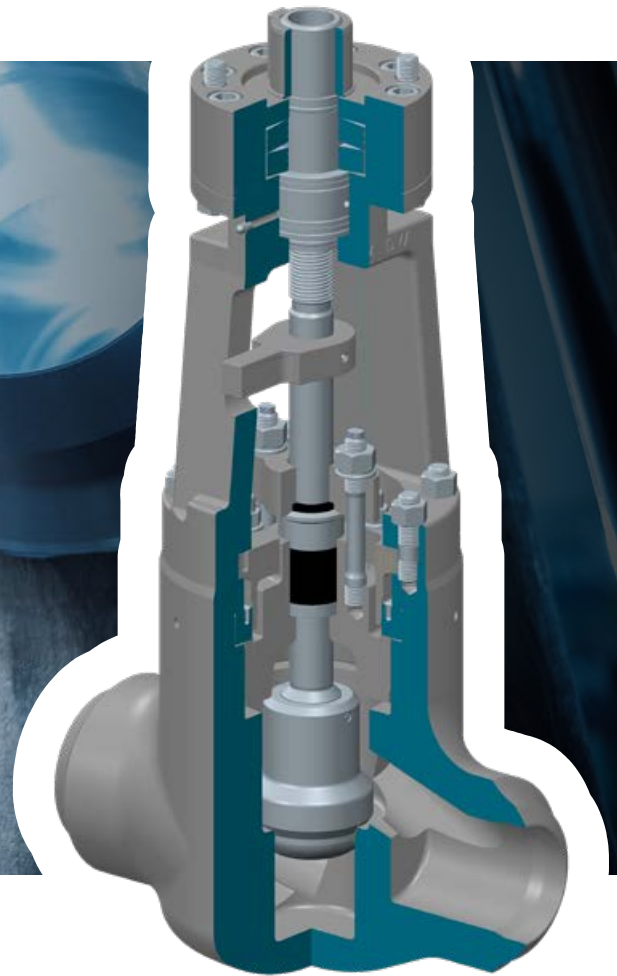
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ASME

version
available


HIGH PRESSURE GLOBE VALVE

DVA 25 / DVA 40 200 BZ PD 25 / PD 40 DN 80-250

Design highlights

- Forged body and bonnet
- Pressure sealing bonnet
- Seat generally integral and armoured with Stellite
- High bonnet
- Stem with anti-twist device can be used as position indicator
- Non-rotating, rising stem with external stem thread and roll-polished shaft
- Gland and gland ring in two parts
- Yoke sleeve with needle bearing
- Disc spring assembly effective in closing direction

Advantages

- Homogeneous joining, sturdy and heavy duty
- Increasing external impermeability as operating pressure rises
- Absolute seat impermeability
- Avoids impermissible temperatures in the bearing area
- Anti-twist device can be used as position indicator
- Minimum packing wear
- Avoids stem damage due to uneven tightening of packing bolts
- Reduced force needed to actuate the valve
- Required closing forces maintained regardless of changes in length between the stem and bonnet, caused by temperature fluctuations

Version

- Flow passage with straight top part
- Body forged
- Pressure sealing bonnet as per VGB guidelines
- Throttle disc
- Integral seat with Stellite
- External stem thread
- Position indicator / anti-twist device
- Yoke sleeve bearing-mounted on both sides
- Non-rotating, rising stem
- Suitable for mounting actuators
- Available in angular form 202 BZ
- Preferred direction of flow "pressure above disc"

Materials

- 1.0460
- 1.5415
- 1.7335
- 1.7383
- 1.6368
- 1.4903
- 1.4901

Other materials available on request.

Flow medium

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

Applications

In chemical, industrial and power station plants.

Operating data

- Operating pressure up to 600 bar
- Operating temperature up to 650 °C

Area of application

Permissible operating pressure [bar] 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	610	620	630	640	650
1.0460	25	250	250	250	235	206	184	155	125	119	113	107	102	96	85	71	58																	
1.5415	25	300	300	300	280	258	221	213	206	205	203	202	200	199	197	196	194	170	132	101	80	64												
1.7335	25	300	300	300	300	294	272	258	243	240	237	234	231	228	227	225	224	222	202	170	134	110	88	69	57	46								
1.7383 ²⁾	25	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	320	320	320	320	320	320	320	320																									
1.4903 ²⁾	25	320	320	320	320	320	320	320	320	320	320	320	320	320	320	320	320	320	320	320	316	290	263	238	213	191	169	150	132	115	100	85	75	65
1.4901 ²⁾	25	320	320	320	320	320	320	320	320	320	320	320	320	320	320	320	320	320	320	320	320	320	297	275	253	231	209	187	166	147	128	110	96	82

Attention: Pressure rating of materials 1.6368, 1.4903 and 1.4901 was lowered in the "cold" range (320 bar). The pressure rating is only valid for the DVA 25 series.

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.

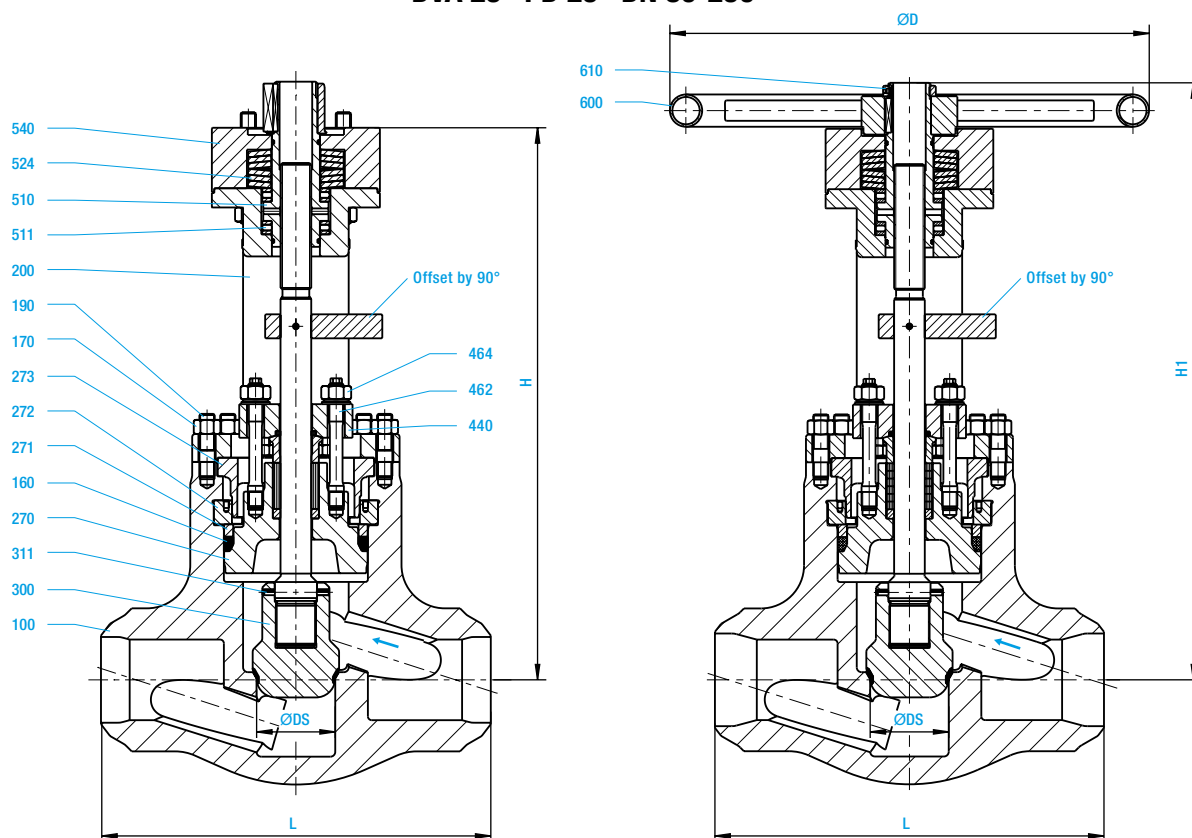
Material	PD	20	120	150	200	250	300	350	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590	600	610	620	630	640	650	
1.0460	40	400	400	400	377	330	295	248	200	191	182	172	163	153	136	113	93																		
1.5415	40	480	480	480	448	413	354	342	330	328	325	323	321	318	316	314	311	272	212	161	127	102													
1.7335	40	481	481	481	481	471	436	413	389	384	380	375	370	365	363	361	358	356	323	272	215	175	141	110	91	74									
1.7383 ²⁾	40	480	480	480	480	480	471	436	413	408	403	398	394	389	384	380	375	358	318	278	243	212	184	160	137	120	104	90	79						
1.6368	40	600	600	600	600	600	600	600	600																										
1.4903 ²⁾	40	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	596	551	506	464	422	382	342	306	271	240	212	184	160	137	120	104	
1.4901 ²⁾	40	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	553	513	475	440	405	369	334	299	266	235	205	177	153	132

Attention: Pressure rating of materials 1.6368, 1.4903 and 1.4901 was lowered in the "cold" range (600 bar). The pressure rating is only valid for the DVA 40 series.

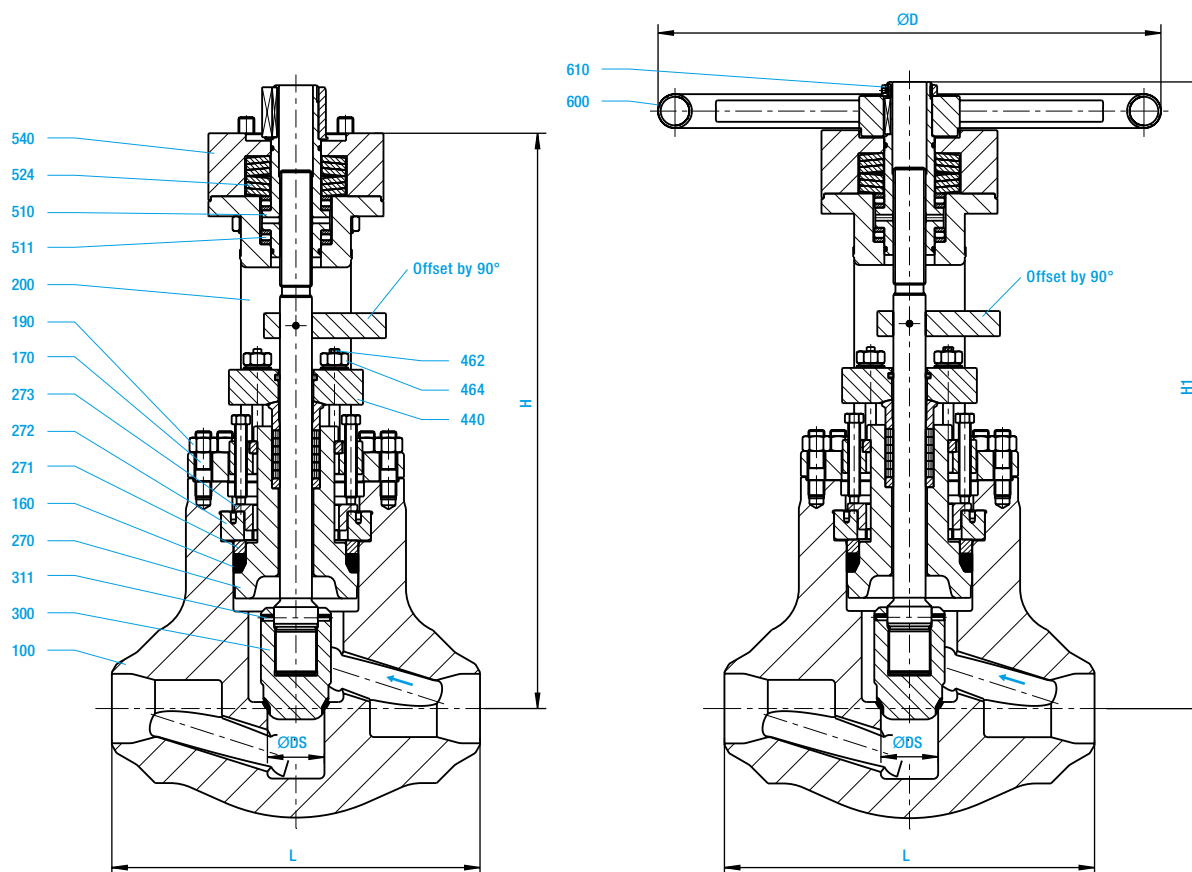
1) Operating temperature = calculation temperature minus temperature surcharge according to the standard codes.

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

DVA 25 PD 25 DN 80-250*



DVA 40 PD 40 DN 80-200*



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	1.4923	1.4923	1.4923
190	Hexagonal nut	1.7218	1.7218	1.7218	1.7218	1.7218	1.7218	1.7218
200	Bonnet	1.7379	1.7379	1.7379	1.7379	1.7379	1.7379	1.7379
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
300	Disc	1.4903	1.4903	1.4903	1.4903	1.4903	1.4903	1.4901
	Disc seat	Stellite	Stellite	Stellite	Stellite	Stellite	Stellite	Stellite
311	Pin	1.4571	1.4571	1.4571	1.4571	1.4571	1.4571	1.4571
400	Stem	1.4122	1.4122	1.4122	1.4122	1.4923	1.4923	1.4980
400	Stem from 500 °C			1.4980 ¹⁾	1.4980		1.4980	
420	Packing	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite
440	Gland	1.7380	1.7380	1.7380	1.7380	1.7380	1.7380	1.7380
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	WLSi	WLSi	WLSi	WLSi	WLSi	WLSi	WLSi
524	Disc spring	FSt	FSt	FSt	FSt	FSt	FSt	FSt
540	Flange	1.0460	1.0460	1.0460	1.0460	1.0460	1.0460	1.0460
600	Handwheel	St ²⁾	St ²⁾	St ²⁾	St ²⁾	St ²⁾	St ²⁾	St ²⁾
610	Hexagonal nut	St	St	St	St	St	St	St

Spare parts

1) For PD 25 from DN 150 and for PD 40 from DN 125

2) For PD 25 DN 80 material 5.3106

Dimensions/mm DVA 25

DN	Ø DS	L	H	H1	Stroke length	Rev/stroke	Ø D	DIN/ISO 5210
80	64	305	475 (F14)	510	32	11	450	F10/F14
100	82	406	575 (F14)	625	42	14	500	F14
125	100	483	725 (F16)	730	51	17	600	F14/F16
150	122	559	800 (F16)	875	62	21	720	F16/F25
200	160	711	950 (F25)		82	27		F25/F30
250	190	864	1075 (F30)		96	24		F30/F35

Weights/kg and Kvs value m³/h DVA 25

DN	Butt-weld ends	Kvs * [m³/h]
80	77	71
100	132	95
125	200	141
150	380	210
200	615	362
250	1120	510

Dimensions/mm DVA 40

DN	Ø DS	L	H	H1	Stroke length	Rev/stroke	Ø D	DIN/ISO 5210
80	57	368	575 (F14)	625	28	9	500	F14
100	72	457	675 (F14)	730	38	13	600	F14/F16
125	90	533	815 (F16)	890	45	15	720	F16/F25
150	111	610	1000 (F25)		58	19		F25/F30
200	146	762	1065 (F30)		75	19		F30/F35

Weights/kg and Kvs value m³/h DVA 40

DN	Butt-weld ends	Kvs * [m³/h]
80	140	45
100	225	73
125	430	114
150	715	174
200	1140	300

* Deviations are possible due to changed connection dimensions.

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