▪ Globe valves ▪ High pressure globe valve DVA 25 / DVA 40 ▪ 200 BZ ▪ PD 25 / PD 40 ▪ DN 80-250

Range of application

BW-Version Material	PD	Admissible operating pressure [bar] at design temperature [°C] 1)																																							
		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	80	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	110	88	69	57	46								
1.7380	25	300	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	320	320	320	320	320	320	320	320	320	320	320	320	320	320	320	309	257	205	153	102															
1.4903	25	320	320	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	25	320	320	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

1) Operating temperature = design temperature minus temperature surcharge acc. to DIN regulations.

Attention: Pressure rating of the materials 1.6368, 1.4903 and 1.4901 was reduced in the "cold" range to 320 bar. This pressure rating is only valid for the DVA 25.

Range of application

BW-Version Material	PD	Admissible operating pressure [bar] at design temperature [°C] 1)																																						
		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	191	182	172	163	153	136	113	93																	
1.5415	40	480	480	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	481	481	471	436	413	389	384	380	375	370	365	363	361	358	356	323	272	215	175	141	110	91	74								
1.7380	40	480	480	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	600	600	600	600	600	600	577	495	412	328	245	163															
1.4903	40	600	600	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	40	600	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

1) Operating temperature = design temperature minus temperature surcharge acc. to DIN regulations.

Attention: Pressure rating of the materials 1.6368, 1.4903 and 1.4901 was reduced in the "cold" range to 600 bar. This pressure rating is only valid for the DVA 40.

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Standard features

- Straight pattern
- Die-forged valve body and bonnet
- Pressure sealing bonnet acc. to VGB-guidelines
- Throttle disc
- Body seat welded on integratedly
- Outside screw and yoke
- Position indicator / Anti-rotation device
- Yoke sleeve supported at the top and the bottom By means of needle bearings
- Non-turning, rising stem
- Universal valve head for mounting actuators

Pressure and temperature ratings

- Pressure rating up to 600 bar
- Temperature rating up to 650 °C

Materials

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

Further materials and sizes on request.

Media

Depending on the material the globe valves are suitable for water, gas, oil and other non aggressive media

Fields of application

Chemical industries, industries and power plant.

Design Highlights	Benefits
▪ Die-forged body and bonnet	▪ Free from porosity and shrink holes
▪ Pressure sealing bonnet	▪ Best possible sealing function
▪ Body seat welded on integratedly with stellite	▪ Extremely resistant to wear
▪ Extended bonnet	▪ To reduce temperatures
▪ Outside located anti twist device	▪ Usable as position indicator
▪ Non-turning, rising stem	▪ Minimum packing wear
▪ Gland flange and gland ring in two separate pieces	▪ Damage to the stem by irregular tightening of gland bolts is avoided
▪ Yoke sleeve supported by needle bearings	▪ To minimize the expenditure of effort when operating the valve
▪ Cup springs above the upper needle bearing	▪ To maintain the necessary closing forces at elongation changes between stem and yoke arms due to thermal changes. Also to protect against excess torsion when electric actuators are fitted.

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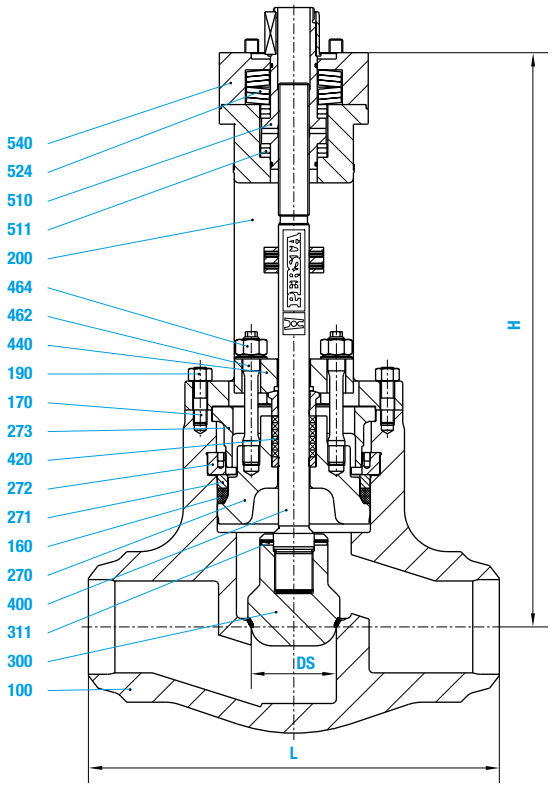
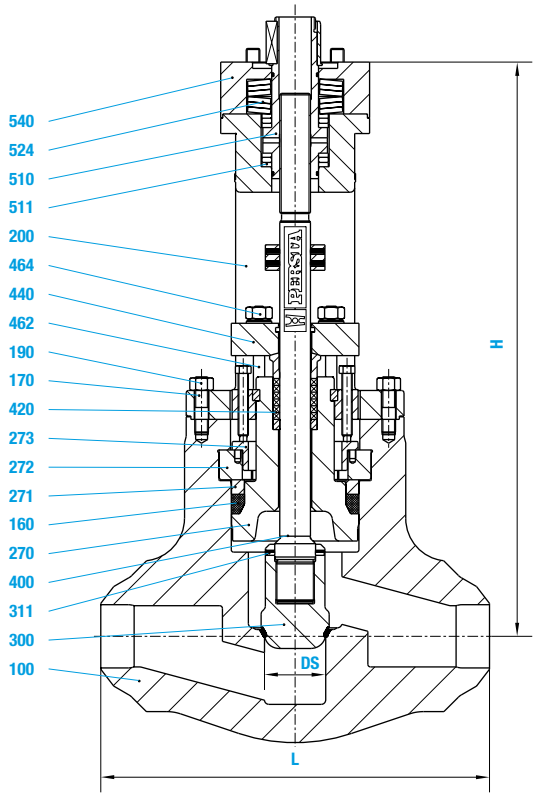
DVA 25 ▪ PD 25 ▪ DN 80-250



DVA 40 ▪ PD 40 ▪ DN 80-200



■ Globe valves ■ High pressure globe valve DVA 25 / DVA 40 ■ 200 BZ ■ PD 25 / PD 40 ■ DN 80-250

Materials

Pos.	Component	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
	welded on with	Stellite	Stellite	Stellite	Stellite	Stellite	Stellite	Stellite
160	▸ Gasket	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite
170	Stud	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	Thrust ring	1.7383	1.7383	1.7383	1.7383	1.4903	1.4903	1.4901
272	Segmentring	1.7383	1.7383	1.7383	1.7383	1.4903	1.4903	1.4901
273	Cover	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
	welded on with	Stellite	Stellite	Stellite	Stellite	Stellite	Stellite	Stellite
311	Grooved 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 up to 500°C			1.4980*	1.4980		1.4980	
420	▸ Packing	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite
440	Gland flange	1.7380	1.7380	1.7380	1.7380	1.7380	1.7380	1.7380
462	Stud	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	▸ Bearing	WLSt	WLSt	WLSt	WLSt	WLSt	WLSt	WLSt
524	Spring	Spring Steel	Spring Steel	Spring Steel	Spring Steel	Spring Steel	Spring Steel	Spring Steel
540	Flange	1.0460	1.0460	1.0460	1.0460	1.0460	1.0460	1.0460

▸ Spare parts

* In PD 25 up to DN 150
* In PD 40 up to DN 125

Dimensions/mm DVA 25

DN	DS	L	H	Stroke	R/Stroke	H-Wheel	DIN/ISO 5210
80	**64**	305	450 (475)	32	11	450	F10 (F14)
100	**82**	406	575	42	14	500	F14
125	**100**	483	675 (725)	51	17	600	F14 (F16)
150	**122**	559	800 (850)	62	21	720	F16 (F25)
200	**160**	711	950 (1000)	82	27		F25 (F30)
250	**190**	864	1075 (1150)	96	24		F30 (F35)

Weights/kg and Kvs-values DVA 25

DN	BW	Kvs (m3/h)
80	69	71
100	132	95
125	200	141
150	378	210
200	615	362
250	1120	510

Dimensions/mm DVA 40

DN	DS	L	H	Stroke	R/Stroke	H-Wheel	DIN/ISO 5210
80	**57**	368	575	28	9	500	F14
100	**72**	359	675 (725)	38	13	600	F14 (F16)
125	**90**	533	800 (850)	45	15	720	F16 (F25)
150	**111**	610	950 (1000)	57	19		F25 (F30)
200	**146**	762	1075 (1150)	75	19		F30 (F35)

Weights/kg and Kvs-values DVA 40

DN	BW	Kvs (m3/h)
80	145	45
100	225	73
125	430	114
150	715	174
200	1140	300