

Globe valve (V46-STOP ) butt welding **PN250**

Globe valve (V40-regulating ) butt welding **PN250**

V46 (V40) 121 4250 PN250 DN15-DN25 / Tmax.400°C

V46 (V40) 121 5250 PN250 DN32-DN150 / Tmax.400°C

V46 (V40) 121 3250 PN250 DN15-DN25 / Tmax.600°C

V46 (V40) 121 2250 PN250 DN32-DN150 / Tmax.600°C

Globe valve (V46-STOP ) butt welding **PN320**

Globe valve (V40-regulating ) butt welding **PN320**

V46 (V40) 121 4320 PN320 DN15-DN25 / Tmax.400°C

V46 (V40) 121 5320 PN320 DN32-DN150 / Tmax.400°C

V46 (V40) 121 3250 PN320 DN15-DN25 / Tmax.600°C

V46 (V40) 121 2320 PN320 DN32-DN150 / Tmax.600°C

Globe valve (V46-STOP ) butt welding **PN400**

Globe valve (V40-regulating ) butt welding **PN400**

V46 (V40) 121 4400 PN400 DN15-DN25 / Tmax.400°C

V46 (V40) 121 5400 PN400 DN32-DN150 / Tmax.400°C

V46 (V40) 121 3400 PN400 DN15-DN25 / Tmax.600°C

V46 (V40) 121 2400 PN400 DN32-DN150 / Tmax.600°C

Globe valve (V46-STOP ) butt welding **PN500**

Globe valve (V40-regulating ) butt welding **PN500**

V46 (V40) 121 4500 PN500 DN15-DN25 / Tmax.400°C

V46 (V40) 121 5500 PN500 DN32-DN150 / Tmax.400°C

V46 (V40) 121 3500 PN500 DN15-DN25 / Tmax.600°C

V46 (V40) 121 2500 PN500 DN32-DN150 / Tmax.600°C

.. 121 ... butt welding

# V46

V46 GLOBE VALVE high pressure STOP PN250-500  
V40 GLOBE VALVE high pressure REG PN250-500



## High Pressure Globe Valves [VHP]

DN 10 ÷ DN 150

PN 250 ÷ PN 500

### Design

- Forged or casted body and bonnet
- Pressure sealing bonnet (self-sealing design).
- Rising stem (RS), outside screw and yoke (OS&Y)
- Dimensions >DN 50 with additional, balancing, disc
- Seats are made of STELLITE 6 welded on

### Applications

- Power plant, Chemical, Petrochemical, Refining and other

### Media

- Depending on the valve materials: water, steam, gas, oil and oil derivatives and other non aggressive media

### Pressure and temperature (table A.2.3)

- Pressure up to 500 bar
- Temperature up to 600 °C

### Materials (table A.2.1)

- Carbon and heat resistant alloy steels

### Advantages

- Long service life
- Respect to emission standards
- Easy handling and maintenance
- Stem packing replacement in working conditions

### Options

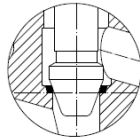
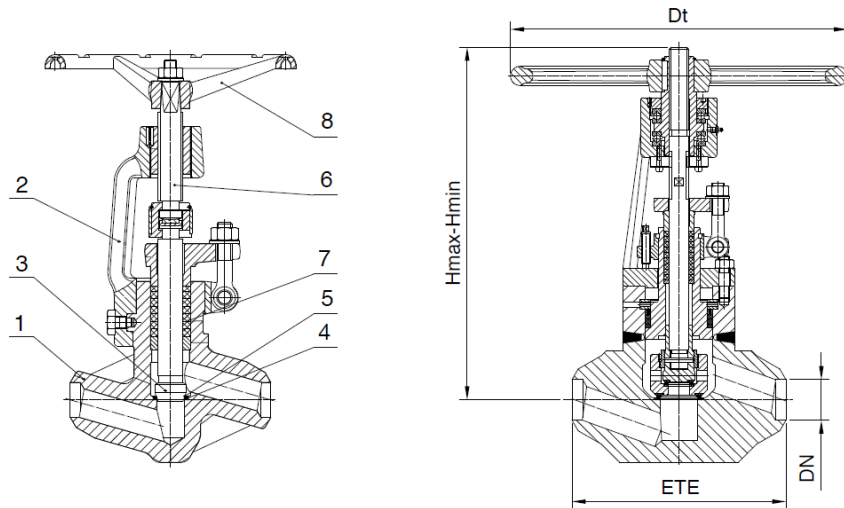
- Electric, hydraulic or pneumatic actuator
- Regulating parabolic disc
- Position indicator
- Extended stem
- Locking device
- Other paint finishes are available upon customer's request

### Testing

- Every produced valve was tested according to EN 12266, Part 1 and Part 2

# V46

**V46 GLOBE VALVE high pressure STOP PN250-500**  
**V40 GLOBE VALVE high pressure REG PN250-500**



Regulating disc

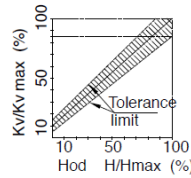


Diagram of the regulation valve

Drawing A.2.1 Parts and dimensions

List of materials

Table A.2.1

Item	Part		Material Group acc. To EN 12516-1				
			3E0	4E0	5E0	6E0	1C15
			Application				
			up to 400°C	up to 500°C	up to 550°C	up to 575°C	up to 600°C
			Material Code				
		10 or 11	20 or 21	22 or 23	24 or 25	28	
1	Body	up to DN 100	1.0460	1.5415	1.7335	1.7383	1.4903
		over DN 100	1.0619	1.5419	1.7357	1.7379	A217 C12A
2	Bonnet	up to DN 65	1.0460	1.5415	1.7335	1.7383	1.4903
		over DN 65	1.0619	1.5419	1.7357	1.7379	A217 C12A
3	Disc		1.4122				
4	Trim	Body Seat	17Cr (up to 450°C) or Stellite 6				
5		Disc Seat	17Cr (up to 450°C) or Stellite 6				
6	Stem		1.4021				
7	Stem Packing		graphite with corrosion inhibitor				
8	Handwheel		cast iron or epoxy coated steel				

# V46

## V46 GLOBE VALVE high pressure STOP PN250-500 V40 GLOBE VALVE high pressure REG PN250-500

[VHP] Dimensions (mm)

Table A.2.2

DN	10	15	20	25	32	40	50	65	80	100	125	150
ETE	110	160	160	160	260	260	300	350	400	450	900	900
H max	231	231	297	297	371	371	390	693	693	800	1486	1486
H min	220	220	277	277	351	351	370	662	662	755	1406	1406
Dt	160	160	160	160	315	315	400	500	630	630	500*	500*
W(kg)	4,5	5	5,5	8,5	21	21	39	70	140	210	655	655

\* With gear

Range of application

Table A.2.3

Material Group (Code)	Materials	PN	Pressure (bar) / temperature (° C) ratings according to EN 12516-1																				
			RT	50	100	150	200	250	300	350	375	400	425	450	475	500	510	520	530	550	575	600	
3E0 (10,11)	1.0460 1.0619	250	255	255	255	255	231	211	192	178	176	172											
		320	327	327	327	327	296	271	245	228	225	220											
		400	408	408	408	408	370	338	307	285	281	275											
		500	510	510	510	510	463	423	383	357	352	344											
4E0 (20,21)	1.5415 1.5419	250	255	255	255	255	255	225	211	205	198	196	192	189	142								
		320	327	327	327	327	327	288	271	262	254	250	245	242	182								
		400	408	408	408	408	408	359	338	328	317	313	307	302	228								
		500	510	510	510	510	510	449	423	410	397	391	383	378	285								
5E0 (22,23)	1.7335 1.7357	250	255	255	255	255	255	255	251	245	238	231	225	211	176	160	133	110	69				
		320	327	327	327	327	327	327	327	321	313	305	296	288	270	225	205	170	141	88			
		400	408	408	408	408	408	408	408	402	391	381	370	359	338	282	257	212	176	111			
		500	510	510	510	510	510	510	510	502	489	476	463	449	422	352	321	265	220	188			
6E0 (24,25)	1.7383 1.7379	250	255	255	255	255	255	255	254	249	248	245	233	211	176	160	145	127	96	67			
		320	327	327	327	327	327	327	327	325	319	317	314	298	270	225	205	186	162	123	86		
		400	408	408	408	408	408	408	408	406	399	396	392	372	338	282	257	232	203	153	107		
		500	510	510	510	510	510	510	510	507	498	495	490	466	422	352	321	290	254	192	134		
1C15 (28)	1.4903 A217 C12A	250	255	255	255	255	255	255	254	249	248	245	233	211	176	166	156	149	143	138	120		
		320	327	327	327	327	327	327	327	325	319	317	314	298	270	225	213	200	191	183	177	154	
		400	408	408	408	408	408	408	408	406	399	396	392	372	338	282	266	250	239	229	221	192	
		500	510	510	510	510	510	510	510	508	498	495	490	466	422	352	332	312	299	286	276	241	

### Optional execution

