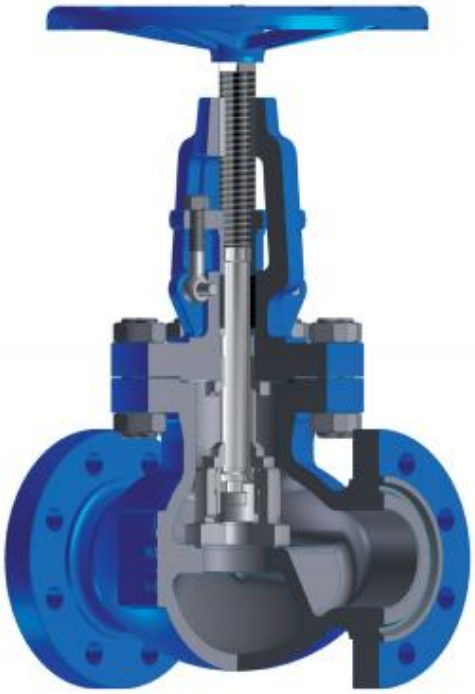


Globe Stop Valves [VBS]

Standard: BS 1873

DN 50 (2") ÷ DN 250 (10")
Class 150 ÷ Class 900

Design

- Casted body and bonnet
- Bolted bonnet (BB)
- Rising stem (RS), outside screw and yoke (OS&Y)
- Dimensions >DN 50 with additional, balancing, disc
- Seats are integral or welded on

Applications

- Power plant, Chemical, Petrochemical, Refining, water supply and other

Media

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

Class and temperature

(table A.3.7)

- Class 150 ÷ Class 900
- Temperature up to 600 °C

Materials (table A.3.1)

- Carbon, heat resistant alloy and stainless steels

Advantages

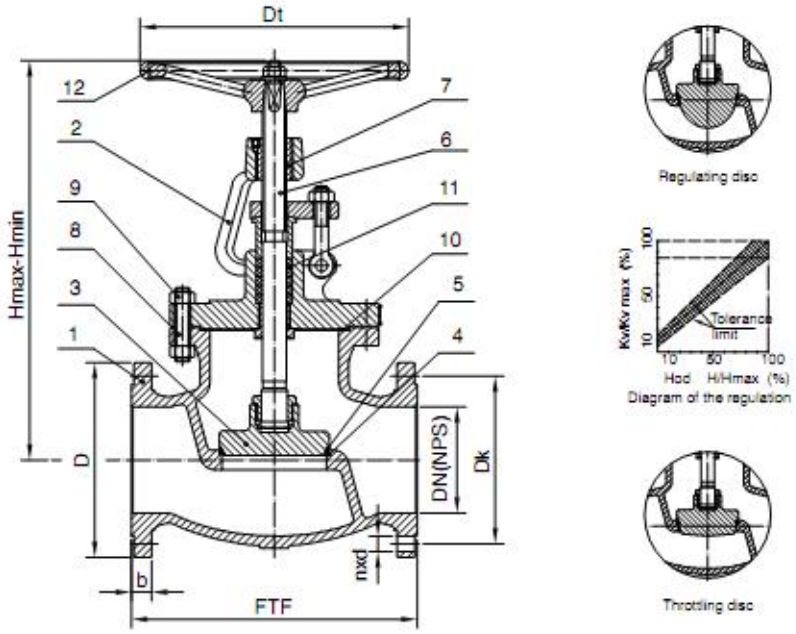
- Long service life
- Respect to emission standards
- Easy handling and maintenance
- Stem packing replacement in working conditions

Options

- Electric, hydraulic or pneumatic actuator
- Regulating parabolic disc
- Position indicator
- Extended stem
- Locking device
- Seats and sealing made of elastic materials
- Flanges and welding ends according to : GOST, DIN, EN.
- Other paint finishes are available upon customer's request
- Valve complete with counter flanges, bolting and gaskets

Testing

- Every produced valve was tested according to API 598



Drawing A.3.1 Parts and dimensions

List of materials **Table A.3.1**

Item	Part		Material Group acc. to ASME B16.34					
			1.1	1.3	1.9	1.13	2.2	2.11
			Application					
			-29°C÷425°C	-40°C÷345°C	-29°C÷550°C	-29°C÷550°C	-196°C÷600°C	-196°C÷600°C
			Material Code					
			13	15	23	27	43	45
1	Body		A216 WCB	A352 LCB	A217 WC6	A217 C5	A351 CF8M	A351 CF8C
2	Bonnet		A216 WCB	A352 LCB	A217 WC6	A217 C5	A351 CF8M	A351 CF8C
3	Disc		A216 WCB	A352 LCB	A217 WC6	A217 C5	A351 CF8M	A351 CF8C
4	Trim	Body Seat	Cr13		HF (Stellite 6)		Basic Material or Stellite 6	
5		Disc Seat	Cr13		HF (Stellite 6)		Basic Material or Stellite 6	
6		Stem	SS 420				SS 316	SS 304
7	Stem Nut		nodular cast iron / Cu alloy					
8	Stud Bolts		A193 B7		A193 B16 / 1.7709		A193 B8M	A193 B8
9	Nuts		A194 2H		A194 4 / 1.7709		A194 8M	A194 8
10	Bonnet Gasket		Reinforced pure graphite / Soft Steel / Spiral-wound / Oval Metal Ring					
11	Stem Packing		graphite with corrosion inhibitor					
12	Handwheel		cast iron or epoxy coated steel					

Standards **Table A.3.2**

Globe Stop Valves according to BS 1873	Class 150 ÷ Class 900
Face-to-face dimensions according to	ASME/ANSI B16.10
Flanged ends according to	ASME/ANSI B16.5

[VBS] Dimensions Class 150

Table A.3.3

DN (NPS)	FTF	D	b	Dk	d	n	H max	H min	Dt	(kg)
	↔ (mm)									
50 (2)	203	150	19	120,7	19	4	370	330	200	19
80 (3)	241	190	24	152,4	19	4	450	400	250	38
100 (4)	292	230	24	190,5	19	8	490	435	315	55
150 (6)	406	280	25,4	241,3	22,2	8	585	515	400	98
200 (8)	495	345	29	298,5	22,2	8	785	685	400	169
250 (10)	622	405	30	362	25,4	12	865	740	500	235

[VBS] Dimensions Class 300

Table A.3.4

DN (NPS)	FTF	D	b	Dk	d	n	H max	H min	Dt	(kg)
	↔ (mm)									
50 (2)	267	165	22	127	19	8	430	390	250	24
80 (3)	318	210	28,5	168,3	22,2	8	520	470	250	55
100 (4)	356	255	32	200	22,2	8	560	505	315	97
150 (6)	444	320	36,5	269,9	22,2	12	725	655	400	165
200 (8)	559	380	41,5	330,2	25,4	12	915	815	500	303
250 (10)	622	445	48,1	387,4	28,6	16	986	821	500	350

[VBS] Dimensions Class 600

Table A.3.5

DN (NPS)	FTF	D	b	Dk	d	n	H max	H min	Dt	(kg)
	↔ (mm)									
50 (2)	292	165	31,8	127	19	8	475	435	250	41
80 (3)	356	210	38,4	168,3	22,2	8	585	535	315	73
100 (4)	432	275	44,4	215,9	25,4	8	680	625	400	125
150 (6)	559	355	54,4	292,1	28,6	12	855	785	500	270
200 (8)	660	420	62,4	349,2	31,7	12	995	895	630	480

[VBS] Dimensions Class 900

Table A.3.6

DN (NPS)	FTF	D	b	Dk	d	n	H max	H min	Dt	(kg)
	↔ (mm)									
50 (2)	368	215	45,1	165,1	25,4	8	560	503	400	88
80 (3)	381	240	45,1	190,5	25,4	8	660	590	500	115
100 (4)	457	290	51,5	235	31,7	8	683	611	500	165
150 (6)	610	380	62,6	317,5	31,7	12	911	811	630	356
200 (8)	737	470	70,5	393,7	38,1	12	995	870	730	610