GLOBE VALVE
VG150BB SERIES

JC VALVES

GENERAL FEATURES:
- Globe valve
- ANSI class 150
- Diam. 2” ~ 16”

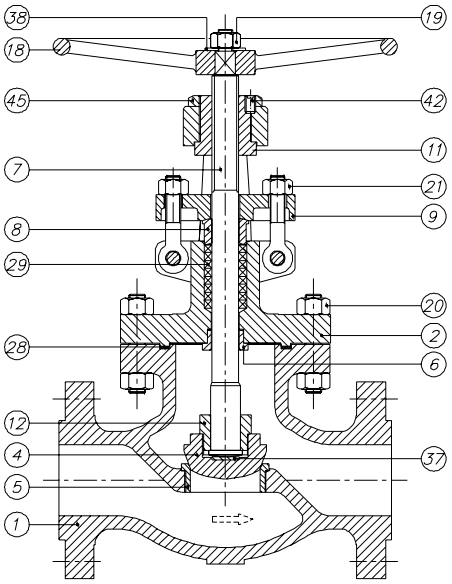


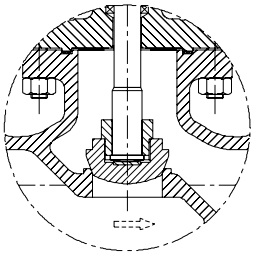
CE

ATEX

CONSTRUCTION	
Valve design	BS 1868 & API 6D, ASME B16.34, MSS SP-42
End to end dimensions	ASME B16.10 & ISO 5752
Flanged dimensions	ASME B16.5 & ISO 7005-1 Part. 1, ASME B16.47, BS 3293, MSS SP-44
Buttweld dimensions	ASME B16.25
Visual inspection	MSS SP-55
Marking	MSS SP-25 & ISO 5209
TESTS AND CERTIFICATES	
Pressure testing	API 598 & ISO 5208, BS 6755 Part. 1, MSS SP-61

Subject to changes





Stainless Steel Construction

Item	Description	Materials			
		Carbon Steel	Carbon Steel (Low Temp.)	Alloy Steel	Stainless Steel
1	Body	A 216 Gr. WCB	A 352 Gr. LCB	A 217 Gr. C5	A 351 Gr. CF8M
2	Bonnet	A 216 Gr. WCB	A 352 Gr. LCB	A 217 Gr. C5	A 351 Gr. CF8M
4	Disc	A 105 + ER 410	A 182 Gr.F304	A 217 Gr.C5 + ER 410	A 351 Gr. CF8M
5	Seat ring	A 105 + Stellite	A 182 Gr.F304	A 182 Gr.F6a + Stellite	-
6	Backseat	A 182 Gr.F6a	A 182 Gr.F304	A 182 Gr.F6a	-
7	Stem	A 182 Gr.F6a	A 182 Gr.F304	A 182 Gr.F6a	A 182 Gr.F316
8	Gland	A 105		A 182 Gr.F6a	A 182 Gr.F316
9	Gland flange	A 105			A 182 Gr.F304
11	Stem nut	B 148 / A 439 Gr. D2			
12	Disc nut	A 182 Gr.F6a	A 182 Gr.F304	A 182 Gr.F6a	A 182 Gr.F316
18	Handwheel	Carbon Steel			
19	Handwheel nut	Steel			
20	Bonnet bolt & nut	A 193 Gr.B7 / A 194 Gr. 2H			
21	Eye bolt & nut	A 193 Gr.B7 / A 194 Gr. 2H			
28	Gasket	304 / Graphite			316 / Graphite
29	Stem packing	Graphite			
37	Thrust washer	A 182 Gr.F6a	A 182 Gr.F304	A 182 Gr.F6a	A 182 Gr.F316
38	Washer	Steel			
42	Grub screw	A 193 Gr.B7			
45	Lock nut	Steel	Steel	A 182 Gr.F6a	A 182 Gr.F316

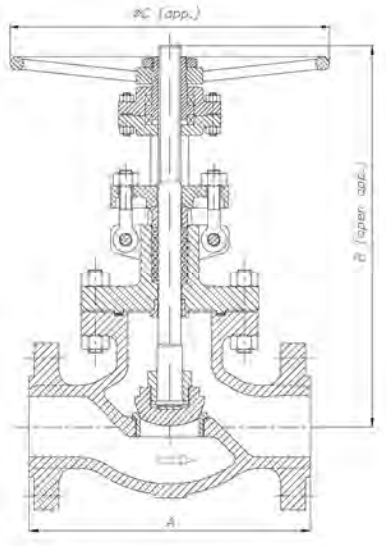
Subject to changes

GLOBE VALVE
VG150BB SERIES - Dimensions

API 600 Trim N°	Nominal Trim	Stem / Backseat	Seating Surface Body / Disc
1	F6	13Cr	13Cr
2	304	18Cr-8Ni	18Cr-8Ni
3	F310	25Cr-20Ni	25Cr-20Ni
4	Hard F6	13Cr	Hard 13Cr
5	Hardfaced	13Cr	Co-Cr A
5A	Hardfaced	13Cr	Ni-Cr
6	F6 and Cu-Ni	13Cr	13Cr and Cu-Ni
7	F6 and Hard F6	13Cr	13Cr and Hard 13Cr
8	F6 and Hardfaced	13Cr	13Cr and Co-Cr A
8A	F6 and Hardfaced	13Cr	13Cr and Ni-Cr
9	Monel	Ni-Cu Alloy	Ni-Cu Alloy
10	316	18Cr-8Ni-Mo	18Cr-8Ni-Mo
11	Monel and Hardfaced	Ni-Cu Alloy	Ni-Cu Alloy and Trim 5 or 5A
12	316 and Hardfaced	18Cr-8Ni-Mo	18Cr-8Ni-Mo and Trim 5 or 5A
13	Alloy 20	19Cr-29Ni	19Cr-29Ni
14	Alloy 20 and Hardfaced	19Cr-29Ni	19Cr-29Ni and Trim 5 or 5A
15	Hardfaced	18Cr-8Ni	Co-CRr A
16	Hardfaced	18Cr-8Ni-Mo	Co-CRr A
17	Hardfaced	18Cr-10Ni-Cb	Co-CRr A
18	Hardfaced	19Cr-29Ni	Co-CRr A

DIMENSIONS: (mm)

Diam.	DN	A (RF/BW)	B	C	Kg
2"	50	203	341	200	22
21/2"	65	216	367	250	29
3"	80	241	375	250	40
4"	100	292	483	300	65
5"	125	356	537	300	77
6"	150	406	517	350	105
8"	200	495	590	400	154
10"	250	622	754	450	288
12"	300	698	941	640	507
14"	350	787	1085	640	520
16"	400	914	1250	460	810



Subject to changes

PRESSURE-TEMPERATURE CHART:

Temp.	Materials			
	A216 WCB	A352 LCB	A217 C5	A351 CF8M (**)
°C	Bar	Bar	Bar	Bar
-29 ~ 38	19,6	18,3	20,0	18,9
95	17,9	17,2	17,9	16,2
150	15,8	15,8	15,8	14,8
205	13,8	13,8	13,8	13,4
260	11,7	11,7	11,7	11,7
315	9,6	9,6	9,6	9,6
345	8,6	8,6	8,6	8,6
375	7,6		7,6	7,6
400	6,5		6,5	6,5
425	5,5		5,5	5,5
450	4,5		4,5	4,5
485	3,4		3,4	3,4
510	2,4		2,4	2,4
540	1,4		1,4	1,4
565			1,4*	1,4*
595			1,4*	1,4*
620			1,4*	1,4*
650			1,4*	1,4*
675				1,4*
705				1,4*
735				1,4*
760				1,4*
790				1,4*
815				1,4*

**** For weld end valves only. Flanged end ratings terminate at 540 °C***

***** A351 CF8M at temperatures over 538 °C (1000 °F) to be used only if Carbon contents is 0,04% or higher***

Cv VALUE: (US Gallons/min) - Kv VALUE: (m³/h)

Diam.	DN	Cv	Kv
2"	50	55	48
21/2"	65	80	69
3"	80	105	91
4"	100	190	164
5"	125	305	264
6"	150	425	368

Diam.	DN	Cv	Kv
8"	200	790	683
10"	250	1250	1081
12"	300	1900	1644
14"	350	2350	2033
16"	400	3300	2855

Subject to changes

GLOBE VALVE
VG150BB SERIES

Type	Class	Execution	Material	Trim
VG	150	BB	A	8

Type	
VC	Gate valve
VG	Globe valve
VR	Check valve

Class	
150	ANSI 150
300	ANSI 300
600	ANSI 600

Execution	
BB	Bolted bonnet
BC	Bolted cover

Material	
A	A 216 Gr. WCB
L	A 352 Gr. LCB
I	A 351 Gr. CF8M
X	A 217 Gr. C5

Trim n°	
	1 ~ 18

Subject to changes