

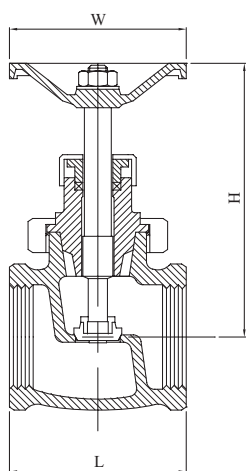


A globe valve is a type of valve used for regulating flow in a pipeline, consisting of a movable disk-type element and a stationary ring seat in a generally spherical body. Globe valves are named for their spherical body shape with the two halves of the body being separated by an internal baffle. This has an opening that forms a seat onto which a movable plug can be screwed in to close the valve. The plug is also called a disc or disk. In globe valves, the plug is connected to a stem which is operated by screw action in manual valves. Globe valves are typically used for applications requiring throttling and frequent operation.

## Section 20

# Globe Valves

## Bronze Globe Valve



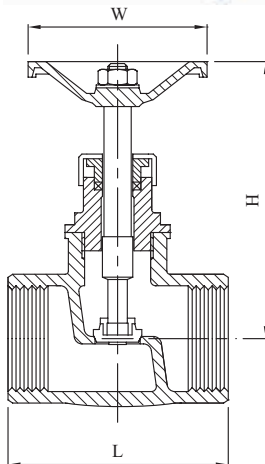
Materials	
PART	MATERIAL
Body	Bronze
Bonnet	Bronze
Bonnet Nut	Bronze
Disc	316 Stainless Steel
Body Seat (Trim)	316 Stainless Steel
Stem	316 Stainless Steel
Gland	DR Brass
Hand Wheel	Ductile Iron
Packing	Graphoil

Specifications	
Thread	AS 1722.1
MAX Working Temperature	260°C
Cold Working Pressure	4000kPa

Applications -For use on normal steam conditions up to saturation temperature

Bronze Globe Valve with SS Trim					
AAP CODE	IMPERIAL SIZE	L	H	W	APPROX. KG/PC
VBGL15SS	1/2	74	120	73	0.99
VBGL20SS	3/4	89	137	73	1.39
VBGL25SS	1	102	158	86	2.04
VBGL32SS	1 1/4	116	175	92	2.93
VBGL40SS	1 1/2	132	204	105	3.98
VBGL50SS	2	160	231	118	6.10

## Stainless Steel Globe Valve



Material List	
PART	MATERIAL
Body	CF8M
Disc	316 Stainless Steel
Stem	316 Stainless Steel
Cap	CF8M
Gasket	PTFE
Washer	316 Stainless Steel
Stem Packing	PTFE
Ring	316 Stainless Steel
Gland Ring	CF8M
Hand wheel	Aluminium Alloy
Name Plate	Aluminium Alloy
Nut	304 Stainless Steel

Specifications	
Thread	AS 1722.1
Cold Working Pressure	1380kPa
MAX Working Temperature	180°C

Applications - Corrosive liquids and harsh environments

Stainless Steel Globe Valve					
AAP CODE	IMPERIAL SIZE	L	H	W	APPROX. KG/PC
SSGL15	1/2	65	85	70	0.37
SSGL20	3/4	80	95	70	0.56
SSGL25	1	90	105	80	0.9
SSGL32	1 1/4	105	125	90	1.36
SSGL40	1 1/2	120	135	90	1.84
SSGL50	2	140	155	100	2.45

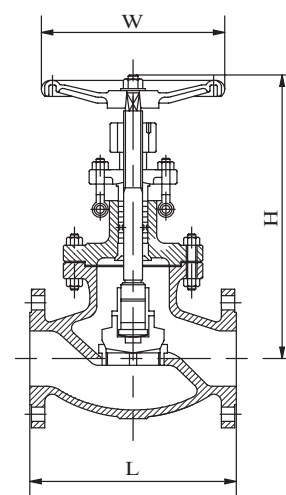


## Cast Steel Flanged Globe Valve ANSI 150

Material List	
PART	MATERIAL
Body	ASTM A216 WCB
Seat Ring	ASTM A105+ERCoCR-A
Bonnet Gasket	13Cr+Graphite
Packing	Graphite
Pin	Carbon Steel
Stem Nut	A1 - Bronze
Screw	Carbon Steel
Hand wheel	ASTM A356

Specifications	
Design and Manufacture	ANSI B16.34
Flange Dimensions	ANSI B16.5
Face to Face Dimensions	ANSI B16.10
MAX Working Temperature	300°C
Cold Working Pressure	1960kPa

Applications - Steam service, Oil and Petrochemical industry



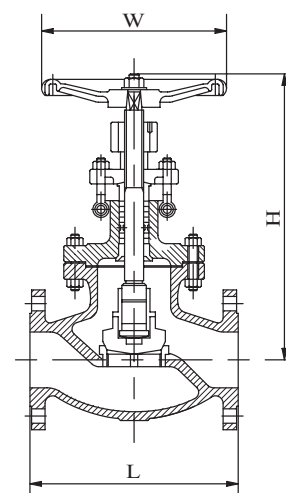
Cast Steel Flanged Globe Valve ANSI 150							
AAP CODE	IMPERIAL SIZE	L	H	W	NO. HOLES	HOLE DIAMETER	APPROX. KG/PC
VGL15050	2	203.2	362	200	4	20	27
VGL15065	2 1/2	215.9	385	200	4	20	36
VGL15080	3	241.3	410	250	4	20	43
VGL15094	4	292.1	440	300	8	20	70
VGL15096	6	406.4	512	350	8	22	110

## Cast Steel Flanged Globe Valve ANSI 300

Material List	
PART	MATERIAL
Body	ASTM A216 WCB
Seat Ring	ASTM A105+ERCoCR-A
Bonnet Gasket	13Cr+Graphite
Packing	Graphite
Pin	Mild Steel
Stem Nut	A1 - Bronze
Screw	Carbon Steel
Hand wheel	ASTM A356

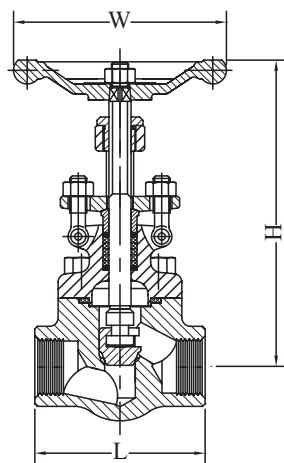
Specifications	
Design and Manufacture	ANSI B16.34
Flange Dimensions	ANSI B16.5
Face to Face Dimensions	ANSI B16.10
MAX Working Temperature	440°C
Cold Working Pressure	5100kPa

Applications - Steam service, Oil and Petrochemical industry



Cast Steel Flanged Globe Valve ANSI 150							
AAP CODE	IMPERIAL SIZE	L	H	W	NO. HOLES	HOLE DIAMETER	APPROX. KG/PC
VGL30050	2	266.7	386	200	8	20	34
VGL30065	2 1/2	292.1	410	250	8	22	50
VGL30080	3	317.5	440	300	8	22	64
VGL30094	4	355.6	498	350	8	22	91

## Forged Steel Globe Valve NPT Class 800



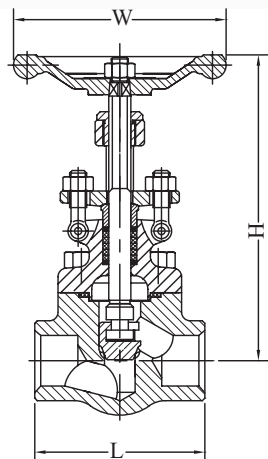
Material List	
PART	MATERIAL
Body	ASTM A 105
Seat Ring	Stainless Steel
Disc	Stainless Steel
Spindle	Stainless Steel
Gasket	Stainless Steel
Bonnet	ASTM A 105
Bonnet bolt	ASTM A 193 Gr. B7
Gland packing	Graphoil
Gland	Stainless Steel
Gland plate	Mild Steel
Yoke nut	NI - Resists
Hand Wheel	Malleable Iron / Cast Iron

Specifications	
Design	API 602
Threaded End (NPT)	ANSI B1.20.1
Testing	API 598
Cold Working Pressure	13800kPa
MAX Working Temperature	427°C

Applications - High pressure steam, water, oil and gas

Forged Steel Globe Valves NPT Class 800					
AAP CODE	IMPERIAL SIZE	L	H	W	APPROX. KG/PC
VGL80015	1/2	80	145	100	1.9
VGL80020	3/4	92	150	100	2.1
VGL80025	1	111	180	125	3.8
VGL80032	1 1/4	128	205	160	5.6
VGL80040	1 1/2	128	220	160	7.2
VGL80050	2	172	284	180	11.3

## Forged Steel Globe Valve Socketweld Class 800



Material List	
PART	MATERIAL
Body	ASTM A 105
Seat Ring	Stainless Steel
Disc	Stainless Steel
Spindle	Stainless Steel
Gasket	Stainless Steel
Bonnet	ASTM A 105
Bonnet bolt	ASTM A 193 Gr. B7
Gland packing	Graphoil
Gland	Stainless Steel
Gland plate	Carbon Steel
Yoke nut	NI - Resists
Hand Wheel	Malleable Iron / Cast Iron

Specifications	
Design	API 602
Socket Weld	ANSI B16.11
Testing	API 598
Cold Working Pressure	13800kPa
MAX Working Temperature	427°C

Applications - High pressure steam, water, oil and gas

Forged Steel Globe Valves Socketweld Class 800					
AAP CODE	IMPERIAL SIZE	L	H	W	APPROX. KG/PC
VGL800SW15	1/2	80	145	100	1.9
VGL800SW20	3/4	92	150	100	2.1
VGL800SW25	1	111	180	125	3.8
VGL800SW32	1 1/4	128	220	160	5.6
VGL800SW40	1 1/2	128	220	160	7.2
VGL800SW50	2	172	284	180	11.3

## Notes

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