

CAST STEEL GLOBE VALVES

6.150

ANSI Class 150

ANSI B16.34

Carbon steel
ASTM A216 WCB

Flanged ANSI 150 RF

ASTM A182 F6a trim

DN50 to DN300



6.150

Bolted bonnet

Back seated

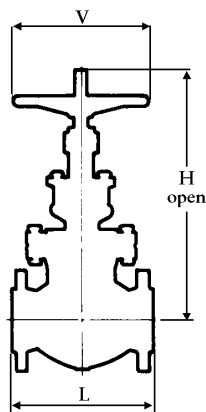
Swivel plug disk

Renewable seat ring

Rising stem

Outside screw and yoke

Handwheel



API

Applications – frequent bi-directional on/off in Class 150 piping systems and throttling duties where pressure drop approximates 20% of inlet pressure. Closer throttling entailing higher pressure drops may result in cavitation and elevated flow velocity which, in turn, may cause excessive noise, vibration and possible damage to the valve and piping. Ideal for all process industries in which the performance standards of API 598 and ANSI B16.34 backed by the best quality assurance are necessary for long-term user satisfaction.

Specification – manufacture is to ANSI B16.34. The generous body dimensions minimize mechanical stress, turbulence and flow resistance. The back-seated body/bonnet assembly is male/female. The gently angled disk is connected to the stem via the stem ring which permits the disk to swivel to ensure tight seating. The body seat ring is in ASTM A182 F6a hard facing material with bottom guide in sizes DN200 and above. A 2-part packing gland exerts even pressure on the packing thus avoiding damage to the stem. The valves are equipped with a drain tapping. End connections are flanged and drilled ANSI 150 RF; face-to-face to ANSI B16.10. Body markings to MSS-SP-25.

P/T ratings – in accordance with ANSI B16.34

Temperature °Celsius	-29° +38°	100°	150°	200°	250°	300°	350°	375°	400°	425°	* 450°	* 475°	* 500°	* 538°
Pressure bar	19,7	17,7	15,8	14,0	12,1	10,2	8,4	7,4	6,5	5,6	4,6	3,7	2,8	1,4

* Prolonged temperatures above 425° Celsius may result in deterioration of the carbon phase of carbon steel.

Materials – to ANSI B16.34

Part	Material	Part	Material
Body	ASTM A216 WCB*	Yoke bush	ASTM A439-D2C
Bonnet	ASTM A216 WCB	Bonnet bolt	ASTM A193-B7
Disk	ASTM A217 CA 15	Bonnet nuts	ASTM A194-2H
Stem	ASTM A479 Tp 410	Hinge bolt/nut	ASTM A307 B
Handwheel	ASTM A197 or WCB	Hinge pin	CS 1020
Body seat ring	CS 1020 + Tp 410	Lock nut	ASTM A479 Tp 410
Back seat ring	ASTM A479 Tp 410	Handwheel nut	ASTM A307 B
Packing gland	CS 1020 + Cr plate	Packing	Graphite
Gland flange	ASTM A105	Gasket	Soft steel

* ASTM A216 WCB contains typically Carbon 0,25; Manganese 1,0; Phosphorus 0.04; Sulphur 0,05; Silicon 0,60; all maximum values.

Testing – in accordance with ANSI B16.34; body 30 bar; seat 22 bar.

Dimensions mm/Weights

DN	50	65	80	100	150	200	250	300
in	2	2½	3	4	6	8	10	12
L	203	216	241	292	406	495	622	699
H	316	330	365	414	505	623	803	839
V	200	200	224	280	355	400	450	500
kg	21	28	34	52	95	168	242	404

Options – sizes DN40, DN350 to DN500, and larger on request; end connections to ANSI 150 FF; butt weld ends to ANSI B16.25; RTJ to ANSI B16.5/B16.10; bevel or spur gear operators; pneumatic/hydraulic/electric actuators and accessories; by-passes; locking device; chainwheels; extension stems; special gland packings. Special materials include carbon steels ASTM A352 LCB, A352 LC2; alloy steels A217 WC6, A217 WC9, A217 C5 and A217 C12.

