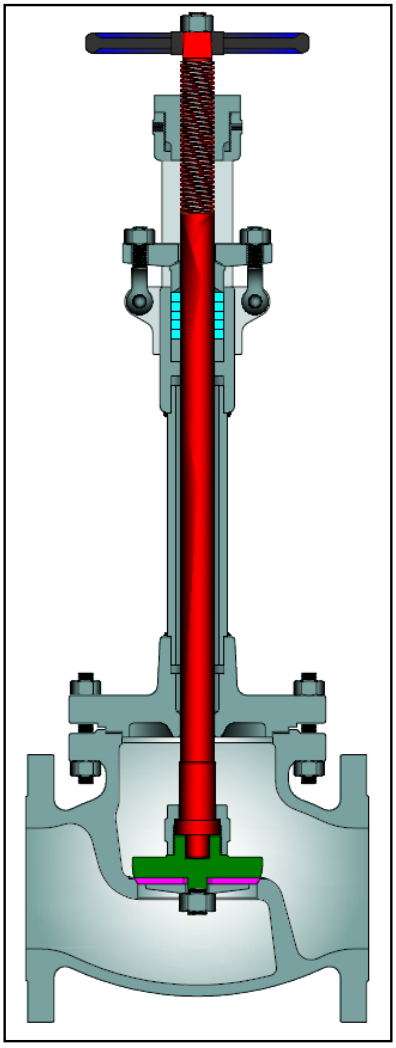
ASME B16.34 GLOBE VALVES

BOLTED BONNET, ASME CLASSES 150 - 300
6" - 12" (150 - 300mm), FLANGED OR BUTTWELD ENDS
CAST STAINLESS STEEL



Class	Fig. No.
150	2475
300	2447

STANDARD MATERIALS (Other materials available)

PART	MATERIALS
Body	A351 Gr. CF8M (1)
Bonnet	A351 Gr. CF8M
Yoke	A351 Gr. CF8M
Disc or Disc Holder (2)	A276 316
Disc Insert (2)	PCTFE
Disc Washer (2)	SST 316
Disc Insert Nut (2)	A194 Gr. 8
Disc Locknut	A276 316
Stem	A276 316
Stem Bushing	A439 D-2
Gland Flange	A351 Gr. CF8
Eye Bolt	A193 Gr. B8
Eye Bolt Nut	A194 Gr.8
Gland	A276 316
Packing	PTFE
Packing Washer / Packing Spacer	A276 316
Gasket	Graphite
Extension Column	SST 304
Hand Wheel	Malleable Iron or Steel
Hand Wheel Nut	Steel
Body / Bonnet Stud	A193 Gr. B8
Body / Bonnet Nut	A194 Gr.8
Identification Plate	Series 300 SST

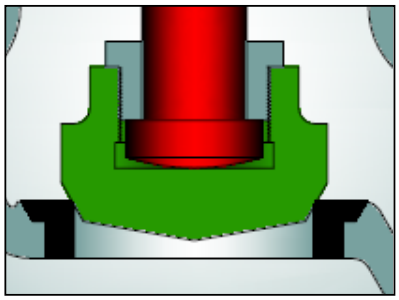
1. CF3M for weld end bodies.
2. Soft seat design.

Design Specifications

Item	Applicable Specification
Wall thickness	ASME B16.34
Pressure - temperature ratings	ASME B16.34
General valve design	B16.34
End to End dimensions	ASME B16.10
Flange design	ASME B16.5
Butt Weld design	ASME B16.25
Materials	ASTM

DESIGN FEATURES:

- Seat face: Ground and lapped to a smooth finish.
- Body and bonnet joint accurately machined.
- Swivel disc for optimal seating and longer seat life.
- Stems of hand wheel operated design are rotating / rising design.
- Each valve is shell, seat and backseat pressure tested.
- Integral seats are standard. Renewable seat rings available on special order.
- Gland has two-piece construction for easy alignment.
- Weld ends are available per ASME B16.25 or per customer's specification.
- Flanges:
  Classes 150-300: 1/16" raised face.
  Finish 125-250 AARH for all valves.
- Valves are specially cleaned and processed for oxygen or cryogenic service and are then sealed to prevent contamination.
- Each valve has a unique certification number that is traceable to the valve certification sheet which includes MTR data, pressure test, inspection result and certificate of conformance.
- Heavier walled API 600 design available.
- Other available options as follows:
  - » Alternate valve materials
  - » Alternate trim materials
  - » Non-extended design
  - » Other options available as specified

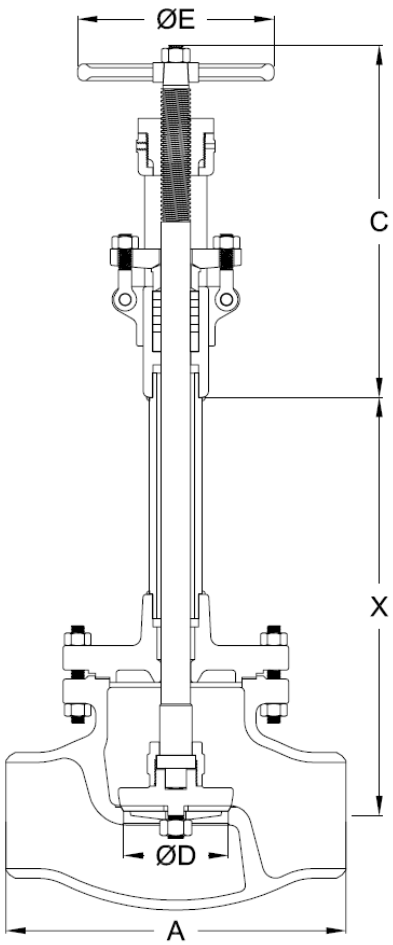


Metal Disc

GLOBE VALVE DIMENSIONS (CLASSES 150 - 300)

SIZE	ASME 150										ASME 300									
in	A	C	D	E	X (1)	WT	lb	WT	lb	C_v	A	C	D	E	X (1)	WT	lb	WT	lb	C_v
mm						FE	kg	WE	kg							FE	kg	WE	kg	
6	16.0	18.5	6.0	15.8	20.0	241		197		480	17.5	18.5	6.00	17.7	20.0	352		283		480
150	406	470	152	400	508	109		89			445	470	152	450	508	160		128		
8	19.5	18.5	8.0	17.7	24.0	266		225		880	See Powell Engineering for More Information									
200	495	470	203	450	610	121		102												
10	24.5	19.5	10.0	21.7	28.0	433		362		1370										
250	622	495	254	550	711	196		164												
12	27.5	25.6	12.0	23.6	28.0	575		560		2050										
300	699	650	305	600	711	261		254												

(1) Other extensions available. Consult Powell Engineering.



Weld End Design

C = Bottom of yoke flange to top open
X = Center to bottom of yoke flange (Std)

FE = Flanged ends
WE = Buttweld ends
WT = Weight
C_v = Flow coefficient