

STAINLESS STEEL

GLOBE VALVES

DESIGN FEATURE

STEM NUT

The standard material of the Stem Nut is aluminum bronze (B283). When the media is not suitable for aluminum alloy, the material is A 439-D2 instead.

BOLTING

The body-bonnet bolts are manufactured in accordance with API Standard. The bolting also strictly conform with ASME B 1.1 CLASS 2A&2B as well as ASME B 18.2.2.

BONNET

The bonnet is integral with back seat design and is the same material and wall thickness as the body. The body-bonnet flange drilling is spot-faced to exactly meet stud bolt nuts. The stem packing dimensions of the stuffing are in accordance with API Standard.

STEM

The heat-treated stems of one-piece construction insure adequate mechanical properties and surface hardness. Friction at the time of opening and shutting is reduced to a minimum friction to accurate machining and lapping. The round finished surface of the stem head helps to achieve point contact with the inside of the disc housing to eliminate friction.

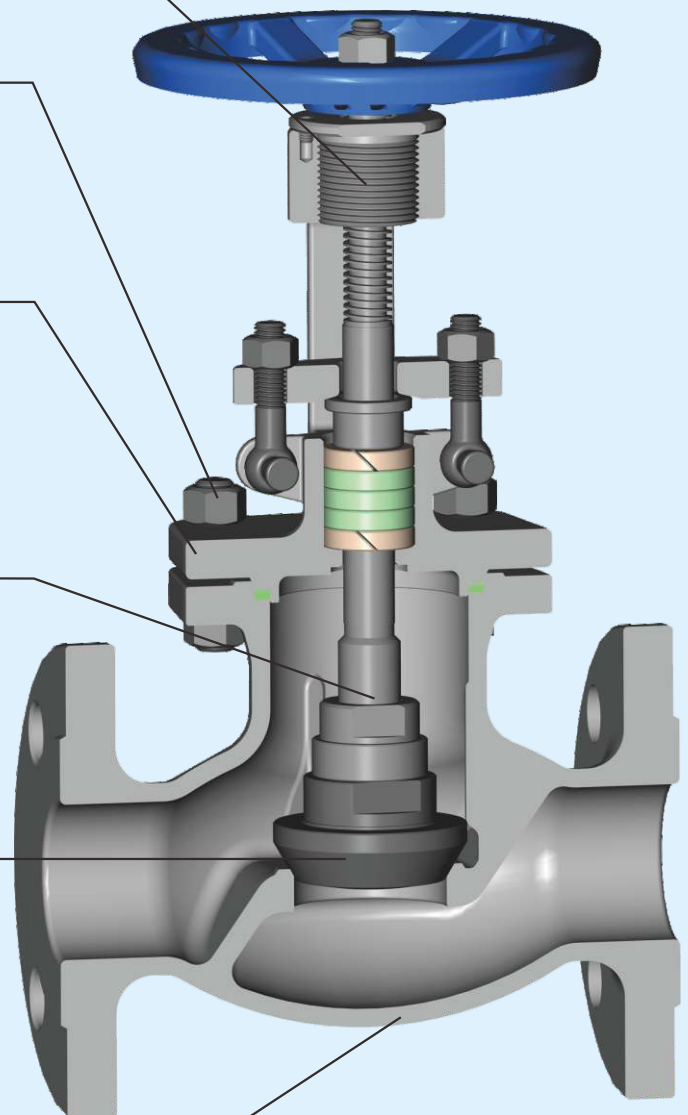
DISC

Loose disc design freely revolves around the stem. This prevents friction and galling with the seating surface when the valve is shut. The disc is furnished with a conical seating surface that has been ground and lapped to a mirror finish. It is of one-piece construction, and forged and heat-treated to deliver the required mechanical properties and hardness.

BODY

The body is designed to insure a wall thickness which is greater at any minimum specified by API Standard. Port and seat passage dimensions conform to ASME B 16.5 and 16.34.

The standard body-bonnet joint is male-female and the flange is round for all valves. Accurate machining insures perfect coaxiality of the valve ends and seat ring in addition to exact perpendicularity of the body-bonnet flanges.



STAINLESS STEEL GLOBE VALVES



DESIGN FEATURES:

- Outside Screw and Yoke
- Bolted Bonnet
- Rising Stem and Handwheel
- Yoke Integrated With Bonnet
- Loose Disc, Fully Guided
- Integrated Seat and Back Seat

APPLICABLE STANDARDS:

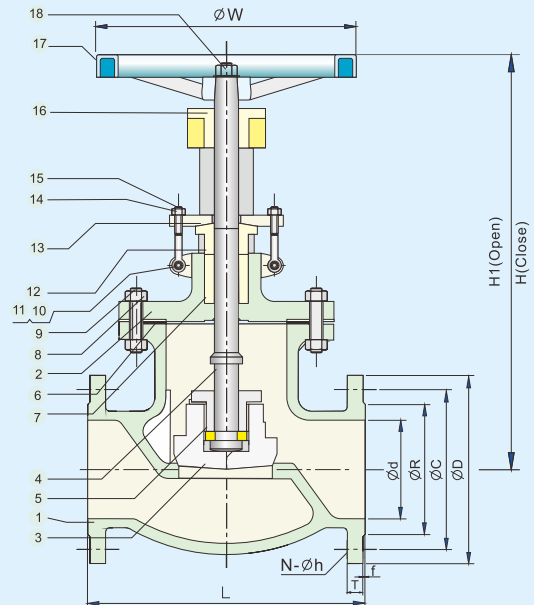
- Design: ASME B 16.34
- Face to Face: ASME B 16.10
- Flanged Ends: ASME B 16.5
- Inspection and Test: API 598

TEST PRESSURE TO API 598

PSIG

CLASS	SHELL TEST(WATER)	SEATS TEST(WATER)	SEATS TEST(AIR)
150#	425(30Bar)	304(22Bar)	80(6Bar)

NO.	NAME OF PART	MATERIALS	
1	Body	A351-CF8	A351-CF8M
2	Bonnet	A351-CF8	A351-CF8M
3	Disc	A351-CF8	A351-CF8M
4	Stem	A182-F304	A182-F316
5	Disc Nut	A351-CF8	A351-CF8M
6	Gasket	PTFE /304(316)SPIRAL WOUND+GRAFOIL FILLER	
7	Gland Packing	PTFE YARN /GRAFOIL	
8	Bonnet Bolt Nut	A194-8	
9	Bonnet Bolt	A193-B8	
10	Eye Bolt Pin	A276-304	
11	Split Pin	A276-304	
12	Gland	A351-CF8	A351-CF8M
13	Gland Flange	A351-CF8	
14	Eye Bolt Nut	A194-8	
15	Eye Bolt	A193-B8	
16	Stem Nut	B283/A439-D2	
17	Handwheel	A536 60-40-18	
18	Handwheel Nut	A194-8	



CLASS 150# DIMENSIONAL TABLE

KL-150

SIZE	d	L	D	C	R	T	f	N-h	H(close)	H1(open)	W
1/2"	15.0	108	90	60.3	35.0	8.0	2	4-16.0	200	210	130
3/4"	20.0	117	100	69.9	43.0	8.9	2	4-16.0	205	215	130
1"	25.0	127	110	79.4	51.0	9.6	2	4-16.0	216	228	130
1-1/4"	32.0	140	115	88.9	63.5	11.2	2	4-16.0	220	236	130
1-1/2"	40.0	165	125	98.4	73.0	12.7	2	4-16.0	264	283	178
2"	50.0	203	150	120.7	92.0	14.3	2	4-19.0	280	304	178
2-1/2"	63.5	216	180	139.7	105.0	15.9	2	4-19.0	295	323	178
3"	76.0	241	190	152.4	127.0	17.5	2	4-19.0	340	375	203
4"	100.0	292	230	190.5	157.2	22.3	2	8-19.0	365	405	250
5"	125.0	356	255	215.9	186.0	22.3	2	8-22.4	450	500	356
6"	150.0	406	280	241.3	216.0	23.9	2	8-22.4	475	545	356
8"	200.0	495	345	298.5	270.0	27.0	2	8-22.4	520	590	450