

# 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.

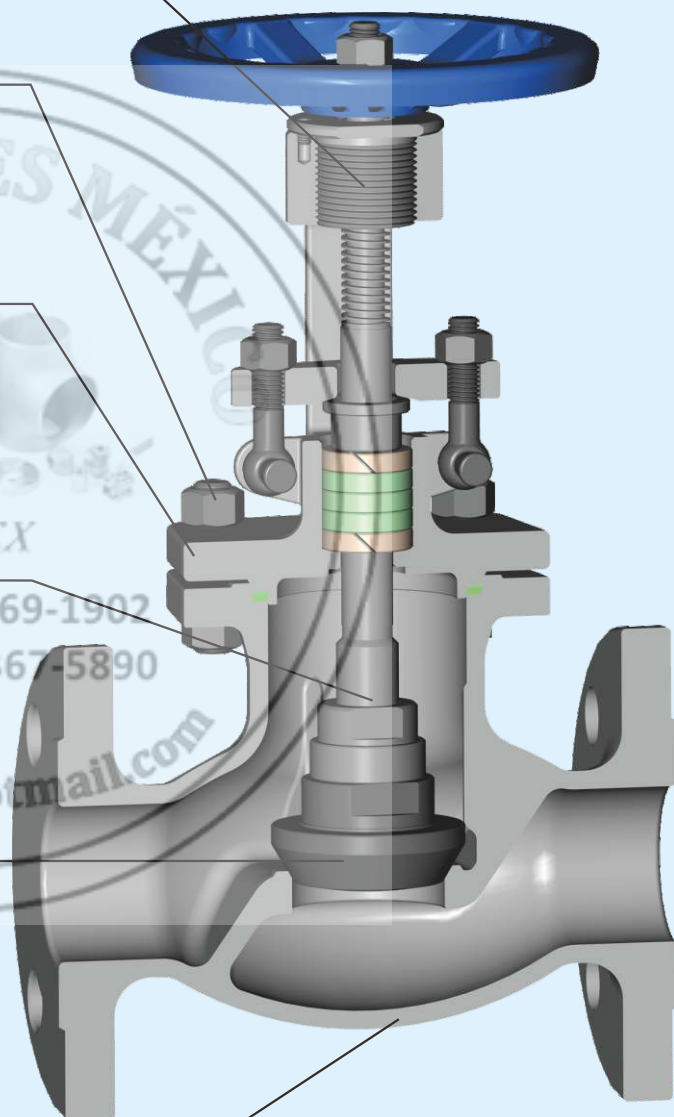
#### DISC

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:

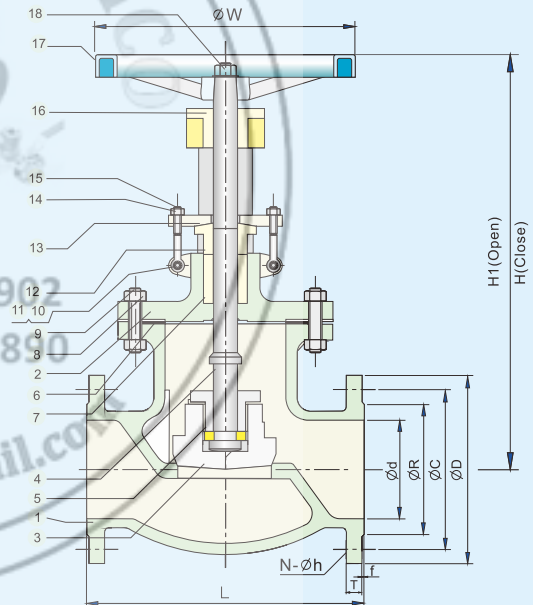
- Design: ASME B 16.34
- Face to Face: ASME B 16.10
- Flanged Ends: ASME B 16.5
- Inspection and Test: API 598

## 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