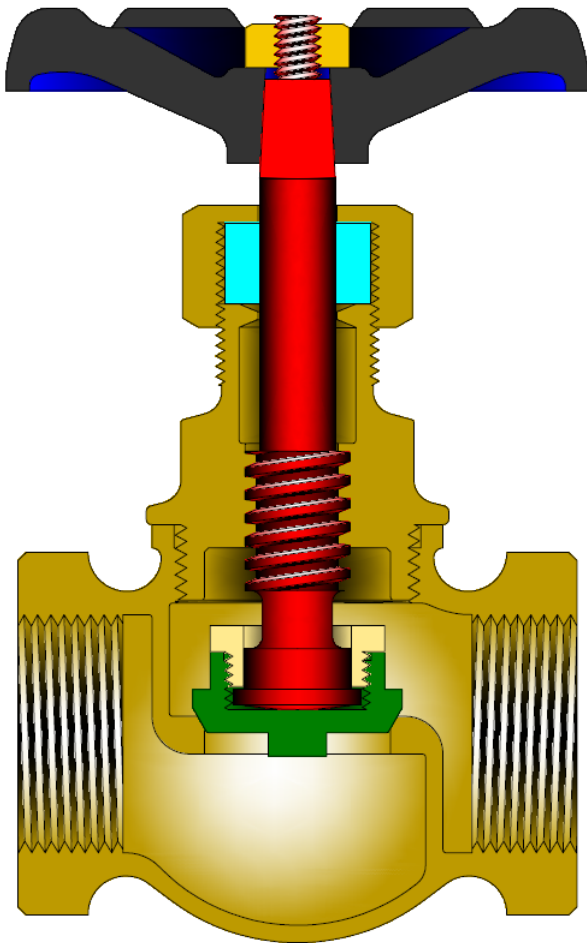


MSS SP-80 GLOBE VALVE

THREADED BONNET, THREADED ENDS

1/4 - 3" (6 - 75 mm) CLASS 125

BRONZE



Class	Fig. No.
125	650

STANDARD MATERIALS

PART	MATERIALS
Body	B62
Bonnet	B62*
Disc	B62**
Stem	B371 C69400
Packing Nut	B62 or B16
Disc Locknut	B371 C69400
Packing	Graphite
Hand Wheel	A47 Gr. 32510
Hand Wheel Nut	Brass
Horseshoe Ring	SS 303 or SS 304
Wheel Plate	Aluminum

* B16 for sizes 1/4" through 3/4"

** For 1/2" and smaller sizes, disc and stem are integral and disc material is same as stem.

Design Specifications

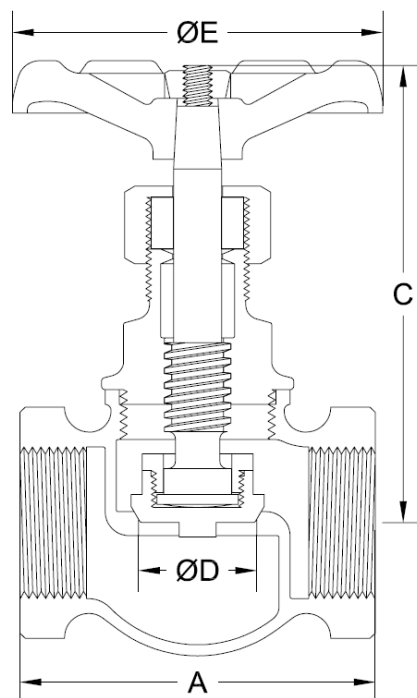
Item	Applicable Specification
Pressure - temperature ratings	MSS SP-80
General valve design	MSS SP-80
Thread design	ASME B1.20.1
Materials	ASTM

DESIGN FEATURES:

- High-Tensile bronze alloy stem.
- Integral seats.
- Discs in 3/4" and larger valves are attached to stem by disc locknut. The 1/2" and smaller valves have stem and disc integral.
- Each valve is shell and seat pressure tested per industry standard MSS SP-80.

GLOBE VALVE DIMENSIONS (CLASS 125)

SIZE	FIG 650					
	A	C	D	E	WT	CV
in					lb	
mm					kg	
¼	1.63	2.7	0.25	2.1	0.4	0.6
6	41	68	6	54	0.2	
3/8	1.94	3.0	0.38	2.5	0.6	1.4
10	49	76	10	64	0.3	
½	2.13	3.4	0.50	2.8	0.8	2.5
13	54	86	13	70	0.4	
¾	2.50	3.9	0.75	3.0	1.3	5.8
20	64	100	19	76	0.6	
1	3.00	4.4	1.00	3.3	1.9	10.7
25	76	111	25	83	0.9	
1¼	3.44	5.1	1.25	3.6	2.7	17.1
32	87	129	32	92	1.2	
1½	3.81	5.4	1.50	4.1	4.4	25
40	97	137	38	105	2.0	
2	4.75	6.5	2.00	4.8	5.9	50
50	121	165	51	121	2.7	
2½	5.69	7.3	2.50	5.1	10.1	75
65	144	186	64	130	4.6	
3	6.56	8.3	3.00	5.8	15.4	110
75	167	210	76	146	7.0	



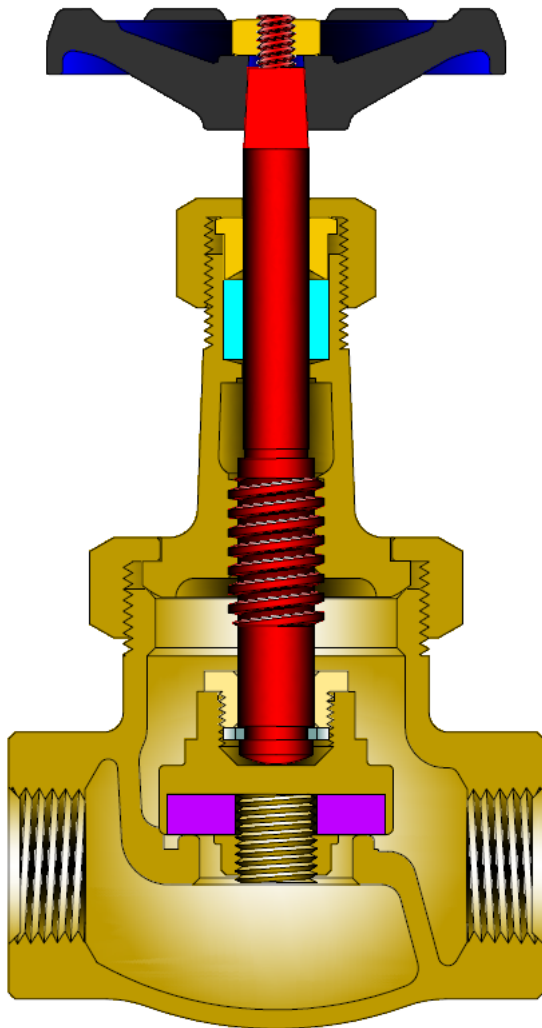
C = Center to top
WT = Weight
C_v = Flow coefficient

MSS SP-80 GLOBE VALVE

UNION BONNET, THREADED ENDS

1/4 - 3" (6 - 75 mm) CLASS 150

BRONZE WITH RENEWABLE COMPOSITION DISC



Class	Fig. No.
150	150

STANDARD MATERIALS

PART	MATERIALS
Body	B62
Bonnet	B62
Disc	Glass Filled PTFE
Disc Locknut	B-371 C69400
Disc Nut	B62
Disc Holder	B62
Horseshoe Ring	SS 303 or SS 304
Stem	B371 C69400
Packing Nut	B62 or B374 C69400
Gland	B16
Packing	Graphite
Hand Wheel	A47 Gr. 32510
Hand Wheel Nut	Brass
Wheel Plate	Aluminum

Design Specifications

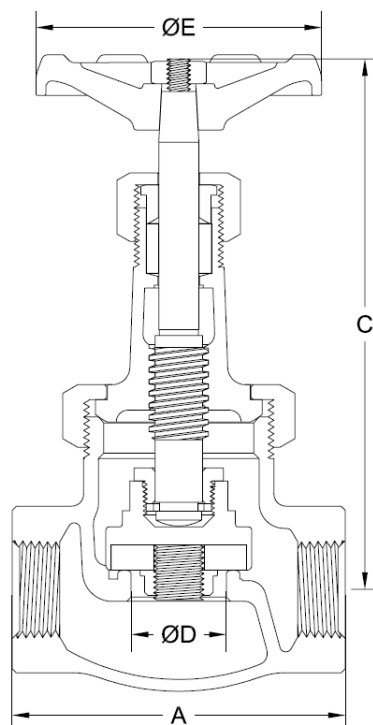
Item	Applicable Specification
Pressure - temperature ratings	MSS SP-80
General valve design	MSS SP-80
Thread design	ASME B1.20.1
Materials	ASTM

DESIGN FEATURES:

- Integral seats have opening equal to nominal pipe size of valve.
- High-Tensile bronze alloy stem.
- Each valve is shell and seat tested per industry standard MSS SP-80.

GLOVE VALVE DIMENSIONS (CLASS 125)

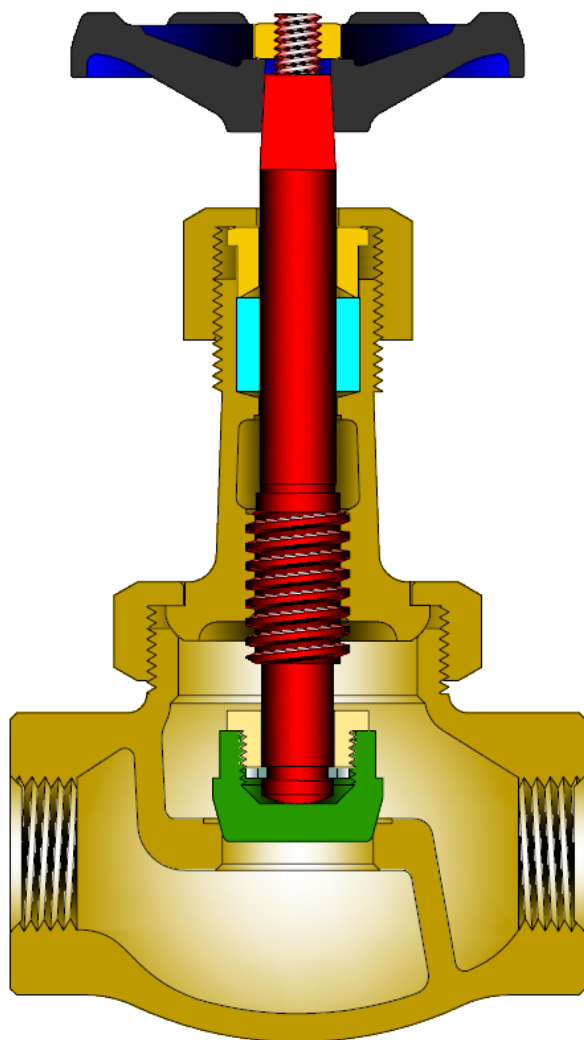
SIZE	FIG 150					
	A	C	D	E	WT	CV
in					lb	
mm					kg	
¼	2.13	4.2	0.25	2.5	0.8	0.6
6	54	106	6	64	0.4	
3/8	2.25	4.2	0.38	2.5	0.9	1.4
10	57	106	10	64	0.4	
½	2.50	4.8	0.50	2.8	1.3	2.5
13	64	122	13	70	0.6	
¾	3.00	5.4	0.75	3.0	2.1	5.8
20	76	138	19	76	1	
1	3.56	6.1	1.00	3.3	3.4	10.7
25	90	156	25	83	1.5	
1¼	4.13	6.8	1.25	3.6	5.1	17.1
32	105	173	32	92	2.3	
1½	4.63	7.3	1.50	4.1	6.6	25
40	117	187	38	103	3	
2	5.75	8.1	2.00	4.6	10.5	50
50	146	206	51	117	4.8	
2½	6.63	9.5	2.50	5.7	18.6	75
65	168	241	64	144	8.4	
3	8.50	10.8	3.00	6.4	28.4	110
75	216	275	76	162	12.9	



C = Center to top
WT = Weight
C_v = Flow coefficient

MSS SP-80 GLOBE VALVES

UNION BONNET, THREADED ENDS
 1/4 - 3" (6 - 75 mm) CLASSES 200 & 300
 BRONZE



Class	Fig. No.
200	110
300	120

STANDARD MATERIALS

PART	MATERIALS
Body	B61
Bonnet	B61
Bonnet Ring	B61
Disc	B61 or B371 C69400
Disc Locknut	B371 C69400
Horseshoe Ring	SS 303 or SS 304
Stem	B371 C69400
Packing Nut	B62
Gland	B16
Packing	Graphite
Hand Wheel	A47 Gr. 32510
Hand Wheel Nut	Brass
Wheel Plate	Aluminum

Design Specifications

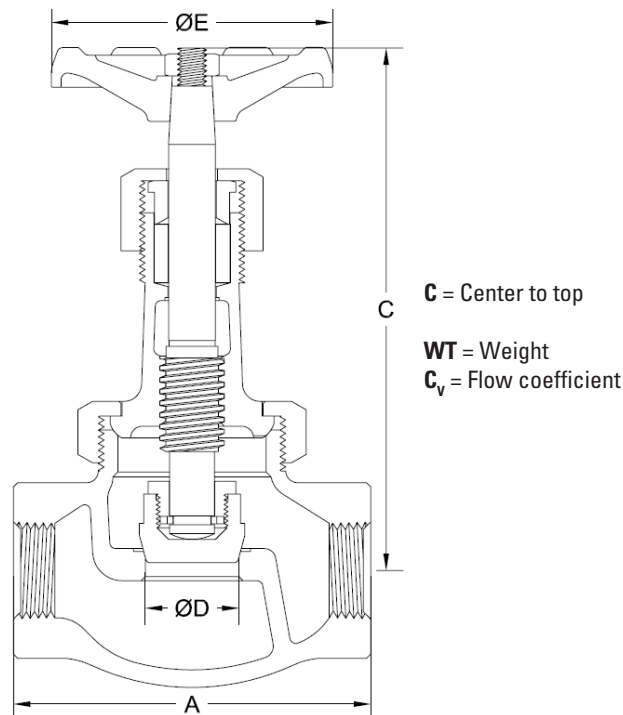
Item	Applicable Specification
Pressure - temperature ratings	MSS SP-80
General valve design	MSS SP-80
Thread design	ASME B1.20.1
Materials	ASTM

DESIGN FEATURES:

- Plug type discs are held by a locknut.
- Integral seats have openings equal to nominal pipe size of valve.
- High-Tensile bronze alloy stem.
- Valves can be reground without being removed from the line.
- Each valve is shell and seat pressure tested per industry standard MSS SP-80.

GLOBE VALVE DIMENSIONS (CLASSES 200 & 300)

SIZE	FIG 110 & 120					
	A	C	D	E	WT	CV
in mm					lb kg	
¼	2.25	4.0	0.25	2.5	0.9	0.6
6	57	102	6	64	0.4	
3/8	2.38	4.0	0.38	2.5	1.1	1.4
10	60	102	10	64	0.5	
½	2.63	4.6	0.50	2.8	1.5	2.5
13	67	117	13	70	0.7	
¾	3.25	5.5	0.75	3.3	2.7	5.8
20	83	140	19	83	1.2	
1	3.81	6.2	1.00	3.6	3.9	10.7
25	97	158	25	92	1.8	
1¼	4.38	6.8	1.25	4.1	5.7	17.1
32	111	171	32	103	2.6	
1½	4.88	7.7	1.50	4.8	8.8	25
40	124	196	38	121	4.0	
2	6.00	8.7	2.00	5.7	13.9	50
50	152	221	51	144	6.3	
2½	7.00	10.9	2.50	8.0	22.5	75
65	178	276	64	203	10.2	
3	7.88	12.1	3.00	9.0	36.3	110
75	200	308	76	229	16.4	

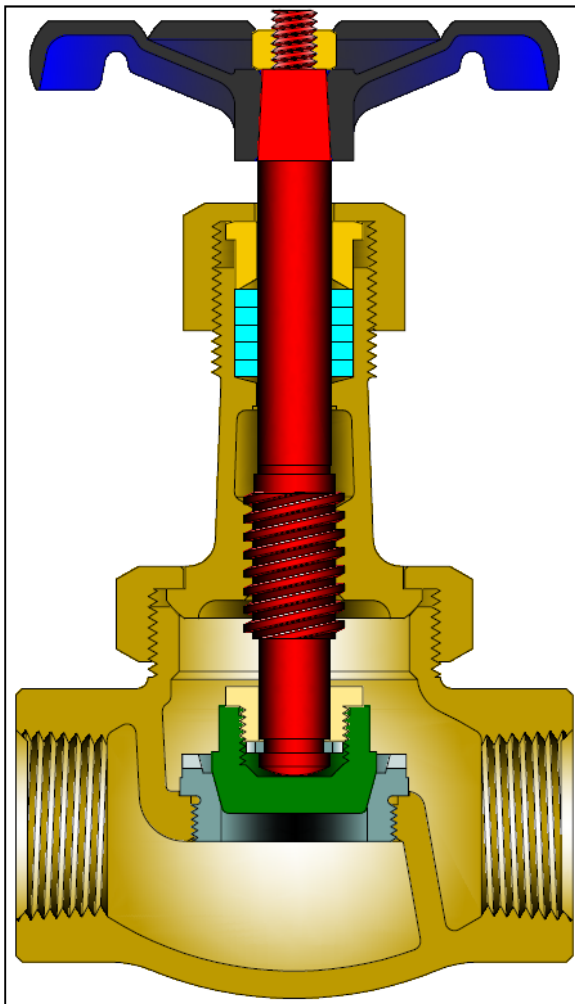


MSS SP-80 GLOBE VALVES

UNION BONNET, THREADED ENDS

1/4 - 3" (6 - 75 mm) CLASSES 150 - 300

BRONZE WITH RENEWABLE STAINLESS STEEL SEAT AND DISC



Class	Fig. No.
150	2600
200	2608
300	2612

STANDARD MATERIALS

PART	MATERIALS
Body	B61
Bonnet	B61
Bonnet Ring	B61
Disc	A582 T416
Disc Locknut	B371 C69400
Horseshoe Ring	SS 303 or SS 304
Seat Ring	A582 T416
Stem	B371 C69400
Packing Nut	B62 or B16
Gland	B16
Packing	Graphite
Hand Wheel	A47 Gr. 32510
Hand Wheel Nut	Brass
Wheel Plate	Aluminum

Design Specifications

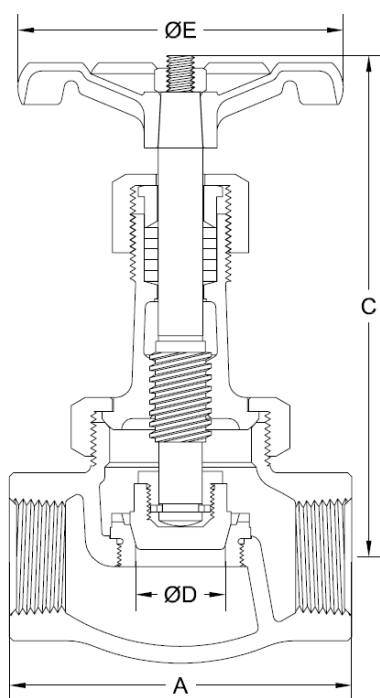
Item	Applicable Specification
Pressure - temperature ratings	MSS SP-80
General valve design	MSS SP-80
Thread design	ASME B1.20.1
Materials	ASTM

DESIGN FEATURES:

- Renewable plug type stainless steel disc.
- Renewable stainless steel seat has full nominal pipe size opening.
- High-Tensile bronze alloy stems.
- Differential hardness between seat and disc to prevent galling.
- Each valve is shell and seat pressure tested per industry standard MSS SP-80.

GLOBE VALVE DIMENSIONS (CLASSES 200 & 300)

SIZE in mm	FIG 2600, 2608, & 2612						
	A	C	D	E	WT	lb kg	CV
¼	2.25	4.0	0.25	2.5	0.9		0.6
6	57	102	6	64	0.4		
3/8	2.38	4.0	0.38	2.5	1.1		1.4
10	60	102	10	64	0.5		
½	2.63	4.6	0.50	2.8	1.4		2.5
13	67	117	13	70	0.6		
¾	3.25	5.5	0.75	3.3	2.4		5.8
20	83	140	19	83	1.1		
1	3.81	6.2	1.00	3.6	4.0		10.7
25	97	158	25	92	1.8		
1¼	4.38	6.8	1.25	4.1	5.7		17.1
32	111	171	32	103	2.6		
1½	4.88	7.8	1.50	4.8	8.7		25
40	124	198	38	121	3.9		
2	6.00	8.7	2.00	5.7	14.4		50
50	152	221	51	144	6.5		
2½	7.25	11.3	2.50	8.0	37.7		75
65	184	286	64	203	17.1		
3	8.75	13.1	3.00	9.0	58.5		110
75	222	333	76	229	26.5		



C = Center to top
WT = Weight
C_v = Flow coefficient