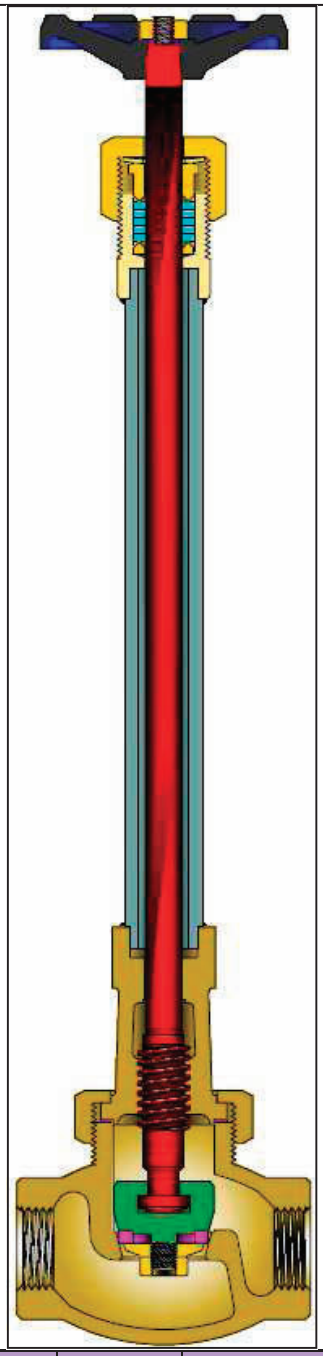
MSS SP-80 GLOBE VALVES
UNION BONNET, THREADED ENDS
¼ TO 2" (6 TO 50mm) CLASS 300
BRONZE



Class	Fig. No.	Ends
300	0174	Threaded Ends
	2874	Silver Brazed Tube Ends
	2875	Silver Brazed Tube Ends Angle Style

STANDARD MATERIALS

PART	MATERIALS
Body	B61
Bonnet	B61
Bonnet Ring	B61
Extension Column	SST 304
Disc or Disc Holder (2)	B371 C69400
Disc Locknut (2)	B371 C69400
Disc Plate (2)	Brass
Disc Insert (2)	PCTFE (1)
Stem	SST 303
Packing Nut	B62 or B16
Packing Collar	Brass
Stuffing Box	B371 C69400
Spring Washer	17-7 PH
Gasket	Glass Filled PTFE
Gland	B16
Packing	PTFE
Hand Wheel	Malleable Iron or Steel
Hand Wheel Nut	Brass
Wheel Plate	Aluminum

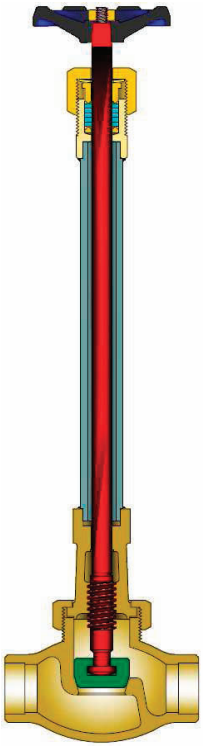
(1) Other insert materials available.
(2) Soft Seat design.

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.
- **Valves** can be reground without being removed from the line.
- **Each** valve is shell and seat pressure tested per industry standard MSS SP-80.
- **Valves** are specially cleaned and processed for oxygen or cryogenic service and are then sealed to prevent contamination.
- **Valves** available with non-extended bonnets. See Bronze and Iron Catalog for dimensions and weights of non-extended design.



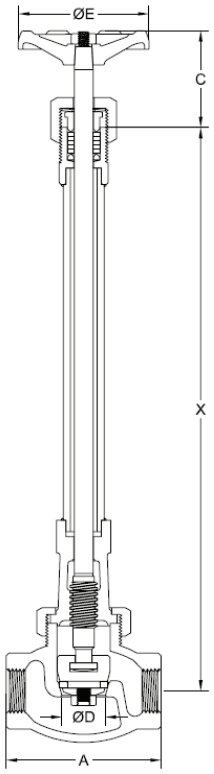
Metal Seat Design with Silver Brazed Tube Ends

GLOBE VALVE DIMENSIONS (CLASS 300).

SIZE	FIG 0174							
in / mm	A	C	D	X (1)	E	WT	lb / kg	C_V
¼	2.13	2.0	0.25	12.0	2.5	1.6		0.6
6	54	51	6	305	64	0.7		
⅜	2.25	2.0	0.38	12.0	2.5	1.1		1.4
10	57	51	10	305	64	0.5		
½	2.50	2.3	0.50	12.0	2.8	2.5		2.5
13	64	58	13	305	70	1.1		
¾	3.00	2.7	0.75	12.0	3.3	2.5		5.8
20	76	68	19	305	83	1.1		
1	3.56	2.7	1.00	13.0	3.3	4.1		10.7
25	90	68	25	330	83	1.9		
1½	4.63	3.4	1.50	13.0	4.1	9.3		25
40	117	86	38	330	103	4.2		
2	5.75	3.6	2.00	14.0	4.8	16.0		50
50	146	92	51	356	121	7.3		

C = Packing sleeve to top open
X = Center to top of stuffing box (Std)

WT = Weight
C_V = Flow Coefficient



(1) Other extensions available. Consult Powell Engineering.