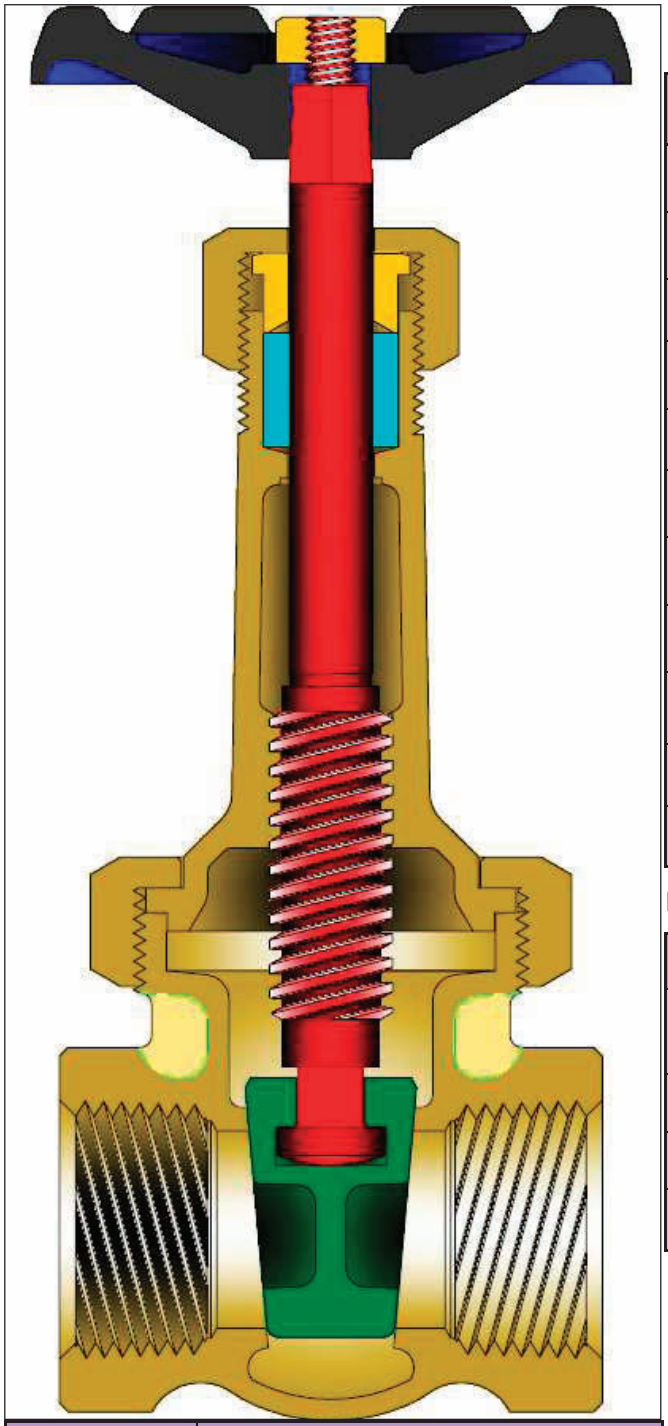
MSS SP-80 GATE VALVE
UNION BONNET, THREADED ENDS
¼ TO 3" (6 TO 75mm) CLASSES 150
BRONZE RISING STEM



Class	Fig. No.
150	2714

STANDARD MATERIALS

PART	MATERIALS
Body	B62
Bonnet	B62
Bonnet Ring	B62
Wedge	B62
Stem	B371 C69400
Packing Nut	B62 or B16
Gland	B16
Packing	PTFE
Hand Wheel	Malleable Iron or Steel
Hand Wheel Nut	Brass
Wheel Plate	Aluminum

Design Specifications

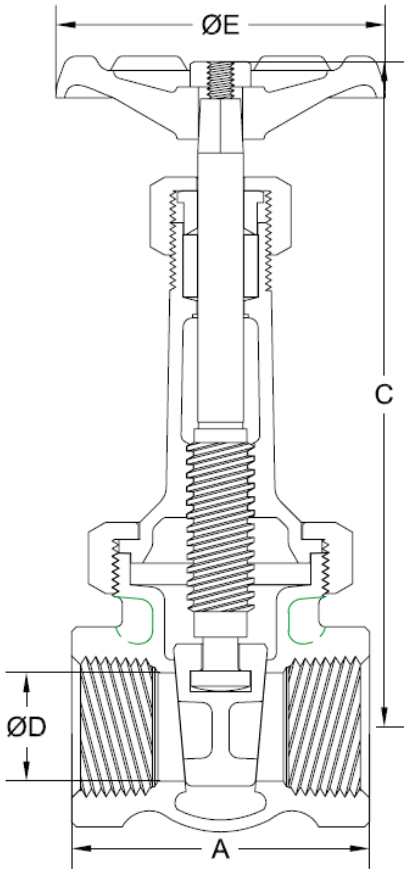
Item	Applicable Specification
Pressure - temperature ratings	MSS SP-80
General valve design	MSS SP-80
Thread design	ASME B1.20.1
Materials	ASTM

DESIGN FEATURES:

- **Renewable** solid wedges.
- **Integral** seats.
- **High-Tensile** bronze alloy stem.
- **Stems** are rotating / rising design.
- **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.
- **Bonnet** chamber ventilation, in order to prevent excess pressure build up caused by trapped cryogenic liquids, is available upon request.

GATE VALVE DIMENSIONS (CLASS 125 AND 150).

SIZE	FIG 2700 & 2714						
in / mm	A	C	D	E	WT lb / kg		C_V
¼	1.75	4.3	0.38	2.1	0.8		3.2
6	44	108	10	54	0.4		
⅜	2.00	4.3	0.38	2.1	0.8		7.1
10	51	108	10	54	0.4		
½	2.38	4.9	0.50	2.5	1.1		12.6
13	60	124	13	64	0.5		
¾	2.44	6.1	0.75	2.8	1.9		30
20	62	156	19	70	0.9		
1	2.75	7.4	1.00	3.0	2.7		55
25	70	187	25	76	1.3		
1¼	3.00	8.6	1.25	3.3	4.0		90
32	76	219	32	83	1.8		
1½	3.38	9.6	1.50	3.6	5.2		130
40	86	244	38	92	2.4		
2	3.50	11.7	2.00	4.1	9.5		240
50	89	297	51	103	4.3		
2½	4.50	14.8	2.50	5.1	16.2		350
65	114	375	64	130	7.3		
3	5.00	17.1	3.00	5.7	23.5		510
75	127	435	76	144	10.7		



C = Center to top open

WT = Weight
C_V = Flow Coefficient