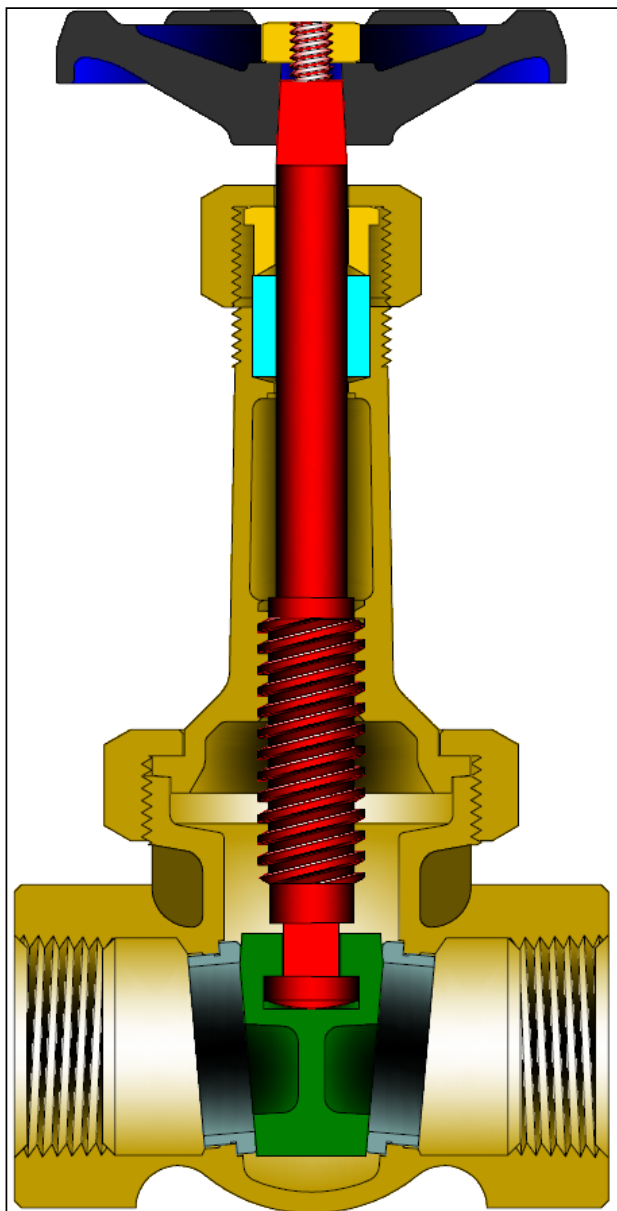


MSS SP-80 GATE VALVE

UNION BONNET, THREADED ENDS

3/8" - 3" (6 - 75 mm) CLASSES 200 & 300

BRONZE RISING STEM WITH ROLLED-IN SEAT RINGS



Type	Class	Fig. No.
Rising Stem	200	2375
	300	2377

STANDARD MATERIALS

PART	MATERIALS
Body	B61
Bonnet	B61
Bonnet Ring	B61
Wedge	B61
Seat Ring	A312 Type 304 (1)
Stem	B371 C69400
Packing Nut	B62 or B16
Gland	B16
Packing	Graphite
Hand Wheel	A47 Gr. 32510
Hand Wheel Nut	Brass
Wheel Plate	Aluminum

(1) Sizes 3/8" - 1/2" use A276 T410

Design Specifications

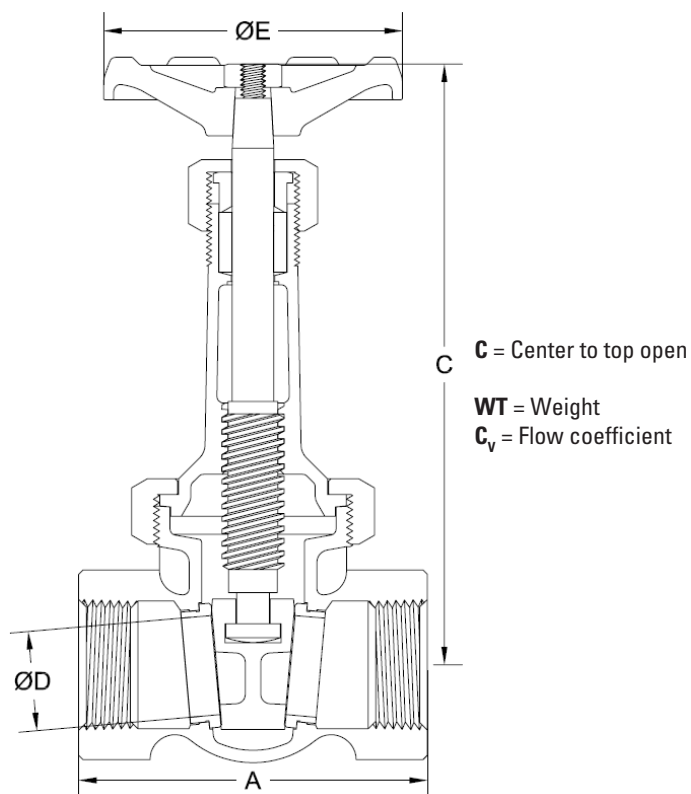
Item	Applicable Specification
Pressure - temperature ratings	MSS SP-80
General valve design	MSS SP-80
Thread design	ASME B1.20.1
Materials	ASTM

DESIGN FEATURES:

- Renewable solid wedges.
- Rolled-in seat rings.
- High-Tensile bronze alloy stems
- Stems are rotating / rising design.
- Each valve is shell and seat pressure tested per industry standard MSS SP-80.

GATE VALVE DIMENSIONS (CLASSES 200 & 300)

SIZE	FIG 2375							FIG 2377						
in	A	C	D	E	WT	lb	CV	A	C	D	E	WT	lb	CV
mm						kg							kg	
3/8	2.06	4.3	0.38	2.1	0.9		7.1	2.13	4.9	0.38	3.0	1.3		7.1
10	52	108	10	54	0.4			54	124	10	76	0.6		
½	2.31	4.9	0.50	2.5	1.2		12.6	2.44	5.9	0.50	3.3	1.7		12.6
13	59	124	13	64	0.5			62	149	13	83	0.8		
¾	2.56	6.1	0.75	2.8	1.9		30	2.69	7.2	0.75	3.6	2.9		30
20	65	156	19	70	0.9			68	183	19	92	1.3		
1	2.94	7.4	1.00	3.0	2.8		55	3.00	8.3	1.00	4.1	4.2		55
25	75	187	25	76	1.3			76	210	25	105	1.9		
1 ¼	3.13	8.6	1.25	3.3	5.0		90	3.38	9.5	1.25	4.6	6.5		90
32	79	219	32	83	2.3			86	241	32	117	2.9		
1 ½	3.50	9.6	1.50	3.6	5.4		130	3.75	10.8	1.50	5.1	9.5		130
40	89	244	38	92	2.4			95	273	38	130	4.3		
2	4.00	11.7	2.00	4.1	8.9		240	4.38	13.1	2.00	5.7	17		240
50	102	297	51	103	4.0			111	333	51	144	7.7		

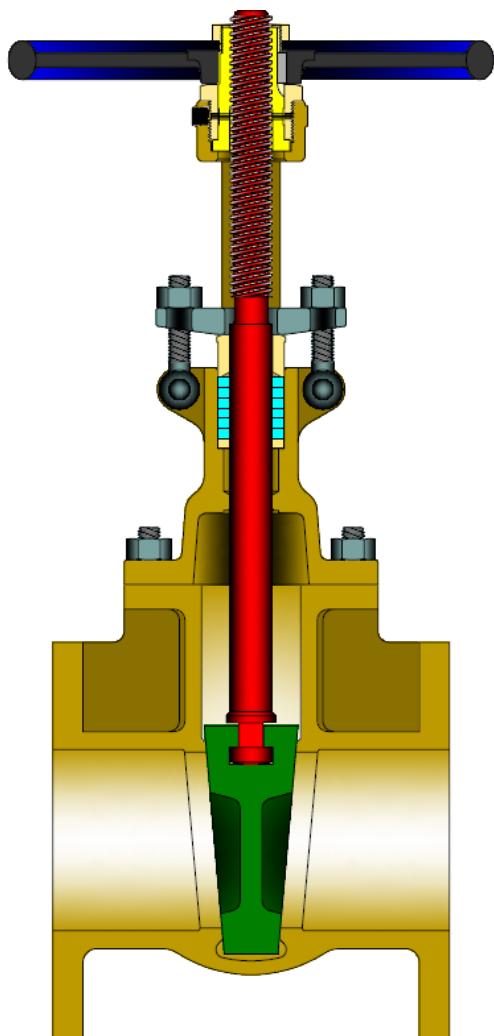


MSS SP-80 GATE VALVE

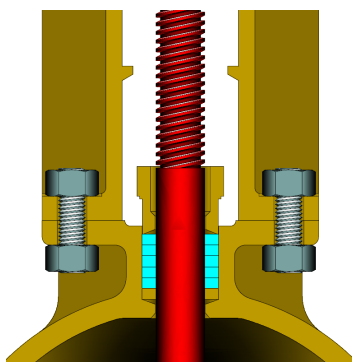
BOLTED BONNET, FLANGED ENDS

4 - 12" (100 - 300 mm) CLASS 150

BRONZE RISING STEM



Class	Fig. No.
150	1414



(1) Yoke and Bonnet Design for Sizes 8" - 12"

STANDARD MATERIALS

PART	MATERIALS
Body	B62
Bonnet	B62
Set Screw	Steel
Wedge	B62
Gasket	Comm. Non-Asbestos
Stem	B16
Stem Bushing	B62
Body Bolt	300 SST
Body Nut	300 SST
Gland	B62
Gland Flange	A351 CF8
Packing	Graphite
Packing Washer	Bronze
Eyebolt	300 SST
Eyebolt Nut	300 SST
Eyebolt Pin	300 SST
Hand Wheel	A47 Gr. 32510
Hand Wheel Key	Steel
Hand Wheel Nut	Steel
Lubricant Fitting	Steel
Yokearms (1)	A47 Gr. 32510
Yokearm Ear Bolts (1)	Steel
Yokearm Ear Nuts (1)	Steel
Yokearm Bolts (1)	Steel
Yokearm Nuts (1)	Steel
Wheel Plate	Aluminum

Design Specifications

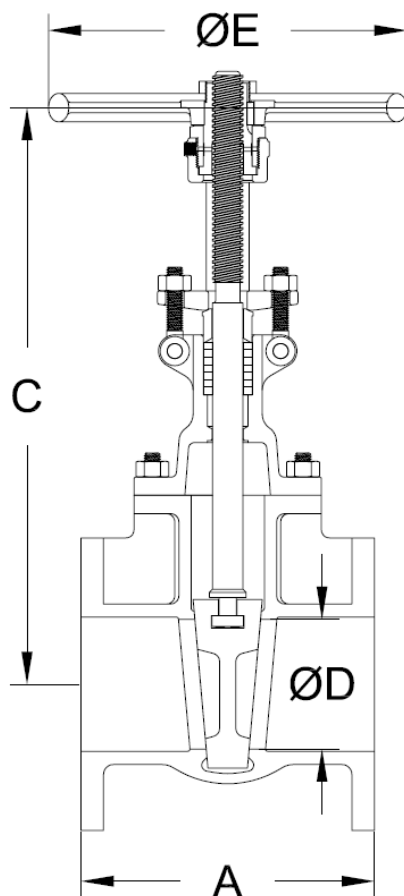
Item	Applicable Specification
Pressure - temperature ratings	MSS SP-80
General valve design	MSS SP-80
Flanged design	ASME B16.24
Materials	ASTM

DESIGN FEATURES:

- Renewable solid wedges.
- Integral seats.
- Large stuffing box.
- Stems are rotating / rising design.
- Each valve is shell and seat pressure tested per industry standard MSS SP-80.

GATE VALVE DIMENSIONS (CLASS 150)

SIZE	FIG 1414					
in	A	C	D	E	WT	lb
mm						kg
4	9.00	20.3	4.00	9.0	87	1020
100	229	496	98	221	39	
6	10.50	30.0	6.00	12.0	157	2440
150	267	735	147	294	71	
8	11.50	37.4	8.00	14.0	255	4500
200	292	916	196	343	116	
10	13.00	47.3	10.00	16.0	445	7000
250	330	1203	245	406	202	
12	14.00	55.5	12.00	16.0	714	10500
300	356	1410	294	406	324	



C = Center to top open

WT = Weight

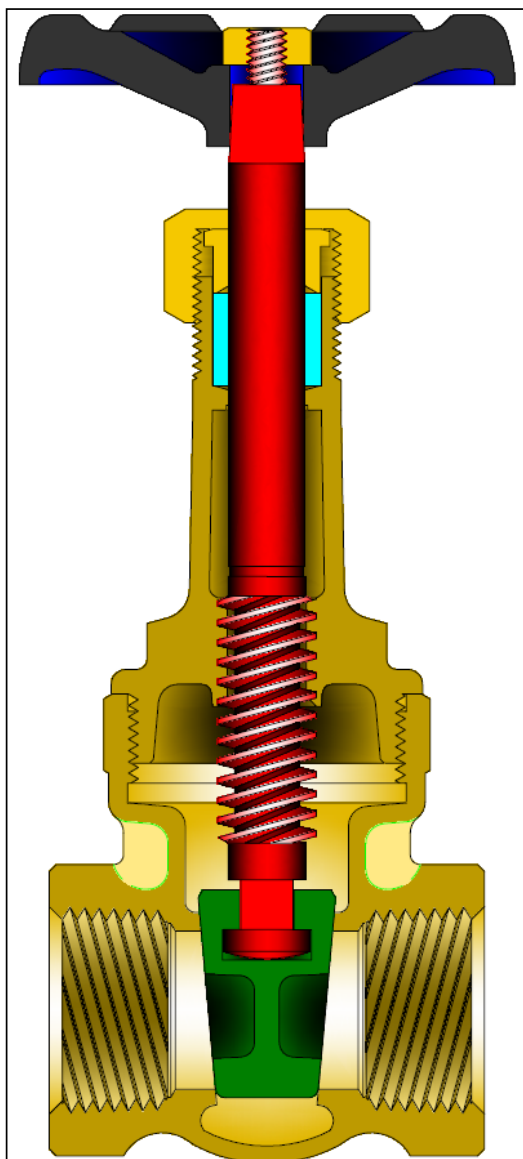
C_v = Flow coefficient

MSS SP-80 GATE VALVE

THREADED BONNET, THREADED ENDS

GATE 1/4" - 3" (6 - 75 mm) CLASSES 125 - 150

BRONZE RISING STEM



Class	Fig. No.
125	500
150	514

STANDARD MATERIALS

PART	MATERIALS
Body	B62
Bonnet	B62
Wedge	B62
Stem	B371 C69400
Packing Nut	B124 C37700
Gland	B124 C37700
Packing	Graphite
Hand Wheel	Ductile Iron
Hand Wheel Nut	Brass
Wheel Plate	Aluminum

Design Specifications

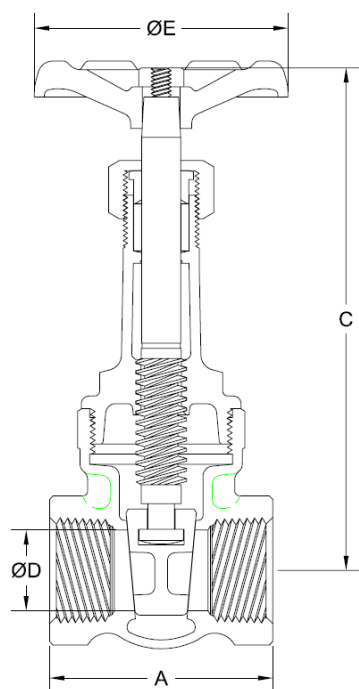
Item	Applicable Specification
Pressure - temperature ratings	MSS SP-80
General valve design	MSS SP-80
Thread design	ASME B1.20.1
Materials	ASTM

DESIGN FEATURES:

- Renewable solid wedges.
- Integral seats.
- High-Tensile bronze alloy stems.
- Each valve is shell and seat pressure tested per industry standard MSS SP-80

GATE VALVE DIMENSIONS (CLASSES 125 & 150)

SIZE	FIG 500 & 514					
in	A	C	D	E	WT	lb
mm						kg
¼	1.81	5.0	0.25	2.5	0.9	3.2
6	46	128	6	64	0.4	
3/8"	1.81	5.0	0.38	2.5	0.9	7.1
10	46	128	10	64	0.4	
½	2.00	5.1	0.50	2.5	1.0	12.6
13	51	130	13	64	0.5	
¾	2.19	6.3	0.75	2.8	1.5	30
20	56	159	19	70	0.7	
1	2.50	7.5	1.00	3.0	2.3	55
25	64	190	25	77	1.0	
1¼	2.81	8.7	1.25	3.3	3.6	87
32	72	222	32	83	1.6	
1½	2.94	9.8	1.50	3.6	4.8	129
40	74	250	38	92	2.2	
2	3.31	11.9	2.00	4.1	7.1	240
50	84	303	51	103	3.2	
2½	4.13	14.6	2.50	5.1	14.0	350
65	105	370	64	130	6.4	
3	4.44	16.5	3.00	5.7	19.1	510
75	112	420	76	145	8.7	



C = Center to top open

WT = Weight

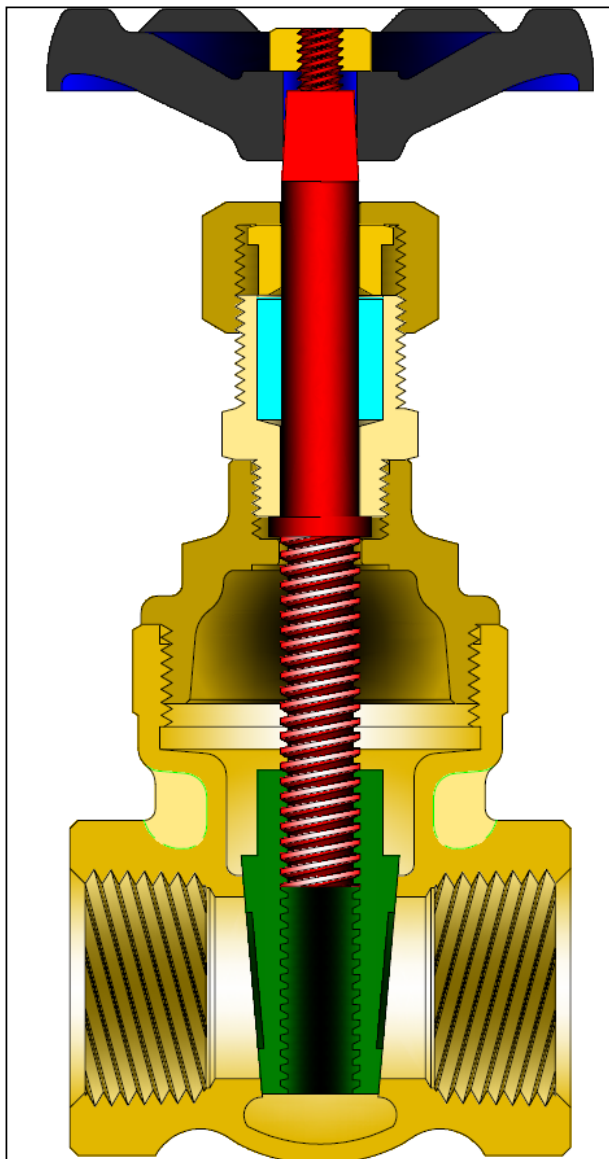
C_v = Flow Coefficient

MSS SP-80 GATE VALVE

THREADED BONNET, THREADED ENDS

GATE 1/4" - 3" (6 - 75 mm) CLASSES 125 - 150

BRONZE NON-RISING STEM



Class	Fig. No.
125	507
150	512 / 2712

STANDARD MATERIALS

PART	MATERIALS
Body	B62
Bonnet	B62
Wedge	B62
Stem	B371 C69400
Packing Nut	B62 or B16
Gland	B16
Packing	Graphite
Hand Wheel	Ductile Iron
Hand Wheel Nut	Brass
Stuffing Box	B371 C69400
Wheel Plate	Aluminum

Design Specifications

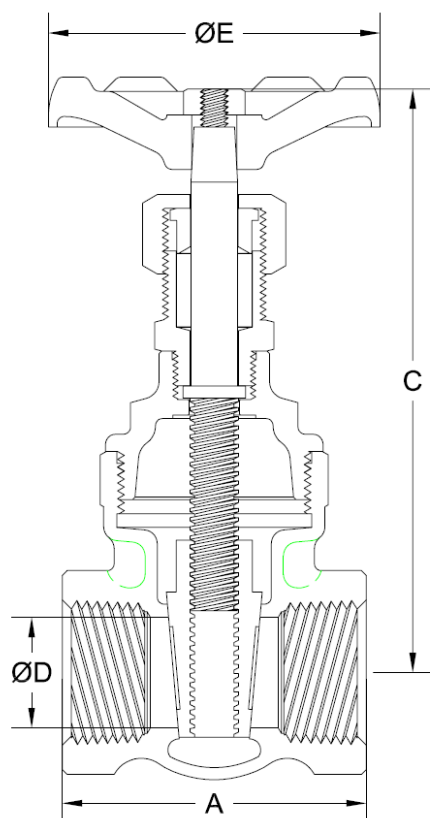
Item	Applicable Specification
Pressure - temperature ratings	MSS SP-80
General valve design	MSS SP-80
Thread design	ASME B1.20.1
Materials	ASTM

DESIGN FEATURES:

- Renewable solid wedges.
- Integral seats.
- High-Tensile bronze alloy stems.
- Each valve is shell and seat pressure tested per industry standard MSS SP-80.
- Stems are rotating, non-rising design.

GATE VALVE DIMENSIONS (CLASSES 125 & 150)

SIZE	FIG 507, 512, & 2712					
in	A	C	D	E	WT	lb
mm						kg
¼	1.75	3.5	0.25	2.1	0.7	3.2
6	44	89	6	54	0.3	
3/8	2.00	3.5	0.38	2.1	0.9	7.1
10	51	89	10	54	0.4	
½	2.38	3.9	0.50	2.5	1.0	12.6
13	60	99	13	64	0.5	
¾	2.44	4.6	0.75	2.8	1.7	30
20	62	117	19	70	0.8	
1	2.75	5.4	1.00	3.0	2.8	55
25	70	137	25	76	1.3	
1¼	3.00	6.2	1.25	3.3	4.0	87
32	76	157	32	83	1.8	
1½	3.38	6.8	1.50	3.6	5.0	129
40	86	173	38	92	2.3	
2	3.50	7.8	2.00	4.1	7.2	240
50	89	198	51	103	3.3	



C = Center to top open

WT = Weight

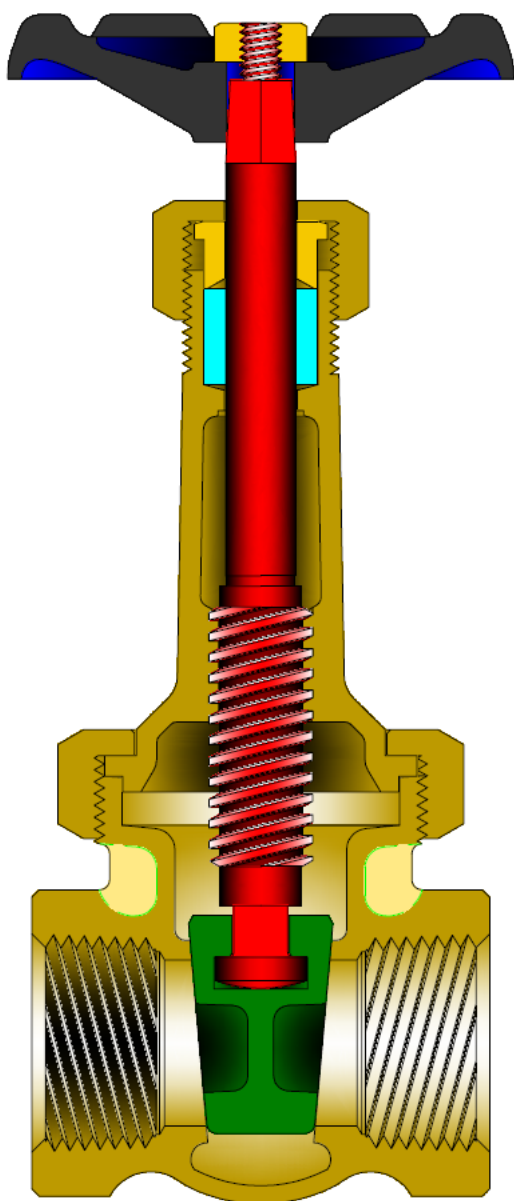
C_v = Flow coefficient

MSS SP-80 GATE VALVE

UNION BONNET, THREADED ENDS

1/4 - 3" (6 - 75 mm) CLASSES 125 & 150

BRONZE RISING STEM



Class	Fig. No.
125	2700
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	Graphite
Hand Wheel	A47 Gr. 32510
Hand Wheel Nut	Brass
Wheel Plate	Aluminum

Design Specifications

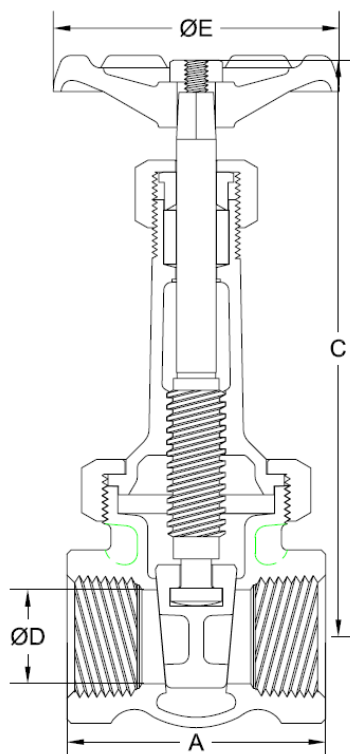
Item	Applicable Specification
Pressure - temperature ratings	MSS SP-80
General valve design	MSS SP-80
Thread design	ASME B1.20.1
Materials	ASTM

DESIGN FEATURES:

- Renewable 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.

GATE VALVE DIMENSIONS (CLASSES 125 & 150)

SIZE	FIG 2700 & 2714					
in	A	C	D	E	WT	lb
mm						kg
¼	1.75	4.3	0.38	2.1	0.8	3.2
6	44	108	10	54	0.4	
3/8	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

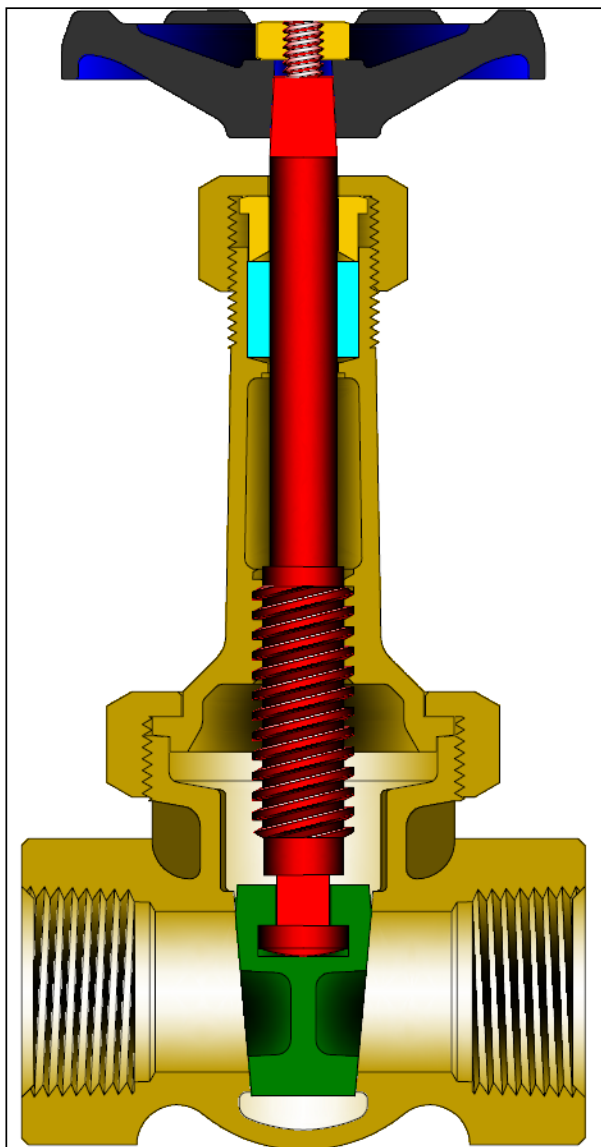
C_v = Flow coefficient

MSS SP-80 GATE VALVES

UNION BONNET, THREADED ENDS

1/4" - 3" (6 - 70mm) CLASSES 200 & 300

BRONZE RISING STEM



Class	Fig. No.
200	375
300	377

STANDARD MATERIALS

PART	MATERIALS
Body	B61
Bonnet	B61
Bonnet Ring	B61
Wedge	B61
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

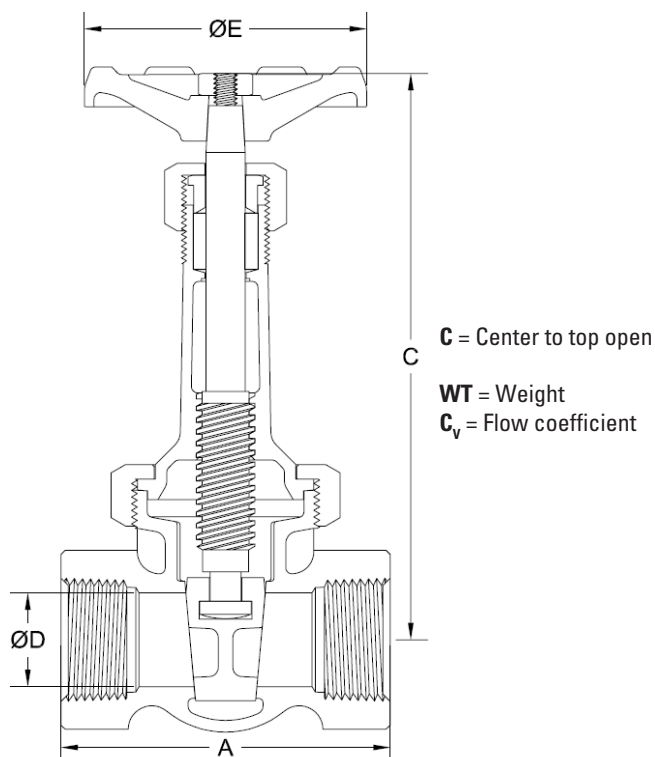
Item	Applicable Specification
Pressure - temperature ratings	MSS SP-80
General valve design	MSS SP-80
Thread design	ASME B1.20.1
Materials	ASTM

DESIGN FEATURES:

- Renewable 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.

GATE VALVE DIMENSIONS (CLASSES 200 & 300)

SIZE	FIG 375							FIG 377						
in	A	C	D	E	WT	lb	CV	A	C	D	E	WT	lb	CV
mm						kg							kg	
¼	1.81	4.3	0.25	2.1	0.8	3.2		1.94	4.9	0.25	3.0	1.3	3.2	
6	46	108	6	54	0.4			49	124	6	76	0.6		
3/8	2.06	4.3	0.38	2.1	0.9	7.1		2.13	4.9	0.38	3.0	1.3		7.1
10	52	108	10	54	0.4			54	124	10	76	0.6		
½	2.44	4.9	0.50	2.5	1.2	12.6		2.44	5.9	0.50	3.3	1.8		12.6
13	62	124	13	64	0.7			62	149	13	83	0.8		
¾	2.56	6.1	0.75	2.8	2.0	30		2.69	7.2	0.75	3.6	3.0		30
20	65	156	19	70	0.9			68	183	19	92	1.3		
1	2.94	7.4	1.00	3.0	2.7	55		3.00	8.3	1.00	4.1	4.9		55
25	75	187	25	76	1.2			76	210	25	105	2.2		
1¼	3.13	8.6	1.25	3.3	4.7	90		3.38	9.5	1.25	4.6	6.9		90
32	79	219	32	83	2.1			86	241	32	117	3.1		
1½	3.50	9.6	1.50	3.6	5.5	130		3.75	10.8	1.50	5.1	8.9		130
40	89	244	38	92	2.5			95	273	38	130	4.0		
2	4.00	11.7	2.00	4.1	9.1	240		4.38	13.1	2.00	5.7	17		240
50	102	297	51	103	4.1			111	333	51	144	7.7		

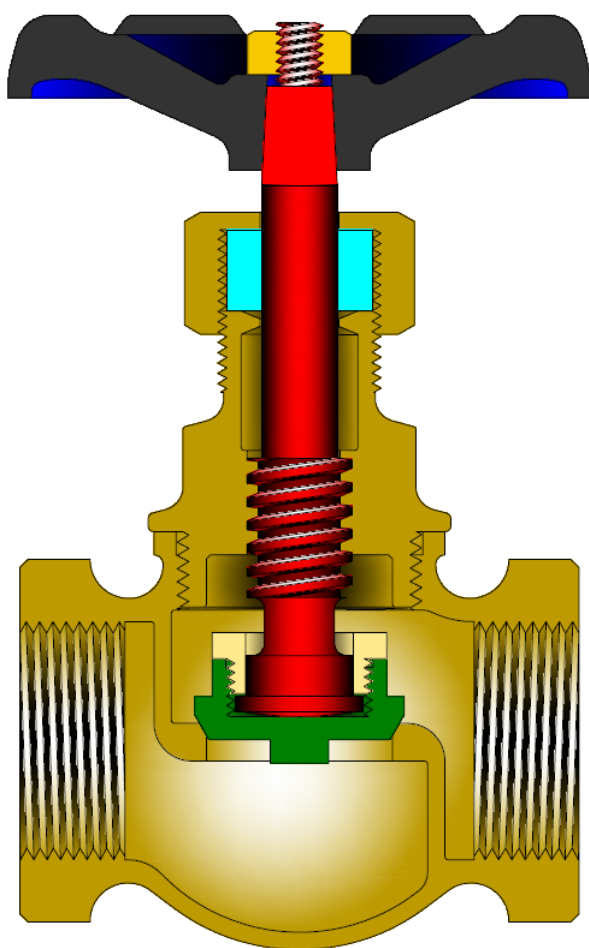


MSS SP-80 GLOBE VALVE

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

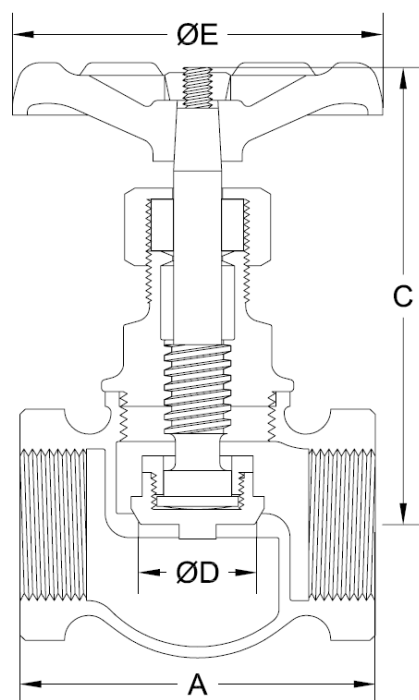
Item	Applicable Specification
Pressure - temperature ratings	MSS SP-80
General valve design	MSS SP-80
Thread design	ASME B1.20.1
Materials	ASTM

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					
in	A	C	D	E	WT	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

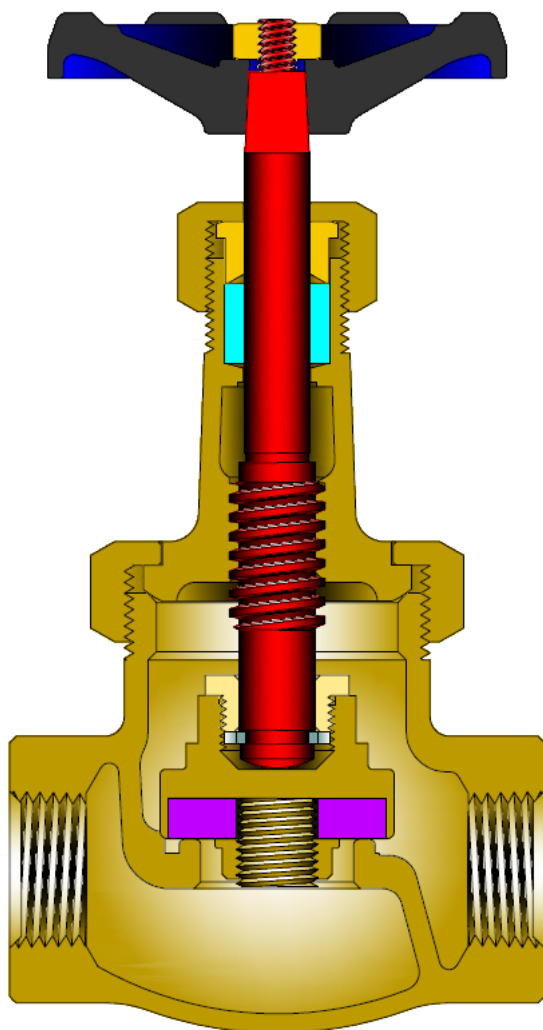
C_v = Flow coefficient

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

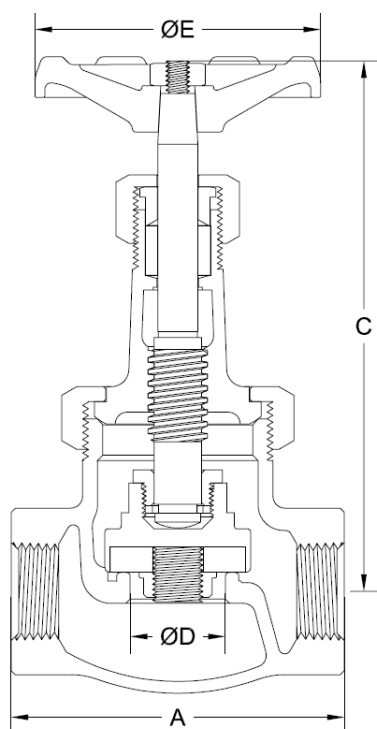
Item	Applicable Specification
Pressure - temperature ratings	MSS SP-80
General valve design	MSS SP-80
Thread design	ASME B1.20.1
Materials	ASTM

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					
in	A	C	D	E	WT	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

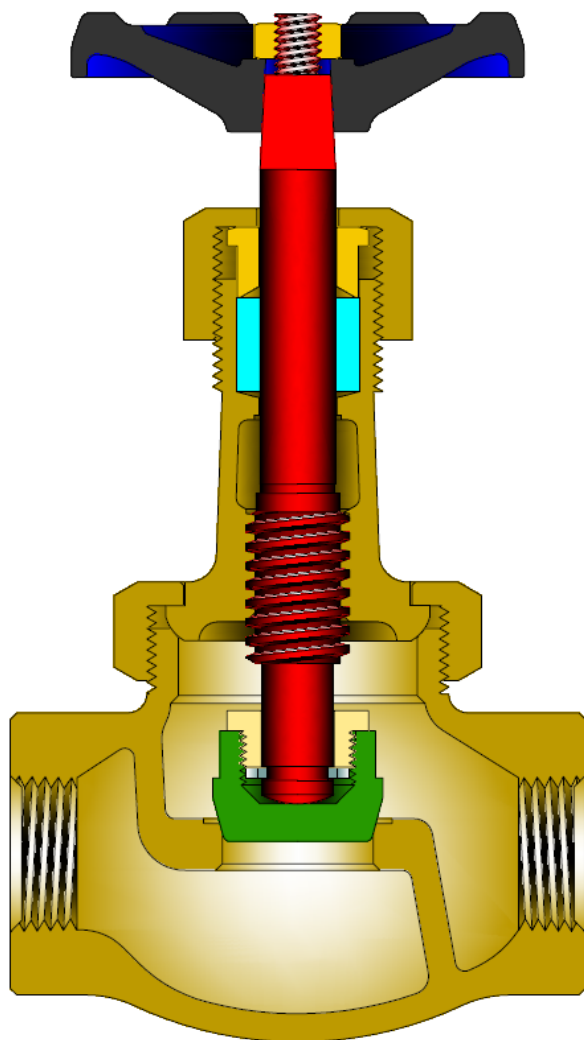
C_v = Flow coefficient

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

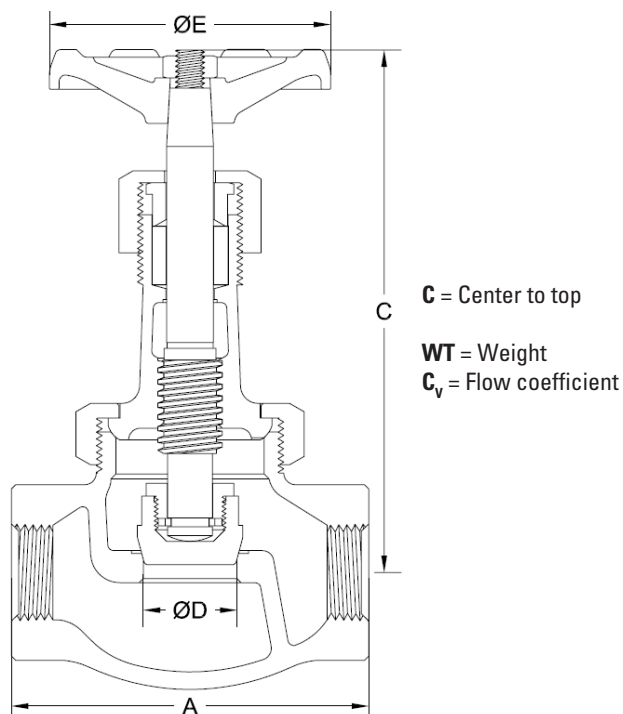
Item	Applicable Specification
Pressure - temperature ratings	MSS SP-80
General valve design	MSS SP-80
Thread design	ASME B1.20.1
Materials	ASTM

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					
in	A	C	D	E	WT	lb
mm						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	

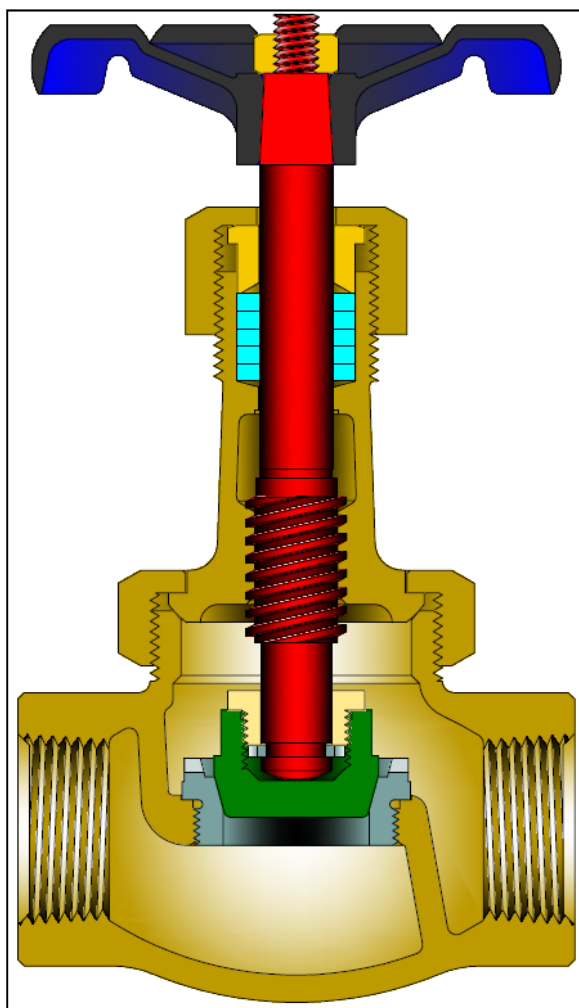


MSS SP-80 GLOBE VALVES

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

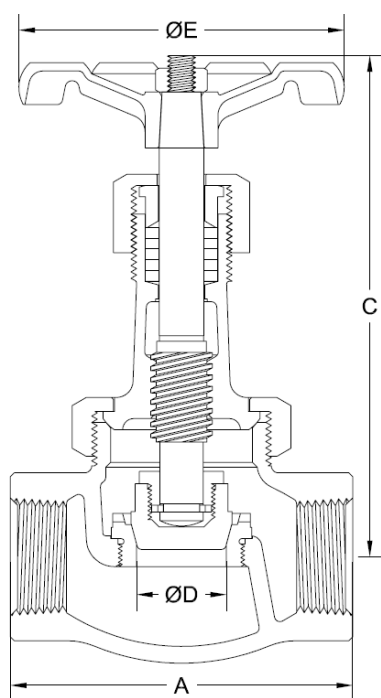
Item	Applicable Specification
Pressure - temperature ratings	MSS SP-80
General valve design	MSS SP-80
Thread design	ASME B1.20.1
Materials	ASTM

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	FIG 2600, 2608, & 2612					
in	A	C	D	E	WT	lb
mm						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	1.4	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

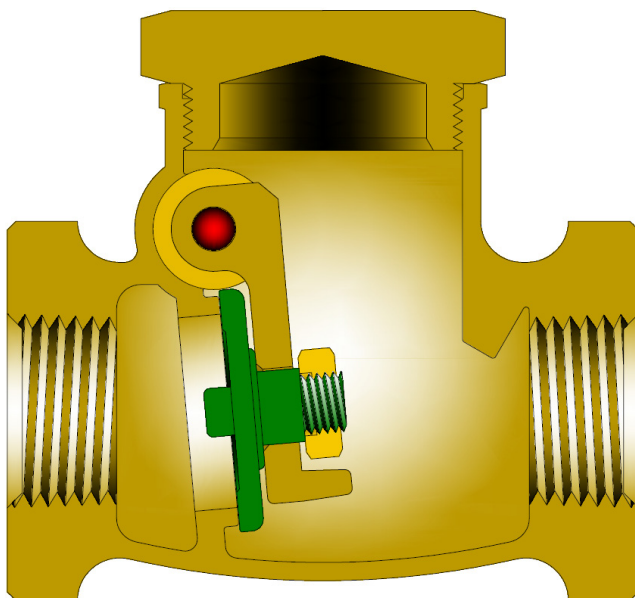
C_v = Flow coefficient

MSS SP-80 SWING CHECK VALVE

THREADED CAP, THREADED ENDS

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

BRONZE



Class	Fig. No.
125	578

STANDARD MATERIALS

PART	MATERIALS
Body	B62
Cap	B62
Disc	B62
Disc Nut	Brass
Carrier	B124 C37700
Carrier Pin	SST 304

Design Specifications

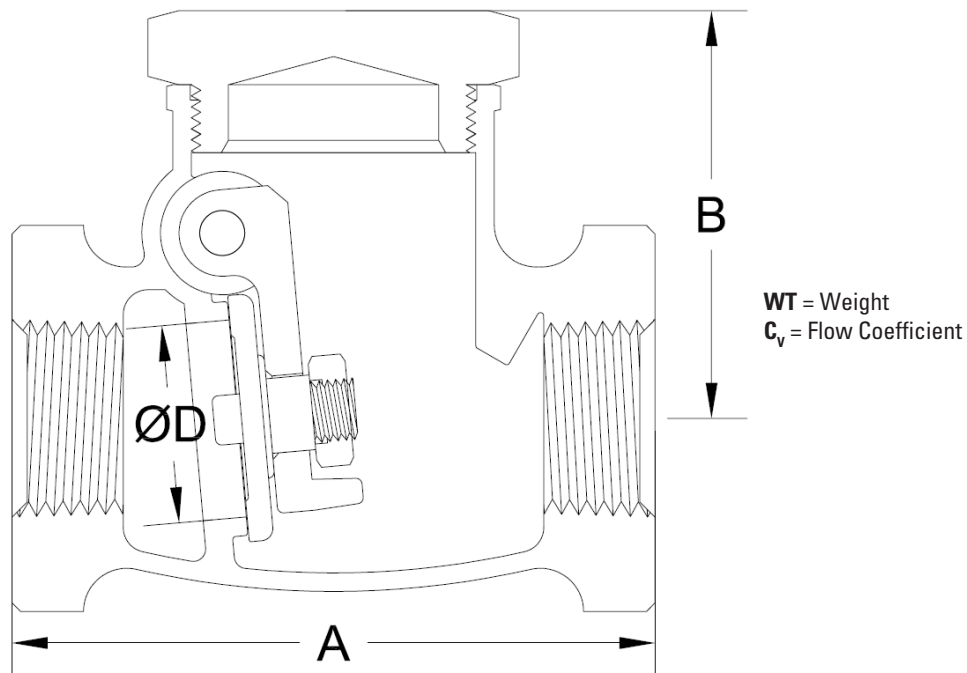
Item	Applicable Specification
Pressure - temperature ratings	MSS SP-80
General valve design	MSS SP-80
Thread design	ASME B1.20.1
Materials	ASTM

DESIGN FEATURES:

- Renewable discs.
- Integral seats.
- Valves can be used in a horizontal or vertical position; however, when installed in a vertical line, flow must be upward with pressure under the disc.
- Each valve is shell and seat pressure tested per industry standard MSS SP-80.

SWING CHECK VALVE DIMENSIONS (CLASS 125)

SIZE	FIG 578				
in	A	B	D	WT	CV
mm					
¼	1.88	1.3	0.25	0.4	2.4
6	48	33	10	0.2	
3/8	1.88	1.3	0.38	0.5	2.4
10	48	33	10	0.2	
½	2.25	1.5	0.50	0.7	4.1
13	58	37	13	0.3	
¾	2.63	1.7	0.75	1.0	9.1
20	66	43	19	0.5	
1	3.00	1.9	1.00	1.6	16.4
25	76	49	25	0.7	
1¼	3.44	2.3	1.25	2.3	30
32	88	58	32	1.0	
1½	4.25	2.5	1.50	3.0	40
40	108	63	39	1.4	
2	5.25	2.8	2.00	6.0	75
50	134	72	50	2.7	

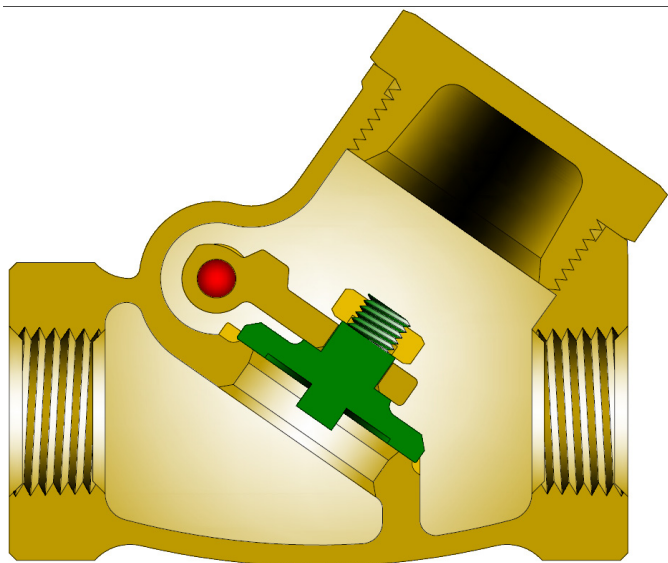


MSS SP-80 SWING CHECK VALVES

THREADED BONNET, THREADED ENDS

1/4 - 3" (6 - 75 mm) CLASS 200 & 300

BRONZE PATTERN



Class	Fig. No.
200	560
300	563

STANDARD MATERIALS

PART	MATERIALS
Body	B61
Cap	B61*
Disc	B61 or B371 C69400
Disc Nut	B16
Carrier	B62 or B124 C37700
Carrier Pin	B16
Side Plug	B16

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:

- By unscrewing the side plug and removing the cap and carrier pin, the carrier and disc assembly can be easily removed.
- Renewable disc is held by a locknut.
- Integral seats.
- Valves can be used in a horizontal or vertical position; however, when installed in vertical line, flow must be upward with pressure under the disc.
- Each valve is shell and seat pressure tested per industry standard MSS SP-80.

SWING CHECK VALVE DIMENSIONS (CLASS 200 & 300)

SIZE	FIG 560						FIG 563					
	A	B	D	WT	lb kg	CV	A	B	D	WT	lb kg	CV
¼	2.25	1.4	0.25	0.6		1	2.38	1.5	0.25	0.7		0.9
6	57	35	6	0.3			60	38	6	0.3		
3/8	2.38	1.4	0.38	0.6		2	2.50	1.5	0.38	0.7		2.4
10	60	35	10	0.3			64	38	10	0.3		
½	2.75	1.7	0.50	0.8		4	2.88	1.8	0.50	1.0		4.1
13	70	43	13	0.4			73	46	13	0.5		
¾	3.13	2.0	0.75	1.3		9	3.25	2.1	0.75	1.6		9.1
20	79	51	19	0.6			83	54	19	0.7		
1	3.63	2.4	1.0	2.0		20	3.75	2.5	1.00	2.3		16.4
25	92	60	25	0.9			95	64	25	1.0		
1¼	4.38	3.0	1.25	3.4		30	4.50	3.1	1.25	4.1		30
32	111	76	32	1.5			114	79	32	1.9		
1½	5.00	3.5	1.50	4.8		40	5.13	3.6	1.50	5.9		40
40	127	89	38	2.2			130	90	38	2.7		
2	6.13	4.3	2.00	8.0		75	6.38	4.4	2.00	10.3		75
50	156	108	51	3.6			162	111	51	4.7		
2½	7.25	5.1	2.50	13.7		120	7.50	5.2	2.50	17.0		120
65	184	129	64	6.2			191	132	64	7.7		
3	8.50	5.9	3.00	20.3		175	8.75	6.0	3.00	25.3		175
75	216	149	76	9.2			222	152	76	11.5		

