

**Class 125 • Bolted Bonnet • Non-Rising Stem • Bronze Trim • Threaded Ends**

**Figure 460**

Threaded with Bronze Trim

**Size Range:**

2 through 4 inches

**Working Pressures Non-Shock**

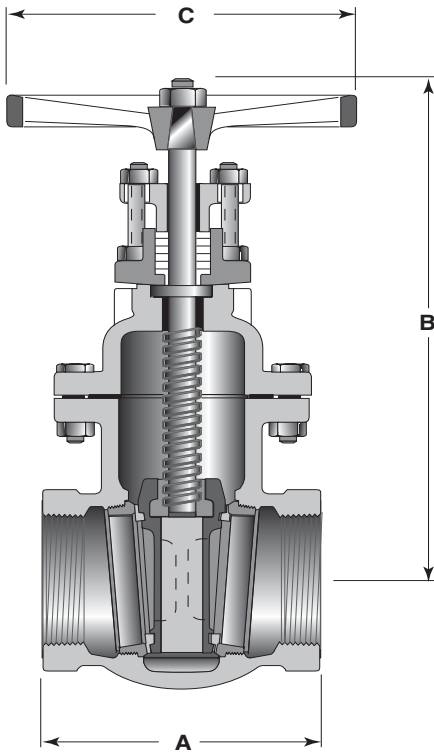
125 psi Steam, Basic Rating

200 psi Cold Working Pressure

**Features**

- Tapered Solid Wedge Disc
- Body Guide Ribs
- Renewable Bronze Seat Rings
- Stem with ACME Double Threads
- Non-Asbestos Packing and Gaskets
- MSS SP-70 Type 1 and MSS SP-25
- ASME B1.20.1

For more detailed features, refer to Page 9.



**Principal Parts & Materials**

Fig. No.	Size	Stem	Seating	End Conn.
460	2" - 4"	Bronze	Bronze	Threaded

**Dimensions and Weights**

Inches (millimeters) - pounds (kilograms)

Valves	2 (50)	2 ½ (65)	3 (80)	4 (100)
A	5.38 (137)	6.62 (168)	7.00 (178)	8.00 (203)
B	11.31 (287)	12.40 (315)	13.25 (337)	16.31 (414)
C	8.00 (203)	8.00 (203)	8.00 (203)	10.00 (254)
Wt.	25 (11)	31 (14)	44 (20)	71 (32)

## Class 125 • Bolted Bonnet • Non-Rising Stem • Bronze Trim • Flanged Ends

### Features

- Tapered Solid Wedge Disc
- Body Guide Ribs
- Renewable Bronze Seat Rings
- Stem provided with ACME Double Threads for valves 24" and smaller.
- Non-Asbestos Packing and Gaskets
- MSS SP-70 Type 1 and MSS SP-25
- ASME B16.10, ASME B16.1
- Valves can be equipped with by-passes when specified.

For more detailed features, refer to Page 9.

### Figure 461

Flanged with Bronze Trim

#### Size Range:

2 through 30 inches

#### Working Pressures Non-Shock

2" – 12"

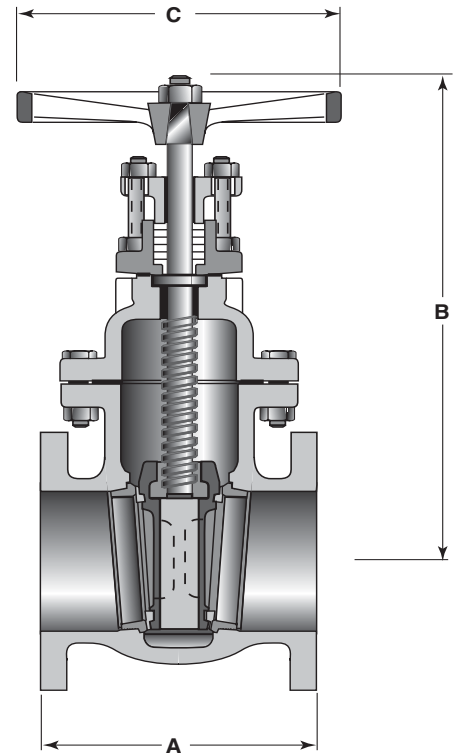
125 psi Steam, Basic Rating

200 psi Cold Working Pressure

14" – 30"

100 psi Steam, Basic Rating

150 psi Cold Working Pressure



### Principal Parts & Materials

Fig. No.	Size	Stem	Seating	End Conn.
461	2" - 30"	Bronze	Bronze	Flanged

### Dimensions and Weights

Inches (millimeters) - pounds (kilograms)

Valves	2 (50)	2 ½ (65)	3 (80)	4 (100)	5 (125)	6 (150)	8 (200)	10 (250)	12 (300)	14 (350)	16 (400)	18 (450)	20 (500)	24 (600)	30 (750)
A	7.00 (178)	7.50 (191)	8.00 (203)	9.00 (229)	10.00 (254)	10.50 (267)	11.50 (292)	13.00 (330)	14.00 (356)	15.00 (381)	16.00 (406)	17.00 (432)	18.00 (457)	20.00 (508)	24.00 (610)
B	11.31 (287)	12.40 (315)	13.25 (337)	16.31 (414)	18.00 (457)	20.69 (526)	24.12 (613)	33.00 (838)	36.50 (927)	40.50 (1029)	48.00 (1219)	50.75 (1289)	56.12 (1425)	64.00 (1625)	86.63 (2200)
C	8.00 (203)	8.00 (203)	8.00 (203)	10.00 (254)	10.00 (254)	12.00 (305)	14.00 (356)	20.00 (508)	20.00 (508)	20.00 (508)	22.00 (559)	22.00 (559)	24.00 (610)	30.00 (762)	30.00 (762)
Wt.	30 (14)	40 (18)	56 (25)	90 (41)	126 (57)	152 (68)	260 (117)	490 (222)	672 (304)	968 (440)	1180 (535)	1701 (772)	2188 (993)	3150 (1432)	6009 (2728)

**Class 125 • Bolted Bonnet • Non-Rising Stem • All Iron • Flanged Ends**

**Figure 473**

Flanged – All Iron

**Size Range:**

2 through 8 inches

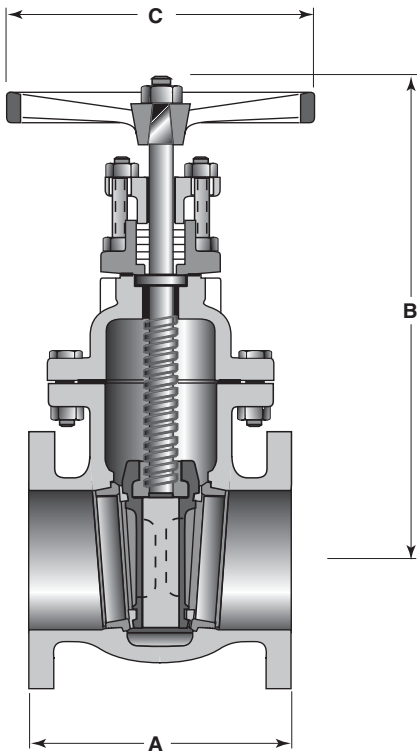
**Working Pressures Non-Shock**

200 psi Cold Working Pressure

**Features**

- Tapered Solid Wedge Disc
- Body Guide Ribs
- Integral Seats
- Stem with ACME Double Threads
- Non-Asbestos Packing and Gaskets
- MSS SP-70 Type 1 and MSS SP-25
- ASME B16.10, ASME B16.1
- Valves can be equipped with by-passes when specified.

For more detailed features, refer to Page 9.



**Principal Parts & Materials**

Fig. No.	Size	Stem	Seating	End Conn.
473	2" - 8"	Steel Nickel plated	Iron	Flanged

**Dimensions and Weights**

Inches (millimeters) - pounds (kilograms)

Valves	2	2 ½	3	4	5	6	8
	(50)	(65)	(80)	(100)	(125)	(150)	(200)
A	7.00 (178)	7.50 (191)	8.00 (203)	9.00 (229)	10.00 (254)	10.50 (267)	11.50 (292)
B	11.31 (287)	12.40 (315)	13.25 (337)	16.31 (414)	18.00 (457)	20.69 (526)	24.12 (613)
C	8.00 (203)	8.00 (203)	8.00 (203)	10.00 (254)	10.00 (254)	12.00 (305)	14.00 (356)
Wt.	30 (14)	44 (20)	56 (25)	91 (41)	126 (57)	152 (69)	260 (118)

**Class 125 • Bolted Bonnet • OS&Y • Bronze Trim • Threaded Ends**

### Features

- Tapered Solid Wedge Disc
- Body Guide Ribs
- Renewable Bronze Seat Rings
- Stem with ACME Double Threads
- Non-Asbestos Packing and Gaskets
- MSS SP-70 Type 1 and MSS SP-25
- ASME B1.20.1

For more detailed features, refer to Page 9.

### Figure 464 1/2

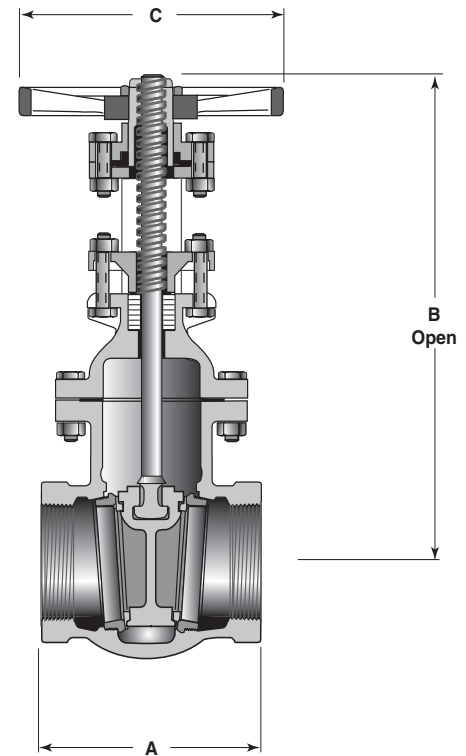
Threaded with Bronze Trim

#### Size Range:

2 through 4 inches

#### Working Pressures Non-Shock

125 psi Steam, Basic Rating  
200 psi Cold Working Pressure



### Principal Parts & Materials

Fig. No.	Size	Stem	Seating	End Conn.
464 1/2	2" - 4"	Bronze	Bronze	Threaded

### Dimensions and Weights

Inches (millimeters) - pounds (kilograms)

Valves	2 (50)	2 1/2 (65)	3 (80)	4 (100)
A	5.38 (137)	6.62 (168)	7.00 (178)	8.00 (203)
B	14.75 (375)	16.06 (408)	17.38 (441)	21.44 (545)
C	8.00 (203)	8.00 (203)	8.00 (203)	10.00 (254)
Wt.	25 (11)	38 (17)	46 (21)	77 (35)

**Class 125 • Bolted Bonnet • OS&Y • Bronze Trim • Flanged Ends**

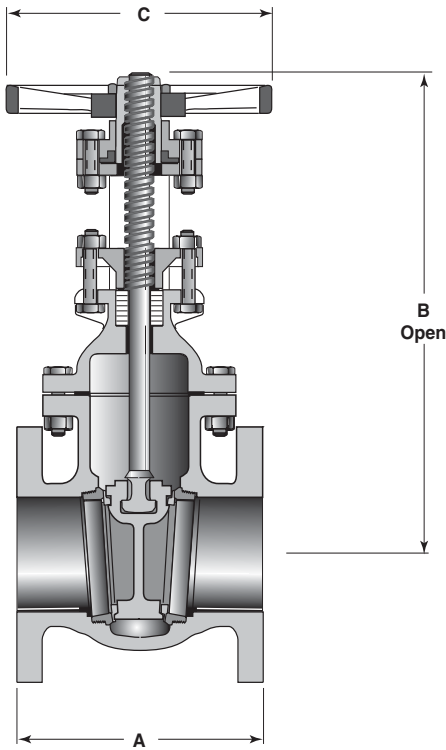
**Figure 465 1/2**  
 Flanged with Bronze Trim  
**Size Range:**  
 2 through 36 inches

**Working Pressures Non-Shock**  
 2" – 12"  
 125 psi Steam, Basic Rating  
 200 psi Cold Working Pressure  
 14" – 36"  
 100 psi Steam, Basic Rating  
 150 psi Cold Working Pressure

**Features**

- Tapered Solid Wedge Disc
- Body Guide Ribs
- Renewable Bronze Seat Rings
- Stem provided with ACME Double Threads for 24" and smaller valves.
- Non-Asbestos Packing and Gaskets
- MSS SP-70 Type 1 and MSS SP-25
- ASME B16.10, ASME B16.1
- Valves can be equipped with by-passes when specified.

For more detailed features, refer to Page 9.



**Principal Parts & Materials**

Fig. No.	Size	Stem	Seating	End Conn.
465 1/2	2" - 36"	Bronze	Bronze	Flanged

**Dimensions and Weights**

Inches (millimeters) - pounds (kilograms)

Valves	2 (50)	2 1/2 (65)	3 (80)	4 (100)	5 (125)	6 (150)	8 (200)	10 (250)	12 (300)	14 (350)	16 (400)	18 (450)	20 (500)	24 (600)	30 (750)	36 (900)
A	7.00 (178)	7.50 (191)	8.00 (203)	9.00 (229)	10.00 (254)	10.50 (267)	11.50 (292)	13.00 (330)	14.00 (356)	15.00 (381)	16.00 (406)	17.00 (432)	18.00 (457)	20.00 (508)	24.00 (610)	28.00 (711)
B	14.75 (375)	16.06 (408)	17.38 (441)	21.44 (545)	25.81 (656)	30.31 (770)	37.75 (959)	49.41 (1255)	56.81 (1443)	64.88 (1648)	75.25 (1911)	82.00 (2083)	90.62 (2302)	105.38 (2677)	160.25 (4070)	192.69 (4894)
C	8.00 (203)	8.00 (203)	8.00 (203)	10.00 (254)	10.00 (254)	12.00 (305)	14.00 (356)	18.00 (457)	18.00 (457)	20.00 (508)	22.00 (559)	22.00 (559)	24.00 (610)	30.00 (762)	30.00 (762)	30.00 (762)
Wt.	33 (15)	47 (21)	58 (26)	97 (44)	135 (61)	162 (73)	280 (126)	502 (228)	670 (304)	1093 (497)	1425 (646)	1738 (789)	2085 (946)	3183 (1445)	5795 (2629)	7622 (3457)

## Class 125 • Bolted Bonnet • OS&Y • All Iron • Flanged Ends

### Features

- Tapered Solid Wedge Disc
- Body Guide Ribs
- 2"-8" Integral Seats, 10" and larger Renewable Cast Iron Seat Rings
- Stem provided with ACME Double Threads for 12" and smaller valves;
- Non-Asbestos Packing and Gaskets
- MSS SP-70 Type 1 and MSS SP-25
- ASME B16.10, ASME B16.1
- Valves can be equipped with by-passes when specified.

For more detailed features, refer to Page 9.

### Figure 475 1/2

Flanged – All Iron

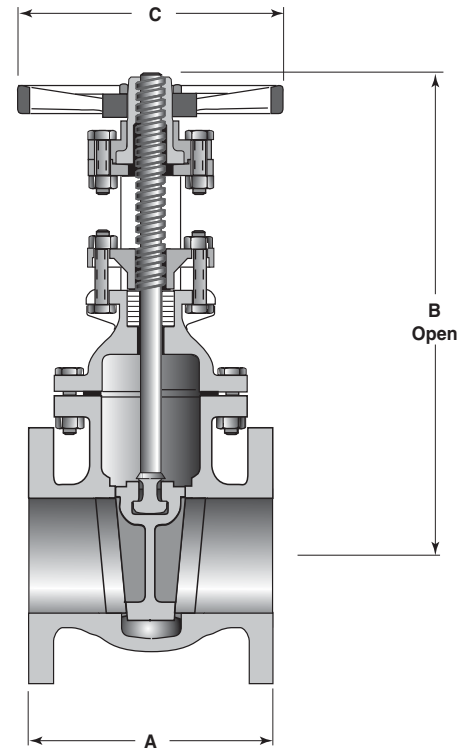
#### Size Range:

2 through 36 inches

#### Working Pressures Non-Shock

2" – 36"

200 psi Cold Working Pressure



### Principal Parts & Materials

Fig. No.	Size	Stem	Seating	End Conn.
475 1/2	2" - 36"	Steel Nickel Plated	Iron	Flanged

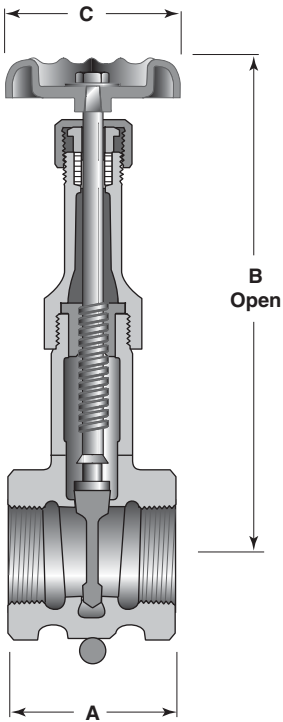
### Dimensions and Weights

Inches (millimeters) - pounds (kilograms)

Valves	2 (50)	2 1/2 (65)	3 (80)	4 (100)	5 (125)	6 (150)	8 (200)	10 (250)	12 (300)	14 (350)	16 (400)	18 (450)	20 (500)	24 (600)	30 (750)	36 (900)
A	7.00 (178)	7.50 (191)	8.00 (203)	9.00 (229)	10.00 (254)	10.50 (267)	11.50 (292)	13.00 (330)	14.00 (356)	15.00 (381)	16.00 (406)	17.00 (432)	18.00 (457)	20.00 (508)	24.00 (610)	28.00 (711)
B	14.75 (375)	16.06 (408)	17.38 (441)	21.44 (545)	25.81 (656)	30.31 (770)	37.75 (959)	49.41 (1255)	56.81 (1443)	64.38 (1635)	75.25 (1911)	82.00 (2083)	90.62 (2302)	105.28 (2674)	129.62 (3292)	155.62 (3953)
C	8.00 (203)	8.00 (203)	8.00 (203)	10.00 (254)	10.00 (254)	12.00 (305)	14.00 (356)	18.00 (457)	18.00 (457)	20.00 (508)	22.00 (559)	22.00 (559)	24.00 (610)	30.00 (762)	36.00 (914)	42.00 (1067)
Wt.	33 (15)	47 (21)	58 (26)	97 (44)	135 (61)	162 (73)	280 (126)	502 (228)	670 (304)	1093 (497)	1738 (790)	1738 (790)	2085 (911)	3183 (1446)	5795 (2360)	7522 (3417)

**Class 150 • U-Bolt Bonnet • Rising Stem • All Iron • Threaded Ends**

**Figure 488**  
Threaded - All Iron  
**Size Range:**  
¼ through 4 inches



**Features**

- Compact Design
- Easy Maintenance
- Steel U-Bolt Clamp
- Anti-Clogging Bonnet
- Integral Seats
- Malleable Iron Disc
- Nickel Plated Steel Stem
- Non-Asbestos Packing & Gaskets
- Body and Bonnet Malleable Iron
- ASME B1.20.1
- Every valve is individually tested

For more detailed features, refer to Page 9.

TEMPERATURE		WORKING PRESSURES, NON-SHOCK			
Valve Ratings		¼" - 2" (6mm to 50mm)		2 ½" to 4" (65mm to 100mm)	
		225 psi, CWP		175 psi, CWP	
°F	°C	PSI	kPa	PSI	kPa
-20 to 150	-30 to 65	225	1550	175	1210
200	93	210	1450	165	1140
225	107	200	1380	160	1100
250	121	190	1310	150	1030
275	135	185	1280	145	1000
300	149	175	1210	140	970
325	163	165	1140	135	930
350	177	160	1100	125	860
375	191	150	1030	120	830

**Principal Parts & Materials**

Fig. No.	Size	Stem	Seating	End Conn.
488	¼" - 4"	Steel Nickel Plated	Iron	Threaded

**Dimensions and Weights**

Inches (millimeters) - pounds (kilograms)

Valves	¼ (6)	⅜ (10)	½ (15)	¾ (20)	1 (25)	1 ¼ (32)	1 ½ (40)	2 (50)	2 ½ (65)	3 (80)	4 (100)
A	3.00* (76)	3.00* (76)	2.06 (52)	2.32 (59)	2.56 (65)	2.87 (73)	3.15 (80)	3.62 (92)	4.13 (105)	4.57 (116)	5.55 (141)
B	5.08 (129)	5.08 (129)	5.08 (129)	6.18 (157)	7.40 (188)	8.90 (226)	9.96 (253)	11.61 (295)	12.91 (328)	15.35 (390)	19.76 (502)
C	2.06 (52)	2.06 (52)	2.06 (52)	2.56 (65)	2.75 (70)	3.06 (78)	3.62 (92)	4.06 (103)	4.76 (121)	5.98 (152)	9.00 (229)
Wt.	1.40 (0.64)	1.40 (0.64)	1.86 (0.84)	2.40 (1.09)	3.50 (1.59)	5.80 (2.63)	7.00 (3.17)	11.20 (5.08)	19.20 (8.71)	23.10 (10.47)	52.10 (23.61)

\*Includes Hexagon Bushings in each end.

## Class 125 • U-Bolt Bonnet • Rising Stem • All Iron • Flanged Ends

### Features

- Compact Design
- Easy Maintenance
- Steel U-Bolt Clamp
- Anti-Clogging Bonnet
- Integral Seats
- Malleable Iron Disc
- Nickel Plated Steel Stem
- Non-Asbestos Packing & Gaskets
- Body and Bonnet Malleable Iron
- ASME B16.1
- Every valve is individually tested

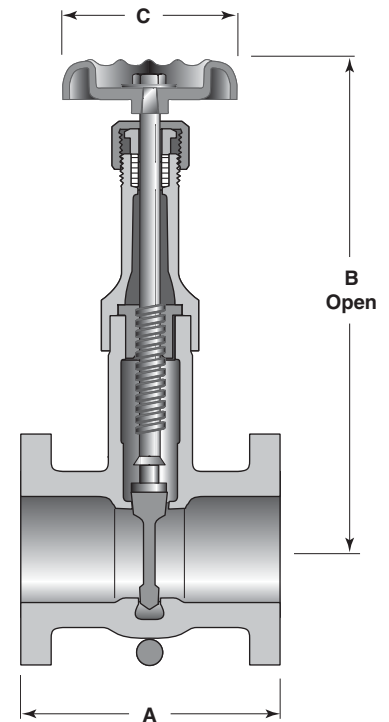
For more detailed features, refer to Page 9.

### Figure 488 1/2

Flanged - All Iron

#### Size Range:

1 through 4 inches



TEMPERATURE		WORKING PRESSURES, NON-SHOCK			
Valve Ratings		1" to 2" (25mm to 50mm)		2 1/2" to 4" (65mm to 100mm)	
		200 psi, CWP		175 psi, CWP	
°F	°C	PSI	kPa	PSI	kPa
-20 to 150	-30 to 65	200	1380	175	1210
200	93	185	1280	165	1140
225	107	175	1210	160	1100
250	121	165	1140	150	1030
275	135	155	1070	145	1000
300	149	145	1000	140	970
325	163	135	930	135	930
350	177	130	900	125	860
375	191	120	830	120	830

### Principal Parts & Materials

Fig. No.	Size	Stem	Seating	End Conn.
488 1/2	1" - 4"	Steel Nickel Plated	Iron	Flanged

### Dimensions and Weights

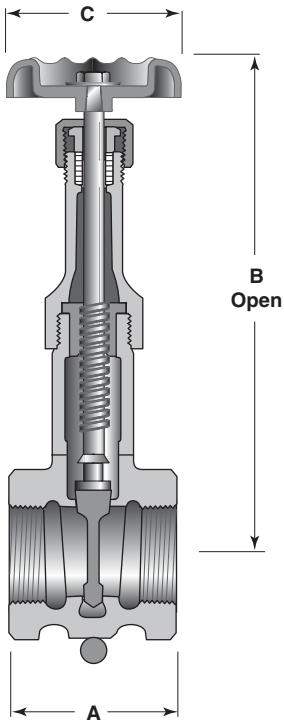
Inches (millimeters) - pounds (kilograms)

Valves	1 (25)	1 1/2 (40)	2 (50)	2 1/2 (65)	3 (80)	4 (100)
A	3.19 (81)	3.74 (95)	4.25 (108)	4.92 (125)	5.08 (129)	6.77 (172)
B	7.40 (188)	9.96 (253)	11.61 (295)	12.91 (328)	15.35 (390)	19.76 (502)
C	2.76 (70)	3.62 (92)	4.06 (103)	4.76 (121)	5.98 (152)	9.02 (229)
Wt.	5.50 (2.49)	10.40 (4.71)	14.30 (6.48)	22.00 (9.97)	32.0 (14.50)	60.0 (27.19)



**Class 150 • U-Bolt Bonnet • Rising Stem • Bronze Trim • Threaded Ends**

**Figure 490**  
Threaded - Bronze Trim  
**Size Range:**  
¼ through 4 inches



**Features**

- Compact Design
- Easy Maintenance
- Steel U-Bolt Clamp
- Anti-Clogging Bonnet
- Bronze Seat Rings
- Non-Asbestos Packing & Gaskets
- Body and Bonnet Malleable Iron
- ASME B1.20.1
- Bronze Disc
- Every valve is individually tested

For more detailed features, refer to Page 9.

TEMPERATURE		WORKING PRESSURES, NON-SHOCK			
Valve Ratings		¼" to 2" (6mm to 50mm)		2 ½" to 4" (65mm to 100mm)	
		150 psi, Sat. Steam 225 psi, CWP		125 psi, Sat. Steam 175 psi, CWP	
°F	°C	PSI	kPa	PSI	kPa
-20 to 150	-30 to 65	225	1550	175	1210
200	93	210	1450	165	1140
225	107	200	1380	160	1100
250	121	190	1310	150	1030
275	135	185	1280	145	1000
300	149	175	1210	140	970
325	163	165	1140	135	930
350	177	160	1100	125	860
375	191	150	1030	120	830

**Principal Parts & Materials**

Fig. No.	Size	Stem	Seating	End Conn.
490	¼" - 4"	Bronze	Bronze	Threaded

**Dimensions and Weights**

Inches (millimeters) - pounds (kilograms)

Valves	¼ (6)	⅜ (10)	½ (15)	¾ (20)	1 (25)	1 ¼ (32)	1 ½ (40)	2 (50)	2 ½ (65)	3 (80)	4 (100)
A	3.00* (76)	3.00* (76)	2.06 (52)	2.32 (59)	2.56 (65)	2.87 (73)	3.15 (80)	3.62 (92)	4.13 (105)	4.57 (116)	5.55 (141)
B	5.08 (129)	5.08 (129)	5.08 (129)	6.18 (157)	7.40 (188)	8.90 (226)	9.96 (253)	11.61 (295)	12.91 (328)	15.35 (390)	19.76 (502)
C	2.06 (52)	2.06 (52)	2.06 (52)	2.56 (65)	2.76 (70)	3.07 (78)	3.62 (92)	4.06 (103)	4.76 (121)	5.98 (152)	9.02 (229)
Wt.	1.40 (0.64)	1.40 (0.64)	1.86 (0.84)	2.40 (1.08)	3.50 (1.59)	5.80 (2.63)	7.00 (3.17)	11.20 (5.08)	19.20 (8.71)	23.10 (10.47)	52.10 (23.61)

\*Includes Hexagon Bushings in each end.