

# Elite Valve

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Customized  
valve solutions  
for the toughest  
applications



## Commercial Valves Catalogue

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Commercial Construction | Fire Protection | Hvac | Irrigation  
Mining | Water & Wastewater | Oil & Gas | Power Generation

Offering both standard and custom-engineered solutions, Elite Valve can meet all your process requirements.





# Contents

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## Ball Valves

- 4 Brass and Bronze Ball Valve Index
- 5-11 Brass Ball Valves
- 12-16 Bronze Ball Valves

## Bronze Valves

- 17 Bronze Gate, Globe and Check Valve Index
- 18-22 Bronze Gate Valves
- 23-26 Bronze Globe Valves
- 27-29 Bronze Swing Check Valves
- 30 Bronze In-Line Lift Check Valves

## Butterfly Valves

- 31 Commercial Butterfly Valve Index
- 32 Lug Style Butterfly Valves
- 33 Wafer Style Butterfly Valves

## Butterfly Valve Engineering Data

## Cast Iron Valves

- 35 Cast Iron Gate, Globe and Check Valve Index
- 36-37 Cast Iron Gate Valves
- 38 Cast Iron Globe Valves
- 39 Cast Iron Swing Check Valves

## Term Glossary

## Pressure and Temperature Rating

## Cross Referencing Chart

# Brass and Bronze Ball Valve Index

## Brass Body



600FP-T/S-LF



600FP-T/S-SS-LF



600FP-T/S



600FP-T-LL



(T/S)FP601



(T/S)FP601-SS



600FP-T/S-SD



(T/S)FP600-SDWH

## Bronze



(T/S)FP620



(T/S)FP620-SS



(T/S)FP620-LF-SS



(T/S)FP630



(T/S)FP600-HC

## Code Index

TFP | 600 | LF | SS | 1"

① | ② | ③ | ④ | ⑤

### ① Port & End Connection Design

**TFP** - Full Port with Threaded Ends  
**SFP** - Full Port with Solder Ends

### ② Body Style

**600** - 2PC Forged Brass body, Reg. Packing Design  
**601** - 2PC Forged Brass body, Double 'O' ring Packing  
**620** - 2PC Bronze body, Reg. Packing Design  
**630** - 3PC Bronze body, Reg. Packing Design

### ③ Lead Free

**LF** - Certified to NSF-61 Annex G NSF / ANSI 372

### ④ Options

**SS** - Stainless Trim; **LL** - Locking Lever; **SD** - Side Drain;  
**WH** - Wing Handle; **HC** - Hose End Cap & Chain;  
**MS** - Memory Stop; **EHK** - Extended Handle Kit

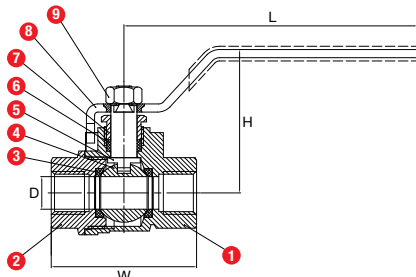
### ⑤ Size

1/4", 3/8", 1/2", 3/4", 1", 1-1/4",  
 1-1/2", 2", 2-1/2", 3", 4"

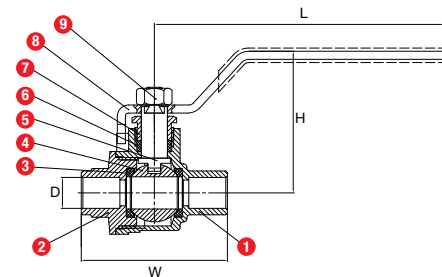
# 600FP-T/S-LF



**Solder (C x C)**



**Threaded (NPT x NPT)**



## Description

Lead-free 2-piece body multi-purpose brass ball valve for use in engineered hot and cold water systems, gas applications, compressed air services, and fire protection.

## Working Pressure

- 600 PSI Non-Shock Cold Working Pressure (CWP)

## End Connection

- Solder
- Threaded (NPT)

## Option

- Extended Handle Kit (for TFP600 legacy model)

## Standards

- **Conforms to:** MSS SP-110.
- **cULus Approval (NPT Only):** (1/4" to 2") VQGU7 Trim and Drain.
- **UL Approval (NPT Only):** (1/4" to 2") UL1477 (YQNZ) Compressed Gas Shut-off Valves, UL842 (YRBX) Flammable Liquid Shut-off Valves, UL842 (YRPV) Gas Shut-off Valves, UL125 (YSDT) LP Gas Shut-off Valves, UL842 (MHKZ) Manual Valves.
- **FM Approval:** (1/4" to 2").
- **NSF/ANSI 61 NSF/ANSI 372 Approval (lead free)**
- **cUPC Approval**
- **CSA Approval (NPT only):** ANSI Z21.15/CGA 9.1, ASME B16.44, CGA CR 91-002, CAN/CGA 3.16, ASME B16.33 and ASME B16.38.

| Dimensions |                  |                |                  |                |                  |                |                  |                |
|------------|------------------|----------------|------------------|----------------|------------------|----------------|------------------|----------------|
| Size<br>DN | L                |                | D                |                | H                |                | W                |                |
|            | Threaded<br>Ends | Solder<br>Ends | Threaded<br>Ends | Solder<br>Ends | Threaded<br>Ends | Solder<br>Ends | Threaded<br>Ends | Solder<br>Ends |
| inch       | inch             | inch           | inch             | inch           | inch             | inch           | inch             | inch           |
| 1/4"       | 3.543            | 3.543          | 0.394            | 0.315          | 1.732            | 1.732          | 1.756            | 1.787          |
| 3/8"       | 3.543            | 3.543          | 0.394            | 0.394          | 1.732            | 1.732          | 1.756            | 1.866          |
| 1/2"       | 3.543            | 3.543          | 0.583            | 0.583          | 1.941            | 1.839          | 2.047            | 2.102          |
| 3/4"       | 3.780            | 3.780          | 0.748            | 0.748          | 2.106            | 1.996          | 2.362            | 2.807          |
| 1"         | 4.528            | 4.528          | 0.945            | 0.945          | 2.579            | 2.449          | 2.756            | 3.307          |
| 1 1/4"     | 4.528            | 4.528          | 1.260            | 1.260          | 2.961            | 2.862          | 3.307            | 3.819          |
| 1 1/2"     | 5.512            | 5.512          | 1.575            | 1.575          | 3.366            | 3.169          | 3.661            | 4.433          |
| 2"         | 5.512            | 5.512          | 1.969            | 1.969          | 3.701            | 3.449          | 4.181            | 5.315          |
| 2 1/2"     | 8.661            | 8.661          | 2.520            | 2.520          | 4.803            | 4.803          | 5.378            | 6.283          |
| 3"         | 8.661            | 8.661          | 2.937            | 2.937          | 5.118            | 5.118          | 6.039            | 7.150          |
| 4"         | 9.606            | 9.606          | 3.937            | 3.937          | 6.055            | 6.055          | 7.386            | 9.276          |

| Material Specification |              |                      |
|------------------------|--------------|----------------------|
| #                      | Part         | Material             |
| 1                      | Body         | Lead-Free Brass      |
| 2                      | End Cap      | Lead-Free Brass      |
| 3                      | Ball Seat    | PTFE                 |
| 4                      | Ball         | Lead-Free Brass      |
| 5                      | Stem         | Brass                |
| 6                      | Stem Packing | PTFE                 |
| 7                      | Packing Nut  | Brass                |
| 8                      | Lever Handle | Chrome Plating Steel |
| 9                      | Stem Nut     | Nickel Plating Steel |



CRN



cULus



NSF

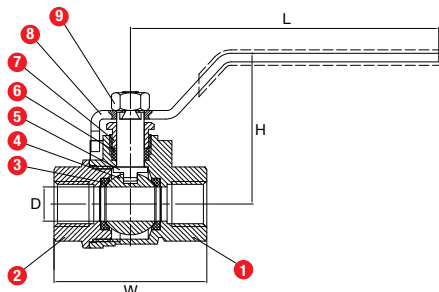


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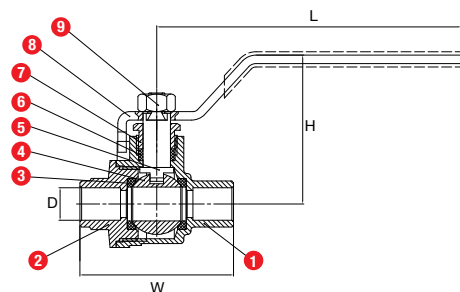
# 600FP-T/S-SS-LF



**Solder (C x C)**



**Threaded (NPT x NPT)**



## Description

Lead-free 2-piece body multi-purpose brass ball valve with stainless steel ball and stem for use in engineered hot and cold water systems, gas applications, compressed air services, and fire protection.

## Working Pressure

- 600 PSI Non-Shock Cold Working Pressure (CWP)

## End Connection

- Solder
- Threaded (NPT)

## Option

- Extended Handle Kit (for TFP600 legacy model)

## Standards

- **Conforms to:** MSS SP-110.
- **cULus Approval (NPT Only):** (1/4" to 2") VQGU7 Trim and Drain.
- **UL Approval (NPT Only):** (1/4" to 2") YQNZ Compressed Gas Shut-off Valves, YRBX Flammable Liquid Shut-off Valves, YRPV Gas Shut-off Valves, YSDT LP Gas Shut-off Valves, MHKZ Manual Valves.
- **FM Approval:** (1/4" to 2").
- **NSF/ANSI 61 NSF/ANSI 372 Approval (lead free)**
- **cUPC Approval**
- **CSA Approval (NPT only):** ANSI Z21.15/CGA 9.1, ASME B16.44, CGA CR 91-002, CAN/CGA 3.16, ASME B16.33 and ASME B16.38.

| Size<br>DN | Dimensions    |             |               |             |               |             |               |             |
|------------|---------------|-------------|---------------|-------------|---------------|-------------|---------------|-------------|
|            | L             |             | D             |             | H             |             | W             |             |
|            | Threaded Ends | Solder Ends | Threaded Ends | Solder Ends | Threaded Ends | Solder Ends | Threaded Ends | Solder Ends |
| inch       | inch          | inch        | inch          | inch        | inch          | inch        | inch          | inch        |
| 1/4"       | 3.543         | 3.543       | 0.394         | 0.315       | 1.732         | 1.732       | 1.756         | 1.787       |
| 3/8"       | 3.543         | 3.543       | 0.394         | 0.394       | 1.732         | 1.732       | 1.756         | 1.866       |
| 1/2"       | 3.543         | 3.543       | 0.583         | 0.583       | 1.941         | 1.839       | 2.047         | 2.102       |
| 3/4"       | 3.780         | 3.780       | 0.748         | 0.748       | 2.106         | 1.996       | 2.362         | 2.807       |
| 1"         | 4.528         | 4.528       | 0.945         | 0.945       | 2.579         | 2.449       | 2.756         | 3.307       |
| 1 1/4"     | 4.528         | 4.528       | 1.260         | 1.260       | 2.961         | 2.862       | 3.307         | 3.819       |
| 1 1/2"     | 5.512         | 5.512       | 1.575         | 1.575       | 3.366         | 3.169       | 3.661         | 4.433       |
| 2"         | 5.512         | 5.512       | 1.969         | 1.969       | 3.701         | 3.449       | 4.181         | 5.315       |

| Material Specification |              |                      |
|------------------------|--------------|----------------------|
| #                      | Part         | Material             |
| 1                      | Body         | Lead-Free Brass      |
| 2                      | End Cap      | Lead-Free Brass      |
| 3                      | Ball Seat    | PTFE                 |
| 4                      | Ball*        | Stainless Steel      |
| 5                      | Stem         | Stainless Steel      |
| 6                      | Stem Packing | PTFE                 |
| 7                      | Packing Nut  | Brass                |
| 8                      | Lever Handle | Chrome Plating Steel |
| 9                      | Stem Nut     | Nickel Plating Steel |

\* Ball (1/4" through 1" is Solid Type  
(1 1/4" through 4" is Shell Type)



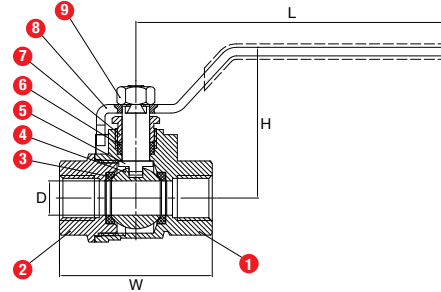
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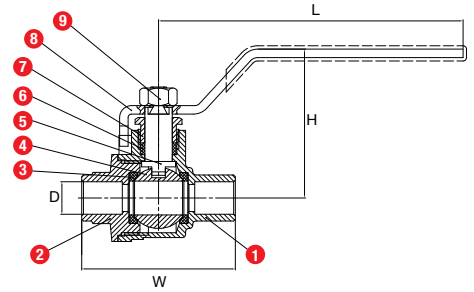
## 600FP-T/S



Solder (C x C)



Threaded (NPT x NPT)



## Description

2-piece body multi-purpose brass ball valve for use in engineered hot and cold water systems, gas applications, compressed air services, and fire protection.

## Working Pressure

- 1/4"–2": 600 PSI Non-Shock Cold Working Pressure (CWP)
- 2 1/2"–4": 400 PSI Non-Shock Cold Working Pressure (CWP)

## End Connection

- Solder
- Threaded (NPT)

## Option

- Extended Handle Kit (for TFP600 legacy model)

## Standards

- **Conforms to:** MSS SP-110.
- **cULus Approval (NPT Only):** (1/4" to 2") VQGU7 Trim and Drain.
- **UL Approval (NPT Only):** (1/4" to 2") UL1477 (YQNZ) Compressed Gas Shut-off Valves, UL842 (YRBX) Flammable Liquid Shut-off Valves, UL842 (YRPV) Gas Shut-off Valves, UL125 (YSDT) LP Gas Shut-off Valves, UL842 (MHKZ) Manual Valves.
- **FM Approval:** (1/4" to 2").
- **NSF/ANSI 61**
- **CSA Approval (NPT only):** ANSI Z21.15/CGA 9.1, ASME B16.44, CGA CR 91-002, CAN/CGA 3.16, ASME B16.33 and ASME B16.38.

| Size<br>DN | Dimensions    |             |               |             |               |             |               |             |
|------------|---------------|-------------|---------------|-------------|---------------|-------------|---------------|-------------|
|            | L             |             | D             |             | H             |             | W             |             |
|            | Threaded Ends | Solder Ends | Threaded Ends | Solder Ends | Threaded Ends | Solder Ends | Threaded Ends | Solder Ends |
| inch       | inch          | inch        | inch          | inch        | inch          | inch        | inch          | inch        |
| 1/4"       | 3.543         | 3.543       | 0.394         | 0.315       | 1.732         | 1.732       | 1.756         | 1.787       |
| 3/8"       | 3.543         | 3.543       | 0.394         | 0.394       | 1.732         | 1.732       | 1.756         | 1.866       |
| 1/2"       | 3.543         | 3.543       | 0.583         | 0.583       | 1.941         | 1.839       | 2.047         | 2.102       |
| 3/4"       | 3.780         | 3.780       | 0.748         | 0.748       | 2.106         | 1.996       | 2.362         | 2.807       |
| 1"         | 4.528         | 4.528       | 0.945         | 0.945       | 2.579         | 2.449       | 2.756         | 3.307       |
| 1 1/4"     | 4.528         | 4.528       | 1.260         | 1.260       | 2.961         | 2.862       | 3.307         | 3.819       |
| 1 1/2"     | 5.512         | 5.512       | 1.575         | 1.575       | 3.366         | 3.169       | 3.661         | 4.433       |
| 2"         | 5.512         | 5.512       | 1.969         | 1.969       | 3.701         | 3.449       | 4.181         | 5.315       |
| 2 1/2"     | 8.661         | 8.661       | 2.520         | 2.520       | 4.803         | 4.803       | 5.378         | 6.283       |
| 3"         | 8.661         | 8.661       | 2.937         | 2.937       | 5.118         | 5.118       | 6.039         | 7.150       |
| 4"         | 9.606         | 9.606       | 3.937         | 3.937       | 6.055         | 6.055       | 7.386         | 9.276       |

| Material Specification |              |                      |
|------------------------|--------------|----------------------|
| #                      | Part         | Material             |
| 1                      | Body         | Brass                |
| 2                      | End Cap      | Brass                |
| 3                      | Ball Seat    | PTFE                 |
| 4                      | Ball         | Brass                |
| 5                      | Stem         | Brass                |
| 6                      | Stem Packing | PTFE                 |
| 7                      | Packing Nut  | Brass                |
| 8                      | Lever Handle | Chrome Plating Steel |
| 9                      | Stem Nut     | Nickel Plating Steel |



CRN

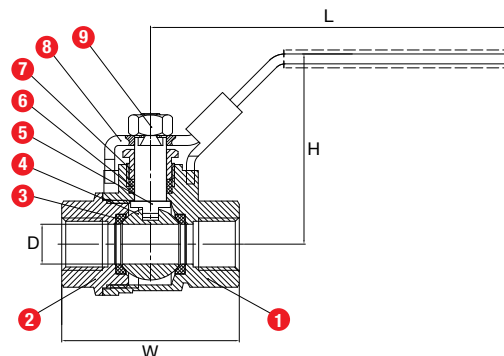


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# 600FP-T-LL



Threaded (NPT x NPT)



## Description

2-piece body multi-purpose brass ball valve with locking lever for use in engineered hot and cold water systems, gas applications, compressed air services, and fire protection.

## Working Pressure

- 1/4"–2": 600 PSI Non-Shock Cold Working Pressure (CWP)
- 2 1/2"–4": 400 PSI Non-Shock Cold Working Pressure (CWP)

## End Connection

- Threaded (NPT)

## Standards

- **Conforms to:** MSS SP-110.
- **cULus Approval (NPT Only):** (1/4" to 2") VQGU7 Trim and Drain.
- **UL Approval (NPT Only):** (1/4" to 2") UL1477 (YQNZ) Compressed Gas Shut-off Valves, UL842 (YRBX) Flammable Liquid Shut-off Valves, UL842 (YRPV) Gas Shut-off Valves, UL125 (YSDT) LP Gas Shut-off Valves, UL842 (MHKZ) Manual Valves.
- **FM Approval:** (1/4" to 2").
- **CSA Approval (NPT only):** ANSI Z21.15/CGA 9.1, ASME B16.44, CGA CR 91-002, CAN/CGA 3.16, ASME B16.33 and ASME B16.38.
- **NSF 61 / ANSI 61**

| Dimensions |               |       |               |       |               |       |               |       |
|------------|---------------|-------|---------------|-------|---------------|-------|---------------|-------|
| Size<br>DN | L             |       | D             |       | H             |       | W             |       |
|            | Threaded Ends |       | Threaded Ends |       | Threaded Ends |       | Threaded Ends |       |
| inch       | mm            | inch  | mm            | inch  | mm            | inch  | mm            | inch  |
| 1/4"       | 3.543         | 0.139 | 0.394         | 0.016 | 1.882         | 0.074 | 1.756         | 0.069 |
| 3/8"       | 3.543         | 0.139 | 0.394         | 0.016 | 1.882         | 0.074 | 1.756         | 0.069 |
| 1/2"       | 3.543         | 0.139 | 0.583         | 0.023 | 2.091         | 0.082 | 2.047         | 0.081 |
| 3/4"       | 3.780         | 0.149 | 0.748         | 0.029 | 2.236         | 0.088 | 2.362         | 0.093 |
| 1"         | 4.528         | 0.178 | 0.945         | 0.037 | 2.669         | 0.105 | 2.756         | 0.109 |
| 1 1/4"     | 4.528         | 0.178 | 1.280         | 0.050 | 3.051         | 0.120 | 3.307         | 0.130 |
| 1 1/2"     | 5.514         | 0.217 | 1.575         | 0.062 | 3.484         | 0.137 | 3.661         | 0.144 |
| 2"         | 5.512         | 0.217 | 1.969         | 0.078 | 3.300         | 0.130 | 4.181         | 0.165 |
| 2 1/2"     | 8.660         | 0.341 | 2.520         | 0.099 | 4.803         | 0.189 | 5.378         | 0.212 |
| 3"         | 8.660         | 0.341 | 2.913         | 0.115 | 5.118         | 0.201 | 6.039         | 0.238 |
| 4"         | 9.606         | 0.378 | 3.937         | 0.155 | 6.055         | 0.238 | 7.386         | 0.291 |

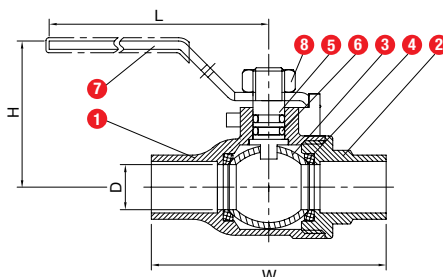
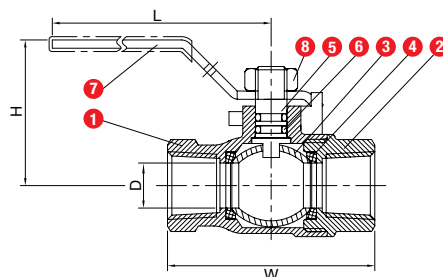
| Material Specification |              |                      |
|------------------------|--------------|----------------------|
| #                      | Part         | Material             |
| 1                      | Body         | Brass                |
| 2                      | End Cap      | Brass                |
| 3                      | Seat         | PTFE                 |
| 4                      | Ball         | Brass                |
| 5                      | Stem         | Brass                |
| 6                      | Stem Packing | PTFE                 |
| 7                      | Packing Nut  | Brass                |
| 8                      | Lever Handle | Chrome Plating Steel |
| 9                      | Stem Nut     | Nickel Plating Steel |



CRN



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**(T/S)FP601(SS)****Solder (C x C)****Threaded (NPT x NPT)****Description**

2-piece body multi-purpose brass ball valve for use in engineered hot and cold water systems, gas applications, and compressed air services.

**Working Pressure**

- 1/4"-2": 600 PSI Non-Shock Cold Working Pressure (CWP)

**End Connection**

- Solder
- Threaded (NPT)

**Standard**

- Conforms to MSS SP-110

**Option**

- Stainless Steel Trim
- Wing Handle

**Standards**

CAN/CGAC 3.16 (1/2" through 2") 125 psig, AGA3-88 / CGA CR91-002 (1/4" through 2") 5 psig, 150 WSP, NSF 61 Approval

- **CSA Approval (Threaded only):** Pilot Adjustable National Standard of Canada. Class 3371-08 Requirement Can1-91, Gas Lever Non Lubricated Shut-off Valve. Class 3371-10 Requirement CGA-3.16, Manual Gas Valves on Piping Systems. Class 3371-12. Requirement

CGA CR-9102, General Gas Valve US Standard. Class 3371-88. Requirement ANSI Z21.15, Gas Manual Valve House Piping System. Class 3371.92 Requirement IAS US Regulations 3.88, Manual Gas Valve Metallic in Piping System US Standards. Class 3371-94 Requirements ANSI/ASME B16.33. -20/150F.

| Dimensions |                  |                |                  |                |                  |                |                  |                |
|------------|------------------|----------------|------------------|----------------|------------------|----------------|------------------|----------------|
| Size<br>DN | L                |                | D                |                | H                |                | W                |                |
|            | Threaded<br>Ends | Solder<br>Ends | Threaded<br>Ends | Solder<br>Ends | Threaded<br>Ends | Solder<br>Ends | Threaded<br>Ends | Solder<br>Ends |
| inch       | inch             | inch           | inch             | inch           | inch             | inch           | inch             | inch           |
| 1/4"       | 3.23             | -              | 0.31             | -              | 1.11             | -              | 1.49             | -              |
| 3/8"       | 3.23             | -              | 0.31             | -              | 1.11             | -              | 1.63             | -              |
| 1/2"       | 3.23             | 3.23           | 0.44             | 0.44           | 1.13             | 1.13           | 1.98             | 1.89           |
| 3/4"       | 3.94             | 3.94           | 0.69             | 0.69           | 1.58             | 1.58           | 2.29             | 2.67           |
| 1"         | 4.72             | 4.72           | 0.94             | 0.94           | 1.96             | 1.96           | 2.80             | 3.30           |
| 1 1/4"     | 4.72             | 4.72           | 1.19             | 1.19           | 2.14             | 2.14           | 3.19             | 3.78           |
| 1 1/2"     | 7.09             | 7.09           | 1.44             | 1.44           | 2.54             | 2.54           | 3.45             | 4.30           |
| 2"         | 7.09             | 7.09           | 1.94             | 1.94           | 2.89             | 2.89           | 4.03             | 5.33           |

| Material Specification |                 |                             |               |
|------------------------|-----------------|-----------------------------|---------------|
| #                      | Part            | Material                    | Standard      |
| 1                      | Body            | Forged Brass                | ASTM C37700   |
| 2                      | End Cap         | Forged Brass                | ASTM C37700   |
| 3                      | Ball            | Copper Alloy, Chrome Plated | -             |
|                        | Ball (SS Model) | Stainless Steel             | A276 Type 316 |
| 4                      | Seat            | PTFE                        | -             |
| 5                      | Stem            | Copper Alloy                | -             |
|                        | Stem (SS Model) | Brass                       | A276 Type 316 |
| 6                      | O-Ring (2)      | Viton                       | -             |
| 7                      | Handle          | Carbon Steel Plated         | -             |
| 8                      | Nut             | Carbon Steel Plated         | -             |

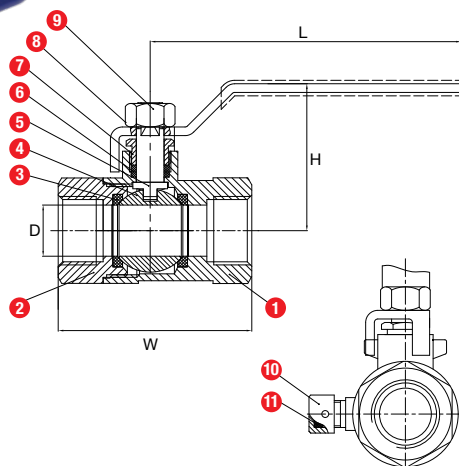


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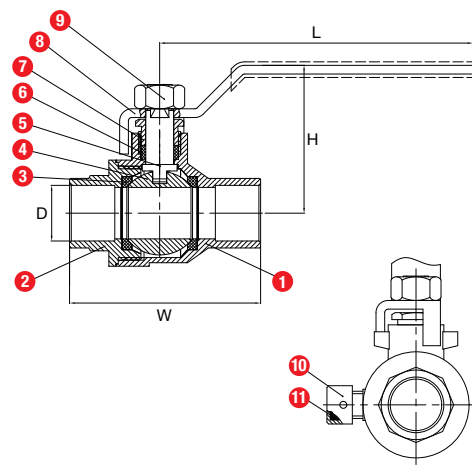
# 600FP-T/S-SD



**Solder (C x C)**



**Threaded (NPT x NPT)**



## Description

2-piece body multi-purpose brass ball valve with side drain for use in engineered hot and cold water systems, gas applications, compressed air services, and fire protection.

## Working Pressure

- 600 PSI Non-Shock Cold Working Pressure (CWP)

## End Connection

- Solder
- Threaded (NPT)

## Standard

- Conforms to MSS SP-110
- NSF61 Approval

| Dimensions |                  |                |                  |                |                  |                |                  |                |
|------------|------------------|----------------|------------------|----------------|------------------|----------------|------------------|----------------|
| Size<br>DN | L                |                | D                |                | H                |                | W                |                |
|            | Threaded<br>Ends | Solder<br>Ends | Threaded<br>Ends | Solder<br>Ends | Threaded<br>Ends | Solder<br>Ends | Threaded<br>Ends | Solder<br>Ends |
| inch       | inch             | inch           | inch             | inch           | inch             | inch           | inch             | inch           |
| 1/4"       | 3.543            | 3.543          | 0.583            | 0.583          | 1.673            | 1.673          | 2.205            | 2.161          |
| 3/8"       | 4.469            | 4.469          | 0.748            | 0.748          | 2.138            | 2.028          | 2.480            | 2.846          |
| 4"         | 4.469            | 4.469          | 0.945            | 0.945          | 2.374            | 2.244          | 2.854            | 3.461          |

| Material Specification |               |                      |
|------------------------|---------------|----------------------|
| #                      | Part          | Material             |
| 1                      | Body          | Brass                |
| 2                      | End Cap       | Brass                |
| 3                      | Ball Seat     | PTFE                 |
| 4                      | Ball          | Brass                |
| 5                      | Stem          | Brass                |
| 6                      | Stem Packing  | PTFE                 |
| 7                      | Packing Nut   | Brass                |
| 8                      | Lever Handle  | Nickel Plating Steel |
| 9                      | Stem Nut      | Nickel Plating Steel |
| 10                     | Drainable Nut | Brass                |
| 11                     | Rubber Seat   | Rubber               |

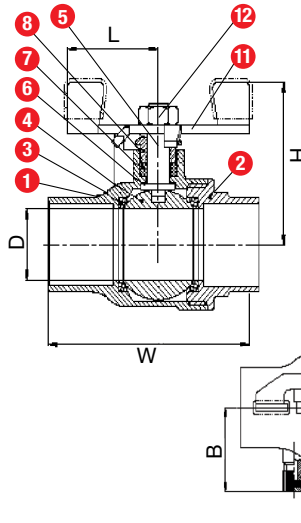


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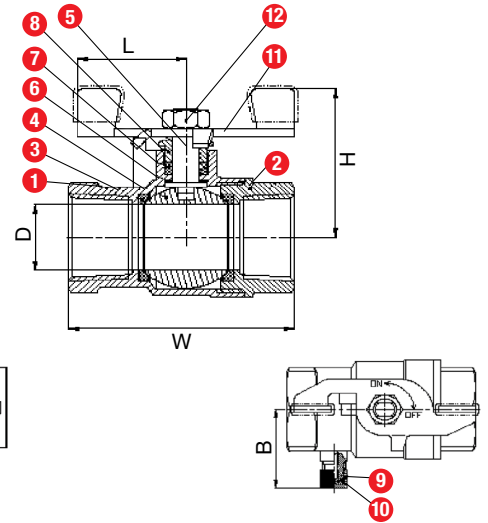
# (T/S)FP600-SDWH



**Solder (C x C)**



**Threaded (NPT x NPT)**



## Description

2-piece body multi-purpose brass ball valve for use in engineered hot and cold water systems, compressed air services, and fire protection.

## Working Pressure

- 600 PSI Non-Shock Cold Working Pressure (CWP)

## End Connection

- Solder
- Threaded (NPT)

## Standard

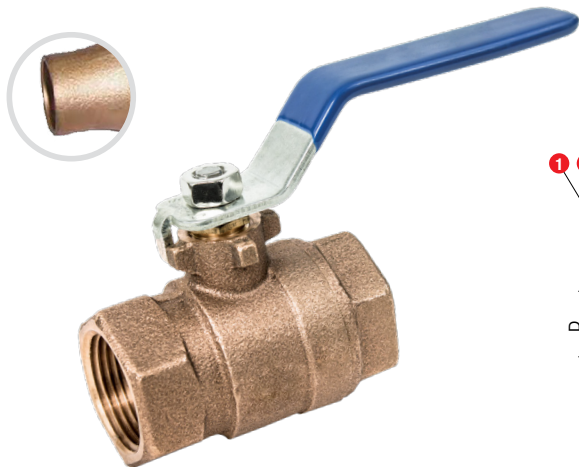
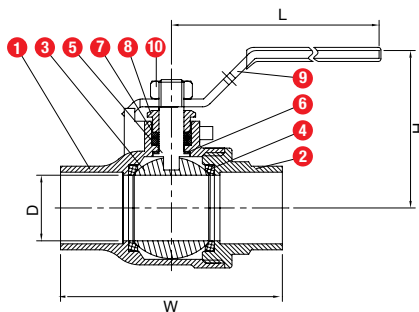
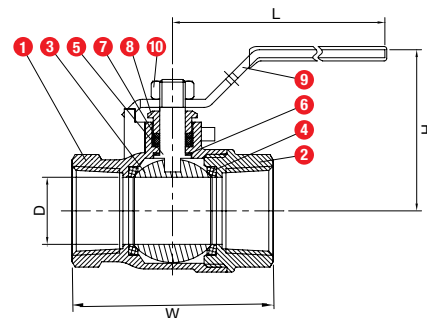
- Conforms to MSS SP-110

| Dimensions |      |      |      |                  |      |                |      |      |       |      |       |                  |       |                |       |      |      |
|------------|------|------|------|------------------|------|----------------|------|------|-------|------|-------|------------------|-------|----------------|-------|------|------|
| Size<br>DN |      | D    |      | W                |      |                |      | H    |       | L    |       | Z                |       |                |       | B    |      |
|            |      |      |      | Threaded<br>Ends |      | Solder<br>Ends |      |      |       |      |       | Threaded<br>Ends |       | Solder<br>Ends |       |      |      |
| mm         | inch | mm   | inch | mm               | inch | mm             | inch | mm   | inch  | mm   | inch  | mm               | inch  | mm             | inch  | mm   | inch |
| 15         | 1/2" | 12.7 | 0.50 | 59               | 2.32 | 59             | 1.32 | 37   | 1.457 | 27.5 | 1.083 | 16.5             | 0.649 | 15.2           | 0.598 | 26.2 | 1.03 |
| 20         | 3/4" | 19   | 0.75 | 64.8             | 2.55 | 64.8           | 2.55 | 50   | 1.970 | 32.5 | 1.280 | 16.9             | 0.665 | 22             | 0.866 | 31.2 | 1.22 |
| 25         | 1"   | 25   | 0.98 | 78.2             | 3.07 | 78.2           | 3.08 | 56.6 | 2.228 | 37.5 | 1.476 | 20               | 0.787 | 26             | 1.023 | 35.7 | 1.40 |

| Material Specification |               |                     |          |
|------------------------|---------------|---------------------|----------|
| #                      | Part          | Material            | Standard |
| 1                      | Body          | Forged Brass        | -        |
| 2                      | End Cap       | Forged Brass        | -        |
| 3                      | Seat          | PTFE                | -        |
| 4                      | Ball          | Copper Alloy        | -        |
| 5                      | Stem          | Copper Alloy        | -        |
| 6                      | Thrust Washer | PTFE                | -        |
| 7                      | Packing       | PTFE                | -        |
| 8                      | Gland         | Copper Alloy        | -        |
| 9                      | Handle        | Carbon Steel Plated | -        |
| 10                     | Nut           | Stainless Steel     | SS41     |
| 11                     | Packing       | Rubber              | -        |
| 12                     | Cap           | Copper Alloy        | -        |

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# (T/S)FP620

**Solder (C x C)****Threaded (NPT x NPT)****Description**

2-piece body multi-purpose bronze ball valve for use in engineered hot and cold water systems, and compressed air services.

**Working Pressure**

- 600 PSI Non-Shock Cold Working Pressure (CWP)

**End Connection**

- Solder
- Threaded (NPT)

**Standard**

- Conforms to MSS SP-110

**Option**

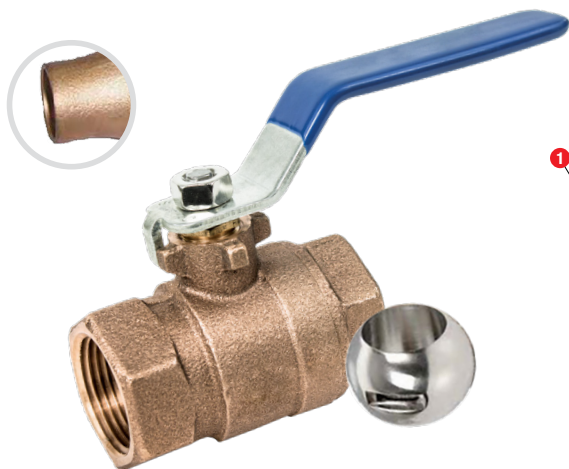
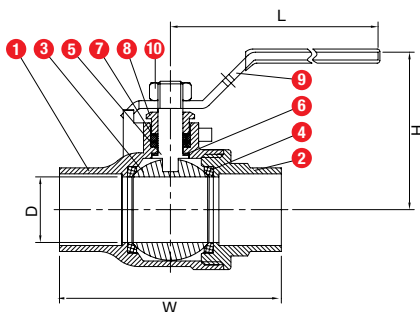
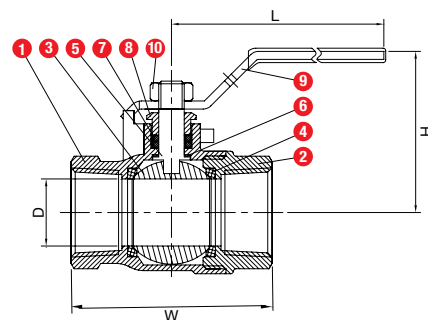
- Locking lever

| Dimensions |      |      |      |                  |      |             |      |      |      |       |      |
|------------|------|------|------|------------------|------|-------------|------|------|------|-------|------|
| Size<br>DN |      | D    |      | W                |      |             |      | H    |      | L     |      |
|            |      |      |      | Threaded<br>Ends |      | Solder Ends |      |      |      |       |      |
| mm         | inch | mm   | inch | mm               | inch | mm          | inch | mm   | inch | mm    | inch |
| 8          | 1/4" | 9.5  | 0.37 | 47.5             | 1.87 | 40          | 1.57 | 37   | 1.46 | 80    | 3.15 |
| 10         | 3/8" | 9.5  | 0.37 | 47.5             | 1.87 | 40          | 1.57 | 37   | 1.46 | 80    | 3.15 |
| 15         | 1/2" | 12.7 | 0.50 | 54.7             | 2.15 | 53          | 2.09 | 50   | 1.96 | 92.5  | 3.64 |
| 20         | 3/4" | 19   | 0.75 | 61.6             | 2.43 | 72          | 2.83 | 54   | 2.13 | 92.5  | 3.64 |
| 25         | 1"   | 25   | 0.98 | 74.6             | 2.94 | 87.6        | 3.45 | 63.6 | 2.50 | 111.5 | 4.39 |
| 32         | 1¼"  | 30.5 | 1.20 | 84.8             | 3.32 | 98.2        | 3.87 | 67.6 | 2.66 | 111.5 | 4.39 |
| 40         | 1½"  | 38   | 1.50 | 92.2             | 3.64 | 113.2       | 4.46 | 79.8 | 3.14 | 155   | 6.10 |
| 50         | 2"   | 50   | 1.07 | 106.1            | 4.18 | 140         | 5.51 | 89.4 | 3.52 | 155   | 6.10 |

| Material Specification |               |                             |                  |
|------------------------|---------------|-----------------------------|------------------|
| #                      | Part          | Material                    | Standard         |
| 1                      | Body          | Bronze                      | ASTM B584 C84400 |
| 2                      | End Cap       | Bronze                      | ASTM B584 C84400 |
| 3                      | Ball          | Copper Alloy                | -                |
| 4                      | Seat          | PTFE                        | -                |
| 5                      | Stem          | Copper Alloy, Chrome Plated | -                |
| 6                      | Thrust Washer | PTFE                        | -                |
| 7                      | Stem Packing  | PTFE                        | -                |
| 8                      | Gland         | Copper Alloy                | -                |
| 9                      | Handle        | Carbon Steel Plated         | -                |
| 10                     | Nut           | Carbon Steel Plated         | -                |

**CRN**

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**(T/S)FP620-SS****Solder (C x C)****Threaded (NPT x NPT)****Description**

2-piece body multi-purpose bronze ball valve for use in engineered hot and cold water systems.

**Working Pressure**

- 600 PSI Non-Shock Cold Working Pressure (CWP)

**End Connection**

- Solder
- Threaded (NPT)

**Standard**

- Conforms to MSS SP-110

**Option**

- Locking lever

**Dimensions**

| Size<br>DN |      | D    |      | W                |      |             |      | H    |      | L     |      |
|------------|------|------|------|------------------|------|-------------|------|------|------|-------|------|
|            |      |      |      | Threaded<br>Ends |      | Solder Ends |      |      |      |       |      |
| mm         | inch | mm   | inch | mm               | inch | mm          | inch | mm   | inch | mm    | inch |
| 8          | 1/4" | 9.5  | 0.37 | 47.5             | 1.87 | 40          | 1.57 | 37   | 1.46 | 80    | 3.15 |
| 10         | 3/8" | 9.5  | 0.37 | 47.5             | 1.87 | 40          | 1.57 | 37   | 1.46 | 80    | 3.15 |
| 15         | 1/2" | 12.7 | 0.50 | 54.7             | 2.15 | 53          | 2.09 | 50   | 1.96 | 92.5  | 3.64 |
| 20         | 3/4" | 19   | 0.75 | 61.6             | 2.43 | 72          | 2.83 | 54   | 2.13 | 92.5  | 3.64 |
| 25         | 1"   | 25   | 0.98 | 74.6             | 2.94 | 87.6        | 3.45 | 63.6 | 2.50 | 111.5 | 4.39 |
| 32         | 1¼"  | 30.5 | 1.20 | 84.8             | 3.32 | 98.2        | 3.87 | 67.6 | 2.66 | 111.5 | 4.39 |
| 40         | 1½"  | 38   | 1.50 | 92.2             | 3.64 | 113.2       | 4.46 | 79.8 | 3.14 | 155   | 6.10 |
| 50         | 2"   | 50   | 1.07 | 106.1            | 4.18 | 140         | 5.51 | 89.4 | 3.52 | 155   | 6.10 |

**Material Specification**

| #  | Part          | Material            | Standard           |
|----|---------------|---------------------|--------------------|
| 1  | Body          | Bronze              | ASTM B584 C84400   |
| 2  | End Cap       | Bronze              | ASTM B584 C84400   |
| 3  | Ball          | Stainless Steel     | ASTM A276 TYPE 316 |
| 4  | Seat          | PTFE                | -                  |
| 5  | Stem          | Stainless Steel     | ASTM A276 TYPE 316 |
| 6  | Thrust Washer | PTFE                | -                  |
| 7  | Stem Packing  | PTFE                | -                  |
| 8  | Gland         | Copper Alloy        | -                  |
| 9  | Handle        | Carbon Steel Plated | -                  |
| 10 | Nut           | Carbon Steel Plated | -                  |

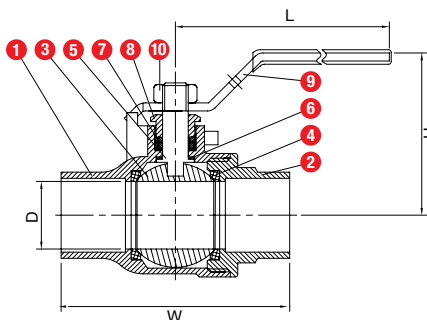
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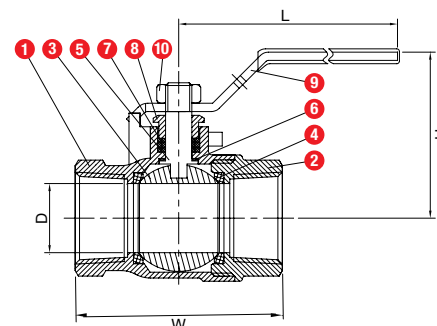
# (T/S)FP620-LF(SS)



**Solder (C x C)**



**Threaded (NPT x NPT)**



## Description

Lead-free 2-piece body multi-purpose bronze ball valve for use in engineered hot and cold water systems.

## Working Pressure

- 600 PSI Non-Shock Cold Working Pressure (CWP)

## End Connection

- Solder
- Threaded (NPT)

## Standard

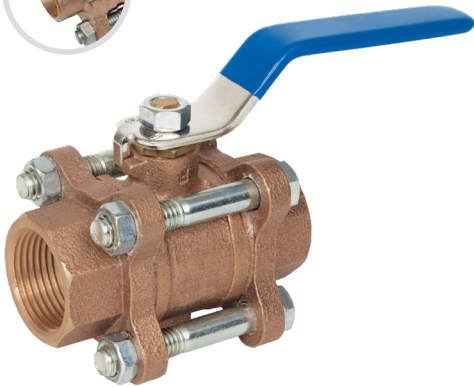
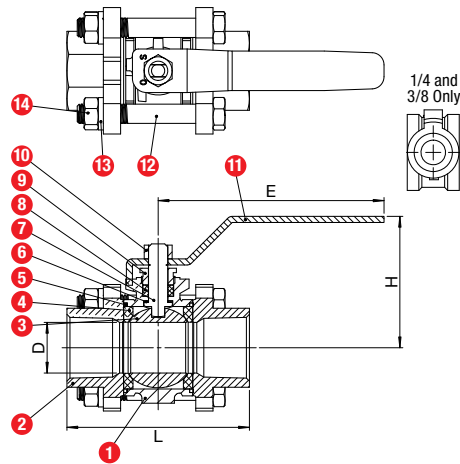
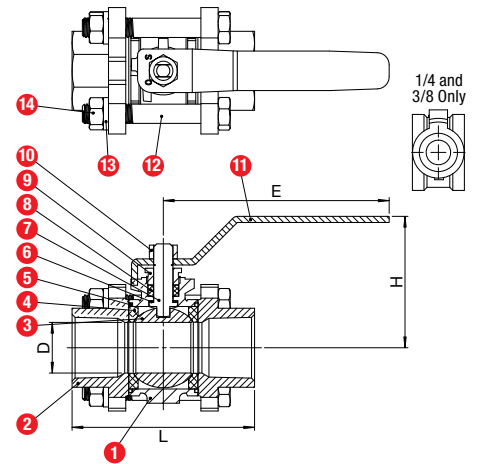
- Conforms to MSS SP-110

| Dimensions |      |      |      |                  |      |             |      |      |      |       |      |
|------------|------|------|------|------------------|------|-------------|------|------|------|-------|------|
| Size<br>DN |      | D    |      | W                |      |             |      | H    |      | L     |      |
|            |      |      |      | Threaded<br>Ends |      | Solder Ends |      |      |      |       |      |
| mm         | inch | mm   | inch | mm               | inch | mm          | inch | mm   | inch | mm    | inch |
| 8          | 1/4" | 9.5  | 0.37 | 47.5             | 1.87 | 40          | 1.57 | 37   | 1.46 | 80    | 3.15 |
| 10         | 3/8" | 9.5  | 0.37 | 47.5             | 1.87 | 40          | 1.57 | 37   | 1.46 | 80    | 3.15 |
| 15         | 1/2" | 12.7 | 0.50 | 54.7             | 2.15 | 53          | 2.09 | 50   | 1.96 | 92.5  | 3.64 |
| 20         | 3/4" | 19   | 0.75 | 61.6             | 2.43 | 72          | 2.83 | 54   | 2.13 | 92.5  | 3.64 |
| 25         | 1"   | 25   | 0.98 | 74.6             | 2.94 | 87.6        | 3.45 | 63.6 | 2.50 | 111.5 | 4.39 |
| 32         | 1¼"  | 30.5 | 1.20 | 84.8             | 3.32 | 98.2        | 3.87 | 67.6 | 2.66 | 111.5 | 4.39 |
| 40         | 1½"  | 38   | 1.50 | 92.2             | 3.64 | 113.2       | 4.46 | 79.8 | 3.14 | 155   | 6.10 |
| 50         | 2"   | 50   | 1.07 | 106.1            | 4.18 | 140         | 5.51 | 89.4 | 3.52 | 155   | 6.10 |

| Material Specification |               |                     |                    |
|------------------------|---------------|---------------------|--------------------|
| #                      | Part          | Material            | Standard           |
| 1                      | Body          | Bronze              | ASTM B584 C84400   |
| 2                      | End Cap       | Bronze              | ASTM B584 C84400   |
| 3                      | Ball          | Stainless Steel     | ASTM A276 TYPE 316 |
| 4                      | Seat          | PTFE                | -                  |
| 5                      | Stem          | Stainless Steel     | ASTM A276 TYPE 316 |
| 6                      | Thrust Washer | PTFE                | -                  |
| 7                      | Stem Packing  | PTFE                | -                  |
| 8                      | Gland         | Copper Alloy        | -                  |
| 9                      | Handle        | Carbon Steel Plated | -                  |
| 10                     | Nut           | Carbon Steel Plated | -                  |



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**(T/S)FP630****Solder (C x C)****Threaded (NPT x NPT)****Description**

3-piece body multi-purpose bronze ball valve for use in engineered hot and cold water systems, and compressed air services.

**Working Pressure**

- 600 PSI Non-Shock Cold Working Pressure (CWP)

**End Connection**

- Solder
- Threaded (NPT)

**Standard**

- Conforms to MSS SP-110

| Dimensions |      |      |      |                  |      |             |      |      |      |       |      |
|------------|------|------|------|------------------|------|-------------|------|------|------|-------|------|
| Size<br>DN |      | D    |      | W                |      |             |      | H    |      | L     |      |
|            |      |      |      | Threaded<br>Ends |      | Solder Ends |      |      |      |       |      |
| mm         | inch | mm   | inch | mm               | inch | mm          | inch | mm   | inch | mm    | inch |
| 8          | 1/4" | 9.5  | 0.37 | 47.5             | 1.87 | 40          | 1.57 | 37   | 1.46 | 80    | 3.15 |
| 10         | 3/8" | 9.5  | 0.37 | 47.5             | 1.87 | 40          | 1.57 | 37   | 1.46 | 80    | 3.15 |
| 15         | 1/2" | 12.7 | 0.50 | 54.7             | 2.15 | 53          | 2.09 | 50   | 1.96 | 92.5  | 3.64 |
| 20         | 3/4" | 19   | 0.75 | 61.6             | 2.43 | 72          | 2.83 | 54   | 2.13 | 92.5  | 3.64 |
| 25         | 1"   | 25   | 0.98 | 74.6             | 2.94 | 87.6        | 3.45 | 63.6 | 2.50 | 111.5 | 4.39 |
| 32         | 1¼"  | 30.5 | 1.20 | 84.8             | 3.32 | 98.2        | 3.87 | 67.6 | 2.66 | 111.5 | 4.39 |
| 40         | 1½"  | 38   | 1.50 | 92.2             | 3.64 | 113.2       | 4.46 | 79.8 | 3.14 | 155   | 6.10 |
| 50         | 2"   | 50   | 1.07 | 106.1            | 4.18 | 140         | 5.51 | 89.4 | 3.52 | 155   | 6.10 |

| Material Specification |               |                                |                  |
|------------------------|---------------|--------------------------------|------------------|
| #                      | Part          | Material                       | Standard         |
| 1                      | Body          | Bronze                         | ASTM B584 C84400 |
| 2                      | End Cap       | Bronze                         | ASTM B584 C84400 |
| 3                      | Ball          | Copper Alloy,<br>Chrome Plated | -                |
| 4                      | Seat          | PTFE                           | -                |
| 5                      | Gasket        | PTFE                           | -                |
| 6                      | Thrust Washer | PTFE                           | -                |
| 7                      | Stem          | Copper Alloy                   | -                |
| 8                      | Packing       | PTFE                           | -                |
| 9                      | Gland         | Copper Alloy                   | -                |
| 10                     | Handle Nut    | Carbon Steel Plated            | -                |
| 11                     | Handle        | Carbon Steel Plated            | -                |
| 12                     | Bolt          | Carbon Steel Plated            | -                |
| 13                     | Bolt Washer   | Carbon Steel                   | -                |
| 14                     | Bolt Nut      | Carbon Steel                   | -                |

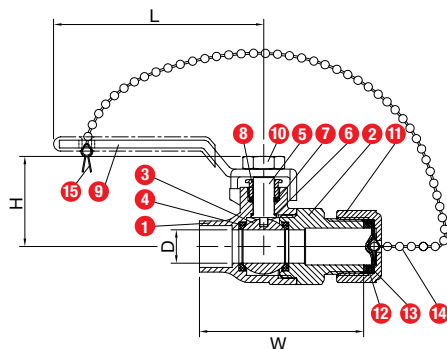
**CRN**

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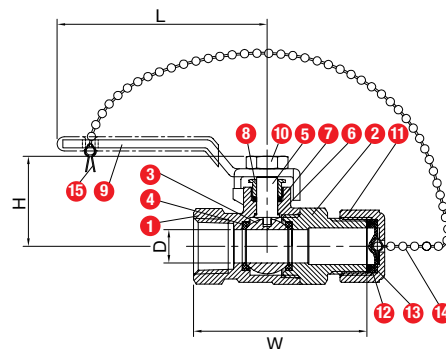
# (T/S)FP600-HC



**Solder (C x C)**



**Threaded (NPT x NPT)**



## Description

2-piece body multi-purpose bronze ball valve for use in engineered hot and cold water systems.

## Working Pressure

- 600 PSI Non-Shock Cold Working Pressure (CWP)

## End Connection

- Solder
- Threaded (NPT)

## Standard

- Conforms to MSS SP-110

| Dimensions |      |      |      |                  |      |                |      |      |      |      |      |
|------------|------|------|------|------------------|------|----------------|------|------|------|------|------|
| Size<br>DN |      | D    |      | W                |      |                |      | H    |      | L    |      |
|            |      |      |      | Threaded<br>Ends |      | Solder<br>Ends |      |      |      |      |      |
| mm         | inch | mm   | inch | mm               | inch | mm             | inch | mm   | inch | mm   | inch |
| 15         | 1/2" | 12.7 | 0.50 | 66.0             | 2.60 | 62.5           | 2.46 | 34.3 | 1.35 | 80.0 | 3.15 |
| 20         | 3/4" | 19.0 | 0.75 | 75.5             | 2.97 | 79.1           | 3.11 | 40.9 | 1.61 | 92.5 | 3.65 |

| Material Specification |               |                     |                  |
|------------------------|---------------|---------------------|------------------|
| #                      | Part          | Material            | Standard         |
| 1                      | Body          | Bronze              | ASTM B584 C84400 |
| 2                      | Cap           | Forged Brass        | -                |
| 3                      | Ball          | Copper Alloy        | -                |
| 4                      | Seat          | PTFE                | -                |
| 5                      | Stem          | Copper Alloy        | -                |
| 6                      | Thrust Washer | PTFE                | -                |
| 7                      | Packing       | PTFE                | -                |
| 8                      | Gland         | Copper Alloy        | -                |
| 9                      | Handle        | Carbon Steel Plated | -                |
| 10                     | Nut           | Carbon Steel Plated | -                |
| 11                     | Cap           | Forged Brass        | -                |
| 12                     | Packing       | NBR                 | -                |
| 13                     | Packing       | NBR                 | -                |
| 14                     | Chain         | Carbon Steel Plated | -                |
| 15                     | Fastener      | Carbon Steel Plated | -                |

# Bronze Gate, Globe and Check Valve Index



GTVA-(T/S)BZ2333



GTVA-(T/S)BZ2333U



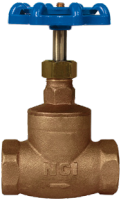
GTVB-(T/S)BZ2333



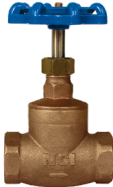
GTVA-TBZ3333U



GTVB-TBZ3333U



GLBA-(T/S)BZ2360



GLBA-(T/S)BZ2330



GLBA-TBZ3443U



GLBA-TBZ3333U



CKVA-(T/S)BZ2331



CKVA-(T/S)BZ2361



CKVA-TBZ3330



CKVB-(T/S)BZ2373

## Code Index

GTVA | T | BZ | 2 | 3 | 3 | 3 | HW

1

2

3

4

5

6

7

8

### 1 Valve Category

**GTVA** - Gate Valves (**A**-OS&Y; **B**-N.R.S.)

**GLBA** - Globe Valves (**A**-Straight Body; **B**-Angle Body)

**CKVA** - Check Valves (**A**-Swing Check; **B**-Lift Check)

### 2 Connection Style

**B** - Butt Weld; **C** - Combination; **F** - Flanged; **G** - Grooved; **M** - Mechanical Joint; **P** - Push-On; **S** - Socket Weld; **T** - Thread

### 3 Body Material

**BS** - Brass; **BZ** - Bronze; **CI** - Cast Iron; **CS** - Cast Steel; **DI** - Ductile Iron; **FS** - Forged Steel; **SS** - Stainless Steel

### 4 Pressure Rating

**1** - 125#; **2** - 150#; **3** - 300#; **4** - 200#; **5** - 250#; **7** - 350#; **8** - 800#

### 5 Seat Material

**0** - Brass; **1** - Ductile Iron; **2** - Cast Iron; **3** - Bronze; **4** - Stainless Steel; **5** - EPDM; **6** - PTFE; **7** - BUNA N; **8** - Polyamide; **9** - Viton

### 6 Disc Material

**0** - Brass; **1** - Ductile Iron; **2** - Cast Iron; **3** - A.I. Bronze; **4** - Stainless Steel; **5** - EPDM; **6** - PTFE

### 7 Stem/Bushing Material

**0** - Brass; **1** - Stainless Steel; **2** - 1-4PH; **3** - Bronze

### 8 Accessories

**HW** - Handwheel; **SN** - Square Nut; **GB** - Gear Box; **MA** - Motor Actuator; **PA** - Pneumatic Actuator

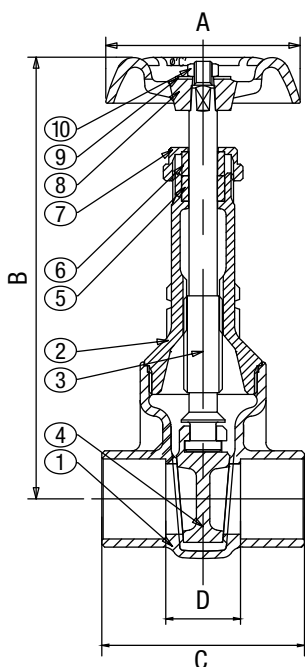
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# GTVA-(T/S)BZ2333

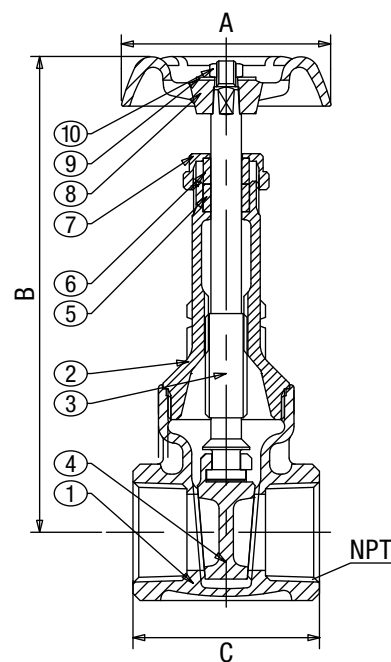
CRN



Solder (C x C)



Threaded (NPT x NPT)



## Description

Class 150 bronze gate valve, rising stem, solid wedge, screwed-in bonnet, NPT or solder ends. CRN for all Canadian provinces and territories.

## Working Pressure

- 150 PSI Saturated Steam
- 300 PSI Non-Shock Cold Working Pressure (CWP)

## End Connection

- Solder
- Threaded (NPT)

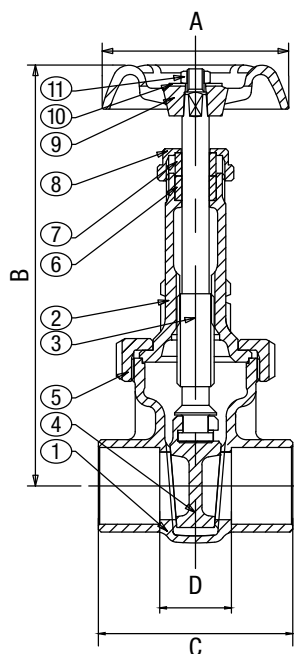
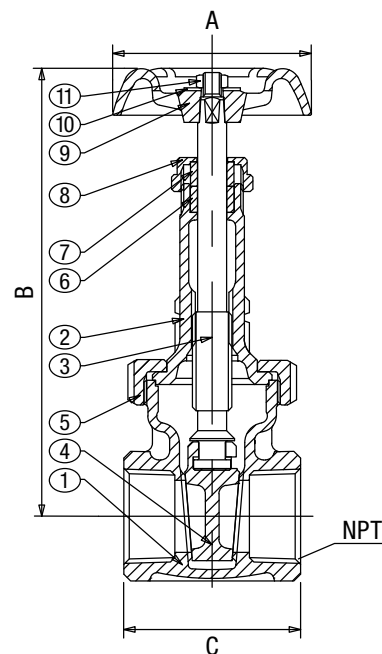
## Standard

- Conforms to MSS SP-80

| DIMENSIONS |      |     |      |     |       |                  |      |                |      |                |      |        |      |
|------------|------|-----|------|-----|-------|------------------|------|----------------|------|----------------|------|--------|------|
| SIZE<br>DN |      | A   |      | B   |       | C                |      |                |      | D              |      | WEIGHT |      |
|            |      |     |      |     |       | THREADED<br>ENDS |      | SOLDER<br>ENDS |      | SOLDER<br>ENDS |      |        |      |
| mm         | inch | mm  | inch | mm  | inch  | mm               | inch | mm             | inch | mm             | inch | lb     | Kg   |
| 8          | 1/4" | 53  | 2.09 | 126 | 4.96  | 46               | 1.81 | 46.0           | 1.81 | 30             | 1.18 | 0.71   | 0.32 |
| 10         | 3/8" | 53  | 2.09 | 126 | 4.96  | 46               | 1.81 | 46.0           | 1.81 | 27             | 1.06 | 0.68   | 0.31 |
| 15         | 1/2" | 53  | 2.09 | 129 | 5.08  | 51               | 2.01 | 48.0           | 1.89 | 23             | 0.91 | 1.01   | 0.46 |
| 20         | 3/4" | 71  | 2.80 | 159 | 6.26  | 55               | 2.17 | 61.0           | 2.40 | 23             | 0.91 | 1.59   | 0.72 |
| 25         | 1"   | 71  | 2.80 | 189 | 7.44  | 63               | 2.48 | 73.0           | 2.87 | 27             | 1.06 | 2.43   | 1.10 |
| 32         | 1¼"  | 78  | 3.07 | 219 | 8.62  | 71               | 2.80 | 79.0           | 3.11 | 30             | 1.18 | 3.31   | 1.50 |
| 40         | 1½"  | 90  | 3.54 | 246 | 9.69  | 73               | 2.87 | 88.0           | 3.46 | 32             | 1.26 | 4.96   | 2.25 |
| 50         | 2"   | 108 | 4.25 | 301 | 11.85 | 83               | 3.27 | 105.0          | 4.13 | 37             | 1.46 | 7.05   | 3.20 |
| 65         | 2½"  | 150 | 5.91 | 369 | 14.53 | 108              | 4.25 | -              | -    | -              | -    | 12.79  | 5.80 |
| 80         | 3"   | 150 | 5.91 | 416 | 16.38 | 117              | 4.61 | -              | -    | -              | -    | 18.78  | 8.52 |

| MATERIAL SPECIFICATIONS |                           |                 |                 |
|-------------------------|---------------------------|-----------------|-----------------|
| NO.                     | PART NAME                 | MATERIAL        | STANDARD        |
| 1                       | Body                      | Bronze          | ASTM B62 C83600 |
| 2                       | Bonnet                    | Bronze          | ASTM B62 C83600 |
| 3                       | Stem                      | Bronze          | ASTM B62 C83600 |
| 4                       | Wedge                     | Bronze          | ASTM B62 C83600 |
| 5                       | Packing                   | Graphite        | -               |
| 6                       | Gland                     | Brass           | B124 C37700     |
| 7                       | Packing Nut (2-1/2" & 3") | Bronze          | ASTM B62 C83600 |
|                         | Packing Nut (1/4" - 2")   | Brass           | B124 C37700     |
| 8                       | Handwheel                 | Cast Iron       | ASTM A126       |
| 9                       | Identification Plate      | Aluminum        | --              |
| 10                      | Handwheel Nut             | Stainless Steel | ANSI 304        |

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**CRN****Solder (C x C)****Threaded (NPT x NPT)****Description**

Class 150 bronze gate valve, rising stem, solid wedge, union bonnet, NPT or solder ends. CRN for all Canadian provinces and territories.

**Working Pressure**

- 150 PSI Saturated Steam
- 300 PSI Non-Shock Cold Working Pressure (CWP)

**End Connection**

- Solder
- Threaded (NPT)

**Standard**

- Conforms to MSS SP-80

**DIMENSIONS**

| SIZE<br>DN |      | A   |      | B   |       | C                |      |                |      | D              |      | WEIGHT |      |
|------------|------|-----|------|-----|-------|------------------|------|----------------|------|----------------|------|--------|------|
|            |      |     |      |     |       | THREADED<br>ENDS |      | SOLDER<br>ENDS |      | SOLDER<br>ENDS |      |        |      |
| mm         | inch | mm  | inch | mm  | inch  | mm               | inch | mm             | inch | mm             | inch | lb     | Kg   |
| 10         | 3/8" | 53  | 2.09 | 126 | 4.96  | 46               | 1.81 | 46             | 1.81 | 27             | 1.06 | 0.68   | 0.31 |
| 15         | 1/2" | 53  | 2.09 | 129 | 5.08  | 51               | 2.01 | 51             | 2.01 | 23             | 0.91 | 1.01   | 0.46 |
| 20         | 3/4" | 71  | 2.80 | 159 | 6.26  | 55               | 2.17 | 55             | 2.17 | 23             | 0.91 | 1.59   | 0.72 |
| 25         | 1"   | 71  | 2.80 | 189 | 7.44  | 63               | 2.48 | 63             | 2.48 | 27             | 1.06 | 2.43   | 1.10 |
| 32         | 1¼"  | 78  | 3.07 | 219 | 8.62  | 71               | 2.80 | 71             | 2.80 | 30             | 1.18 | 3.31   | 1.50 |
| 40         | 1½"  | 90  | 3.54 | 246 | 9.69  | 73               | 2.87 | 73             | 2.87 | 32             | 1.26 | 4.96   | 2.25 |
| 50         | 2"   | 108 | 4.25 | 301 | 11.85 | 83               | 3.27 | 83             | 3.27 | 37             | 1.46 | 7.05   | 3.20 |

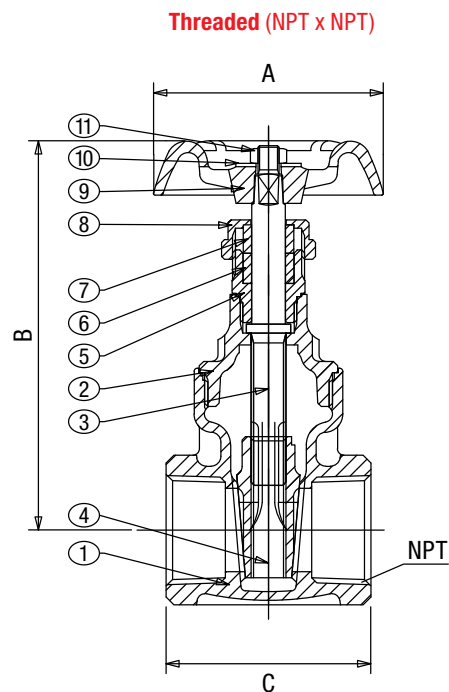
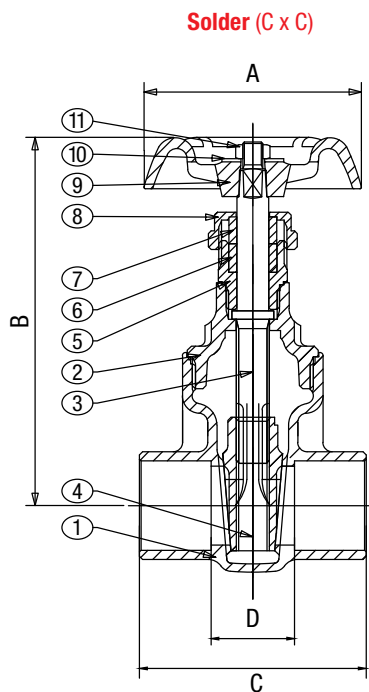
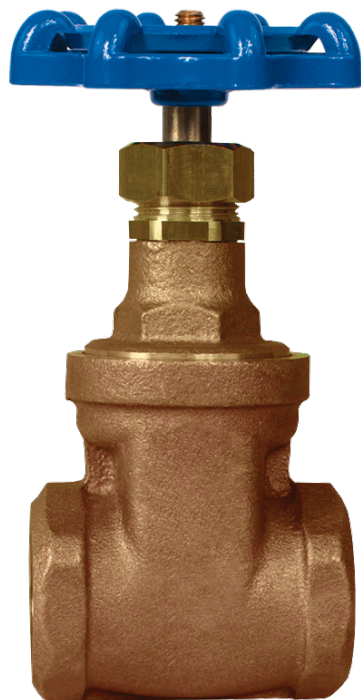
**MATERIAL SPECIFICATIONS**

| NO. | PART NAME                 | MATERIAL        | STANDARD        |
|-----|---------------------------|-----------------|-----------------|
| 1   | Body                      | Bronze          | ASTM B62 C83600 |
| 2   | Union                     | Bronze          | ASTM B62 C83600 |
| 3   | Stem                      | Bronze          | ASTM B62 C83600 |
| 4   | Wedge                     | Bronze          | ASTM B62 C83600 |
| 5   | Union Ring                | Bronze          | ASTM B62 C83600 |
| 6   | Packing                   | Graphite        | -               |
| 7   | Gland                     | Brass           | B124 C37700     |
| 8   | Packing Nut (2-1/2" & 3") | Bronze          | ASTM B62 C83600 |
|     | Packing Nut (1 1/4" - 2") | Brass           | B124 C37700     |
| 9   | Handwheel                 | Cast Iron       | ASTM A126       |
| 10  | Identification Plate      | Aluminum        | -               |
| 11  | Handwheel Nut             | Stainless steel | ANSI 304        |

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# GTVB-(T/S)BZ2333

CRN



## Description

Class 150 bronze gate valve, non-rising stem, solid wedge, screwed-in bonnet, NPT or solder ends. CRN for all Canadian provinces and territories.

## Working Pressure

- 150 PSI Saturated Steam
- 300 PSI Non-Shock Cold Working Pressure (CWP)

## End Connection

- Solder
- Threaded (NPT)

## Standard

- Conforms to MSS SP-80

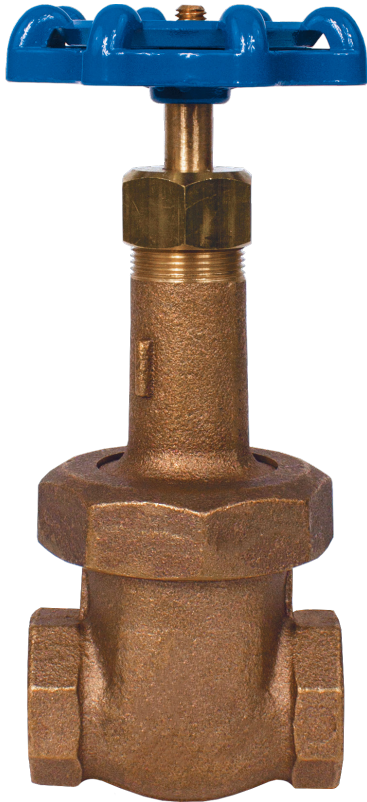
| DIMENSIONS |      |     |      |     |      |                  |      |                |      |                |      |        |      |
|------------|------|-----|------|-----|------|------------------|------|----------------|------|----------------|------|--------|------|
| SIZE<br>DN |      | A   |      | B   |      | C                |      |                |      | D              |      | WEIGHT |      |
|            |      |     |      |     |      | THREADED<br>ENDS |      | SOLDER<br>ENDS |      | SOLDER<br>ENDS |      |        |      |
| mm         | inch | mm  | inch | mm  | inch | mm               | inch | mm             | inch | mm             | inch | lb     | Kg   |
| 8          | 1/4" | 53  | 2.09 | 75  | 2.95 | 46               | 1.81 | 46             | 1.81 | 27             | 1.06 | 0.79   | 0.36 |
| 10         | 3/8" | 53  | 2.09 | 75  | 2.95 | 46               | 1.81 | 46             | 1.81 | 27             | 1.06 | 0.77   | 0.35 |
| 15         | 1/2" | 53  | 2.09 | 82  | 3.23 | 51               | 2.01 | 48             | 1.89 | 23             | 0.91 | 1.04   | 0.47 |
| 20         | 3/4" | 71  | 2.80 | 95  | 3.74 | 55               | 2.17 | 61             | 2.40 | 23             | 0.91 | 1.32   | 0.60 |
| 25         | 1"   | 71  | 2.80 | 118 | 4.65 | 63               | 2.48 | 73             | 2.87 | 27             | 1.06 | 2.03   | 0.92 |
| 32         | 1¼"  | 78  | 3.07 | 144 | 5.67 | 71               | 2.80 | 79             | 3.11 | 30             | 1.18 | 3.11   | 1.41 |
| 40         | 1½"  | 90  | 3.54 | 166 | 6.54 | 73               | 2.87 | 88             | 3.46 | 32             | 1.26 | 4.23   | 1.92 |
| 50         | 2"   | 108 | 4.25 | 190 | 7.48 | 83               | 3.27 | 105            | 4.13 | 37             | 1.46 | 6.00   | 2.72 |
| 65         | 2½"  | 150 | 5.91 | 235 | 9.25 | 108              | 4.25 | -              | -    | -              | -    | 12.39  | 5.62 |
| 80         | 3"   | 150 | 5.91 | 251 | 9.88 | 117              | 4.61 | -              | -    | -              | -    | 17.39  | 7.89 |

| MATERIAL SPECIFICATIONS |                           |                 |                 |
|-------------------------|---------------------------|-----------------|-----------------|
| NO.                     | PART NAME                 | MATERIAL        | STANDARD        |
| 1                       | Body                      | Bronze          | ASTM B62 C83600 |
| 2                       | Bonnet                    | Bronze          | ASTM B62 C83600 |
| 3                       | Stem                      | Bronze          | ASTM B62 C83600 |
| 4                       | Wedge                     | Bronze          | ASTM B62 C83600 |
| 5                       | Stuffing Box              | Brass           | B124 C37700     |
| 6                       | Packing Ring              | Graphite        | -               |
| 7                       | Gland                     | Brass           | B124 C37700     |
| 8                       | Packing Nut (2-1/2" & 3") | Bronze          | ASTM B62 C83600 |
|                         | Packing Nut (1/4" - 2")   | Brass           | B124 C37700     |
| 9                       | Handwheel                 | Cast Iron       | ASTM A126       |
| 10                      | Identification Plate      | Aluminum        | -               |
| 11                      | Handwheel Nut             | Stainless steel | ANSI 304        |

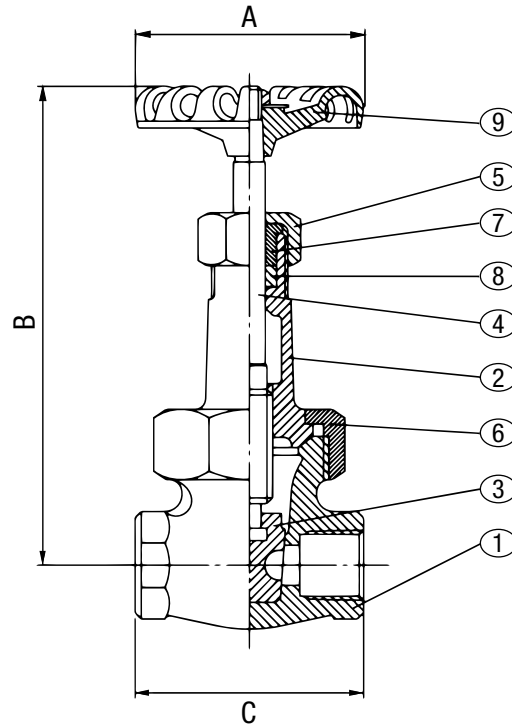
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# GTVA-TBZ3333U

**CRN**



**Threaded (NPT x NPT)**



## Description

Class 300 bronze gate valve, rising stem, solid wedge, union bonnet, NPT ends. CRN for all Canadian provinces and territories.

## Working Pressure

- 300 PSI Saturated Steam
- 1000 PSI Non-Shock Cold Working Pressure (CWP)

## End Connection

- Threaded (NPT)

## Standard

- Conforms to MSS SP-80

| DIMENSIONS |        |     |      |     |       |     |      |        |      |
|------------|--------|-----|------|-----|-------|-----|------|--------|------|
| SIZE<br>DN |        | A   |      | B   |       | C   |      | WEIGHT |      |
| mm         | inch   |     |      | mm  | inch  | mm  | inch | lb     | Kg   |
| 8          | 1/4"   | 55  | 2.17 | 126 | 4.96  | 54  | 2.13 | -      | -    |
| 10         | 3/8"   | 55  | 2.17 | 128 | 5.04  | 54  | 2.13 | 1.11   | 0.50 |
| 15         | 1/2"   | 63  | 2.48 | 162 | 6.38  | 60  | 2.36 | 2.10   | 0.95 |
| 20         | 3/4"   | 70  | 2.76 | 177 | 6.97  | 69  | 2.72 | 2.95   | 1.34 |
| 25         | 1"     | 90  | 3.54 | 211 | 8.31  | 80  | 3.15 | 4.34   | 1.97 |
| 32         | 1 1/4" | 90  | 3.54 | 248 | 9.76  | 94  | 3.70 | 6.87   | 3.12 |
| 40         | 1 1/2" | 100 | 3.94 | 282 | 11.10 | 105 | 4.13 | 9.54   | 4.34 |
| 50         | 2"     | 125 | 4.92 | 345 | 13.58 | 127 | 5.00 | 15.58  | 7.08 |

| MATERIAL SPECIFICATIONS |                            |          |                 |
|-------------------------|----------------------------|----------|-----------------|
| NO.                     | PART NAME                  | MATERIAL | STANDARD        |
| 1                       | Body                       | Bronze   | ASTM B61-C92200 |
| 2                       | Bonnet                     | Bronze   | ASTM B61-C92200 |
| 3                       | Wedge                      | Bronze   | ASTM B62 C83600 |
| 4                       | Stem                       | Bronze   | ASTM B62 C83600 |
| 5                       | Packing Nut (1/4"- 1-1/4") | Bronze   | ASTM B16-C36000 |
|                         | Packing Nut (1-1/2"- 2")   | Brass    | ASTM B62 C83600 |
| 6                       | Union Ring                 | Bronze   | ASTM B61-C92200 |
| 7                       | Gland                      | Bronze   | ASTM B16-C36000 |
| 8                       | Packing                    | Graphite | -               |
| 9                       | Handwheel                  | Aluminum | -               |

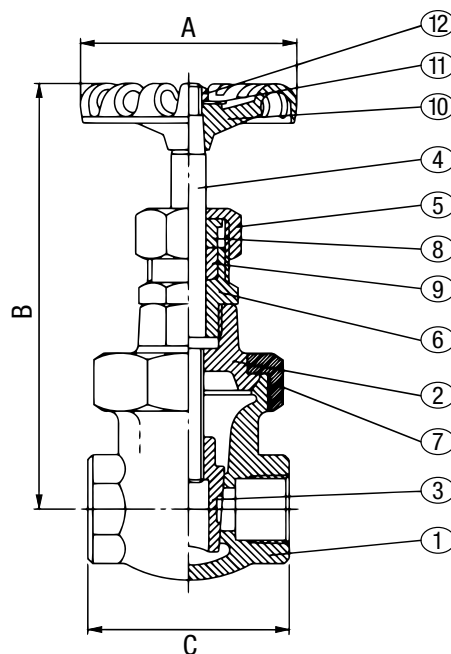
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# GTVB-TBZ3333U

**CRN**



**Threaded (NPT x NPT)**



## Description

Class 300 bronze gate valve, non-rising stem, solid wedge, union bonnet, NPT ends. CRN for all Canadian provinces and territories.

## Working Pressure

- 300 PSI Saturated Steam
- 1000 PSI Non-Shock Cold Working Pressure (CWP)

## End Connection

- Threaded (NPT)

## Standard

- Conforms to MSS SP-80

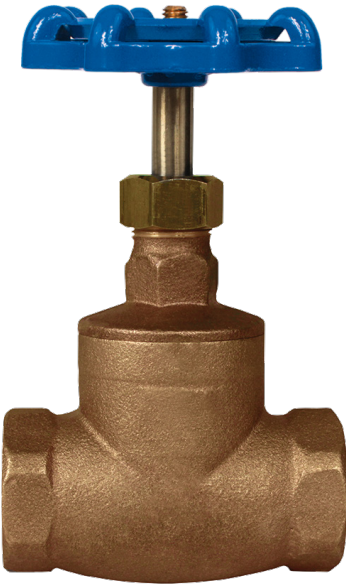
| DIMENSIONS |        |     |      |     |      |     |      |        |      |
|------------|--------|-----|------|-----|------|-----|------|--------|------|
| SIZE<br>DN |        | A   |      | B   |      | C   |      | WEIGHT |      |
| mm         | inch   | mm  | inch | mm  | inch | mm  | inch | lb     | Kg   |
| 8          | 1/4"   | 55  | 2.17 | 103 | 4.06 | 54  | 2.13 | -      | -    |
| 10         | 3/8"   | 55  | 2.17 | 103 | 4.06 | 54  | 2.13 | 1.11   | 0.50 |
| 15         | 1/2"   | 63  | 2.48 | 126 | 4.96 | 60  | 2.36 | 2.10   | 0.95 |
| 20         | 3/4"   | 70  | 2.76 | 144 | 5.67 | 69  | 2.72 | 2.95   | 1.34 |
| 25         | 1"     | 90  | 3.54 | 164 | 6.46 | 80  | 3.15 | 4.34   | 1.97 |
| 32         | 1 1/4" | 90  | 3.54 | 185 | 7.28 | 94  | 3.70 | 6.87   | 3.12 |
| 40         | 1 1/2" | 100 | 3.94 | 201 | 7.91 | 105 | 4.13 | 9.54   | 4.34 |
| 50         | 2"     | 125 | 4.92 | 236 | 9.29 | 127 | 5.00 | 15.58  | 7.08 |

| MATERIAL SPECIFICATIONS |                             |          |                 |
|-------------------------|-----------------------------|----------|-----------------|
| NO.                     | PART NAME                   | MATERIAL | STANDARD        |
| 1                       | Body                        | Bronze   | ASTM B61-C92200 |
| 2                       | Bonnet                      | Bronze   | ASTM B61-C92200 |
| 3                       | Wedge                       | Bronze   | ASTM B62 C83600 |
| 4                       | Stem                        | Bronze   | ASTM B62 C83600 |
| 5                       | Packing Nut (1/4"- 1-1/4")  | Bronze   | ASTM B16-C36000 |
|                         | Packing Nut (1-1/2"- 2")    | Bronze   | ASTM B62 C83600 |
| 6                       | Stuffing Box (1/4"- 1-1/4") | Bronze   | ASTM B16-C36000 |
|                         | Stuffing Box (1-1/2"- 2")   | Bronze   | ASTM B62 C83600 |
| 7                       | Union Ring                  | Bronze   | ASTM B61-C92200 |
| 8                       | Gland                       | Bronze   | ASTM B16-C36000 |
| 9                       | Packing                     | Graphite | -               |
| 10                      | Handwheel                   | Aluminum | -               |
| 11                      | Name Plate                  | Aluminum | -               |

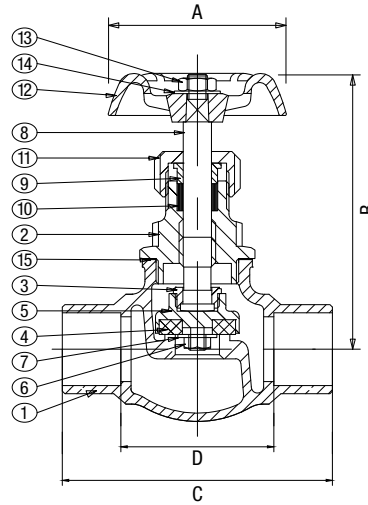
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## GLBA-(T/S)BZ2360

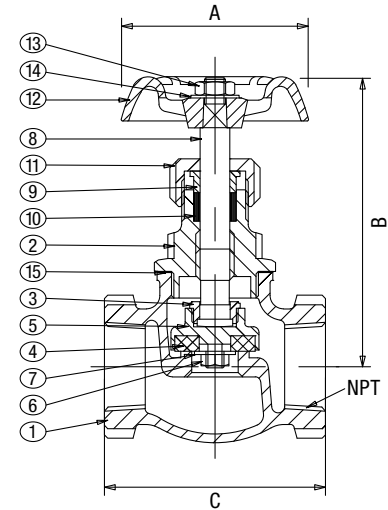
CRN



Solder (C x C)



Threaded (NPT x NPT)



## Description

Class 150 bronze globe valve, PTFE renewable disc, integral seat, screwed-in bonnet, NPT or solder ends. CRN for all Canadian provinces and territories

## Working Pressure

- 150 PSI Saturated Steam
- 300 PSI Non-Shock Cold Working Pressure (CWP)

## End Connection

- Solder
- Threaded (NPT)

## Standard

- Conforms to MSS SP-80

## DIMENSIONS

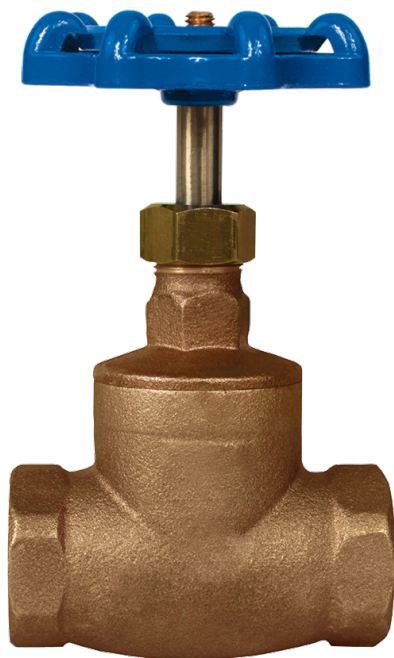
| SIZE<br>DN |        | A   |      | B   |       | C   |      | D   |      | WEIGHT |       |
|------------|--------|-----|------|-----|-------|-----|------|-----|------|--------|-------|
| mm         | inch   | mm  | inch | mm  | inch  | mm  | inch | mm  | inch | lb     | Kg    |
| 8          | 1/4"   | 53  | 2.09 | 100 | 3.94  | 52  | 2.05 | -   | -    | 0.88   | 0.40  |
| 10         | 3/8"   | 53  | 2.09 | 100 | 3.94  | 52  | 2.05 | -   | -    | 0.86   | 0.39  |
| 15         | 1/2"   | 53  | 2.09 | 101 | 3.98  | 62  | 2.44 | 52  | 2.05 | 1.19   | 0.54  |
| 20         | 3/4"   | 71  | 2.80 | 115 | 4.53  | 74  | 2.91 | 60  | 2.36 | 1.43   | 0.65  |
| 25         | 1"     | 78  | 3.07 | 125 | 4.92  | 90  | 3.54 | 72  | 2.83 | 1.98   | 0.90  |
| 32         | 1 1/4" | 78  | 3.07 | 150 | 5.91  | 100 | 3.94 | 80  | 3.15 | 3.48   | 1.58  |
| 40         | 1 1/2" | 97  | 3.82 | 159 | 6.26  | 115 | 4.53 | 93  | 3.66 | 4.54   | 2.06  |
| 50         | 2"     | 108 | 4.25 | 191 | 7.52  | 136 | 5.35 | 114 | 4.49 | 7.30   | 3.31  |
| 65         | 2 1/2" | 150 | 5.91 | 220 | 8.66  | 166 | 6.54 | -   | -    | 96.80  | 5.90  |
| 80         | 3"     | 198 | 7.80 | 255 | 10.04 | 190 | 7.48 | -   | -    | 110.20 | 10.30 |

## MATERIAL SPECIFICATIONS

| NO. | PART NAME                     | MATERIAL        | STANDARD        |
|-----|-------------------------------|-----------------|-----------------|
| 1   | Body                          | Bronze          | ASTM B62 C83600 |
| 2   | Bonnet                        | Bronze          | ASTM B62 C83600 |
| 3   | Disc Stem Ring                | Brass           | B124 C37700     |
| 4   | Disc Ring                     | PTFE            | -               |
| 5   | Disc Holder                   | Bronze          | ASTM B62 C83600 |
| 6   | Nut                           | Bronze          | ASTM B62 C83600 |
| 7   | Washer (Sizes 1/4" - 2" only) | Brass           | B124 C37700     |
| 8   | Stem                          | Brass           | B124 C37700     |
| 9   | Gland                         | Brass           | B124 C37700     |
| 10  | Packing                       | Graphite        | -               |
| 11  | Packing Nut (1/4" - 2")       | Brass           | B124 C37700     |
|     | Packing Nut (2-1/2" - 3")     | Bronze          | ASTM B62 C83600 |
| 12  | Handwheel                     | Cast Iron       | ASTM A126       |
| 13  | Handwheel Nut                 | Brass           | B124 C37700     |
| 14  | Identification Plate          | Aluminum        | -               |
| 15  | Gasket (2 1/2")               | Graphite        | -               |
|     | Gasket (3")                   | Stainless Steel | ANSI 304        |

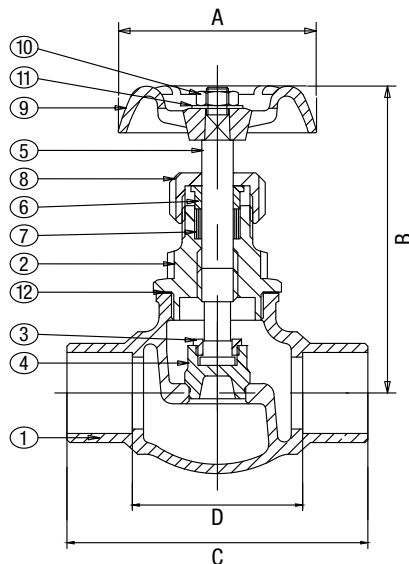
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# GLBA-(T/S)BZ2330

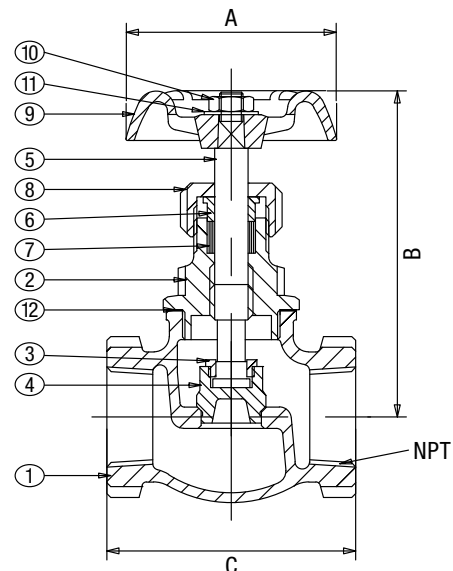


**CRN**

**Solder (C x C)**



**Threaded (NPT x NPT)**



## Description

Class 150 bronze globe valve, renewable metal disc, integral seat, screwed-in bonnet, NPT or solder ends. CRN for all Canadian provinces and territories.

## Working Pressure

- 150 PSI Saturated Steam
- 300 PSI Non-Shock Cold Working Pressure (CWP)

## End Connection

- Solder
- Threaded (NPT)

## Standard

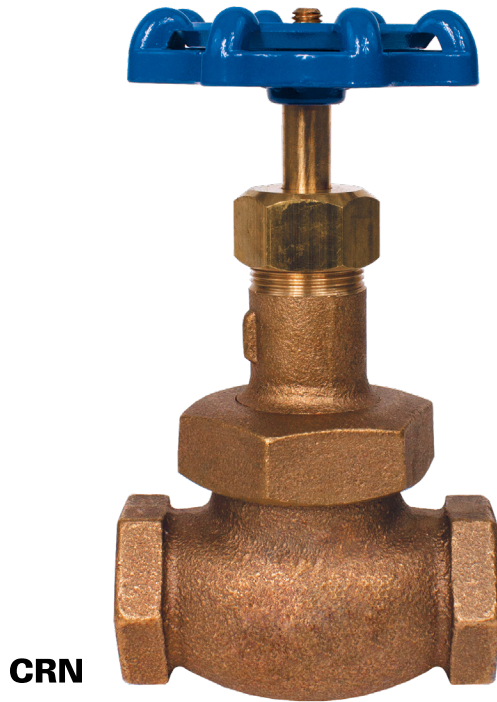
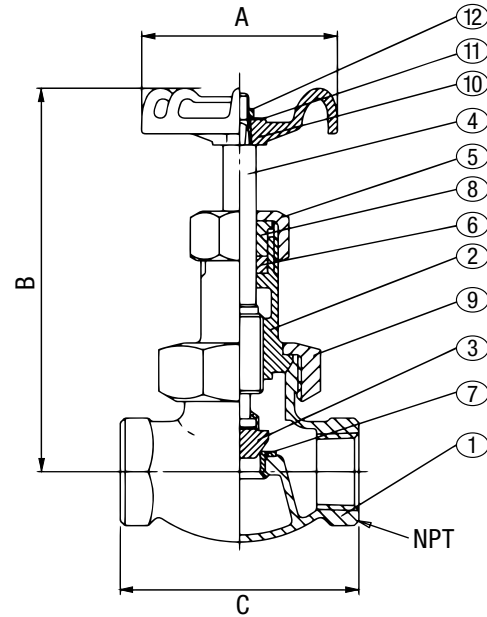
- Conforms to MSS SP-80

| DIMENSIONS |        |     |      |     |       |     |      |     |      |        |       |
|------------|--------|-----|------|-----|-------|-----|------|-----|------|--------|-------|
| SIZE<br>DN |        | A   |      | B   |       | C   |      | D   |      | WEIGHT |       |
| mm         | inch   | mm  | inch | mm  | inch  | mm  | inch | mm  | inch | lb     | Kg    |
| 8          | 1/4"   | 53  | 2.09 | 100 | 3.94  | 52  | 2.05 | -   | -    | 0.88   | 0.40  |
| 10         | 3/8"   | 53  | 2.09 | 100 | 3.94  | 52  | 2.05 | -   | -    | 0.86   | 0.39  |
| 15         | 1/2"   | 53  | 2.09 | 101 | 3.98  | 62  | 2.44 | 52  | 2.05 | 1.19   | 0.54  |
| 20         | 3/4"   | 71  | 2.80 | 115 | 4.53  | 74  | 2.91 | 60  | 2.36 | 1.43   | 0.65  |
| 25         | 1"     | 78  | 3.07 | 125 | 4.92  | 90  | 3.54 | 72  | 2.83 | 1.98   | 0.90  |
| 32         | 1 1/4" | 78  | 3.07 | 150 | 5.91  | 100 | 3.94 | 80  | 3.15 | 3.48   | 1.58  |
| 40         | 1 1/2" | 97  | 3.82 | 159 | 6.26  | 115 | 4.53 | 93  | 3.66 | 4.54   | 2.06  |
| 50         | 2"     | 108 | 4.25 | 191 | 7.52  | 136 | 5.35 | 114 | 4.49 | 7.30   | 3.31  |
| 65         | 2 1/2" | 150 | 5.91 | 220 | 8.66  | 166 | 6.54 | -   | -    | 96.80  | 5.90  |
| 80         | 3"     | 198 | 7.80 | 255 | 10.04 | 190 | 7.48 | -   | -    | 110.20 | 10.30 |

| MATERIAL SPECIFICATIONS |                            |                 |                 |
|-------------------------|----------------------------|-----------------|-----------------|
| NO.                     | PART NAME                  | MATERIAL        | STANDARD        |
| 1                       | Body                       | Bronze          | ASTM B62 C83600 |
| 2                       | Bonnet                     | Bronze          | ASTM B62 C83600 |
| 3                       | Disc Stem Ring             | Brass           | B124 C37700     |
| 4                       | Disc                       | Bronze          | ASTM B62 C83600 |
| 5                       | Stem                       | Brass           | B124 C37700     |
| 6                       | Gland                      | Brass           | B124 C37700     |
| 7                       | Packing                    | Graphite        | -               |
| 8                       | Packing Nut (1/4"- 2-1/2") | Brass           | B124 C37700     |
|                         | Packing Nut ( 3")          | Bronze          | ASTM B62 C83600 |
| 9                       | Handwheel                  | Cast Iron       | ASTM A126       |
| 10                      | Handwheel Nut              | Brass           | B124 C37700     |
| 11                      | Identification Plate       | Aluminum        | -               |
| 12                      | Gasket (2 1/2")            | Graphite        | -               |
|                         | Gasket (3")                | Stainless Steel | ANSI 304        |

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# GLBA-TBZ3443U

**Threaded (NPT x NPT)**

## Description

Class 300 bronze globe valve, renewable stainless steel disc and seat ring, union bonnet, NPT ends. CRN for all Canadian provinces and territories.

## Working Pressure

- 300 PSI Saturated Steam
- 1000 PSI Non-Shock Cold Working Pressure (CWP)

## End Connection

- Threaded (NPT)

## Standard

- Conforms to MSS SP-80

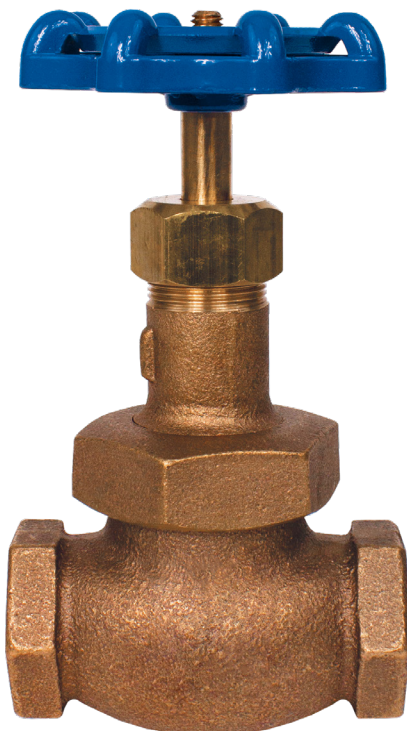
| DIMENSIONS |        |     |      |     |      |     |      |        |      |
|------------|--------|-----|------|-----|------|-----|------|--------|------|
| SIZE<br>DN |        | A   |      | B   |      | C   |      | WEIGHT |      |
| mm         | inch   | mm  | inch | mm  | inch | mm  | inch | lb     | Kg   |
| 10         | 3/8"   | 63  | 2.48 | 117 | 4.61 | 60  | 2.36 | 1.18   | 0.54 |
| 15         | 1/2"   | 63  | 2.48 | 131 | 5.16 | 67  | 2.64 | 1.55   | 0.70 |
| 20         | 3/4"   | 80  | 3.15 | 146 | 5.75 | 81  | 3.19 | 2.31   | 1.05 |
| 25         | 1"     | 90  | 3.54 | 161 | 6.34 | 96  | 3.78 | 3.78   | 1.72 |
| 32         | 1 1/4" | 100 | 3.94 | 178 | 7.01 | 108 | 4.25 | 5.20   | 2.36 |
| 40         | 1 1/2" | 110 | 4.33 | 201 | 7.91 | 121 | 4.76 | 7.45   | 3.39 |
| 50         | 2"     | 125 | 4.92 | 233 | 9.17 | 145 | 5.71 | 12.52  | 5.69 |

| MATERIAL SPECIFICATIONS |                             |                 |                 |
|-------------------------|-----------------------------|-----------------|-----------------|
| NO.                     | PART NAME                   | MATERIAL        | STANDARD        |
| 1                       | Body                        | Bronze          | ASTM B61-C92200 |
| 2                       | Bonnet                      | Bronze          | ASTM B61-C92200 |
| 3                       | Disc                        | Stainless Steel | -               |
| 4                       | Stem                        | Bronze          | ASTM B62 C83600 |
| 5                       | Packing Nut (1/4" - 1-1/4") | Bronze          | ASTM B16-C36000 |
|                         | Packing Nut (1-1/2" - 2")   | Bronze          | ASTM B62 C83600 |
| 6                       | Packing                     | Graphite        | -               |
| 7                       | Seat Ring                   | Stainless Steel | -               |
| 8                       | Gland                       | Bronze          | ASTM B16-C36000 |
| 9                       | Union Ring                  | Bronze          | ASTM B61-C92200 |
| 10                      | Handwheel                   | Aluminum        | -               |
| 11                      | Name Plate                  | Aluminum        | -               |
| 12                      | Handwheel Nut               | Steel           | -               |

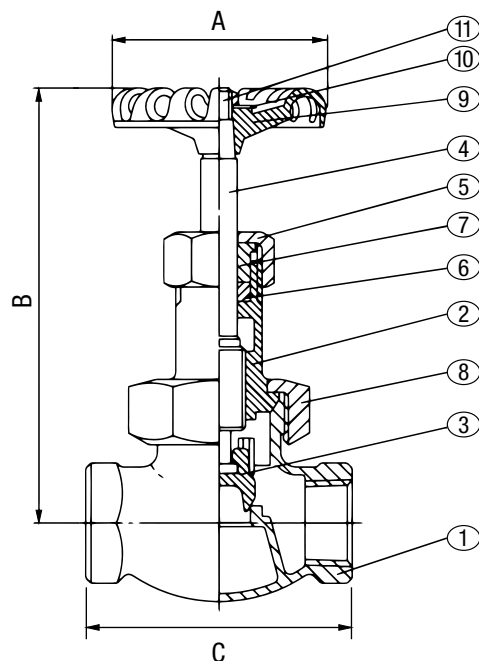
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# GLBA-TBZ3333U

**CRN**



**Threaded (NPT x NPT)**



## Description

Class 300 bronze globe valve, renewable metal disc, integral seat, union bonnet, NPT ends. CRN for all Canadian provinces and territories.

## Working Pressure

- 300 PSI Saturated Steam
- 1000 PSI Non-Shock Cold Working Pressure (CWP)

## End Connection

- Threaded (NPT)

## Standard

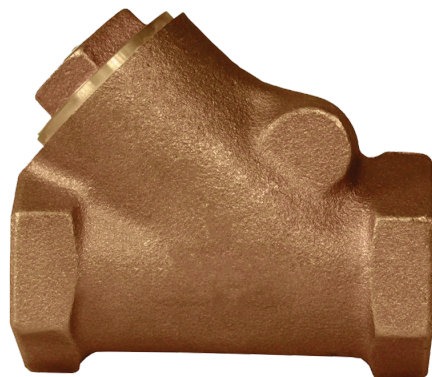
- Conforms to MSS SP-80

| DIMENSIONS |        |     |      |     |      |     |      |        |      |
|------------|--------|-----|------|-----|------|-----|------|--------|------|
| SIZE<br>DN |        | A   |      | B   |      | C   |      | WEIGHT |      |
| mm         | inch   | mm  | inch | mm  | inch | mm  | inch | lb     | Kg   |
| 8          | 1/4"   | 55  | 2.17 | 106 | 4.17 | 55  | 2.17 | -      | -    |
| 10         | 3/8"   | 63  | 2.48 | 125 | 4.92 | 60  | 2.36 | 1.18   | 0.54 |
| 15         | 1/2"   | 63  | 2.48 | 131 | 5.16 | 67  | 2.64 | 1.55   | 0.70 |
| 20         | 3/4"   | 70  | 2.76 | 146 | 5.75 | 81  | 3.19 | 2.31   | 1.05 |
| 25         | 1"     | 80  | 3.15 | 160 | 6.30 | 96  | 3.78 | 3.78   | 1.72 |
| 32         | 1 1/4" | 90  | 3.54 | 177 | 6.97 | 108 | 4.25 | 5.20   | 2.36 |
| 40         | 1 1/2" | 110 | 4.33 | 204 | 8.03 | 121 | 4.76 | 7.45   | 3.39 |
| 50         | 2"     | 125 | 4.92 | 236 | 9.29 | 145 | 5.71 | 12.52  | 5.69 |

| MATERIAL SPECIFICATIONS |                            |          |                 |
|-------------------------|----------------------------|----------|-----------------|
| NO.                     | PART NAME                  | MATERIAL | STANDARD        |
| 1                       | Body                       | Bronze   | ASTM B61-C92200 |
| 2                       | Bonnet                     | Bronze   | ASTM B61-C92200 |
| 3                       | Disc                       | Bronze   | ASTM B62 C83600 |
| 4                       | Stem                       | Bronze   | ASTM B62 C83600 |
| 5                       | Packing Nut (1/4"- 1-1/4") | Bronze   | ASTM B16-C36000 |
|                         | Packing Nut (1-1/2"- 2")   | Bronze   | ASTM B62 C83600 |
| 6                       | Packing                    | Graphite | -               |
| 7                       | Gland                      | Bronze   | ASTM B16-C36000 |
| 8                       | Union Ring                 | Bronze   | ASTM B61-C92200 |
| 9                       | Handwheel                  | Aluminum | -               |
| 10                      | Name Plate                 | Aluminum | -               |
| 11                      | Handwheel Nut              | Steel    | -               |

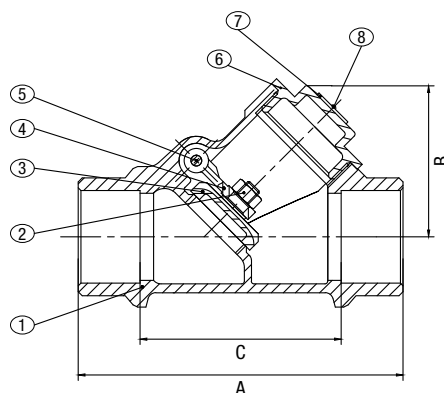
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# CKVA-(T/S)BZ2331

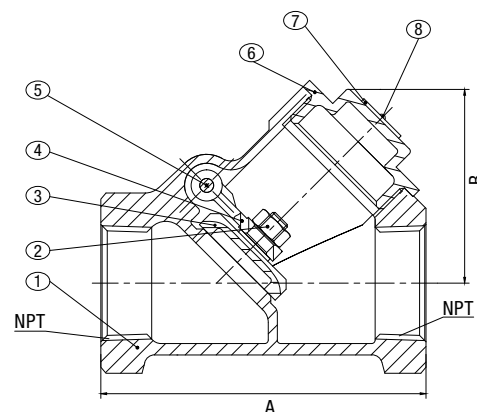


**CRN**

**Solder (C x C)**



**Threaded (NPT x NPT)**



## Description

Class 150 bronze swing check valve, Y-pattern design, regrindable integral seat, bronze disc, NPT or solder ends. CRN for all Canadian provinces and territories.

## Working Pressure

- 150 PSI Saturated Steam
- 300 PSI Non-Shock Cold Working Pressure (CWP)

## End Connection

- Solder
- Threaded (NPT)

## Standard

- Conforms to MSS SP-80

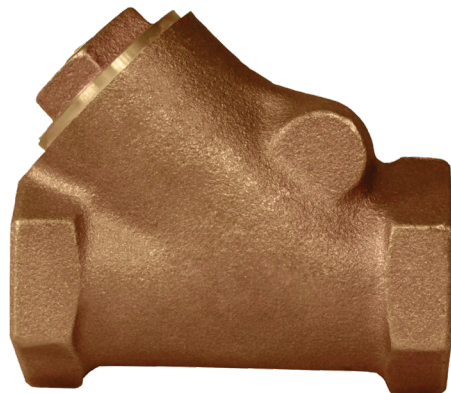
- Install 5 pipe diameters minimum downstream from pump discharge or change in direction to avoid flow turbulence.
- May be installed in both horizontal and vertical position with upward flow or in any intermediate position.
- Warning: DO NOT use for reciprocating Air Compressor Service.

| DIMENSIONS |      |                  |      |             |      |     |      |             |      |        |      |
|------------|------|------------------|------|-------------|------|-----|------|-------------|------|--------|------|
| SIZE<br>DN |      | A                |      |             |      | B   |      | C           |      | WEIGHT |      |
|            |      | THREADED<br>ENDS |      | SOLDER ENDS |      |     |      | SOLDER ENDS |      |        |      |
| mm         | inch | mm               | inch | mm          | inch | mm  | inch | mm          | inch | lb     | Kg   |
| 8          | 1/4" | 54               | 2.13 | 60          | 2.36 | 37  | 1.46 | 44          | 1.73 | 0.57   | 0.26 |
| 10         | 3/8" | 54               | 2.13 | 63          | 2.48 | 37  | 1.46 | 44          | 1.73 | 0.50   | 0.25 |
| 15         | 1/2" | 62               | 2.44 | 75          | 2.95 | 43  | 1.69 | 50          | 1.97 | 0.86   | 0.39 |
| 20         | 3/4" | 76               | 2.99 | 98          | 3.86 | 52  | 2.05 | 60          | 2.36 | 1.36   | 0.62 |
| 25         | 1"   | 94               | 3.70 | 126         | 4.96 | 65  | 2.56 | 80          | 3.15 | 2.35   | 1.07 |
| 32         | 1¼"  | 110              | 4.33 | 139         | 5.47 | 76  | 2.99 | 90          | 3.54 | 3.35   | 1.65 |
| 40         | 1½"  | 126              | 4.96 | 156         | 6.14 | 89  | 3.50 | 100         | 3.94 | 5.63   | 2.56 |
| 50         | 2"   | 152              | 5.98 | 190         | 7.48 | 108 | 4.25 | 122         | 4.80 | 8.91   | 4.05 |
| 65         | 2½"  | 186              | 7.32 | 220         | 8.66 | 134 | 5.28 | 145         | 5.71 | 14.08  | 6.40 |
| 80         | 3"   | 218              | 8.58 | 251.2       | 9.89 | 160 | 6.30 | 166         | 6.54 | 20.46  | 9.30 |

| MATERIAL SPECIFICATIONS |           |                       |                 |
|-------------------------|-----------|-----------------------|-----------------|
| NO.                     | PART NAME | MATERIAL              | STANDARD        |
| 1                       | Body      | Bronze                | ASTM B62 C83600 |
| 2                       | Nut       | Stainless Steel       | ANSI 304        |
| 3                       | Disc      | Bronze                | ASTM B62 C83600 |
| 4                       | Hinge     | Bronze                | ASTM B62 C83600 |
| 5                       | Hinge Pin | Stainless Steel       | ANSI 304        |
| 6                       | Cap       | Bronze                | ASTM B62 C83600 |
| 7                       | ID Plate  | Aluminum              | -               |
| 8                       | Drive Pin | Steel-Electro Brassed | -               |

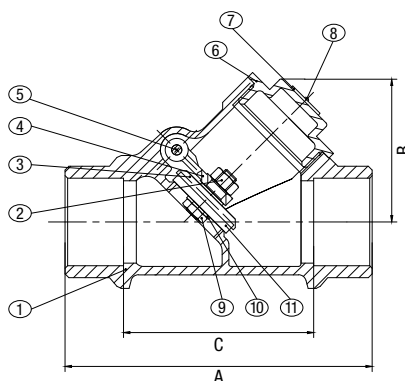
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# CKVA-(T/S)BZ2361

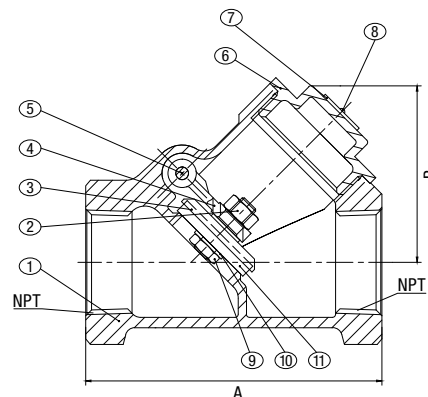


**CRN**

**Solder (C x C)**



**Threaded (NPT x NPT)**



## Description

Class 150 bronze swing check valve, Y-pattern design, regrindable integral seat, PTFE disc, NPT or solder ends. CRN for all Canadian provinces and territories.

## Working Pressure

- 150 PSI Saturated Steam
- 300 PSI Non-Shock Cold Working Pressure (CWP)

## End Connection

- Solder
- Threaded (NPT)

## Standard

- Conforms to MSS SP-80

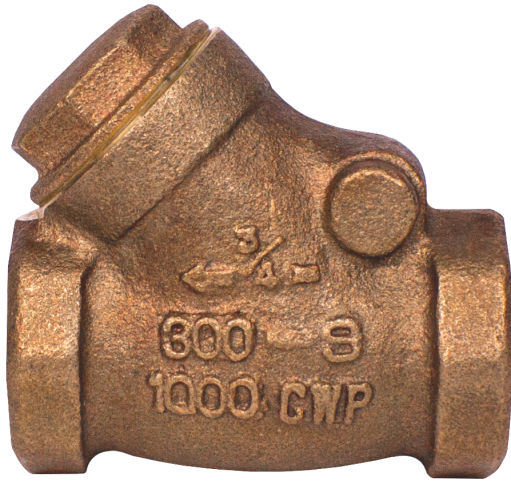
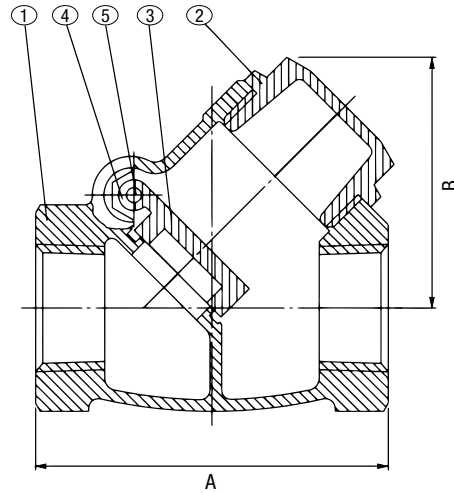
- Install 5 pipe diameters minimum down downstream from pump discharge or change in direction to avoid flow turbulence.
- May be installed in both horizontal and vertical position with upward flow or in any intermediate position.
- **Warning: DO NOT use for reciprocating Air Compressor Service.**

| DIMENSIONS |      |                  |      |             |      |     |      |             |      |        |      |
|------------|------|------------------|------|-------------|------|-----|------|-------------|------|--------|------|
| SIZE<br>DN |      | A                |      |             |      | B   |      | C           |      | WEIGHT |      |
|            |      | THREADED<br>ENDS |      | SOLDER ENDS |      |     |      | SOLDER ENDS |      |        |      |
| mm         | inch | mm               | inch | mm          | inch | mm  | inch | mm          | inch | lb     | Kg   |
| 8          | 1/4" | 54               | 2.13 | 60          | 2.36 | 37  | 1.46 | 44          | 1.73 | 0.57   | 0.26 |
| 10         | 3/8" | 54               | 2.13 | 63          | 2.48 | 37  | 1.46 | 44          | 1.73 | 0.50   | 0.25 |
| 15         | 1/2" | 62               | 2.44 | 75          | 2.95 | 43  | 1.69 | 50          | 1.97 | 0.86   | 0.39 |
| 20         | 3/4" | 76               | 2.99 | 98          | 3.86 | 52  | 2.05 | 60          | 2.36 | 1.36   | 0.62 |
| 25         | 1"   | 94               | 3.70 | 126         | 4.96 | 65  | 2.56 | 80          | 3.15 | 2.35   | 1.07 |
| 32         | 1¼"  | 110              | 4.33 | 139         | 5.47 | 76  | 2.99 | 90          | 3.54 | 3.35   | 1.65 |
| 40         | 1½"  | 126              | 4.96 | 156         | 6.14 | 89  | 3.50 | 100         | 3.94 | 5.63   | 2.56 |
| 50         | 2"   | 152              | 5.98 | 190         | 7.48 | 108 | 4.25 | 122         | 4.80 | 8.91   | 4.05 |
| 65         | 2½"  | 186              | 7.32 | 220         | 8.66 | 134 | 5.28 | 145         | 5.71 | 14.08  | 6.40 |
| 80         | 3"   | 218              | 8.58 | 251.2       | 9.89 | 160 | 6.30 | 166         | 6.54 | 20.46  | 9.30 |

| MATERIAL SPECIFICATIONS |             |                      |                 |
|-------------------------|-------------|----------------------|-----------------|
| NO.                     | PART NAME   | MATERIAL             | STANDARD        |
| 1                       | Body        | Bronze               | ASTM B62 C83600 |
| 2                       | Nut         | Brass                | ASTM B16 C36000 |
| 3                       | Disc Holder | Bronze               | ASTM B62 C83600 |
| 4                       | Hinge       | Bronze               | ASTM B62 C83600 |
| 5                       | Hinge Pin   | Stainless Steel      | ANSI 304        |
| 6                       | Cap         | Bronze               | ASTM B62 C83600 |
| 7                       | ID Plate    | Aluminum             | -               |
| 8                       | Drive Pin   | Steel-ElectroBrassed | -               |
| 9                       | Nut         | Brass                | ASTM B16 C36000 |
| 10                      | Washer      | Brass                | B124 C37700     |
| 11                      | Disc        | PTFE                 | -               |

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# CKVA-TBZ3330

**CRN****Threaded (NPT x NPT)**

## Description

Class 300 bronze swing check valve, Y-pattern design, regrindable integral seat, bronze disc, NPT ends. CRN for all Canadian provinces and territories.

## Working Pressure

- 300 PSI Saturated Steam
- 1000 PSI Non-Shock Cold Working Pressure (CWP)

## End Connection

- Threaded (NPT)

## Standard

- Conforms to MSS SP-80

- Install 5 pipe diameters minimum down downstream from pump discharge or change in direction to avoid flow turbulence.
- May be installed in both horizontal and vertical position with upward flow or in any intermediate position.
- **Warning: DO NOT use for reciprocating Air Compressor Service.**

### DIMENSIONS

| SIZE<br>DN |        | A   |      | B   |      | WEIGHT |      |
|------------|--------|-----|------|-----|------|--------|------|
| mm         | inch   | mm  | inch | mm  | inch | lb     | Kg   |
| 8          | 1/4"   | 55  | 2.17 | 40  | 1.57 | -      | -    |
| 10         | 3/8"   | 55  | 2.17 | 40  | 1.57 | -      | -    |
| 15         | 1/2"   | 64  | 2.52 | 45  | 1.77 | 0.77   | 0.35 |
| 20         | 3/4"   | 73  | 2.87 | 50  | 1.97 | 1.17   | 0.53 |
| 25         | 1"     | 89  | 3.50 | 65  | 2.56 | 1.98   | 0.90 |
| 32         | 1 1/4" | 112 | 4.41 | 78  | 3.07 | 3.92   | 1.78 |
| 40         | 1 1/2" | 118 | 4.65 | 88  | 3.46 | 4.39   | 2.00 |
| 50         | 2"     | 147 | 5.79 | 113 | 4.45 | 8.53   | 3.88 |

### MATERIAL SPECIFICATIONS

| NO. | PART NAME | MATERIAL | STANDARD        |
|-----|-----------|----------|-----------------|
| 1   | Body      | Bronze   | ASTM B61-C92200 |
| 2   | Bonnet    | Bronze   | ASTM B61-C92200 |
| 3   | Disc      | Bronze   | ASTM B62 C83600 |
| 4   | Plug      | Bronze   | ASTM B16-C36000 |
| 5   | Hing Pin  | Bronze   | ASTM B16-C36000 |

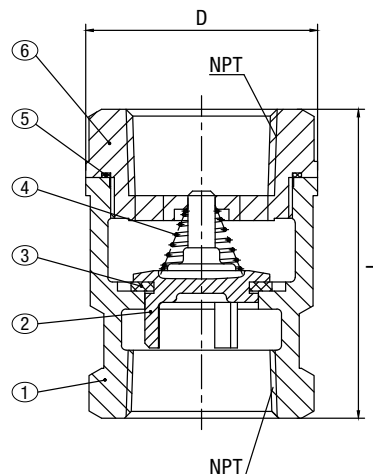
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# CKVB-TBZ2373/2363

**CRN**



**Threaded (NPT x NPT)**



## Description

Class 150 bronze in-line lift check valve, Buna-N (BZ2373) or PTFE (BZ2363) disc, integral seat, stainless steel spring, NPT ends. CRN for all Canadian provinces and territories.

## Working Pressure

- 150 PSI Saturated Steam (PTFE seat model only)
- 300 PSI Non-Shock Cold Working Pressure (CWP)

## End Connection

- Threaded (NPT)

## Standard

- Conforms to MSS SP-80

- Install 5 pipe diameters minimum down downstream from pump discharge or change in direction to avoid flow turbulence.
- May be installed in both horizontal and vertical position with upward flow or in any intermediate position.
- **Warning: DO NOT use for reciprocating Air Compressor Service.**

| DIMENSIONS |      |    |      |                  |      |             |      |             |      |        |      |
|------------|------|----|------|------------------|------|-------------|------|-------------|------|--------|------|
| SIZE<br>DN |      | D  |      | L                |      |             |      | B           |      | WEIGHT |      |
|            |      |    |      | THREADED<br>ENDS |      | SOLDER ENDS |      | SOLDER ENDS |      |        |      |
| mm         | inch | mm | inch | mm               | inch | mm          | inch | mm          | inch | lb     | Kg   |
| 15         | 1/2" | 33 | 1.30 | 53               | 2.09 | 65          | 2.56 | 40          | 1.57 | 0.42   | 0.19 |
| 20         | 3/4" | 41 | 1.61 | 60               | 2.36 | 80          | 3.15 | 42          | 1.65 | 0.64   | 0.29 |
| 25         | 1"   | 48 | 1.89 | 68               | 2.68 | 90          | 3.54 | 44          | 1.73 | 0.99   | 0.45 |
| 32         | 1¼"  | 58 | 2.28 | 79               | 3.11 | 100         | 3.94 | 51          | 2.01 | 1.46   | 0.66 |
| 40         | 1½"  | 70 | 2.76 | 85               | 3.35 | 115         | 4.53 | 59          | 2.32 | 1.98   | 0.90 |
| 50         | 2"   | 82 | 3.23 | 98               | 3.86 | 138         | 5.43 | 70          | 2.76 | 3.31   | 1.50 |

| MATERIAL SPECIFICATIONS |             |                 |                 |
|-------------------------|-------------|-----------------|-----------------|
| NO.                     | PART NAME   | MATERIAL        | STANDARD        |
| 1                       | Body        | Bronze          | ASTM B62 C83600 |
| 2                       | Disc Holder | Bronze          | ASTM B62 C83600 |
| 3                       | Seat Ring   | NBR / PTFE      | -               |
| 4                       | Spring      | Stainless Steel | ANSI 304        |
| 5                       | Gasket      | PTFE            | -               |
| 6                       | Bonnet      | Bronze          | ASTM B62 C83600 |

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# Commercial Butterfly Valve Index



C1546353



C1546355



B1546353



B1546355

## Code Index

06 | C | 1 | 5 | 4 | 6 | 3 | 5 | 3

- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>1 Size</b><br/>02 - 2"; 25 - 2 1/2"; 03 - 3"; 04 - 4"; 06 - 6"; 08 - 8";<br/>10 - 10"; 12 - 12"</p> <p><b>2 Body Style</b><br/>A - Wafer (ANSI 125/150); B - Wafer (ANSI 125 / 150)<br/>(PN10 / PN16); C - Lug (ANSI 125 / 150);<br/>D - Double Flanged</p> <p><b>3 Body Material</b><br/>1 - Cast Iron (A216B); 2 - Ductile Iron (A395);<br/>3 - Carbon Steel; 4 - 316SS (A315CF8M)</p> <p><b>4 Pressure Rating</b><br/>2 - 285 PSI; 3 - 275 PSI; 4 - 250 PSI; 5 - 200 PSI;<br/>8 - 125 PSI</p> <p><b>5 Disc Material</b><br/>2 - Nickel Plated Ductile Iron; 3 - Aluminium Bronze;<br/>4 - 316SS (A351CF8M); 5 - Alloy 20; 6 - Monel;<br/>7 - Hastelloy C; 8 - Nylon Coated Ductile Iron;<br/>9 - PTFE Coated 316SS</p> | <p><b>6 Shaft Material</b><br/>1 - 416SS/413SS; 4 - 316SS; 5 - 17-4PH SS;<br/>6 - 416SS</p> <p><b>7 Bushing Material</b><br/>0 - Bronze; 3 - PTFE; 4 - RTFE+316SS</p> <p><b>8 Seat/Liner</b><br/>1 - Buna-N; 4 - EPDM (NSF61 ); 5 - EPDM; 6 - Viton;<br/>7 - RTFE; 8 - Hypalon; 9 - EPDM backed PTFE</p> <p><b>9 Actuator</b><br/>3 - Lever Handle; 5 - Gear Operator;<br/>6 - Pneumatic Actuator; 9 - Electric Actuator;<br/>C - Buried Gear / 2" Nut; U - Chain Wheel;<br/>X - Bear Shift;</p> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

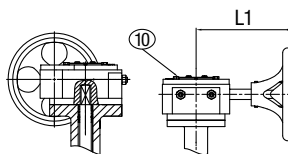
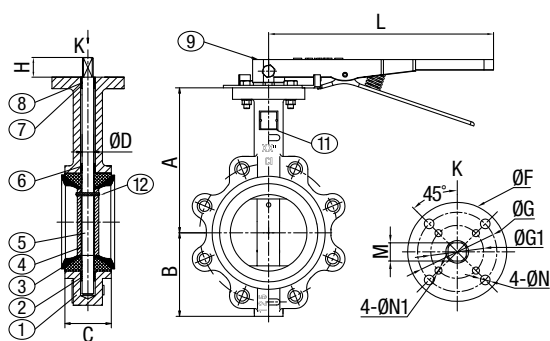
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# C154635(3/5)

Lever Handle



Gear Operator



## MATERIAL SPECIFICATIONS

| NO. | PART NAME     | QTY | STANDARD             |
|-----|---------------|-----|----------------------|
| 1   | Body          | 1   | ASTM A126 B          |
| 2   | Lower Bushing | 1   | PTFE                 |
| 3   | Seat Ring     | 1   | EPDM                 |
| 4   | Disc          | 1   | ASTM A351 CF8M       |
| 5   | Stem          | 1   | ASTM A582 TYPE 416   |
| 6   | Bushing I     | 1   | PTFE                 |
| 7   | Bushing II    | 2   | PTFE                 |
| 8   | O-Ring        | 1   | NBR                  |
| 9   | Lever         | 1   | -                    |
| 10  | Gear Box      | 1   | -                    |
| 11  | Name Plate    | 1   | SS304                |
| 12  | Pin           | 1   | ASTM A276 TYPE SS316 |

**CRN**

## Description

200 PSI cast iron body lug style butterfly valves are manufactured with a 316 stainless steel disc and a 416 stainless steel stem. Lever operated (2"- 8") and gear operated (6"-12"). The lever handle is lockable.

## Working Pressure

- 125S, 200 WOG
- 2"-12" 200 PSI
- 14"-24" 150 PSI

## Face to Face Dimensions

- MSS-SP-67-W1/W2

## Standard

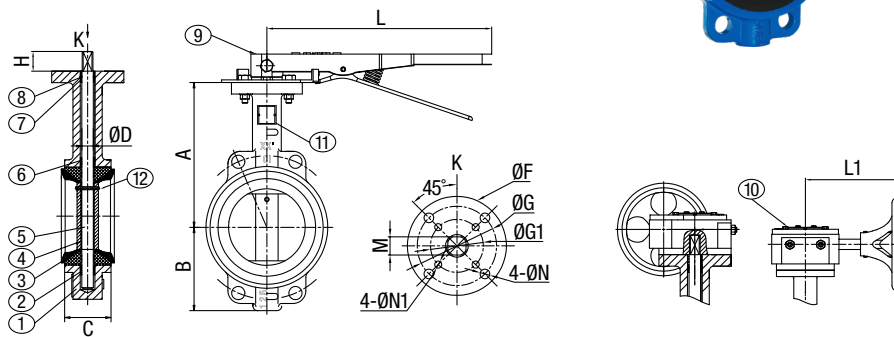
- Conforms to MSS SP-67

## DIMENSIONS

| SIZE | A     | B     | C    | H    | ØF   | ØG   | 4-ØN | ØG1  | 4-ØN1 | ØD   | M    | L     | L1    | WEIGHT (LEVER<br>OPERATED)<br>LB KG | WEIGHT (GEAR<br>OPERATED)<br>LB KG |        |        |
|------|-------|-------|------|------|------|------|------|------|-------|------|------|-------|-------|-------------------------------------|------------------------------------|--------|--------|
| 2"   | 6.34  | 3.15  | 1.69 | 1.26 | 3.62 | 2.76 | 0.39 | 1.97 | 0.28  | 0.50 | 0.43 | 10.28 | 6.02  | 9.26                                | 4.20                               | 16.976 | 7.70   |
| 2.5" | 6.89  | 3.50  | 1.81 | 1.26 | 3.62 | 2.76 | 0.39 | 1.97 | 0.28  | 0.50 | 0.43 | 10.28 | 6.02  | 11.07                               | 5.02                               | 18.67  | 8.47   |
| 3"   | 7.13  | 3.74  | 1.81 | 1.26 | 3.62 | 2.76 | 0.39 | 1.97 | 0.28  | 0.50 | 0.43 | 10.28 | 6.02  | 11.93                               | 5.41                               | 19.423 | 8.81   |
| 4"   | 7.87  | 4.49  | 2.05 | 1.26 | 3.62 | 2.76 | 0.39 | 1.97 | 0.28  | 0.62 | 0.55 | 10.28 | 6.02  | 18.56                               | 8.42                               | 26.01  | 11.80  |
| 5"   | 8.39  | 5.00  | 2.20 | 1.26 | 4.92 | 4.02 | 0.47 | 2.76 | 0.39  | 0.74 | 0.55 | 14.33 | 9.25  | 23.70                               | 10.75                              | 38.691 | 17.55  |
| 6"   | 8.9   | 5.51  | 2.20 | 1.26 | 5.91 | 4.92 | 0.55 | 4.02 | 0.47  | 0.74 | 0.67 | 14.33 | 9.25  | 31.92                               | 14.48                              | 47.64  | 21.61  |
| 8"   | 10.24 | 6.89  | 2.36 | 3.31 | 5.91 | 4.92 | 0.55 | 4.02 | 0.47  | 0.87 | 0.87 | 14.33 | 9.25  | 43.52                               | 19.74                              | 57.98  | 26.30  |
| 10"  | 11.5  | 8.66  | 2.68 | 3.31 | 6.89 | 5.51 | 0.71 | 4.92 | 0.55  | 1.12 | 0.87 | 21.26 | 9.25  | 50.38                               | 22.85                              | 73.19  | 33.20  |
| 12"  | 13.27 | 10.04 | 3.07 | 3.35 | 6.89 | 5.51 | 0.71 | 4.92 | 0.55  | 1.24 | 0.87 | 21.26 | 9.09  | 80.91                               | 36.70                              | 101.41 | 46.00  |
| 14"  | 14.49 | 10.55 | 3.07 | 3.35 | 6.89 | 5.51 | 0.71 | 4.92 | 0.55  | 1.24 | 0.94 | -     | 10.91 | -                                   | -                                  | 167.55 | 76.00  |
| 16"  | 15.75 | 12.52 | 4.02 | 4.92 | 6.89 | 5.51 | 0.71 | 4.92 | 0.55  | 1.31 | 1.06 | -     | 9.57  | -                                   | -                                  | 244.71 | 111.00 |
| 18"  | 16.61 | 14.37 | 4.49 | 4.92 | 6.89 | 5.51 | 0.71 | 4.92 | 0.55  | 1.49 | 1.06 | -     | 9.57  | -                                   | -                                  | 295.42 | 134.00 |
| 20"  | 18.86 | 14.09 | 5.00 | 4.92 | 6.89 | 5.51 | 0.71 | 4.92 | 0.55  | 1.62 | 1.26 | -     | 9.57  | -                                   | -                                  | 348.33 | 158.00 |
| 24"  | 22.13 | 19.29 | 6.06 | 5.39 | 8.27 | 6.50 | 0.87 | 5.51 | 0.71  | 1.99 | 1.42 | -     | 11.65 | -                                   | -                                  | 606.27 | 275.00 |

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# B154635(3/5)

**Lever Handle****Gear Operator****MATERIAL SPECIFICATIONS**

| NO. | PART NAME     | QTY | STANDARD             |
|-----|---------------|-----|----------------------|
| 1   | Body          | 1   | ASTM A126 B          |
| 2   | Lower Bushing | 1   | PTFE                 |
| 3   | Seat Ring     | 1   | EPDM                 |
| 4   | Disc          | 1   | ASTM A351 CF8M       |
| 5   | Stem          | 1   | ASTM A582 TYPE 416   |
| 6   | Bushing I     | 1   | PTFE                 |
| 7   | Bushing II    | 2   | PTFE                 |
| 8   | O-Ring        | 1   | NBR                  |
| 9   | Lever         | 1   | -                    |
| 10  | Gear Box      | 1   | -                    |
| 11  | Name Plate    | 1   | SS304                |
| 12  | Pin           | 1   | ASTM A276 TYPE SS316 |

**CRN****Description**

200 PSI cast iron body wafer style butterfly valves are manufactured with a 316 stainless steel disc and a 416 stainless steel stem. Lever operated (2" - 8") and gear operated (6" - 12"). The lever handle is lockable.

**Working Pressure**

- 300 PSI Saturated Steam
- 1000 PSI Non-Shock Cold Working Pressure (CWP)

**Face to Face Dimensions**

- Threaded (NPT)

**Standard**

- Conforms to MSS SP-80

**DIMENSIONS**

| SIZE | A     | B     | C    | H    | ØF   | ØG   | 4-ØN | ØG1  | 4-ØN1 | ØD   | M    | L     | L1    | WEIGHT (LEVER OPERATED)<br>LB KG |       | WEIGHT (GEAR OPERATED)<br>LB KG |        |
|------|-------|-------|------|------|------|------|------|------|-------|------|------|-------|-------|----------------------------------|-------|---------------------------------|--------|
| 2"   | 6.34  | 3.15  | 1.69 | 1.26 | 3.62 | 2.76 | 0.39 | 1.97 | 0.28  | 0.50 | 0.43 | 10.28 | 6.02  | 7.65                             | 3.47  | 15.15                           | 6.87   |
| 2.5" | 6.89  | 3.50  | 1.81 | 1.26 | 3.62 | 2.76 | 0.39 | 1.97 | 0.28  | 0.50 | 0.43 | 10.28 | 6.02  | 9.63                             | 4.37  | 17.42                           | 7.90   |
| 3"   | 7.13  | 3.74  | 1.81 | 1.26 | 3.62 | 2.76 | 0.39 | 1.97 | 0.28  | 0.50 | 0.43 | 10.28 | 6.02  | 10.38                            | 4.71  | 17.86                           | 8.10   |
| 4"   | 7.87  | 4.49  | 2.05 | 1.26 | 3.62 | 2.76 | 0.39 | 1.97 | 0.28  | 0.62 | 0.55 | 10.28 | 6.02  | 12.61                            | 5.72  | 20.13                           | 9.13   |
| 5"   | 8.39  | 5.00  | 2.20 | 1.26 | 4.92 | 4.02 | 0.47 | 2.76 | 0.39  | 0.74 | 0.55 | 14.33 | 9.25  | 21.45                            | 9.73  | 25.79                           | 11.70  |
| 6"   | 8.90  | 5.51  | 2.20 | 1.26 | 5.91 | 4.92 | 0.55 | 4.02 | 0.47  | 0.74 | 0.67 | 14.33 | 9.25  | 24.87                            | 11.28 | 27.89                           | 12.65  |
| 8"   | 10.24 | 6.89  | 2.36 | 3.31 | 5.91 | 4.92 | 0.55 | 4.02 | 0.47  | 0.87 | 0.87 | 14.33 | 9.25  | 35.41                            | 16.06 | 42.11                           | 19.10  |
| 10"  | 11.50 | 8.66  | 2.68 | 3.31 | 6.89 | 5.51 | 0.71 | 4.92 | 0.55  | 1.12 | 0.87 | 21.26 | 9.25  | 44.31                            | 20.10 | 65.70                           | 29.80  |
| 12"  | 13.27 | 10.04 | 3.07 | 3.35 | 6.89 | 5.51 | 0.71 | 4.92 | 0.55  | 1.24 | 0.87 | 21.26 | 9.09  | 72.31                            | 32.80 | 94.36                           | 42.80  |
| 14"  | 14.49 | 10.55 | 3.07 | 3.35 | 6.89 | 5.51 | 0.71 | 4.92 | 0.55  | 1.24 | 0.94 | -     | 10.91 | -                                | -     | 145.50                          | 66.00  |
| 16"  | 15.75 | 12.52 | 4.02 | 4.92 | 6.89 | 5.51 | 0.71 | 4.92 | 0.55  | 1.31 | 1.06 | -     | 9.57  | -                                | -     | 169.76                          | 77.00  |
| 18"  | 16.61 | 14.37 | 4.49 | 4.92 | 6.89 | 5.51 | 0.71 | 4.92 | 0.55  | 1.49 | 1.06 | -     | 9.57  | -                                | -     | 227.08                          | 103.00 |
| 20"  | 18.86 | 14.09 | 5.00 | 4.92 | 6.89 | 5.51 | 0.71 | 4.92 | 0.55  | 1.62 | 1.26 | -     | 9.57  | -                                | -     | 268.96                          | 122.00 |
| 24"  | 22.13 | 19.29 | 6.06 | 5.39 | 8.27 | 6.50 | 0.87 | 5.51 | 0.71  | 1.99 | 1.42 | -     | 11.65 | -                                | -     | 485.02                          | 220.00 |

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# Butterfly Valve Engineering Data

## Valve Seating Torques

| VALVE SIZE | (ΔP : PSI)  |             |             |             |           |               |
|------------|-------------|-------------|-------------|-------------|-----------|---------------|
|            | ΔP=50       | ΔP=75       | ΔP=100      | ΔP=150      | ΔP=200    | ΔP=250        |
|            | WET/DRY     | WET/DRY     | WET/DRY     | WET/DRY     | WET/DRY   | WET/DRY       |
| 2"         | 12.3/19.7   | 12.7/20.2   | 13.2/20.8   | 13.9/22.1   | 15.1/24.2 | 27.1/43.4     |
| 2.5"       | 13/24.6     | 13.4/25.4   | 13.8/26.1   | 15.4/29.2   | 17.2/32.7 | 33.9/54.2     |
| 3"         | 19.8/37.5   | 20.4/38.7   | 21/39.9     | 21.7/41.1   | 23.1/43.7 | 40.7/65.1     |
| 4"         | 31.2/57.1   | 33.1/60.5   | 34.9/63.8   | 37.1/67.8   | 39.8/72.8 | 54.2/86.7     |
| 5"         | 48.9/85.1   | 51.4/89.3   | 53.8/93.8   | 57.9/101    | 61.9/108  | 94.9/151.8    |
| 6"         | 75.9/134    | 80.2/141    | 84.5/149    | 93.9/165    | 102/174   | 149.1/238.6   |
| 8"         | 137/236     | 145/250     | 154/264     | 173/297     | 192/330   | 257.6/412.2   |
| 10"        | 215/365     | 232/394     | 249/423     | 286/486     | 323/549   | 406.7/650.7   |
| 12"        | 314/512     | 343/559     | 371/605     | 429/699     | 490/799   | 583/932.8     |
| 14"        | 401/601     | 434/650     | 466/699     | 550/825     | 625/969   | 813.5/1627    |
| 16"        | 499/748     | 565/848     | 632/947     | 755/1133    | 846/1307  | 1084.6/2169.2 |
| 18"        | 653/1002    | 742/1113    | 831/1246    | 1012/1518   | 1131/1787 | 1423.6/2847.2 |
| 20"        | 837/1256    | 965/1447    | 1093/1639   | 1350/2025   | 1431/2288 | 1762.5/2525   |
| 24"        | 1308/1963   | 1494/2241   | 1679/2519   | 2111/3166   | 2301/3711 | 1965.9/3931.8 |
| 28"        | 2639/4235   | 2825/4375   | 3010/4515   | 3272/4908   | -         | -             |
| 30"        | 3200/4800   | 3344/5016   | 3487/5231   | 3768/5650   | -         | -             |
| 32"        | 3663/5813   | 3813/5958   | 3963/6103   | 4308/6462   | -         | -             |
| 36"        | 4590/6885   | 4752/7127   | 4913/7369   | 5257/7886   | -         | -             |
| 40"        | 7788/11682  | 8078/12116  | 8367/12550  | 8926/13389  | -         | -             |
| 42"        | 7881/11821  | 8157/12335  | 8433/12649  | 9024/13536  | -         | -             |
| 48"        | 10915/16449 | 11324/17025 | 11733/17600 | 12555/18833 | -         | -             |

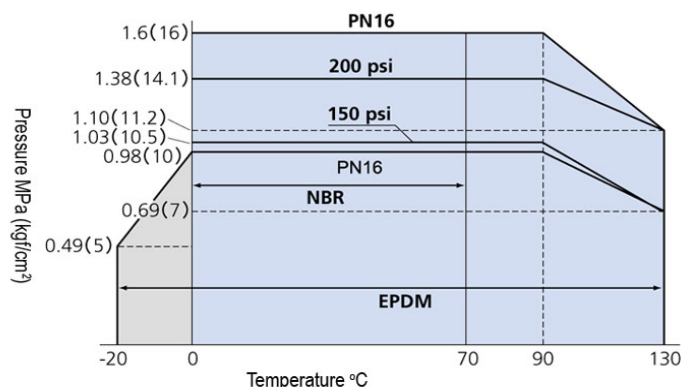
## Cv Values - Valve Sizing Coefficients

| SIZE | (US-GPM@Δ1P) |      |      |      |      |       |       |       |       |
|------|--------------|------|------|------|------|-------|-------|-------|-------|
|      | 10°          | 20°  | 30°  | 40°  | 50°  | 60°   | 70°   | 80°   | 90°   |
| 2"   | 0.1          | 5    | 12   | 15   | 27   | 44    | 70    | 105   | 115   |
| 2.5" | 0.2          | 8    | 20   | 25   | 45   | 75    | 119   | 178   | 196   |
| 3"   | 0.3          | 12   | 22   | 39   | 70   | 116   | 183   | 275   | 302   |
| 4"   | 0.5          | 17   | 36   | 78   | 139  | 230   | 364   | 546   | 600   |
| 5"   | 0.8          | 29   | 61   | 133  | 237  | 392   | 620   | 930   | 1022  |
| 6"   | 2.0          | 45   | 95   | 205  | 366  | 605   | 958   | 1437  | 1579  |
| 8"   | 3.0          | 89   | 188  | 408  | 727  | 1202  | 1903  | 2854  | 3136  |
| 10"  | 4.0          | 151  | 320  | 694  | 1237 | 2049  | 3240  | 4859  | 5430  |
| 12"  | 5.0          | 234  | 495  | 1072 | 1911 | 3162  | 5005  | 7507  | 8250  |
| 14"  | 6.0          | 338  | 715  | 1549 | 2761 | 4568  | 7230  | 10844 | 11917 |
| 16"  | 8.0          | 464  | 983  | 2130 | 3797 | 6282  | 9942  | 14913 | 16388 |
| 18"  | 11.0         | 615  | 1302 | 2822 | 5028 | 8320  | 13168 | 19752 | 21705 |
| 20"  | 14.0         | 791  | 1647 | 3628 | 6465 | 10698 | 16931 | 25396 | 27908 |
| 22"  | 16.8         | 949  | 1976 | 4353 | 7758 | 12837 | 20317 | 30475 | 33576 |
| 24"  | 22.0         | 1222 | 2587 | 5605 | 9989 | 16528 | 26157 | 39236 | 43116 |

## Kv Values

| SIZE | (M³/H ΔP) |         |         |         |         |          |          |          |          |
|------|-----------|---------|---------|---------|---------|----------|----------|----------|----------|
|      | 10°       | 20°     | 30°     | 40°     | 50°     | 60°      | 70°      | 80°      | 90°      |
| 2"   | 0.09      | 4.28    | 10.28   | 12.85   | 23.14   | 37.70    | 59.98    | 89.97    | 98.54    |
| 2.5" | 0.17      | 6.86    | 17.14   | 21.42   | 38.56   | 64.27    | 101.97   | 152.53   | 167.95   |
| 3"   | 0.26      | 10.28   | 18.85   | 33.42   | 59.98   | 99.40    | 156.81   | 235.65   | 258.78   |
| 4"   | 0.43      | 14.57   | 30.85   | 66.84   | 119.11  | 197.09   | 311.91   | 467.87   | 514.14   |
| 5"   | 0.69      | 24.85   | 52.27   | 113.97  | 203.08  | 335.90   | 531.28   | 796.92   | 875.75   |
| 6"   | 1.71      | 38.56   | 81.41   | 175.66  | 313.62  | 518.42   | 820.91   | 1231.36  | 1353.04  |
| 8"   | 2.57      | 76.26   | 161.10  | 349.61  | 622.96  | 1029.99  | 1630.68  | 2445.59  | 2687.23  |
| 10"  | 18.00     | 129.39  | 274.21  | 594.69  | 1059.98 | 1755.78  | 2776.35  | 4163.67  | 4652.96  |
| 12"  | 36.00     | 200.51  | 424.16  | 918.59  | 1637.53 | 2709.51  | 4288.77  | 6432.73  | 7069.41  |
| 14"  | 112.00    | 289.63  | 612.68  | 1327.34 | 2365.90 | 3914.31  | 6195.37  | 9292.20  | 10211.65 |
| 16"  | 159.00    | 397.60  | 842.33  | 1825.19 | 3253.64 | 5383.03  | 8519.28  | 12778.92 | 14042.84 |
| 18"  | 200.00    | 526.99  | 1115.68 | 2418.17 | 4308.48 | 7129.39  | 11283.63 | 16925.45 | 18598.97 |
| 20"  | 260.00    | 677.81  | 1411.31 | 3108.83 | 5539.85 | 9167.10  | 14508.14 | 21761.78 | 23914.31 |
| 22"  | 301.00    | 813.20  | 1693.23 | 3730.08 | 6647.81 | 11000.00 | 17409.60 | 26113.97 | 28771.21 |
| 24"  | 345.00    | 1047.13 | 2216.80 | 4802.91 | 8559.55 | 14162.81 | 22413.88 | 33621.25 | 36946.02 |

## Pressure Temperature Chart



# Cast Iron Gate, Globe and Check Valve Index



GTVA-FCI-1333HW



GTVB-FCI-1333HW



GLBA-FCI-1333HW



CKVA-FCI1330

## Code Index

GTVA | F | CI | 1 | 3 | 3 | 3 | HW

1 2 3 4 5 6 7 8

### 1 Valve Category

**GTVA** - Gate Valves (**A** - OS&Y; **B** - N.R.S.)  
**GLBA** - Globe Valves (**A** - Straight body; **B** - Angle body)  
**CKVA** - Check Valves (**A** - Swing check; **B** - Lift check)

### 2 Connection Style

**B** - Butt Weld; **C** - Combination; **F** - Flanged;  
**G** - Grooved; **M** - Mechanical Joint, **P** - Push-on;  
**S** - Socket Weld; **T** - Thread

### 3 Body Material

**BS** - Brass; **BZ** - Bronze; **CI** - Cast Iron; **CS** - Cast Steel;  
**DI** - Ductile Iron; **FS** - Forged Steel; **SS** - Stainless Steel

### 4 Pressure Rating

**1** - 125 PSI; **2** - 150 PSI; **3** - 300 PSI; **5** - 250 PSI;  
**7** - 350 PSI; **8** - 800 PSI

### 5 Seat Material

**0** - Brass; **1** - Ductile Iron; **2** - Cast Iron; **3** - Bronze;  
**4** - Stainless Steel; **5** - EPDM; **6** - PTFE; **7** - BUNA N;  
**8** - Polyamide; **9** - Viton

### 6 Disc Material

**0** - Brass; **1** - Ductile Iron; **2** - Cast Iron; **3** - Al.Bronze;  
**4** - Stainless Steel; **5** - EPDM; **6** - PTFE

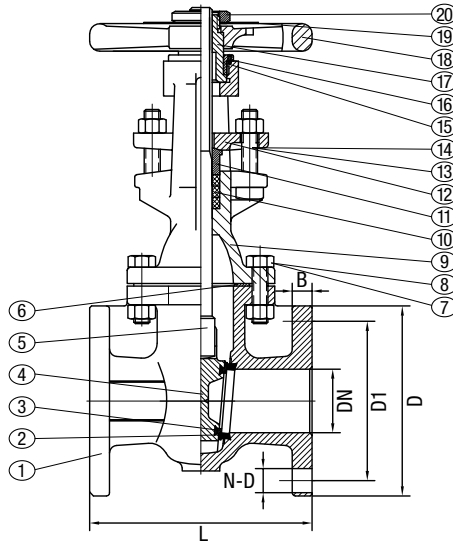
### 7 Stem/Bushing Material

**0** - Brass; **1** - Stainless Steel; **2** - 1-4PH; **3** - Bronze

### 8 Accessories

**HW** - Handwheel; **SN** - Square Nut; **GB** - Gear box;  
**MA** - Motor Actuator; **PA** - Pneumatic Actuator

# GTVA-FCI1333-HW



| MATERIAL SPECIFICATIONS |                      |              |              |
|-------------------------|----------------------|--------------|--------------|
| NO.                     | PART NAME            | MATERIAL     | STANDARD     |
| 1                       | Body                 | Cast Iron    | ASTM A126 B  |
| 2                       | Seat Ring            | Cast Bronze  | ASTM B62     |
| 3                       | Wedge Seat Ring      | Cast Bronze  | ASTM B62     |
| 4                       | Wedge                | Cast Iron    | ASTM A126 B  |
| 5                       | Stem                 | Brass        | ASTM B16     |
| 6                       | Body Gasket          | Graphite     | NON ASBESTOS |
| 7                       | Bolts                | Steel        | ASTM A307 B  |
| 8                       | Nuts                 | Steel        | ASTM A307 B  |
| 9                       | Bonnet               | Cast Iron    | ASTM A126 B  |
| 10                      | Packing              | Graphite     | NON ASBESTOS |
| 11                      | Packing Gland        | Cast Brass   | ASTM B16     |
| 12                      | Gland Follower       | Ductile Iron | ASTM A536    |
| 13                      | Bolts                | Steel        | ASTM A307 B  |
| 14                      | Nuts                 | Steel        | ASTM A307 B  |
| 15                      | Wedge Nut            | Cast Brass   | ASTM B16     |
| 16                      | Screws               | Steel        | ASTM A307 B  |
| 17                      | Yoke Bushing Nut     | Cast Iron    | ASTM A126 B  |
| 18                      | Handwheel            | Cast Iron    | ASTM A126 B  |
| 19                      | Identification Plate | Aluminum     | COMMERCIAL   |

## CRN

### Description

Class 125 rated (200 CWP) iron body gate valve with flanged ends. Rising stem gate valves, solid wedge body, bolted bonnet with an outside screw and yoke (OS&Y) design.

### Working Pressure

- 125S, 200 WOG
- 2"-12" 200 PSI
- 14"-24" 150 PSI

### Face to Face Dimensions

- Conforms to ANSI B16.10 (125 Lb).

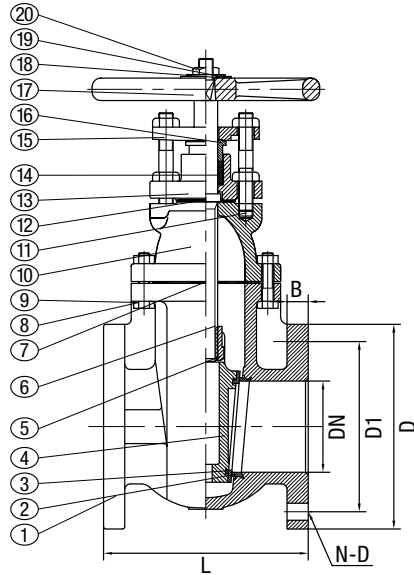
### Standard

- Conforms to MSS SP-70

| DIMENSIONS | SIZE | mm   | 51     | 63.5   | 76     | 102    | 127     | 152     | 203     | 254    | 305    | 356      | 406      | 457     | 508     | 610      |
|------------|------|------|--------|--------|--------|--------|---------|---------|---------|--------|--------|----------|----------|---------|---------|----------|
|            | DN   | inch | 2      | 2.5    | 3      | 4      | 5       | 6       | 8       | 10     | 12     | 14       | 16       | 18      | 20      | 24       |
|            | L    | mm   | 177.8  | 190.5  | 203.2  | 228.6  | 254.0   | 266.7   | 292.1   | 330.2  | 355.6  | 381.0    | 406.0    | 432.0   | 457.0   | 508.0    |
|            |      | inch | 7.00   | 7.50   | 8.00   | 9.00   | 10.00   | 10.50   | 11.50   | 13.00  | 14.00  | 15.00    | 15.98    | 17.01   | 17.99   | 20.00    |
|            | D    | mm   | 152.0  | 178.0  | 191.0  | 229.0  | 254.0   | 279.0   | 343.0   | 406.0  | 483.0  | 533.0    | 597.0    | 635.0   | 699.0   | 813.0    |
|            |      | inch | 5.98   | 7.01   | 7.52   | 9.02   | 10.00   | 10.98   | 13.50   | 15.98  | 19.02  | 20.98    | 23.50    | 25.000  | 27.52   | 32.01    |
|            | D1   | mm   | 120.7  | 139.7  | 152.4  | 190.5  | 215.9   | 241.3   | 298.5   | 362.0  | 431.8  | 476.3    | 539.8    | 577.9   | 635.0   | 749.3    |
|            |      | inch | 4.75   | 5.50   | 6.00   | 7.50   | 8.50    | 9.50    | 11.75   | 14.25  | 17.00  | 18.75    | 21.25    | 22.75   | 25.00   | 29.50    |
|            | B    | mm   | 15.80  | 17.50  | 19.00  | 23.90  | 23.90   | 25.40   | 28.50   | 30.20  | 31.80  | 35.00    | 36.60    | 39.70   | 42.90   | 47.70    |
|            |      | inch | 0.62   | 0.69   | 0.75   | 0.94   | 0.94    | 1.00    | 1.12    | 1.19   | 1.25   | 1.38     | 1.44     | 1.56    | 1.69    | 1.88     |
|            | N-D  | mm   | 4-19   | 4-19   | 4-19   | 8-19   | 8-22    | 8-22    | 8-22    | 12-25  | 12-25  | 12-29    | 16-29    | 16-32   | 20-32   | 20-35    |
|            |      | inch | 4-0.75 | 4-0.75 | 4-0.75 | 8-0.75 | 8-0.875 | 8-0.875 | 8-0.875 | 12-1   | 12-1   | 12-1.125 | 16-1.125 | 16-1.25 | 20-1.25 | 20-1.375 |
| WEIGHT     |      | lb   | 30.20  | 44.09  | 54.67  | 83.78  | 127.87  | 152.12  | 242.51  | 396.83 | 551.16 | 932.55   | 1139.79  | 1615.99 | 2023.84 | 2799.87  |
|            |      | Kg   | 13.7   | 20.0   | 24.8   | 38.0   | 58.0    | 69.0    | 110.0   | 180.0  | 250.0  | 423.0    | 517.0    | 733.0   | 918.0   | 1270.0   |

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# GTVB-FCI1333-HW

**MATERIAL SPECIFICATIONS**

| NO. | PART NAME            | MATERIAL     | STANDARD     |
|-----|----------------------|--------------|--------------|
| 1   | Body                 | Cast Iron    | ASTM A126 B  |
| 2   | Seat Ring            | Cast Bronze  | ASTM B62     |
| 3   | Wedge Seat Ring      | Cast Bronze  | ASTM B62     |
| 4   | Wedge                | Cast Iron    | ASTM A126 B  |
| 5   | Stem Nut             | Cast Brass   | ASTM B16     |
| 6   | Stem                 | Brass        | ASTM B16     |
| 7   | Body Gasket          | Graphite     | NON ASBESTOS |
| 8   | Bolts                | Steel        | ASTM A307 B  |
| 9   | Nuts                 | Steel        | ASTM A307 B  |
| 10  | Bonnet               | Cast Iron    | ASTM A126 B  |
| 11  | Gland Follower Bolt  | Steel        | ASTM A307 B  |
| 12  | Stuffing Box Gasket  | Graphite     | NON ASBESTOS |
| 13  | Stuffing Box         | Cast Iron    | ASTM A126 B  |
| 14  | Packing              | Graphite     | NON ASBESTOS |
| 15  | Packing Gland        | Cast Brass   | ASTM B16     |
| 16  | Gland Follower       | Ductile Iron | ASTM A536    |
| 17  | Handwheel            | Cast Iron    | ASTM A126 B  |
| 18  | Identification Plate | Aluminum     | COMMERCIAL   |
| 19  | Washer               | Steel        | ASTM A307 B  |
| 20  | Nut                  | Steel        | ASTM A307 B  |

**CRN****Description**

Class 125 rated (200 CWP) iron body gate valve with flanged ends. Our non-rising stem gate valves are bolted bonnet with a non-rising stem design. Solid wedge iron body gate valve is bronze mounted.

**Working Pressure**

- 125S, 200 WOG
- 2"-12" 200 PSI
- 14"-24" 150 PSI

**Face to Face Dimensions**

- Conforms to ANSI B16.10 (125 Lb).

**Standard**

- Conforms to MSS SP-70

| DIMENSIONS | SIZE | DN   | mm     | 51     | 63.5   | 76     | 102     | 127     | 152     | 203    | 254    | 305      | 356      | 406     | 457     | 508      | 610 |
|------------|------|------|--------|--------|--------|--------|---------|---------|---------|--------|--------|----------|----------|---------|---------|----------|-----|
|            |      |      | inch   | 2      | 2 ½    | 3      | 4       | 5       | 6       | 8      | 10     | 12       | 14       | 16      | 18      | 20       | 24  |
|            | L    | mm   | 177.8  | 190.5  | 203.2  | 228.6  | 254.0   | 266.7   | 292.1   | 330.2  | 355.6  | 381.0    | 406.0    | 432.0   | 457.0   | 508.0    |     |
|            |      | inch | 7.00   | 7.50   | 8.00   | 9.00   | 10.00   | 10.50   | 11.50   | 13.00  | 14.00  | 15.00    | 15.98    | 17.01   | 17.99   | 20.00    |     |
|            | D    | mm   | 152.0  | 178.0  | 191.0  | 229.0  | 254.0   | 279.0   | 343.0   | 406.0  | 483.0  | 533.0    | 597.0    | 635.0   | 699.0   | 813.0    |     |
|            |      | inch | 5.98   | 7.01   | 7.52   | 9.02   | 10.00   | 10.98   | 13.50   | 15.98  | 19.02  | 20.98    | 23.50    | 25.00   | 27.52   | 32.01    |     |
|            | D1   | mm   | 120.70 | 139.70 | 152.40 | 190.50 | 215.90  | 241.30  | 298.50  | 362.00 | 431.80 | 476.30   | 539.80   | 577.90  | 635.00  | 749.30   |     |
|            |      | inch | 4.75   | 5.50   | 6.00   | 7.50   | 8.50    | 9.50    | 11.75   | 14.25  | 17.00  | 18.75    | 21.25    | 22.75   | 25.00   | 29.50    |     |
|            | B    | mm   | 15.80  | 17.50  | 19.00  | 23.90  | 23.90   | 25.40   | 28.50   | 30.20  | 31.80  | 35.00    | 36.60    | 39.70   | 42.90   | 47.70    |     |
|            |      | inch | 0.62   | 0.69   | 0.75   | 0.94   | 0.94    | 1.00    | 1.12    | 1.19   | 1.25   | 1.38     | 1.44     | 1.56    | 1.69    | 1.88     |     |
|            | N-D  | mm   | 4-19   | 4-19   | 4-19   | 8-19   | 8-22    | 8-22    | 8-22    | 12-25  | 12-25  | 12-29    | 16-29    | 16-32   | 20-32   | 20-35    |     |
|            |      | inch | 4-0.75 | 4-0.75 | 4-0.75 | 8-0.75 | 8-0.875 | 8-0.875 | 8-0.875 | 12-1   | 12-1   | 12-1.125 | 16-1.125 | 16-1.25 | 20-1.25 | 20-1.375 |     |
| WEIGHT     |      | lb   | 30.42  | 41.45  | 49.38  | 84.22  | 133.16  | 155.43  | 224.87  | 372.58 | 473.99 | 828.94   | 1018.53  | 1549.85 | 1990.77 | 2469.17  |     |
|            |      | Kg   | 13.8   | 18.8   | 22.4   | 38.2   | 60.4    | 70.5    | 102.0   | 169.0  | 215.0  | 376.0    | 462.0    | 703.0   | 903.0   | 1120.0   |     |

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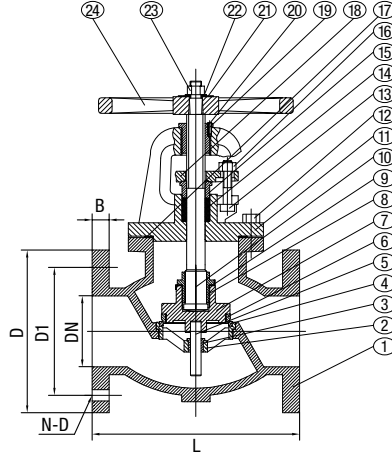
# GLBA-FCI1333-HW



**CRN**

## Description

200 PSI cast iron body lug style butterfly valves are manufactured with a 316 stainless steel disc and a 416 stainless steel stem. Lever operated (2"- 8") and gear operated (6"-12"). The lever handle is lockable.



## MATERIAL SPECIFICATIONS

| NO. | PART NAME            | MATERIAL     | STANDARD     |
|-----|----------------------|--------------|--------------|
| 1   | Body                 | Cast Iron    | ASTM A126 B  |
| 2   | Seat                 | Cast Bronze  | ASTM B62     |
| 3   | Gland Guide          | Brass        | ASTM B16     |
| 4   | Seat Ring            | Cast Bronze  | ASTM B62     |
| 5   | Stem Guide           | Brass        | ASTM B16     |
| 6   | Disc Ring            | Cast Bronze  | ASTM B62     |
| 7   | Disc                 | Cast Iron    | ASTM A126 B  |
| 8   | Swivel Nut           | Cast Brass   | ASTM B16     |
| 9   | Gasket               | Brass        | ASTM B16     |
| 10  | Stem                 | Brass        | ASTM B16     |
| 11  | Bonnet               | Cast Iron    | ASTM A126 B  |
| 12  | Bolts                | Steel        | ASTM A307 B  |
| 13  | Bolts                | Steel        | ASTM A307 B  |
| 14  | Packing              | Graphite     | NON ASBESTOS |
| 15  | Packing Gland        | Cast Brass   | ASTM B16     |
| 16  | Nuts                 | Steel        | ASTM A307 B  |
| 17  | Body Gasket          | Graphite     | NON ASBESTOS |
| 18  | Gland Follower       | Ductile Iron | ASTM A536    |
| 19  | Screws               | Steel        | ASTM A307 B  |
| 20  | Stem Nut             | Cast Bronze  | ASTM B62     |
| 21  | Identification Plate | Aluminum     | COMMERCIAL   |
| 22  | Washer               | Steel        | ASTM A307 B  |
| 23  | Nut                  | Steel        | ASTM A307 B  |
| 24  | Handwheel            | Cast Iron    | ASTM A126 B  |

## Working Pressure

- 125S, 200 WOG

## Face to Face Dimensions

- Conforms to ANSI B16.10 (125 Lb).

## Standard

- Conforms to MSS SP-85

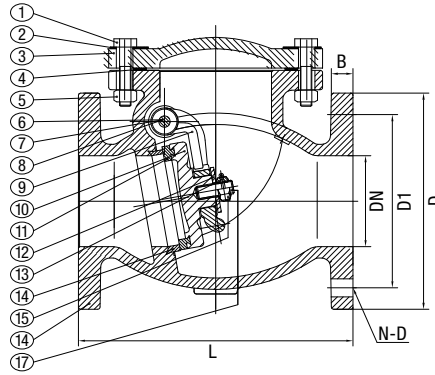
| DIMENSIONS | SIZE<br>DN | mm   | 51     | 63.5   | 76     | 102    | 127     | 152     | 203     | 254     | 305     |
|------------|------------|------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
|            |            | inch | 2      | 2 ½    | 3      | 4      | 5       | 6       | 8       | 10      | 12      |
|            | L          | mm   | 203    | 216    | 241    | 292    | 330     | 356     | 495     | 622     | 698     |
|            |            | inch | 8.0    | 8.5    | 9.5    | 11.5   | 13.0    | 14.0    | 19.5    | 24.5    | 27.5    |
|            | D          | mm   | 152    | 178    | 191    | 229    | 254     | 279     | 343     | 406     | 483     |
|            |            | inch | 6.0    | 7.0    | 7.5    | 9.0    | 10.0    | 11.0    | 13.5    | 16.0    | 19.0    |
|            | D1         | mm   | 120.7  | 139.7  | 152.4  | 190.5  | 215.9   | 241.3   | 298.5   | 362     | 431.8   |
|            |            | inch | 4.8    | 5.5    | 6.0    | 7.5    | 8.5     | 9.5     | 11.8    | 14.3    | 17.0    |
|            | B          | mm   | 15.8   | 17.5   | 19     | 23.9   | 23.9    | 25.4    | 28.5    | 30.2    | 31.8    |
|            |            | inch | 0.62   | 0.69   | 0.75   | 0.94   | 0.94    | 1.00    | 1.12    | 1.19    | 1.25    |
|            | N-D        | mm   | 4-19   | 4-19   | 4-19   | 8-19   | 8-22    | 8-22    | 8-22    | 12-25   | 12-25   |
|            |            | inch | 4-3/4  | 4-3/4  | 4-3/4  | 8-3/4  | 8-7/8   | 8-7/8   | 8-7/8   | 12-1    | 12-1    |
|            | WEIGHT     | lb   | 42.990 | 47.399 | 57.320 | 90.389 | 133.380 | 191.802 | 310.851 | 480.607 | 630.521 |
|            |            | Kg   | 19.50  | 21.5   | 26.00  | 41.0   | 60.5    | 87.0    | 141.0   | 218     | 286     |

\*With Proper Machining Capabilities.

\*Not to be used for reciprocation air compressor applications.

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# CKVA-FCI1330

**CRN****MATERIAL SPECIFICATIONS**

| NO. | PART NAME            | MATERIAL        | STANDARD        |
|-----|----------------------|-----------------|-----------------|
| 1   | Bolts                | Steel           | ASTM A307 B     |
| 2   | Identification Plate | Aluminum        | COMMERCIAL      |
| 3   | Bonnet               | Cast Iron       | ASTM A126 B     |
| 4   | Body Gasket          | Graphite        | NON ASBESTOS    |
| 5   | Nuts                 | Steel           | ASTM A307 B     |
| 6   | Side Plug            | Brass           | ASTM B16        |
| 7   | Gasket               | Fiber           | NON ASBESTOS    |
| 8   | Hanger Pin           | Brass           | ASTM B16        |
| 9   | Hanger               | Ductile Iron    | ASTM A536       |
| 10  | Disc                 | Cast Iron       | ASTM A126 B     |
| 11  | Disc Ring            | Cast Bronze     | ASTM B62        |
| 12  | Washer               | Steel           | ASTM A307 B     |
| 13  | Split Pin            | Stainless Steel | ASTM 420 S42000 |
| 14  | Seat Ring            | Cast Bronze     | ASTM B62        |
| 15  | Nut                  | Steel           | ASTM A307 B     |
| 16  | Body                 | Cast Iron       | ASTM A126 B     |
| 17  | Bolt                 | Steel           | ASTM A307 B     |

**Description**

Class 125 rated (200 CWP) iron body check valve with flanged ends, bolted bonnet and are bronze mounted. Meets MSS-SP71 standards and has a renewable disc and seat\*.

**Working Pressure**

- 125S, 200 WOG

**Face to Face Dimensions**

- Conforms to ANSI B16.10 (125 Lb).

**Standard**

- Conforms to MSS SP-71

- Install 5 pipe diameters minimum down downstream from pump discharge or change in direction to avoid flow turbulence.
- May be installed in both horizontal and vertical position with upward flow or in any intermediate position.

| DIMENSIONS | SIZE<br>DN | mm   | 51    | 63.5  | 76    | 102   | 127    | 152    | 203    | 254    | 305    |
|------------|------------|------|-------|-------|-------|-------|--------|--------|--------|--------|--------|
|            |            | inch | 2     | 2 ½   | 3     | 4     | 5      | 6      | 8      | 10     | 12     |
|            | L          | mm   | 203.2 | 215.9 | 241.3 | 292.1 | 330.2  | 355.6  | 495.3  | 622.3  | 698.5  |
|            |            | inch | 8.0   | 8.5   | 9.5   | 11.5  | 13.0   | 14.0   | 19.5   | 24.5   | 27.5   |
|            | D          | mm   | 152   | 178   | 191   | 229   | 254    | 279    | 343    | 406    | 483    |
|            |            | inch | 6.0   | 7.0   | 7.5   | 9.0   | 10.0   | 11.0   | 13.5   | 16.0   | 19.0   |
|            | D1         | mm   | 120.7 | 139.7 | 152.4 | 190.5 | 215.9  | 241.3  | 298.5  | 362    | 431.8  |
|            |            | inch | 4.8   | 5.5   | 6.0   | 7.5   | 8.5    | 9.5    | 11.8   | 14.3   | 17.0   |
|            | B          | mm   | 15.8  | 17.5  | 19    | 23.9  | 23.9   | 25.4   | 28.5   | 30.2   | 31.8   |
|            |            | inch | 0.62  | 0.69  | 0.75  | 0.94  | 0.94   | 1.00   | 1.12   | 1.19   | 1.25   |
|            | N-D        | mm   | 4-19  | 4-19  | 4-19  | 8-19  | 8-22   | 8-22   | 8-22   | 12-25  | 12-25  |
|            |            | inch | 4-3/4 | 4-3/4 | 4-3/4 | 8-3/4 | 8-7/8  | 8-7/8  | 8-7/8  | 12-1   | 12-1   |
|            | WEIGHT     | lb   | 25.35 | 38.14 | 46.30 | 79.37 | 121.25 | 156.53 | 266.76 | 432.11 | 639.34 |
|            |            | Kg   | 11.50 | 17.3  | 21.0  | 36.0  | 55.0   | 71.0   | 121.0  | 196    | 290    |

\*With Proper Machining Capabilities.

\*Not to be used for reciprocation air compressor applications.

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# Term Glossary

## Terms

**BLV** - Ball Valve  
**BFV** - Butterfly Valve  
**BRZ.** - Bronze  
**B.W.** - Butt-Weld  
**°C** - Degree Celsius  
**C.I.** - Cast Iron (Gray Iron)  
**C.S.** - Carbon Steel  
**CWP** - Cold Working Pressure  
**D.I.** - Ductile Iron  
**°F** - Degree Fahrenheit  
**FF. FLG.** - Flat Face Flange  
**N.R.S.** - Non-Rising Stem  
**O.D.** - Outside Diameter  
**OS&Y** - Outside Screw & Yoke  
**PSI** - Pounds Per Square Inch  
**RF. FLG.** - Raised Face Flange  
**SB** - Screw-in Bonnet  
**Spec.** - Specification  
**S.S.** - Stainless Steel  
**STD** - Standard  
**S.W.** - Socket-weld  
**SWP** - Steam Working Pressure  
**Temp** - Temperature  
**Thrd** - Threaded  
**WOG** - Water-Oil-Gas Service  
**WWP** - Water Working Pressure

## Standards

**ANSI** - American National Standards Institute  
**ASME** - American Society of Mechanical Engineering  
**API** - American Petroleum Institute  
**ASTM** - American Society for Testing Material  
**AWWA** - American Water Works Association  
**CSA** - Canadian Standards Association  
**FM** - Factory Mutual Fire Insurance Companies  
**MSS** - Manufacturers Standardization Society of the Valve and Fittings Industry  
**NACE** - The National Association of Corrosion Engineers  
**NFPA** - National Fire Protection Association  
**NSF** - National Sanitation Foundation, NSF/ANSI 61 Standard 61 for Potable Water Service  
**UL** - Underwriters' Laboratories Inc.  
**ULC** - Underwriters' Laboratories of Canada  
**UPC** - Unified Plumbing Code by IAPMO

# Pressure and Temperature Rating

## Carbon Steel

| A105 (A216 WCB CARBON STEEL) |                                   |     |      |      |      |      |
|------------------------------|-----------------------------------|-----|------|------|------|------|
| TEMP. (°F)                   | WORKING PRESSURE IN PSIG BY CLASS |     |      |      |      |      |
|                              | 150                               | 300 | 600  | 900  | 1500 | 2500 |
| -20 to 100                   | 285                               | 740 | 1480 | 2220 | 3705 | 6170 |
| 200                          | 260                               | 675 | 1350 | 2025 | 3375 | 5625 |
| 300                          | 230                               | 655 | 1315 | 1970 | 3280 | 5470 |
| 400                          | 200                               | 635 | 1270 | 1900 | 3170 | 5280 |
| 500                          | 170                               | 600 | 1200 | 1795 | 2995 | 4990 |
| 600                          | 140                               | 550 | 1095 | 1640 | 2735 | 4560 |
| 650                          | 125                               | 535 | 1075 | 1610 | 2685 | 4475 |
| 700                          | 110                               | 535 | 1065 | 1600 | 2665 | 4440 |
| 750                          | 95                                | 505 | 1010 | 1510 | 2520 | 4200 |
| 800                          | 80                                | 410 | 825  | 1235 | 2060 | 3430 |
| 850                          | 65                                | 270 | 535  | 805  | 1340 | 2230 |
| 900                          | 50                                | 170 | 345  | 515  | 860  | 1430 |
| 950                          | 35                                | 105 | 205  | 310  | 515  | 860  |
| 1000                         | 20                                | 50  | 105  | 155  | 260  | 430  |

Table from ANSI B16.34

## Stainless Steel

| A182 - F316 (A351 CF8M, CF3M STAINLESS STEEL) |                                   |     |      |      |      |      |
|-----------------------------------------------|-----------------------------------|-----|------|------|------|------|
| TEMP. (°F)                                    | WORKING PRESSURE IN PSIG BY CLASS |     |      |      |      |      |
|                                               | 150                               | 300 | 600  | 900  | 1500 | 2500 |
| -20 to 100                                    | 275                               | 742 | 1440 | 2160 | 3600 | 6000 |
| 200                                           | 240                               | 620 | 1240 | 1860 | 3095 | 5160 |
| 300                                           | 215                               | 560 | 1120 | 1680 | 2795 | 4666 |
| 400                                           | 195                               | 515 | 1030 | 1540 | 2570 | 4280 |
| 500                                           | 170                               | 480 | 955  | 1435 | 2390 | 3980 |
| 600                                           | 140                               | 450 | 905  | 1355 | 2255 | 3760 |
| 650                                           | 125                               | 445 | 890  | 1330 | 2220 | 3700 |
| 700                                           | 110                               | 430 | 865  | 1295 | 2160 | 3600 |
| 750                                           | 95                                | 425 | 845  | 1270 | 2110 | 3520 |
| 800                                           | 80                                | 415 | 830  | 1245 | 2075 | 3460 |
| 850                                           | 65                                | 405 | 810  | 1215 | 2030 | 3320 |
| 900                                           | 50                                | 395 | 790  | 1180 | 1970 | 3280 |
| 950                                           | 35                                | 385 | 775  | 1160 | 1930 | 3220 |
| 1000                                          | 20                                | 365 | 720  | 1090 | 1820 | 3030 |

Table from ANSI B16.34

## Bronze Alloy

| ASTM B62 AND B61 BRONZE ALLOY |                                          |        |          |        |
|-------------------------------|------------------------------------------|--------|----------|--------|
| TEMP. (°F)                    | PRESSURE CLASS BY MATERIAL AND END STYLE |        |          |        |
|                               | ASTM B62                                 |        | ASTM B61 |        |
|                               | 1252,3                                   | 1503   | 2003     | 3003   |
|                               | Thread                                   | Thread | Thread   | Thread |
| -20 to 100                    | 200                                      | 300    | 400      | 600    |
| 200                           | 185                                      | 270    | 375      | 560    |
| 250                           | 170                                      | 240    | 350      | 525    |
| 300                           | 155                                      | 210    | 325      | 490    |
| 350                           | 140                                      | 180    | 300      | 450    |
| 400                           | --                                       | --     | 275      | 410    |
| 406                           | 1251                                     | 1501   | --       | --     |
| 450                           | 120                                      | 145    | 250      | 375    |
| 500                           | --                                       | --     | 225      | 340    |
| 550                           | --                                       | --     | 200      | 300    |

Table from MSS SP-80

- Some Codes (i.e. ASME BPVC, Section 1) limit the rating temperature of indicated material to 406°F.
- Buna-N disc valves limited to 180°F temperature.
- PTFE disc valves limited to 450°F temperature.
- The Pressure & temperature ratings of Solder end valves vary with the solder & the size.

## Cast and Ductile Iron

| CAST IRON AND DUCTILE IRON |                                           |         |         |           |         |              |
|----------------------------|-------------------------------------------|---------|---------|-----------|---------|--------------|
| TEMP. (°F)                 | PRESSURE CLASS BY MATERIAL AND VALVE SIZE |         |         |           |         |              |
|                            | Cast Iron                                 |         |         |           |         | Ductile Iron |
|                            | Class 125                                 |         |         | Class 250 |         | Class 150    |
|                            | 2"-12"                                    | 14"-24" | 30"-48" | 2"-12"    | 14"-24" | 2"-12"       |
| -20 to 100                 | 200                                       | 150     | 150     | 500       | 300     | 285          |
| 150                        | 200                                       | 150     | --      | 500       | 300     | 243          |
| 200                        | 190                                       | 135     | 115     | 460       | 280     | 235          |
| 225                        | 180                                       | 130     | 100     | 440       | 270     | --           |
| 250                        | 175                                       | 125     | 85      | 415       | 260     | 225          |
| 275                        | 170                                       | 120     | 65      | 395       | 250     | --           |
| 300                        | 165                                       | 110     | 50      | 375       | 240     | 215          |
| 325                        | 155                                       | 105     | --      | 355       | 230     | --           |
| 350                        | 150                                       | 100     | --      | 335       | 220     | 210          |
| 375                        | 145                                       | --      | --      | 315       | 210     | --           |
| 400                        | 140                                       | --      | --      | 290       | 200     | 200          |
| 425                        | 130                                       | --      | --      | 270       | --      | --           |
| 450*                       | 125                                       | --      | --      | 250       | --      | 185          |
| 500                        | --                                        | --      | --      | --        | --      | 170          |
| 550                        | --                                        | --      | --      | --        | --      | 155          |
| 600                        | --                                        | --      | --      | --        | --      | 140          |
| 650                        | --                                        | --      | --      | --        | --      | 125          |

The temperature shown for the corresponding rating shall be the material temperature of the pressure rating parts. It shall be assumed that the metal temperature will be the temperature of the contained fluid. Use of a pressure rating at a metal temperature other than that of the contained fluid shall be the responsibility of the user.

- Buna-N disc valves limited to 180 °F or PTFE disc valves limited to 450°F; \* Maximum temperature for bronze trim or PTFE.

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# Cross Reference Chart

## IRON GATE, GLOBE AND CHECK VALVES

| NCI                                       | NIBCO             | CRANE     | JENKINS     | KITZ | RED & WHITE |
|-------------------------------------------|-------------------|-----------|-------------|------|-------------|
| <b>Cast Iron Gate Valves (Class 125)</b>  |                   |           |             |      |             |
| GTVA-FCI1333-HW                           | F-617             | 465 1/2   | 454J        | 72   | 421JA       |
| GTVB-FCI1333-HW                           | F-619             | 461       | 452J        | 75   | 415JA       |
| <b>Cast Iron Globe Valves (Class 125)</b> |                   |           |             |      |             |
| GLBA-FCI1333-HW                           | F-718-B           | 351       | 2342J       | 76   | 400JA       |
| <b>Cast Iron Check Valves (Class 125)</b> |                   |           |             |      |             |
| CKVA-FCI1330                              | T-918-B / F-918-B | 372 / 373 | 588J / 587J | 78   | 435JA       |

## BRONZE, GATE, GLOBE AND CHECK VALVES

| NCI                                                          | NIBCO            | CRANE          | JENKINS           | KITZ       | RED & WHITE |
|--------------------------------------------------------------|------------------|----------------|-------------------|------------|-------------|
| <b>Bronze Gate Valves (Class 125, Class 150, Class 300)</b>  |                  |                |                   |            |             |
| GTVA-(T/S)BZ2333                                             | T/S-111, T/S-131 | 428, 1322, 431 | 810J, 813J, 2810J | 24, 44, 25 |             |
| GTVB-(T/S)BZ2333                                             | T/S113 & T/S-133 | 438, 1324, 437 | 310J, 313J, 2310J | 40, 41, 46 | 280A, 281A  |
| GTVA-(T/S)BZ2333U                                            | T/S-134          | 431UB          | 47CUJ             | 42         | 298         |
| GTVA-TBZ3333U                                                | T-174A           |                |                   | 37         |             |
| <b>Bronze Globe Valves (Class 125, Class 150, Class 300)</b> |                  |                |                   |            |             |
| GLBA-T-BZ2360                                                | T-235-Y          | 7TF            | 106BJ             | 9          | 221         |
| GLBA-S-BZ2360                                                | S-235-Y          | 1310           | 106BPJ            | 10         | 222         |
| GLBA-T-BZ2330                                                |                  |                |                   |            |             |
| GLBA-S-BZ2330                                                |                  |                |                   |            |             |
| GLBA-TBZ3333U                                                | T-276-A          |                |                   |            |             |
| GLBA-TBZ3443U                                                | T-276-AP         | 382P           | 592J              | 17S        |             |
| <b>Bronze Check Valves (Class 125, Class 150, Class 300)</b> |                  |                |                   |            |             |
| CKVB-T-BZ2373                                                | T-480-Y          | 29             | 119               |            |             |
| CKVB-S-BZ2373                                                | S-480-Y          |                |                   |            |             |
| CKVA-T-BZ2331                                                | T-433-B          | 137            | 4092J             | 29         | 238         |
| CKVA-S-BZ2331                                                | S-433-B          | 1342           | 4093J             | 30         |             |
| CKVA-T-BZ2361                                                | T-433-Y          | 141T           | 4475TJ            |            |             |
| CKVA-S-BZ2361                                                | S-433-Y          |                |                   |            |             |
| CKVA-T-BZ3330                                                | T-473-B, T473-Y  | 76E            | 4962J             |            | 360         |

# Cross Reference Chart

## BRONZE AND BRASS BALL VALVES

| NCI                                         | NIBCO       | CRANE | JENKINS | KITZ | RED & WHITE | MAS  |
|---------------------------------------------|-------------|-------|---------|------|-------------|------|
| Bronze Ball Valves (2 Piece & 3 Piece Body) |             |       |         |      |             |      |
| TFP-620                                     | T-585-70    |       |         | 71   |             |      |
| SFP-620                                     | S-585-70    |       |         | 32   |             |      |
| TFP-620-LL                                  | T-585-70-LL |       |         | 77C  |             |      |
| SFP-620-LL                                  | S-585-70-LL |       |         |      |             |      |
| TFP-620-SS                                  | T-585-70-66 | 9302S |         |      |             |      |
| SFP-620-SS                                  | S-585-70-66 | 9322S |         |      |             |      |
| TFP-630                                     | T-590-Y     |       |         | 82   |             |      |
| SFP-630                                     | S-590-Y     |       |         |      |             |      |
| Brass Ball Valves (2 Piece & 3 Piece Body)  |             |       |         |      |             |      |
| TFP600                                      |             | F9201 | 201J    | 58   | 5044A       | B3   |
| SFP600                                      |             | F9202 | 202J    | 59   | 5049A       | B4   |
| TFP601                                      |             |       |         | 58   |             |      |
| SFP601                                      |             |       |         | 59   |             |      |
| TFP601S                                     |             |       | 201SJ   | 68M  |             | B3SS |
| SFP601S                                     |             |       | 202SJ   | 69M  |             | B4SS |
| TFP600HC                                    |             |       |         | 68C  | 5046        |      |
| SFP600HC                                    |             |       |         | 69C  |             |      |
| TFP600D                                     |             |       |         | 68D  | 5050        | B3D  |
| SFP600D                                     |             |       |         | 69D  |             | B4D  |

## IRON BUTTERFLY VALVES

| NCI (CI) /<br>FLOW+ (DI)                 | NIBCO (CI/DI)       | BRAY   | CENTERLINE   | CRANE   | JENKINS | KITZ    |
|------------------------------------------|---------------------|--------|--------------|---------|---------|---------|
| Butterfly Valves (Wafer Style - 200 PSI) |                     |        |              |         |         |         |
| XX-B1546353                              | N200137LH / WD20203 | 30-SEL | L200W-E-SS-L | 42SSZBL | 2221ELJ | 5132-EL |
| XX-B1546355                              | N200137GO / WD20205 | 30-SEG | L200W-E-SS-G | 42SSZG  | 2221EGJ | 5132-EG |
| XX-B2245353                              | N200147LH / WD21203 | 30-SBL | L200W-B-SS-L | 42SSBL  | 2221BLJ | 5132-BL |
| XX-B2245355                              | B200147GO / WD21205 | 30-SBG | L200W-B-SS-G | 42SSBG  | 2221BGJ | 5132-BG |
| Butterfly Valves (Lug Style - 200 PSI)   |                     |        |              |         |         |         |
| XX-B1546353 /<br>XX-C2245353             | N200137LH / WD20203 | 31-SEL | L200L-E-SS-L | 44SSZL  | 2231ELJ | 6132-EL |
| XX-B1546355 /<br>XX-C2245355             | N200137GO / WD20205 | 31-SEG | L200L-E-SS-G | 44SSZG  | 2231EGJ | 6132-EG |
| XX-C2245313                              | N200147LH / WD21203 | 31-SBL | L200L-B-SS-L | 44SSBL  | 2231BLJ | 6132-BL |
| XX-C2245315                              | B200147GO / WD21205 | 31-SBG | L200L-B-SS-G | 44SSBG  | 2231BGJ | 6132-BG |

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