



Ball Valves

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| UPBA481B | 200 psig @ 250° F, Press x Press End w/ Extension Stem & Memory Stop, Brass Body, Blow-Out Proof Stem, Full Port | UP-17 |
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Gate Valves

| Figure # | Description | Page |
|-----------|--|-------|
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Globe Valves

| Figure # | Description | Page |
|----------|---|-------|
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Check Valves

| Figure # | Description | Page |
|-----------|---|-------|
| UP904 | 200 WOG, Threaded End, Bronze Body and Disc, Swing Check | UP-34 |
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Butterfly Valves

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|----------------|--|----------|
| 5000 Series | 200 WOG, Cast Iron Body, Aluminum Bronze Disc, EPDM Liner (2" - 12") | UP-42 |
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| 6000 Series | 200 WOG, Ductile Iron Body, Aluminum Bronze Disc, EPDM Liner (2" - 12") | UP-44 |
| 6000 Series | 150 WOG, Ductile Iron Body, Aluminum Bronze Disc, EPDM Liner (14" - 24") | UP-45 |
| HP Series | Class 150 and 300, Stainless Steel Body (2 1/2" - 24") | UP-46-51 |
| Grooved Series | 300 psi, Grooved End | UP-52-53 |

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UP8501/8503 1/4"-3"

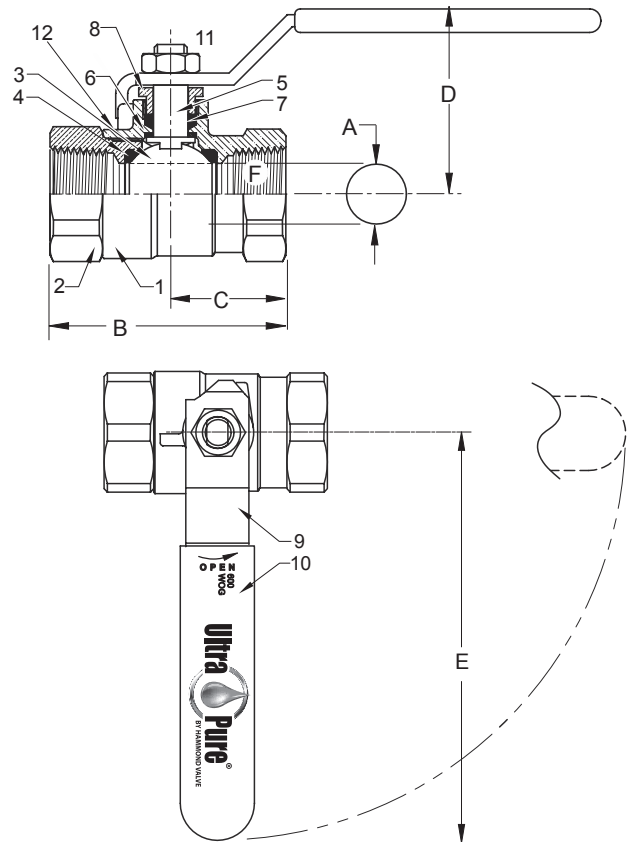


Bronze Ball Valve For Potable Water
Two Piece
Standard Port (1" - 3") Full Port (1/4" - 3/4")
600 psig WOG
Threaded Ends
Blow-Out Proof Stem
Dimensions and Workmanship Conform to MSS SP-110

MATERIAL LIST

| ITEM | PART | MATERIAL | ASTM SPEC |
|------|---------------|-----------------------------|----------------|
| 1 | Body | Cast Bronze | B584 C89833 |
| 2 | Tailpiece | Cast Bronze | B584 C89833 |
| 3 | Ball | Brass w/Hard Chrome Plating | B283 C27450 |
| | | 316 Stainless Steel (1) | A276 S31600 |
| 4 | Seat | RPTFE, 15% Glass filled | Commercial |
| 5 | Stem | Brass | B21 C46400 |
| | | 316 Stainless Steel (1)(2) | A276 S31600 |
| 6 | Thrust Washer | RPTFE, 25% Glass Filled | Commercial |
| 7 | Packing | PTFE | Commercial |
| 8 | Packing Nut | Brass | B16 C36000 |
| 9 | Handle | Steel w/Zinc Plating | B633 |
| 10 | Handle Grip | Vinyl | Commercial |
| 11 | Handle Nut | Steel w/Zinc Plating | B633 |
| 12* | Body Seal | PTFE | Commercial |

- (1) Ball and stem are stainless for UP8503
 (2) Ball and stem are stainless for 2 1/2" & 3" UP8501



DIMENSIONS

| UNITS | | 1/4" DN6 | 3/8" DN10 | 1/2" DN15 | 3/4" DN20 | 1" DN25 | 1-1/4" DN32 | 1-1/2" DN40 | 2" DN50 | 2-1/2" DN65 | 3" DN80 |
|------------|-------------|-------------|--------------|--------------|--------------|------------|----------------|----------------|------------|----------------|------------|
| A (DIA) | INCHES | 0.38 | 0.38 | 0.50 | 0.76 | 0.88 | 1.06 | 1.31 | 1.56 | 2.00 | 2.31 |
| | mm | 10 | 10 | 13 | 19 | 22 | 27 | 33 | 40 | 51 | 59 |
| B | INCHES | 1.86 | 1.86 | 2.19 | 2.59 | 3.17 | 3.50 | 3.96 | 4.30 | 5.58 | 6.17 |
| | mm | 46 | 46 | 54 | 66 | 78 | 86 | 97 | 105 | 142 | 157 |
| C | INCHES | 1.00 | 1.00 | 1.10 | 1.30 | 1.58 | 1.74 | 1.97 | 2.15 | 2.79 | 3.10 |
| | mm | 25 | 25 | 27 | 32 | 39 | 43 | 48 | 53 | 71 | 79 |
| D | INCHES | 1.78 | 1.81 | 1.91 | 2.08 | 2.25 | 2.66 | 2.84 | 3.00 | 3.44 | 3.84 |
| | mm | 44 | 44 | 47 | 51 | 55 | 65 | 70 | 74 | 87 | 98 |
| E | INCHES | 3.81 | 3.81 | 3.81 | 4.56 | 4.56 | 6.31 | 6.31 | 7.19 | 7.19 | 7.19 |
| | mm | 93 | 93 | 93 | 112 | 112 | 155 | 155 | 176 | 176 | 176 |
| F | THREAD SIZE | 1/4" NPT | 3/8" NPT | 1/2" NPT | 3/4" NPT | 1" NPT | 1-1/4" NPT | 1-1/2" NPT | 2" NPT | 2-1/2" NPT | 3" NPT |
| Cv | | 7 | 7 | 13 | 30 | 38 | 61 | 87 | 121 | 228 | 305 |

Note: DN (Diameter Nominal) = Metric equivalent size.
 *2-1/2" & 3" Only.

Note: Lead free refers to the wetted surface of the pipe, fittings and fixtures in potable water systems that have a weighted average lead content ≤0.25%. Source: California Health and Safety Code (116875).

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UP8501/8503 P2* 1/2"-3"

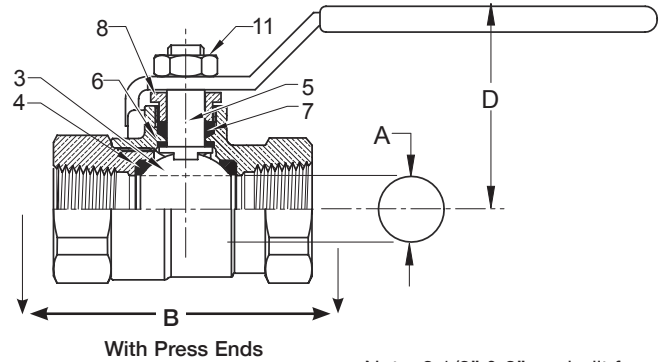
Bronze Ball Valve For Potable Water
Two Piece
Standard Port (1" - 3") Full Port (1/2" - 3/4")
200 psig @ 250°F†
Press x Press Ends
Press x Threaded Ends Available (Consult Factory)
Blow-Out Proof Stem

Dimensions and Workmanship Conform to MSS SP-110

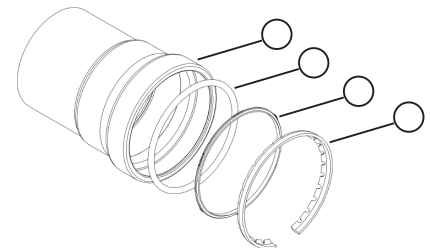
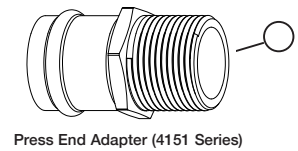
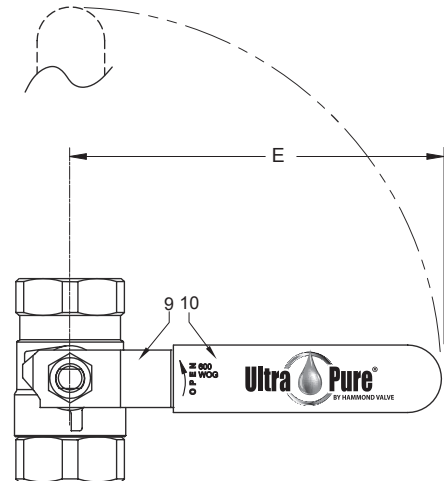
MATERIAL LIST

| ITEM | PART | MATERIAL | ASTM SPEC |
|------|----------------|---|----------------------|
| 1 | Body | Cast Bronze | B584 C89833 |
| 2 | Tailpiece | Cast Bronze | B584 C89833 |
| 3 | Ball | Brass w/Hard Chrome Plating | B283 C27450 |
| | | 316 Stainless Steel (1) | A276 S31600 |
| 4 | Seat | RPTFE, 15% Glass filled | |
| 5 | Stem | Brass | B21 C46400 H02 |
| | | 316 Stainless Steel (1) | A276 S31600 |
| 6 | Thrust Washer | RPTFE, 25% Glass Filled | |
| 7 | Packing | PTFE | |
| 8 | Packing Nut | Brass | B16 C36000 |
| 9 | Handle | Steel w/Zinc Plating | Commercial |
| 10 | Handle Grip | Vinyl | Commercial |
| 11 | Handle Nut | Steel w/Zinc Plating | Commercial |
| 12 | Press Adapters | Brass Fitting w/EPDM O-Ring (1/2" - 2") | B283 C27450 |
| | | Copper (2 1/2" - 3") | B88 |
| 13 | O-Ring | EPDM | |
| 14 | Backing Seal | Acetal | |
| 15 | Backing Ring | 304 Stainless Steel | A276 |

(1) Ball and stem are stainless for UP8503 P2



Note: 2 1/2" & 3" are built from UP8511/UP8513 Valve



DIMENSIONS

| | UNITS | 1/2" | 3/4" | 1" | 1-1/4" | 1-1/2" | 2" | 2-1/2" | 3" |
|---------------|--------|------|------|------|--------|--------|-------|--------|-------|
| | | DN15 | DN20 | DN25 | DN32 | DN40 | DN50 | DN65 | DN80 |
| A (DIA) | INCHES | 0.50 | 0.76 | 0.88 | 1.07 | 1.32 | 1.57 | 2.00 | 2.31 |
| | mm | 13 | 19 | 22 | 27 | 33 | 40 | 51 | 59 |
| STD Insertion | INCHES | 0.87 | 0.98 | 0.98 | 1.02 | 1.42 | 1.58 | 1.80 | 2.10 |
| | mm | 22 | 25 | 25 | 26 | 36 | 40 | 46 | 53 |
| B | INCHES | 5.19 | 6.17 | 7.17 | 7.57 | 8.44 | 10.30 | 12.02 | 13.94 |
| | mm | 132 | 157 | 182 | 192 | 214 | 262 | 305 | 354 |
| D | INCHES | 1.91 | 2.32 | 2.68 | 2.82 | 3.00 | 3.36 | 3.47 | 3.88 |
| | mm | 47 | 59 | 68 | 72 | 76 | 85 | 88 | 99 |
| E | INCHES | 3.82 | 4.55 | 4.56 | 6.33 | 6.33 | 7.19 | 7.19 | 7.19 |
| | mm | 94 | 116 | 116 | 161 | 161 | 183 | 183 | 183 |

Note: DN (Diameter Nominal)=Metric equivalent size.

†Non-Shock

*Both the valve and 4151 series press end adapters are tested and certified by IAPMO R & T to NSF/ANSI 61 and NSF/ANSI 372 for "Lead Free" compliance.

Note: Lead free refers to the wetted surface of the pipe, fittings and fixtures in potable water systems that have a weighted average lead content $\leq 0.25\%$. Source: California Health and Safety Code (116875).

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UP8501H/UP8511H 1/2" & 3/4"



Bronze Ball Valve For Potable Water
Two Piece
Full Port
600 WOG
Threaded x 3/4" Hose End (UPBA100H)
Solder x 3/4" Hose End (UPBA150H)
Dust Cap and Chain
Blow-Out Proof Stem

Dimensions and Workmanship Conform to MSS SP-110

MATERIALS LIST

| ITEM | PART | MATERIALS | ASTM SPEC. |
|------|---------------|---|-----------------|
| 1 | Body | Cast Bronze | B584 C89833 |
| 2 | Tailpiece | Brass | B283 C27450 |
| 3 | Ball | Brass, Chrome Plated | B283 C27450 |
| 4 | Seat | PTFE (1/2") RPTFE 25% Glass Filled (3/4") | Commercial |
| 5 | Stem | Brass | B21 C46400, H02 |
| 6 | Thrust Washer | RPTFE, 25% Glass Filled | Commercial |
| 7 | Packing | PTFE | Commercial |
| 8 | Packing Nut | Brass | B16 C36000 |
| 9 | Handle | Steel, Zinc Plated | Commercial |
| 10 | Handle Grip | Vinyl | Commercial |
| 11 | Handle Nut | Steel, Zinc Plated | Commercial |
| 12 | Dust Cap | Polypropylene | Commercial |
| 13 | Gasket | EDPM | Commercial |
| 14 | Chain | Brass Bead | Commercial |

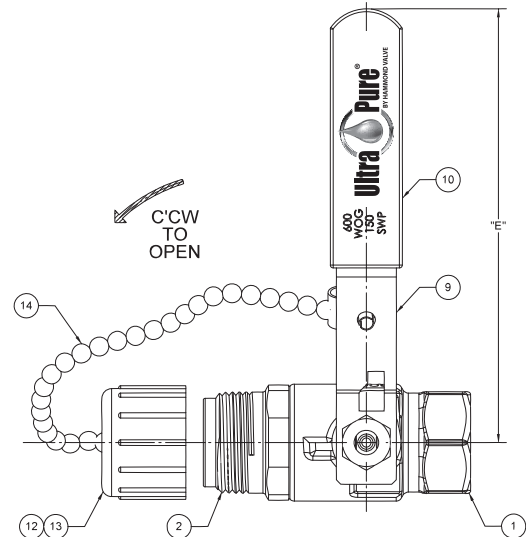
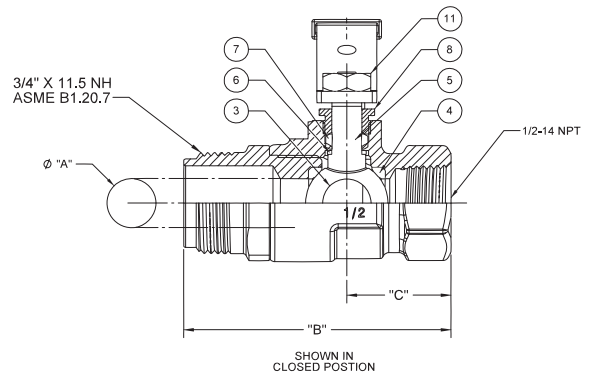
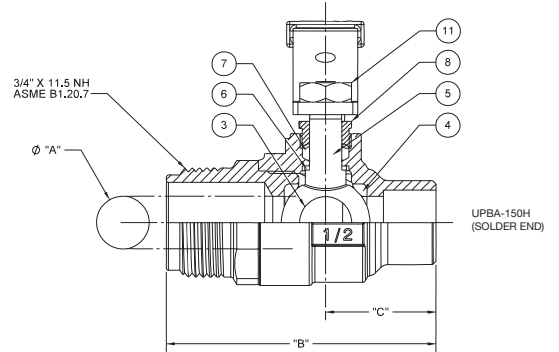
Do not pressurize cap.
Pressure not to exceed 40 psi.

Note: Pressure/Temperature rating shown are for VALVE ONLY. Hose side pressure and temperature limit is based on connected hose and is users responsibility

DIMENSIONS

| | UNITS | 1/2" DN15 | 3/4" DN20 |
|-------------|----------------|-----------|-----------|
| ØA | INCHES | 0.50 | 0.76 |
| | mm | 13 | 19 |
| B (BA-100) | INCHES | 2.70 | 2.90 |
| | mm | 69 | 74 |
| B' (BA-150) | INCHES | 2.55 | 3.05 |
| | mm | 65 | 78 |
| C (BA-100) | INCHES | 1.10 | 1.30 |
| | mm | 28 | 33 |
| C' (BA-150) | INCHES | 1.10 | 1.45 |
| | mm | 28 | 37 |
| D | INCHES | 1.88 | 2.14 |
| | mm | 48 | 54 |
| E | INCHES | 3.81 | 4.62 |
| | mm | 97 | 117 |
| F | THREADED INLET | NPT | NPT |
| Cv | | 13 | 30 |

Note: DN (Diameter Nominal) = Metric equivalent size.
 †Non-Shock



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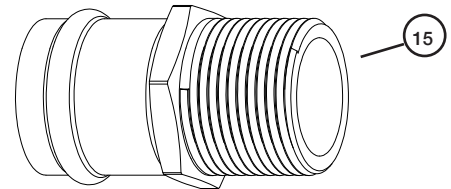
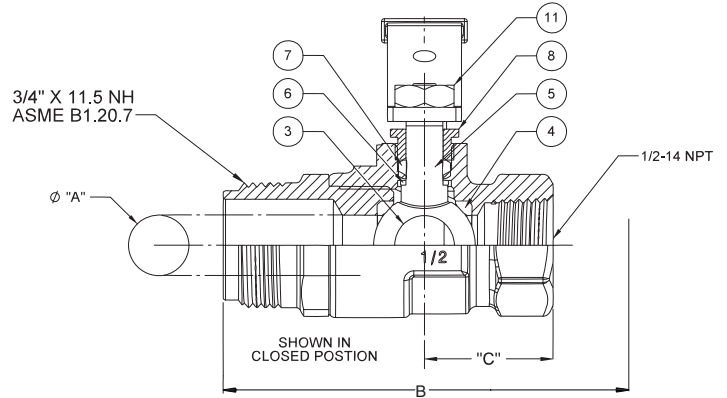
UP8501H P1* 1/2" & 3/4"

Bronze Ball Valve For Potable Water
Two Piece
Full Port
200 psig @ 250°F†
Press x 3/4" Hose End
Dust Cap and Chain
Blow-Out Proof Stem

Dimensions and Workmanship Conform to MSS SP-110

MATERIAL LIST

| ITEM | PART | MATERIAL | ASTM SPEC |
|------|---------------|---|--------------------|
| 1 | Body | Cast Bronze | B548 C27450 |
| 2 | Tailpiece | Brass | B283 C27450 |
| 3 | Ball | Brass, Chrome Plated | B283 C27450 |
| 4 | Seat | PTFE (1/2") RPTFE 15% Glass Filled (3/4") | Commercial |
| 5 | Stem | Brass | B21 C46400, H02 |
| 6 | Thrust Washer | RPTFE, 25% Glass Filled | Commercial |
| 7 | Packing | PTFE | Commercial |
| 8 | Packing Nut | Brass | B16 C36000 |
| 9 | Handle | Steel, Zinc Plated | Commercial |
| 10 | Handle Grip | Vinyl | Commercial |
| 11 | Handle Nut | Steel, Zinc Plated | Commercial |
| 12 | Dust Cap | Polypropylene | Commercial |
| 13 | Gasket | EDPM | Commercial |
| 14 | Chain | Brass Bead | Commercial |
| 15 | Press Adapter | Brass Fitting w/EPDM O-Ring | B283 C27450 |



Press End Adapter (4151 Series)

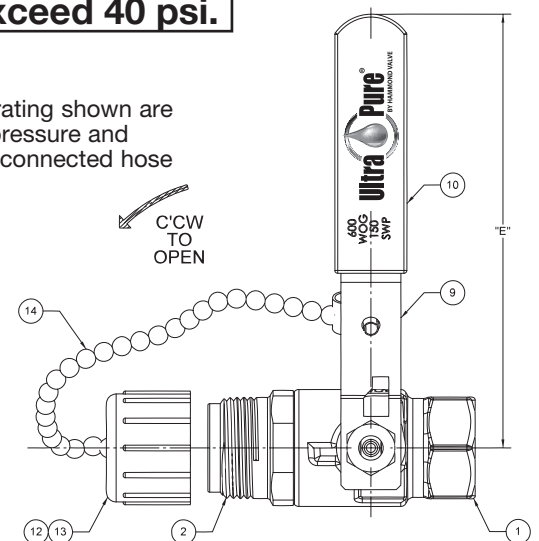
DIMENSIONS

| | UNITS | 1/2" | 3/4" |
|---------------------------|-----------------|------------|-------------|
| | | DN15 | DN20 |
| A | INCHES mm | 0.50 13 | .76 19 |
| B | INCHES mm | 2.70 69 | 2.90 74 |
| STD INSERTION DEPTH | INCHES mm | .87 22 | .98 25 |
| C | INCHES mm | 1.10 28 | 1.30 33 |
| D | INCHES mm | 1.88 48 | 2.14 54 |
| E | INCHES mm | 3.81 97 | 4.62 117 |
| F | THREAD INLET | NPT | NPT |
| Cv | | 13 | 30 |

Note: DN (Diameter Nominal) = Metric equivalent size.
 †Non-Shock

Do not pressurize cap.
Pressure not to exceed 40 psi.

Note: Pressure/Temperature rating shown are for VALVE ONLY. Hose side pressure and temperature limit is based on connected hose and is users responsibility



*Both the valve and 4151 series press end adapters are tested and certified by IAPMO R & T to NSF/ANSI 61 and NSF/ANSI 372 for "Lead Free" compliance.

Note: Lead free refers to the wetted surface of the pipe, fittings and fixtures in potable water systems that have a weighted average lead content $\leq 0.25\%$. Source: California Health and Safety Code (116875).

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UP8511/8513 3/8"-3"



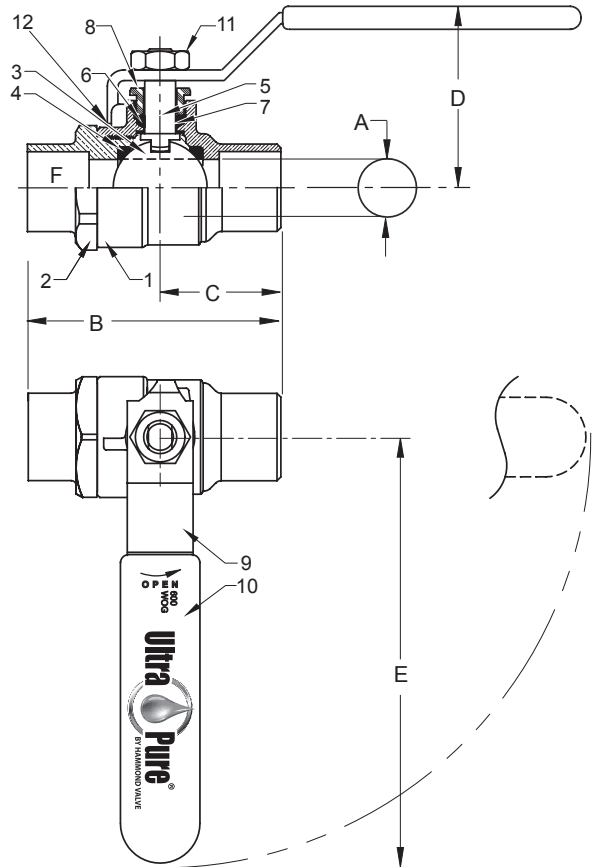
Bronze Ball Valve For Potable Water
Two Piece
Standard Port (1" - 3") Full Port (3/8" - 3/4")
600 psig WOG
Solder Ends
Blow-Out Proof Stem
Dimensions and Workmanship Conform to MSS SP-110

MATERIAL LIST

| ITEM | PART | MATERIAL | ASTM SPEC |
|------|---------------|-----------------------------|----------------|
| 1 | Body | Cast Bronze | B584 C89833 |
| 2 | Tailpiece | Cast Bronze | B584 C89833 |
| 3 | Ball | Brass w/Hard Chrome Plating | B283 C27450 |
| | | 316 Stainless Steel (1) | A276 S31600 |
| 4 | Seat | RPTFE, 15% Glass filled | |
| 5 | Stem | Brass | B21 C46400 |
| | | 316 Stainless Steel (1)(2) | A276 S31600 |
| 6 | Thrust Washer | RPTFE, 25% Glass Filled | Commercial |
| 7 | Packing | PTFE | Commercial |
| 8 | Packing Nut | Brass | B16 C36000 |
| 9 | Handle | Steel w/Zinc Plating | Commercial |
| 10 | Handle Grip | Vinyl | Commercial |
| 11 | Handle Nut | Steel w/Zinc Plating | Commercial |
| 12* | Body Seal | PTFE | Commercial |

(1) Ball and stem are stainless for UP8513

(2) Ball and stem are stainless for 2 1/2" & 3" UP8501



DIMENSIONS

| | UNITS | 3/8" DN10 | 1/2" DN15 | 3/4" DN20 | 1" DN25 | 1-1/4" DN32 | 1-1/2" DN40 | 2" DN50 | 2-1/2" DN65 | 3" DN80 |
|------------|---------------|--------------|--------------|--------------|------------|----------------|----------------|------------|----------------|------------|
| A (DIA) | INCHES | 0.38 | 0.50 | 0.76 | 0.88 | 1.06 | 1.31 | 1.56 | 2.00 | 2.31 |
| | mm | 10 | 13 | 19 | 22 | 27 | 33 | 40 | 51 | 59 |
| B | INCHES | 2.17 | 2.39 | 3.17 | 3.71 | 4.54 | 5.00 | 6.25 | 7.34 | 8.16 |
| | mm | 55 | 61 | 81 | 91 | 111 | 123 | 153 | 180 | 200 |
| C | INCHES | 0.90 | 1.07 | 1.50 | 1.76 | 2.27 | 2.50 | 3.13 | 3.67 | 4.07 |
| | mm | 22 | 26 | 38 | 43 | 56 | 61 | 77 | 90 | 100 |
| D | INCHES | 1.81 | 1.91 | 2.08 | 2.25 | 2.66 | 2.84 | 3.00 | 3.44 | 3.90 |
| | mm | 44 | 47 | 51 | 55 | 65 | 70 | 74 | 87 | 99 |
| E | INCHES | 3.81 | 3.81 | 4.56 | 4.56 | 6.31 | 6.31 | 7.19 | 7.19 | 7.19 |
| | mm | 97 | 97 | 116 | 116 | 160 | 160 | 183 | 183 | 183 |
| F | TUBE SIZEØ | 0.51 | 0.63 | 0.88 | 1.13 | 1.38 | 1.63 | 2.13 | 2.63 | 3.13 |
| Cv | | 7 | 13 | 35 | 38 | 61 | 87 | 121 | 196 | 231 |

Note: DN (Diameter Nominal) = Metric equivalent size.

Note: Lead free refers to the wetted surface of the pipe, fittings and fixtures in potable water systems that have a weighted average lead content ≤0.25%. Source: California Health and Safety Code (116875).

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⚠ State of California Prop 65 **WARNING:** Cancer and Reproductive Harm. For more information visit www.p65warnings.ca.gov.





Bronze Ball Valve For Potable Water
Three Piece
Full Port
600 psig WOG
Threaded Ends
Blow-Out Proof Stem

UP8604/8603 1/4"-3"

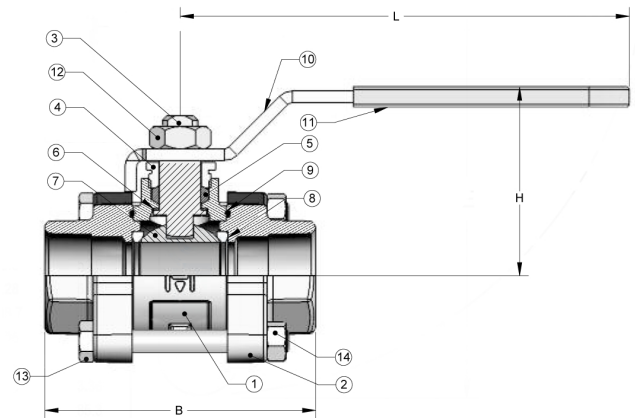
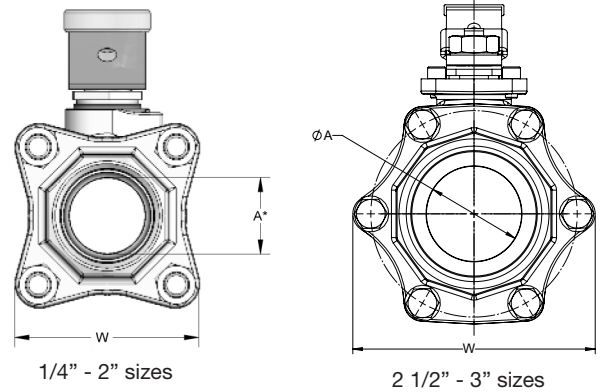


Dimensions and Workmanship Conform to MSS SP-110

MATERIALS LIST

| ITEM | PART | MATERIALS | ASTM SPEC. |
|------|---------------|-----------------------------|--------------------|
| 1 | Body | Cast Bronze | B584 C89833 |
| 2 | End Cap | Cast Bronze | B584 C89833 |
| 3 | Stem | Brass | B21 C46400, H02 |
| | | 316 Stainless Steel (1) | A276 |
| 4 | Packing Nut | Brass | B16 |
| 5 | Packing | PTFE | Commercial |
| 6 | Thrust Washer | RPTFE, 25% Glass Reinforced | Commercial |
| 7 | Ball | Brass w/Hard Chrome Plating | B283 C27450 |
| | | 316 Stainless Steel (1) | A276 |
| 8 | Seat | RPTFE, 15% Glass Filled | Commercial |
| 9 | O-Ring | Viton | Commercial |
| 10 | Handle | Steel w/Zinc Plating | Commercial |
| 11 | Handle Grip | Vinyl | Commercial |
| 12 | Handle Nut | Steel w/Zinc Plating | Commercial |
| 13 | Bolt | Steel w/Zinc Plating | Commercial |
| 14 | Nut | Steel w/Zinc Plating | Commercial |

(1) Ball and stem are stainless for UPBA300S



DIMENSIONS

| | UNITS | 1/4" DN6 | 3/8" DN10 | 1/2" DN15 | 3/4" DN20 | 1" DN25 | 1-1/4" DN32 | 1-1/2" DN40 | 2" DN50 | 2-1/2" DN 65 | 3" * DN 80 |
|----|-------------|-------------|--------------|--------------|--------------|------------|----------------|----------------|------------|-----------------|---------------|
| A | INCHES | 0.38 | 0.45 | 0.50 | 0.75 | 1.00 | 1.25 | 1.50 | 2.00 | 2.50 | 2.50 |
| | mm | 10 | 11 | 13 | 19 | 25 | 32 | 38 | 51 | 64 | 64 |
| B | INCHES | 2.68 | 2.68 | 3.03 | 3.56 | 3.82 | 4.86 | 5.06 | 5.90 | 6.84 | 6.84 |
| | mm | 68 | 68 | 77 | 90 | 97 | 123 | 129 | 150 | 174 | 174 |
| H | INCHES | 1.85 | 1.85 | 1.85 | 2.20 | 2.65 | 2.79 | 2.97 | 3.47 | 5.44 | 5.44 |
| | mm | 47 | 47 | 47 | 56 | 67 | 71 | 75 | 88 | 138 | 138 |
| L | INCHES | 4.03 | 4.03 | 4.06 | 4.58 | 6.30 | 6.32 | 7.20 | 7.20 | 8.00 | 8.00 |
| | mm | 102 | 102 | 103 | 116 | 160 | 161 | 183 | 183 | 203 | 203 |
| W | INCHES | 1.95 | 1.95 | 1.95 | 2.19 | 2.48 | 3.00 | 3.13 | 3.78 | 6.25 | 6.25 |
| | mm | 50 | 50 | 50 | 56 | 63 | 76 | 80 | 96 | 159 | 159 |
| F | THREAD SIZE | 1/4" NPT | 3/8" NPT | 1/2" NPT | 3/4" NPT | 1" NPT | 1-1/4" NPT | 1-1/2" NPT | 2" NPT | 2-1/2" NPT | 3" NPT |
| Cv | | 7 | 7 | 17 | 31 | 60 | 110 | 185 | 360 | 390 | 390 |

Note: DN (Diameter Nominal) = Metric equivalent size.

* 3" is Standard Port.

Note: Lead free refers to the wetted surface of the pipe, fittings and fixtures in potable water systems that have a weighted average lead content $\leq 0.25\%$. Source: California Health and Safety Code (116875).

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⚠ State of California Prop 65 **WARNING:** Cancer and Reproductive Harm. For more information visit www.p65warnings.ca.gov.



HAMMONDVALVE



UP8604/8603 P2* 1/2"-2"

Bronze Ball Valve For Potable Water
Three Piece
Full Port
200 psig @ 250°F†
Press x Press Ends
Blow-Out Proof Stem

Dimensions and Workmanship Conform to MSS SP-110

MATERIALS LIST

| ITEM | PART | MATERIALS | ASTM SPEC. |
|------|---------------|-----------------------------|--------------------|
| 1 | Body | Cast Bronze | B584 C89833 |
| 2 | End Cap | Cast Bronze | B584 C89833 |
| 3 | Stem | Brass | B21 C46400, H02 |
| | | 316 Stainless Steel (1) | A276 S31600 |
| 4 | Packing Nut | Brass | B16 C363000 |
| 5 | Packing | PTFE | Commercial |
| 6 | Thrust Washer | RPTFE, 25% Glass Reinforced | Commercial |
| 7 | Ball | Brass w/Hard Chrome Plating | B283 C27450 |
| | | 316 Stainless Steel (1) | A276 S31600 |
| 8 | Seat | RPTFE, 15% Glass Filled | Commercial |
| 9 | O-Ring | Viton | Commercial |
| 10 | Handle | Steel w/Zinc Plating | Commercial |
| 11 | Handle Grip | Vinyl | Commercial |
| 12 | Handle Nut | Steel w/Zinc Plating | Commercial |
| 13 | Bolt | Steel w/Zinc Plating | Commercial |
| 14 | Nut | Steel w/Zinc Plating | Commercial |
| 15 | Press Adaptor | Brass Fitting w/EPDM O-Ring | B283 C27450 |

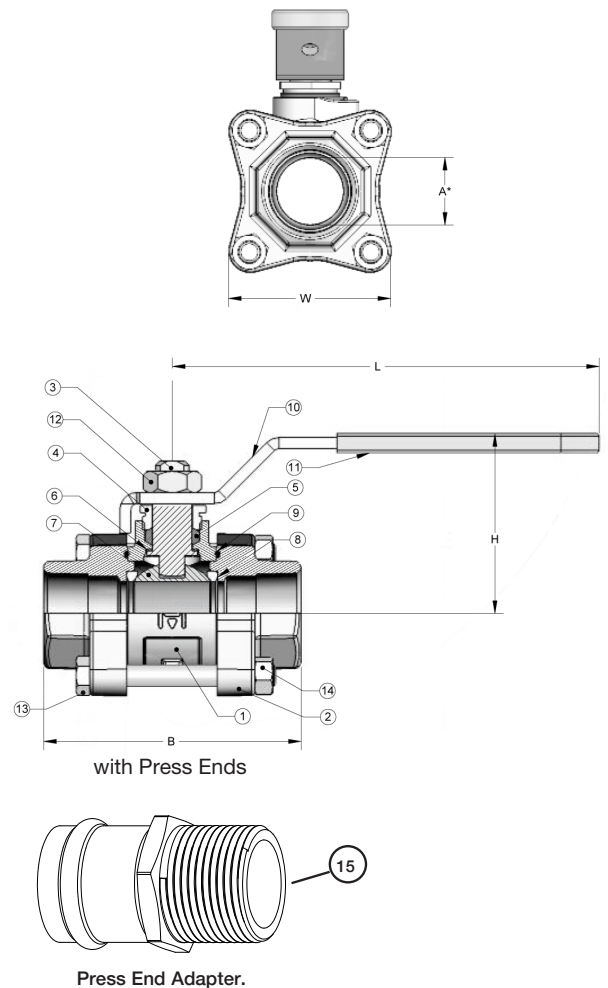
(1) Ball and stem are stainless for UPBA300S

DIMENSIONS

| | UNITS | 1/2" DN15 | 3/4" DN20 | 1" DN25 | 1-1/4" DN32 | 1-1/2" DN40 | 2" DN50 |
|---------------------------|----------------|--------------|--------------|------------|----------------|----------------|------------|
| A | INCHES | 0.50 | 0.75 | 1.00 | 1.25 | 1.50 | 2.00 |
| | mm | 13 | 19 | 25 | 32 | 38 | 51 |
| STD INSERTION DEPTH | INCHES | 0.87 | 0.98 | 0.98 | 1.02 | 1.42 | 1.58 |
| | mm | 22 | 25 | 25 | 26 | 36 | 40 |
| B | INCHES | 6.03 | 7.14 | 7.82 | 8.93 | 9.54 | 11.90 |
| | mm | 153 | 181 | 199 | 227 | 242 | 302 |
| H | INCHES | 1.85 | 2.20 | 2.65 | 2.79 | 2.97 | 3.47 |
| | mm | 47 | 56 | 67 | 71 | 75 | 88 |
| L | INCHES | 4.06 | 4.58 | 6.30 | 6.32 | 7.20 | 7.20 |
| | mm | 103 | 116 | 160 | 161 | 183 | 183 |
| W | INCHES | 1.95 | 2.19 | 2.48 | 3.00 | 3.13 | 3.78 |
| | mm | 50 | 56 | 63 | 76 | 80 | 96 |
| F | THREAD SIZE | 1/2" | 3/4" | 1" | 1 1/4" | 1 1/2" | 2" |
| | | NPT | NPT | NPT | NPT | NPT | NPT |
| Cv | INCHES | 17 | 31 | 60 | 110 | 185 | 360 |

Note: DN (Diameter Nominal) = Metric equivalent size.

†Non-Shock



*Both the valve and 4151 series press end adapters are tested and certified by IAPMO R & T to NSF/ANSI 61 and NSF/ANSI 372 for "Lead Free" compliance.

Note: Lead free refers to the wetted surface of the pipe, fittings and fixtures in potable water systems that have a weighted average lead content $\leq 0.25\%$. Source: California Health and Safety Code (116875).

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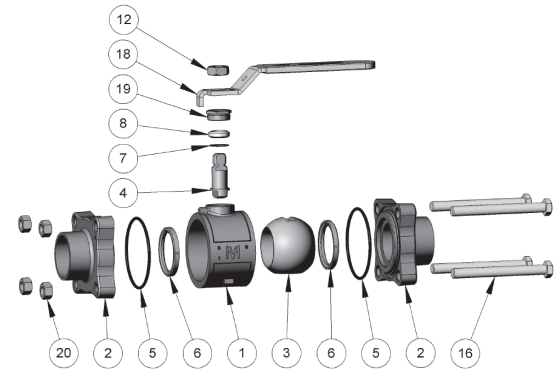
UP8614/8613 3/8"-3"



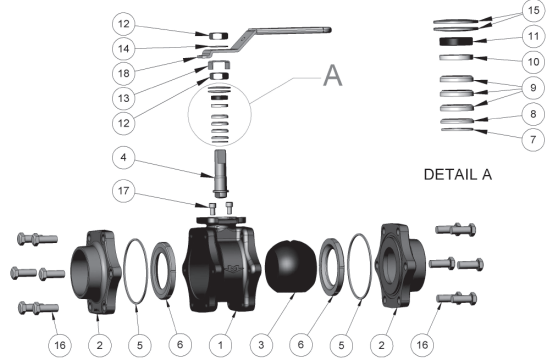
Bronze Ball Valve For Potable Water
Three Piece
Full Port*
600 psig WOG
Solder Ends
Blow-Out Proof Stem
Dimensions and Workmanship Conform to MSS SP-110

| ITEM | PART | MODEL/SIZE | MATERIALS | ASTM SPEC. |
|------|------------------------|-----------------|------------------------------|-----------------|
| 1 | Body | UP8614 & UP8613 | Cast Bronze | B584 C89833 |
| 2 | Tailpiece | UP8614 & UP8613 | Cast Bronze | B584 C89833 |
| 3 | Ball | UP8614 | Brass w/Hard Chrome Plating | B283 C27450 |
| | | UP8613 | 316 Stainless Steel | A276 S31600 |
| 4 | Stem | UP8614 | Brass | B21 C46400, H02 |
| | | UP8613 | 316 Stainless Steel | A276 S31600 |
| 5 | O-Ring | UP8614 & UP8613 | Viton | Commercial |
| 6 | Seat | UP8614 & UP8613 | 15 % Glass RPTFE | Commercial |
| 7 | Thrust, Washer | UP8614 & UP8613 | 25% Glass RPTFE | Commercial |
| 8 | Packing Male | 2- 1/2"-3" | PTFE | Commercial |
| | Packing | 3/8"-2" | PTFE | Commercial |
| 9 | Packing, "V" | UP8614 & UP8613 | PTFE | Commercial |
| 10 | Packing, Female | UP8614 & UP8613 | PTFE | Commercial |
| 11 | Packing Follower | UP8614 & UP8613 | Brass | B16 C36000 |
| 12 | Hex Jam Nut | UP8614 & UP8613 | Stainless Steel | Commercial |
| 13 | Nut Locker | UP8614 & UP8613 | Stainless Steel TYP. 301/302 | Commercial |
| 14 | Washer, Internal Tooth | UP8614 & UP8613 | Stainless Steel | Commercial |
| 15 | Belleville, Washer | UP8614 & UP8613 | Stainless Steel 17-7 PH | Commercial |
| 16 | Hex Head Cap Screw | UP8614 & UP8613 | Steel | SAE, Grade 8 |
| 17 | Socket Head Cap Screw | 2-1/2"-3" | Carbon Steel | Commercial |
| 18 | Handle Assy | UP8614 & UP8613 | | |
| 19 | Gland Nut | 3/8"-2" | Brass | B16 C36000 |
| 20 | Hex Nut | 3/8"-2" | Steel | SAE 5140 |

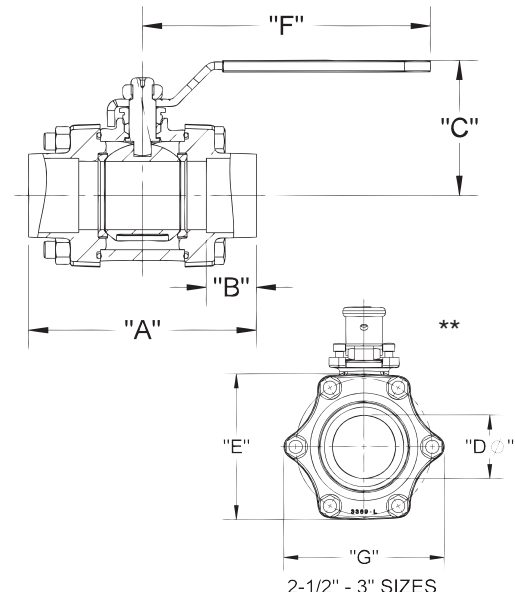
(1) Ball and stem are stainless for UP8613



3/8" THRU 2"



2-1/2" THRU 3"



DIMENSIONS

| | UNITS | 3/8" DN10 | 1/2" DN15 | 3/4" DN20 | 1" DN25 | 1-1/4" DN32 | 1-1/2" DN40 | 2" DN50 | 2-1/2" DN65 | 3" DN80 |
|----|--------|--------------|--------------|--------------|------------|----------------|----------------|------------|----------------|------------|
| A | INCHES | 2.68 | 3.02 | 3.56 | 3.81 | 4.66 | 5.00 | 5.70 | 7.01 | 7.01 |
| | mm | 68 | 77 | 90 | 97 | 118 | 127 | 145 | 178 | 178 |
| B | INCHES | 0.44 | 0.51 | 0.76 | 0.92 | 0.98 | 1.10 | 1.35 | 1.48 | 1.67 |
| | mm | 11 | 13 | 19 | 23 | 25 | 28 | 34 | 38 | 42 |
| C | INCHES | 1.85 | 1.85 | 2.20 | 2.65 | 2.79 | 2.97 | 3.47 | 5.44 | 5.44 |
| | mm | 47 | 47 | 56 | 67 | 71 | 75 | 88 | 138 | 138 |
| D | INCHES | 0.45 | 0.50 | 0.75 | 1.00 | 1.25 | 1.50 | 2.00 | 2.50 | 2.50 |
| | mm | 11 | 13 | 19 | 25 | 32 | 38 | 51 | 64 | 64 |
| E | INCHES | 1.32 | 1.32 | 2.13 | 2.41 | 2.94 | 3.13 | 3.86 | 5.74 | 5.74 |
| | mm | 34 | 34 | 54 | 61 | 75 | 80 | 98 | 146 | 146 |
| F | INCHES | 3.80 | 3.80 | 4.55 | 6.32 | 6.32 | 6.32 | 7.20 | 8.10 | 8.10 |
| | mm | 96 | 96 | 116 | 160 | 160 | 160 | 183 | 206 | 206 |
| G | INCHES | 1.92 | 1.92 | 2.13 | 2.41 | 2.94 | 3.13 | 3.86 | 6.31 | 6.31 |
| | mm | 49 | 49 | 54 | 61 | 75 | 80 | 98 | 160 | 160 |
| Cv | | 7 | 17 | 31 | 60 | 110 | 185 | 360 | 390 | 390 |

*3" is standard Port.

**2-1/2" & 3" Only.

Note: Lead free refers to the wetted surface of the pipe, fittings and fixtures in potable water systems that have a weighted average lead content $\leq 0.25\%$. Source: California Health and Safety Code (116875).

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**Bronze Ball Valve For Potable Water
Two Piece
Full Port
600 psig WOG
Threaded Ends
Blow-Out Proof Stem**

UP8301A/8303A 1/4"-2"

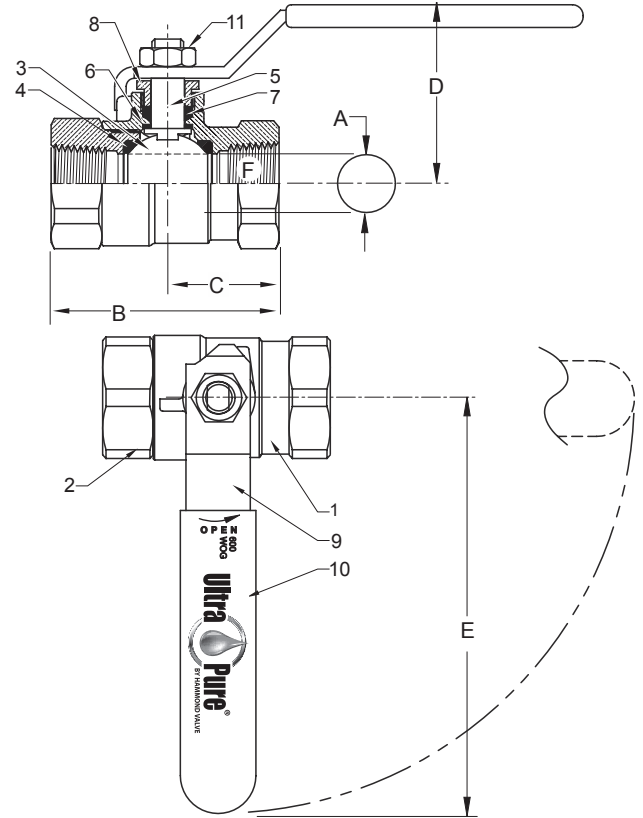
Dimensions and Workmanship Conform to MSS SP-110



MATERIALS LIST

| ITEM | PART | MATERIALS | ASTM SPEC. |
|------|---------------|-----------------------------|--------------------|
| 1 | Body | Cast Bronze | B584 C89833 |
| 2 | Tailpiece | Cast Bronze | B584 C89833 |
| 3 | Ball | Brass w/Hard Chrome Plating | B283 C27450 |
| | | 316 Stainless Steel (1) | A276 S31600 |
| 4 | Seat | RPTFE, 15% Glass Filled | Commercial |
| 5 | Stem | Brass | B21 C46400, H02 |
| | | 316 Stainless Steel (1) | A276 S31600 |
| 6 | Thrust Washer | RPTFE, 25% Glass Filled | Commercial |
| 7 | Packing | PTFE | Commercial |
| 8 | Packing Nut | Brass | B16 C36000 |
| 9 | Handle | Steel w/Zinc Plating | Commercial |
| 10 | Hand Grip | Vinyl | Commercial |
| 11 | Handle Nut | Steel w/Zinc Plating | Commercial |

(1) Ball and stem are stainless for UP8303A



DIMENSIONS

| | UNITS | 1/4" DN10 | 3/8" DN10 | 1/2" DN15 | 3/4" DN20 | 1" DN25 | 1-1/4" DN32 | 1-1/2" DN40 | 2" DN50 |
|------------|-------------|--------------|--------------|--------------|--------------|------------|----------------|----------------|------------|
| A (DIA) | INCHES | 0.38 | 0.38 | 0.50 | 0.76 | 1.06 | 1.31 | 1.56 | 2.00 |
| | mm | 10 | 10 | 13 | 19 | 27 | 33 | 40 | 51 |
| B | INCHES | 1.86 | 1.86 | 2.19 | 2.59 | 3.32 | 3.77 | 4.28 | 5.10 |
| | mm | 46 | 46 | 54 | 66 | 84 | 96 | 109 | 130 |
| C | INCHES | 1.00 | 1.00 | 1.10 | 1.30 | 1.59 | 1.81 | 2.06 | 2.37 |
| | mm | 25 | 25 | 27 | 33 | 40 | 46 | 52 | 60 |
| D | INCHES | 1.78 | 1.81 | 1.91 | 2.32 | 2.68 | 2.82 | 3.00 | 3.36 |
| | mm | 44 | 44 | 47 | 59 | 68 | 72 | 76 | 85 |
| E | INCHES | 3.82 | 3.82 | 3.82 | 4.55 | 6.33 | 6.33 | 6.33 | 7.19 |
| | mm | 94 | 94 | 94 | 116 | 161 | 161 | 161 | 183 |
| F | THREAD SIZE | 1/4" NPT | 3/8" NPT | 1/2" NPT | 3/4" NPT | 1" NPT | 1-1/4" NPT | 1-1/2" NPT | 2" NPT |
| Cv | | 7 | 7 | 13 | 30 | 61 | 110 | 185 | 360 |

Note: DN (Diameter Nominal) = Metric equivalent size.

Note: Lead free refers to the wetted surface of the pipe, fittings and fixtures in potable water systems that have a weighted average lead content $\leq 0.25\%$. Source: California Health and Safety Code (116875).

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Bronze Ball Valve For Potable Water
Two Piece
Full Port
200 psig @ 250°F†
Press x Press Ends
Blow-Out Proof Stem

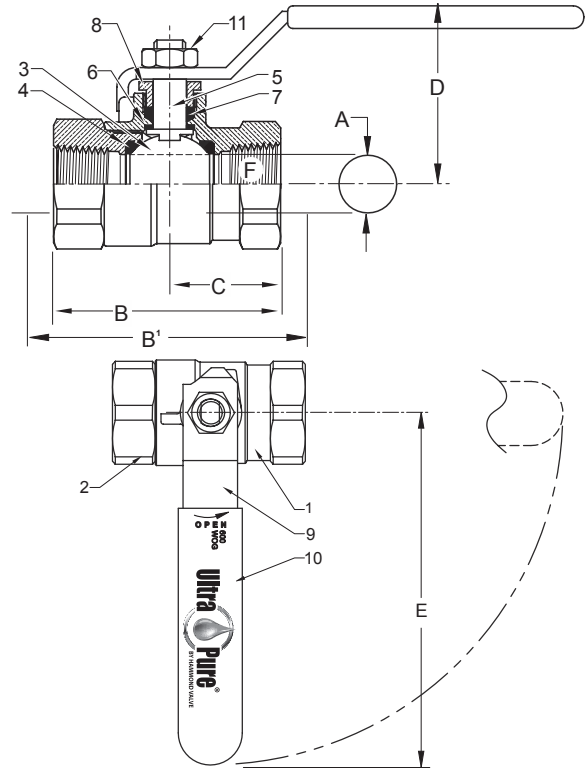
UP8301A/8303A* P2 1/2"-2"

Dimensions and Workmanship Conform to MSS SP-110

MATERIAL LIST

| ITEM | PART | MATERIAL | ASTM SPEC |
|------|----------------|-----------------------------|----------------|
| 1 | Body | Cast Bronze | B584 C89833 |
| 2 | Tailpiece | Cast Bronze | B584 C89833 |
| 3 | Ball | Brass w/Hard Chrome Plating | B283 C27450 |
| | | 316 Stainless Steel (1) | A276 S31600 |
| 4 | Seat | RPTFE, 15% Glass Filled | Commercial |
| 5 | Stem | Brass | B21 C46400 |
| | | 316 Stainless Steel (1) | A276 S31600 |
| 6 | Thrust Washer | RPTFE, 25% Glass Filled | Commercial |
| 7 | Packing | PTFE | Commercial |
| 8 | Packing Nut | Brass | B16 C36000 |
| 9 | Handle | Steel w/Zinc Plating | Commercial |
| 10 | Handle Grip | Vinyl | Commercial |
| 11 | Handle Nut | Steel w/Zinc Plating | Commercial |
| 12 | Press Adapters | Brass Fitting w/EPDM O-Ring | B283 C27450 |

(1) Ball and stem are stainless for UP8303A P2



DIMENSIONS

| | UNITS | 1/2" | 3/4" | 1" | 1-1/4" | 1-1/2" | 2" |
|---------------------|-------------|----------|----------|--------|------------|------------|--------|
| | | DN15 | DN20 | DN25 | DN32 | DN40 | DN50 |
| A (DIA) | INCHES | 0.50 | 0.76 | 1.06 | 1.31 | 1.56 | 2.00 |
| | mm | 13 | 19 | 27 | 33 | 40 | 51 |
| STD INSERTION DEPTH | INCHES | 0.87 | 0.98 | 0.98 | 1.02 | 1.42 | 1.58 |
| | mm | 22 | 25 | 25 | 26 | 36 | 40 |
| B | INCHES | 2.19 | 2.59 | 3.32 | 3.77 | 4.28 | 5.10 |
| | mm | 54 | 66 | 84 | 96 | 109 | 130 |
| B1 | INCHES | 5.19 | 6.17 | 7.32 | 7.84 | 8.76 | 11.10 |
| | mm | 132 | 157 | 186 | 199 | 228 | 282 |
| C | INCHES | 1.10 | 1.30 | 1.59 | 1.81 | 2.06 | 2.37 |
| | mm | 27 | 33 | 40 | 46 | 52 | 60 |
| D | INCHES | 1.91 | 2.32 | 2.68 | 2.82 | 3.00 | 3.36 |
| | mm | 47 | 59 | 68 | 72 | 76 | 85 |
| E | INCHES | 3.82 | 4.55 | 6.33 | 6.33 | 6.33 | 7.19 |
| | mm | 94 | 116 | 161 | 161 | 161 | 183 |
| F | THREAD SIZE | 1/2" NPT | 3/4" NPT | 1" NPT | 1-1/4" NPT | 1-1/2" NPT | 2" NPT |
| Cv | | 13 | 30 | 61 | 110 | 185 | 360 |

Note: DN (Diameter Nominal) = Metric equivalent size.

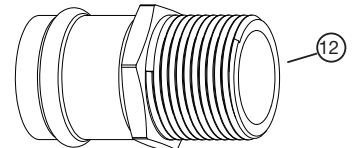
†Non-Shock

*Both the valve and 4151 series press end adapters are tested and certified by IAPMO R & T to NSF/ANSI 61 and NSF/ANSI 372 for "Lead Free" compliance.

Note: Lead free refers to the wetted surface of the pipe, fittings and fixtures in potable water systems that have a weighted average lead content ≤0.25%. Source: California Health and Safety Code (116875).

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Press End Adapter.

Available with Press x Threaded Ends
 (Order UPBA400P1/
 UPBA400SP1)





Bronze Ball Valve For Potable Water
Two Piece
Full Port
600 psig WOG
Solder Ends

UP8311A/8313A 3/8"-2"

Blow-Out Proof Stem

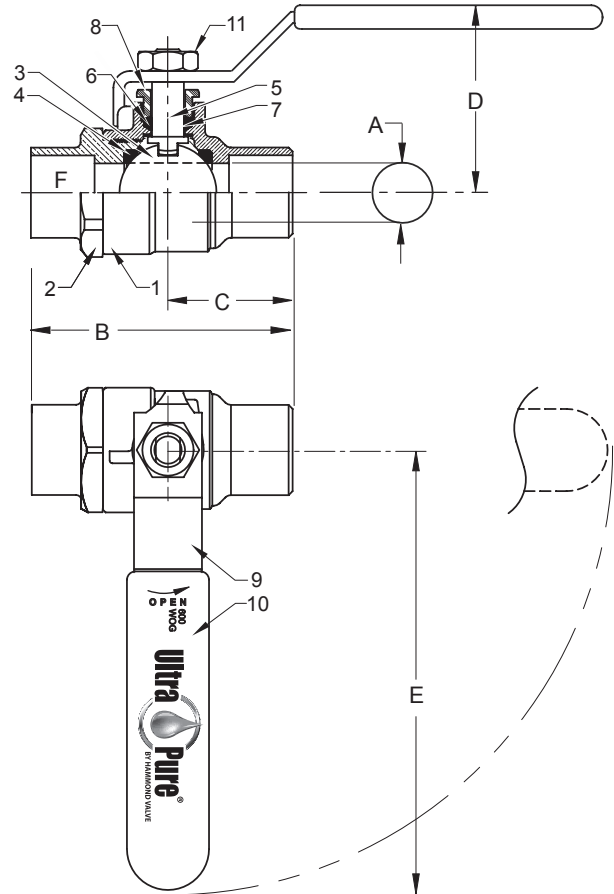
Dimensions and Workmanship Conform to MSS SP-110



MATERIALS LIST

| ITEM | PART | MATERIALS | ASTM SPEC. |
|------|---------------|-----------------------------|----------------|
| 1 | Body | Cast Bronze | B584 C89833 |
| 2 | Tailpiece | Cast Bronze | B584 C89833 |
| 3 | Ball | Brass w/Hard Chrome Plating | B283 C27450 |
| | | 316 Stainless Steel (1) | A276 S31600 |
| 4 | Seat | RPTFE, 15% Glass Filled | Commercial |
| 5 | Stem | Brass | B21 C46400 |
| | | 316 Stainless Steel (1) | A276 S31600 |
| 6 | Thrust Washer | RPTFE, 25% Glass Filled | Commercial |
| 7 | Packing | PTFE | Commercial |
| 8 | Packing Nut | Brass | B16 C36000 |
| 9 | Handle | Steel w/Zinc Plating | Commercial |
| 10 | Handle Grip | Vinyl | Commercial |
| 11 | Handle Nut | Steel w/Zinc Plating | Commercial |

(1) Ball and stem are stainless for UP8313A



DIMENSIONS

| | UNITS | 3/8" DN15 | 1/2" DN15 | 3/4" DN20 | 1" DM25 | 1-1/4" DM32 | 1-1/2" DN40 | 2" DN50 |
|------------|---------------|--------------|--------------|--------------|------------|----------------|----------------|------------|
| A (DIA) | INCHES | 0.38 | 0.50 | 0.76 | 1.06 | 1.31 | 1.56 | 2.00 |
| | mm | 10 | 13 | 19 | 27 | 32 | 40 | 51 |
| B | INCHES | 2.17 | 2.39 | 3.17 | 3.75 | 5.00 | 6.00 | 6.75 |
| | mm | 55 | 61 | 81 | 95 | 127 | 152 | 172 |
| C | INCHES | .90 | 1.07 | 1.50 | 1.79 | 2.49 | 3.00 | 3.37 |
| | mm | 22 | 27 | 38 | 46 | 63 | 76 | 86 |
| D | INCHES | 1.81 | 1.87 | 2.19 | 2.67 | 2.82 | 2.99 | 3.51 |
| | mm | 44 | 46 | 56 | 68 | 72 | 76 | 89 |
| E | INCHES | 3.81 | 3.80 | 4.56 | 6.31 | 6.31 | 6.31 | 7.19 |
| | mm | 97 | 97 | 116 | 160 | 160 | 160 | 183 |
| F | TUBE SIZEØ | 0.51 | 0.63 | 0.88 | 1.13 | 1.38 | 1.63 | 2.13 |
| Cv | | 7 | 15 | 35 | 60 | 110 | 185 | 360 |

Note: DN (Diameter Nominal) = Metric equivalent size.

Note: Lead free refers to the wetted surface of the pipe, fittings and fixtures in potable water systems that have a weighted average lead content $\leq 0.25\%$. Source: California Health and Safety Code (116875).

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UP8901 1/4"-3"



Brass Ball Valve For Potable Water
Two Piece
Full Port
600 psig WOG (1/4" - 2")
400 psig WOG (2 1/2" - 3")
Threaded Ends
Blow-Out Proof Stem
Dimensions and Workmanship Conform to MSS SP-110,

MATERIALS LIST

| ITEM | PART | MATERIALS | ASTM SPEC. |
|------|---------------|------------------------|-------------|
| 1 | Body | Brass, Forged | B283 C27450 |
| 2 | Tailpiece | Brass, Forged | B283 C27450 |
| 3 | Ball | Brass w/Chrome Plating | B283 C27450 |
| 4 | Ball Seat | PTFE | Commercial |
| 5 | Stem | Brass | B124 C27450 |
| 6 | O-Ring | Buna-N | D2006 |
| 7 | Thrust Washer | PTFE | Commercial |
| 8 | Gland Nut | Brass | B16 C36000 |
| 9 | Packing | PTFE | Commercial |
| 10 | Handle | Zinc Plated Steel | Commercial |
| 11 | Handle Nut | Zinc Plated Steel | Commercial |
| 12 | Seal | PTFE (2 1/2" & 3")** | Commercial |

Also Available UP8901-07

** Additional body/tailpiece seal for 2 1/2" & 3" sizes only (Not Pictured).

CSA Listed (1/2" - 2")

- Class 3371-08: ANSI Z21.15/CSA 9.1, 1/2 psi
- Class 3371-12: CGA CR91-002, 5 psi
- Class 3371-88: ANSI Z21.15/CSA 9.1, 1/2 psi
- Class 3371-92: ASME B16.44, 5 psi

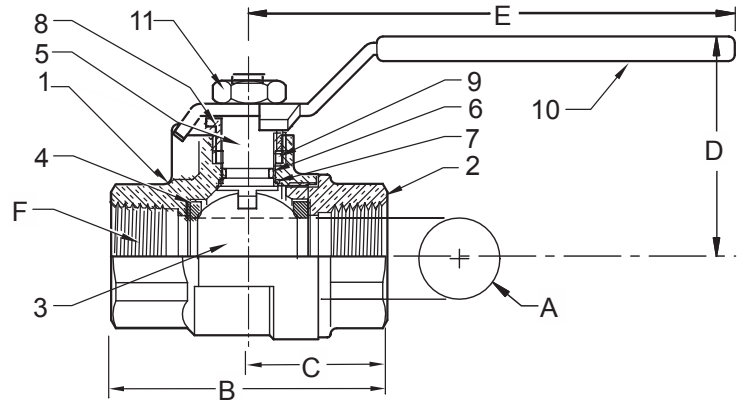
UL Listed (1/4" - 2")

- UL 842 (YRPV) Gas Shutoff
- UL 842 (MHKZ) Manual Valves
- UL 125 (YSDT) LP-Gas Shutoff
- UL 1477 (YQNZ) Compressed Gas Shutoff
- UL 258 (VQGU) Trim and Drain Valves

FM Approved (1/4" - 2")

- FM 1140, 600 psi

NOTE: Agency listed as Milwaukee UPBA-475B (Products are dual marked)



DIMENSIONS

| | UNITS | 1/4" | 3/8" | 1/2" | 3/4" | 1" | 1-1/4" | 1-1/2" | 2" | 2-1/2" | 3" |
|---|-------------|----------|----------|----------|----------|--------|------------|------------|--------|------------|--------|
| A | INCHES | 0.39 | 0.39 | 0.51 | 0.76 | 1.00 | 1.26 | 1.50 | 2.00 | 2.48 | 2.95 |
| | mm | 10 | 10 | 13 | 19 | 25 | 32 | 38 | 51 | 63 | 75 |
| B | INCHES | 1.87 | 1.87 | 2.25 | 2.62 | 3.06 | 3.50 | 3.75 | 4.38 | 5.16 | 6.00 |
| | mm | 47 | 47 | 57 | 67 | 78 | 89 | 95 | 111 | 131 | 152 |
| C | INCHES | 0.95 | 0.95 | 1.12 | 1.31 | 1.52 | 1.73 | 1.87 | 2.19 | 2.58 | 3.00 |
| | mm | 24 | 24 | 28 | 33 | 39 | 44 | 47 | 56 | 66 | 76 |
| D | INCHES | 1.42 | 1.42 | 1.46 | 1.93 | 2.10 | 2.33 | 2.52 | 2.96 | 3.94 | 4.37 |
| | mm | 36 | 36 | 37 | 49 | 53 | 59 | 64 | 75 | 100 | 111 |
| E | INCHES | 3.27 | 3.27 | 3.27 | 4.45 | 4.45 | 5.24 | 5.24 | 7.01 | 7.87 | 7.87 |
| | mm | 83 | 83 | 83 | 113 | 113 | 133 | 133 | 178 | 200 | 200 |
| F | THREAD SIZE | 1/4" NPT | 3/8" NPT | 1/2" NPT | 3/4" NPT | 1" NPT | 1-1/4" NPT | 1-1/2" NPT | 2" NPT | 2-1/2" NPT | 3" NPT |
| | Cv | 12 | 12 | 18 | 40 | 72 | 112 | 161 | 287 | 307 | 323 |

Note: Lead free refers to the wetted surface of the pipe, fittings and fixtures in potable water systems that have a weighted average lead content $\leq 0.25\%$. Source: California Health and Safety Code (116875).

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⚠ State of California Prop 65 **WARNING:** Cancer and Reproductive Harm. For more information visit www.p65warnings.ca.gov.





Brass Ball Valve For Potable Water
Two Piece
Full Port
250 psig (1/2" - 2") @250°F
200 psig (2-1/2" - 4") @250°F
Press x Press Ends
Blow-Out Proof Stem

UPBA-480B* 1/2"-4"***

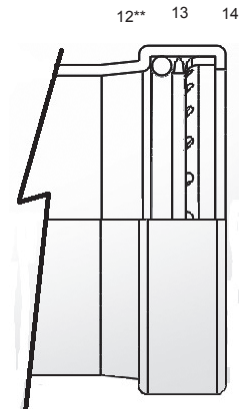
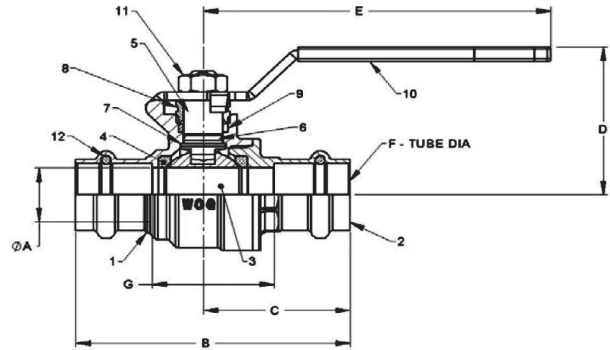


Tested and Certified by IAMPO R&T to:
 NSF/ANSI 61
 NSF/ANSI 372
 NSF/ANSI Z1157
 1/2" through 2" Only.

MATERIALS LIST

| ITEM | PART | MATERIALS | ASTM SPEC. |
|------|-----------------------|-----------------------|-------------|
| 1 | Body | Brass, Forged | B283 C27450 |
| 2 | Tailpiece | Brass, Forged | B283 C27450 |
| 3 | Ball | Brass, Chrome Plating | B283 C27450 |
| 4 | Ball Seat (1/2"-2") | PTFE | Commercial |
| | Ball Seat (2 1/2"-4") | RPTFE | |
| 5 | Stem | Brass, Forged | B283-C27450 |
| 6 | Stem O-Ring | Buna-N | D2000 |
| 7 | Thrust Washer | PTFE | Commercial |
| 8 | Gland Nut | Brass | B124 |
| 9 | Packing | PTFE | Commercial |
| 10 | Handle | Zinc Plated Steel | Commercial |
| 11 | Handle Nut | Zinc Plated Steel | Commercial |
| 12 | Backing Ring | EPDM | Commercial |
| 13** | Backing Spacer | PTFE | Commercial |
| 14** | Backing Re-tainer | Stainless Steel | Commercial |

*Ultra Press Valves are designed and qualified for use in copper tubing systems only, Types K, L, & M per ASTM B88



** 2-1/2", 3", & 4" Requires XLC installation jaws.

DIMENSIONS

| | UNITS | 1/2" DN15 | 3/4" DN20 | 1" DN25 | 1-1/4" DN32 | 1-1/2" DN40 | 2" DN50 | 2-1/2" DN65 | 3" DN80 | 4" DN100 |
|----|------------|--------------|--------------|------------|----------------|----------------|------------|----------------|------------|-------------|
| | A-PORT DIA | INCHES | 0.51 | 0.76 | 0.98 | 1.26 | 1.50 | 2.01 | 2.48 | 2.95 |
| | mm | 13 | 19 | 25 | 32 | 38 | 51 | 63 | 75 | 100 |
| B | INCHES | 3.16 | 3.71 | 4.28 | 5.20 | 6.31 | 7.44 | 8.23 | 9.13 | 11.42 |
| | mm | 80 | 94 | 109 | 132 | 160 | 189 | 209 | 232 | 290 |
| C | INCHES | 1.63 | 1.92 | 2.18 | 2.75 | 3.40 | 3.96 | 4.33 | 4.80 | 6.06 |
| | mm | 41 | 49 | 55 | 70 | 86 | 101 | 110 | 122 | 154 |
| D | INCHES | 1.62 | 2.01 | 2.21 | 2.46 | 2.62 | 3.13 | 3.86 | 4.21 | 6.06 |
| | mm | 41 | 51 | 56 | 63 | 67 | 80 | 98 | 107 | 154 |
| E | INCHES | 3.15 | 4.33 | 4.33 | 5.12 | 5.12 | 6.89 | 7.87 | 7.87 | 9.65 |
| | mm | 80 | 110 | 110 | 130 | 130 | 175 | 200 | 200 | 245 |
| G | INCHES | 1.52 | 1.73 | 2.31 | 3.16 | 3.49 | 4.28 | 3.98 | 4.76 | 6.14 |
| | mm | 39 | 44 | 59 | 80 | 89 | 109 | 101 | 121 | 156 |
| Cv | | 18 | 40 | 72 | 112 | 161 | 287 | 448 | 645 | 700 |

†Non-Shock

Note: Lead free refers to the wetted surface of the pipe, fittings and fixtures in potable water systems that have a weighted average lead content $\leq 0.25\%$. Source: California Health and Safety Code (116875).

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Brass Ball Valve For Potable Water
Two Piece
Full Port
200 psig @ 250°F†
Press x Press Ends
Blow-Out Proof Stem

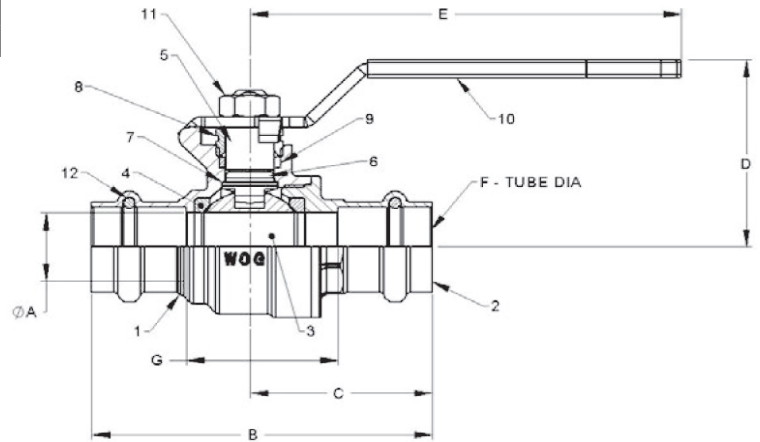
UPBA-480S* 1/2"-2"



MATERIALS LIST

| ITEM | PART | MATERIALS | ASTM SPEC. |
|------|---------------|---------------------|-------------|
| 1 | Body | Brass, Forged | B283 C27450 |
| 2 | Tailpiece | Brass, Forged | B283 C27450 |
| 3 | Ball | 316 Stainless Steel | A276 S31600 |
| 4 | Ball Seat | PTFE | Commercial |
| 5 | Stem | 316 Stainless Steel | A276 S31600 |
| 6 | Stem O-Ring | Buna-N | D2000 |
| 7 | Thrust Washer | PTFE | Commercial |
| 8 | Gland Nut | Brass | B124 |
| 9 | Packing | PTFE | Commercial |
| 10 | Handle | Zinc Plated Steel | Commercial |
| 11 | Handle Nut | Zinc Plated Steel | Commercial |
| 12** | Backing Ring | Plastic | Commercial |

*Ultra Press Valves are designed and qualified for use in copper tubing systems only, Types K, L, & M per ASTM B88. For Installation Instructions please see engineering section on website.



DIMENSIONS

| | UNITS | 1/2" DN15 | 3/4" DN20 | 1" DN25 | 1-1/4" DN32 | 1-1/2" DN40 | 2" DN50 |
|---------------|--------|--------------|--------------|------------|----------------|----------------|------------|
| A-PORT DIA | INCHES | 0.51 | 0.76 | 0.98 | 1.26 | 1.50 | 2.01 |
| | mm | 13 | 19 | 25 | 32 | 38 | 51 |
| B | INCHES | 3.16 | 3.71 | 4.28 | 5.20 | 6.31 | 7.44 |
| | mm | 80 | 94 | 109 | 132 | 160 | 189 |
| C | INCHES | 1.63 | 1.92 | 2.18 | 2.75 | 3.40 | 3.96 |
| | mm | 41 | 49 | 55 | 70 | 86 | 101 |
| D | INCHES | 1.62 | 2.01 | 2.21 | 2.46 | 2.62 | 3.13 |
| | mm | 41 | 51 | 56 | 63 | 67 | 80 |
| E | INCHES | 3.15 | 4.33 | 4.33 | 5.12 | 5.12 | 6.89 |
| | mm | 80 | 110 | 110 | 130 | 130 | 175 |
| G | INCHES | 1.52 | 1.73 | 2.31 | 3.16 | 3.49 | 4.28 |
| | mm | 39 | 44 | 59 | 80 | 89 | 109 |
| Cv | | | 18 | 40 | 72 | 112 | 161 |

†Non-Shock

Note: Lead free refers to the wetted surface of the pipe, fittings and fixtures in potable water systems that have a weighted average lead content $\leq 0.25\%$. Source: California Health and Safety Code (116875).

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Brass Ball Valve For Potable Water
Two Piece
Full Port
200 psig @ 250°F†
Press x 3/4" Hose End
Dust Cap and Chain
Blow-Out Proof Stem

UPBA-480BH* 1/2" & 3/4"



MATERIALS LIST

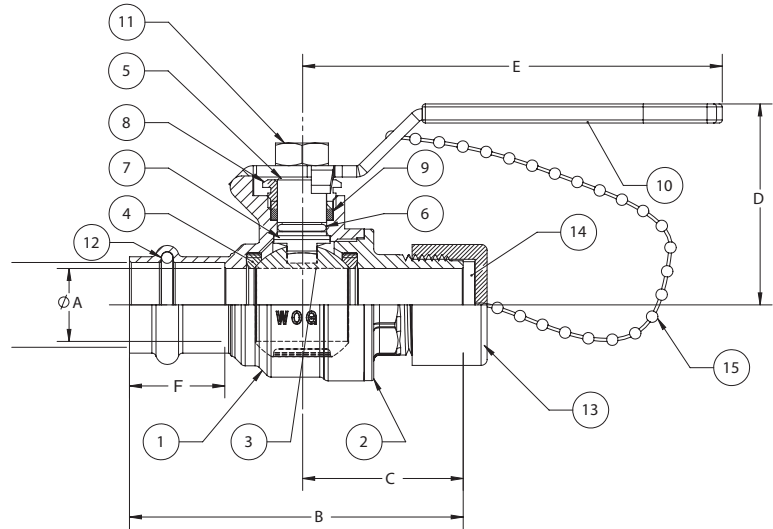
| ITEM | PART | MATERIALS | ASTM SPEC. |
|------|---------------|-----------------------|----------------|
| 1 | Body | Brass, Forged | B283 C27450 |
| 2 | Tailpiece | Brass, Forged | B283 C27450 |
| 3 | Ball | Brass, Chrome Plating | B283 C27450 |
| 4 | Ball Seat | PTFE | Commercial |
| 5 | Stem | Brass, Forged | B283 C27450 |
| 6 | Stem O-Ring | Buna-N | D2000 |
| 7 | Thrust Washer | PTFE | Commercial |
| 8 | Gland Nut | Brass | B124 |
| 9 | Packing | PTFE | Commercial |
| 10 | Handle | Zinc Plated Steel | Commercial |
| 11 | Handle Nut | Zinc Plated Steel | Commercial |
| 12 | Tube O-Ring | EPDM | D2000 NSF61 |
| 13 | Hose Cap | Polypropylene | Commercial |
| 14 | Cap Gasket | EPDM | Commercial |
| 15 | Chain | Brass Bead | Commercial |

*Ultra Press Valves are designed and qualified for use in copper tubing systems only, Types K, L, & M per ASTM B88.

DIMENSIONS

| | UNITS | 1/2" | 3/4" |
|------------|--------|------|------|
| | | DN15 | DN20 |
| A-PORT DIA | INCHES | 0.51 | 0.76 |
| | mm | 13 | 19 |
| B | INCHES | 3.09 | 3.50 |
| | mm | 78 | 90 |
| C | INCHES | 1.55 | 1.70 |
| | mm | 39 | 43 |
| D | INCHES | 1.62 | 2.01 |
| | mm | 41 | 51 |
| E | INCHES | 3.15 | 4.33 |
| | mm | 80 | 110 |
| F TUBE DIA | INCHES | 0.82 | 0.99 |
| | mm | 21 | 25 |
| G | INCHES | 0.83 | 0.98 |
| | mm | 21 | 25 |
| Cv | | 18 | 40 |

†Non-Shock



Do not pressurize cap.
Pressure not to exceed 40 psi.

Note: Lead free refers to the wetted surface of the pipe, fittings and fixtures in potable water systems that have a weighted average lead content ≤0.25%. Source: California Health and Safety Code (116875).

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Brass Ball Valve For Potable Water
Two Piece
Full Port
200 psig @ 250°F†
Press x 3/4" Hose End
Dust Cap and Chain
Blow-Out Proof Stem

UPBA-480SH* 1/2" & 3/4"



MATERIALS LIST

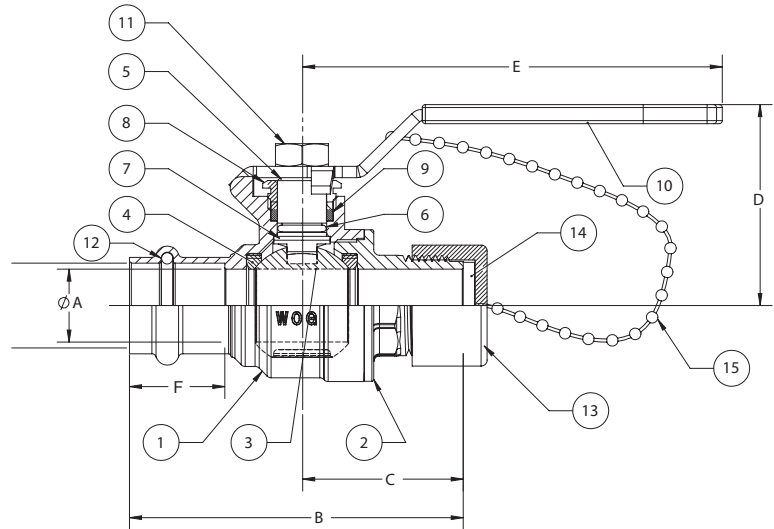
| ITEM | PART | MATERIALS | ASTM SPEC. |
|------|---------------|---------------------|-------------|
| 1 | Body | Brass, Forged | B283 C27450 |
| 2 | Tailpiece | Brass, Forged | B283 C27450 |
| 3 | Ball | 316 Stainless Steel | A276 S31600 |
| 4 | Ball Seat | PTFE | Commercial |
| 5 | Stem | 316 Stainless Steel | A276 S31600 |
| 6 | Stem O-Ring | Buna-N | D2000 |
| 7 | Thrust Washer | PTFE | Commercial |
| 8 | Gland Nut | Brass | B124 |
| 9 | Packing | PTFE | Commercial |
| 10 | Handle | Zinc Plated Steel | Commercial |
| 11 | Handle Nut | Zinc Plated Steel | Commercial |
| 12 | Tube O-Ring | EPDM | D2000 |
| 13 | Hose Cap | Polypropylene | Commercial |
| 14 | Cap Gasket | EPDM | Commercial |
| 15 | Chain | Brass Bead | Commercial |

*Ultra Press Valves are designed and qualified for use in copper tubing systems only, Types K, L, & M per ASTM B88.

DIMENSIONS

| | UNITS | 1/2" DN15 | 3/4" DN20 |
|------------|------------|-----------|-----------|
| | A-PORT DIA | INCHES | 0.51 |
| | mm | 13 | 19 |
| B | INCHES | 3.09 | 3.50 |
| | mm | 78 | 90 |
| C | INCHES | 1.55 | 1.70 |
| | mm | 39 | 43 |
| D | INCHES | 1.62 | 2.01 |
| | mm | 41 | 51 |
| E | INCHES | 3.15 | 4.33 |
| | mm | 80 | 110 |
| F TUBE DIA | INCHES | 0.82 | 0.99 |
| | mm | 21 | 25 |
| G | INCHES | 0.83 | 0.98 |
| | mm | 21 | 25 |
| Cv | | 18 | 40 |

†Non-Shock



Do not pressurize cap.
Pressure not to exceed 40 psi.

Note: Pressure/Temperature rating shown are for VALVE ONLY. Hose side pressure and temperature limit is based on connected hose and is users responsibility

Note: Lead free refers to the wetted surface of the pipe, fittings and fixtures in potable water systems that have a weighted average lead content $\leq 0.25\%$. Source: California Health and Safety Code (116875).

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Brass Ball Valve For Potable Water
Two Piece
Full Port
200 psig @ 250°F†
Press x Press Ends With Extension Stem & Memory Stop
Blow-Out Proof Stem

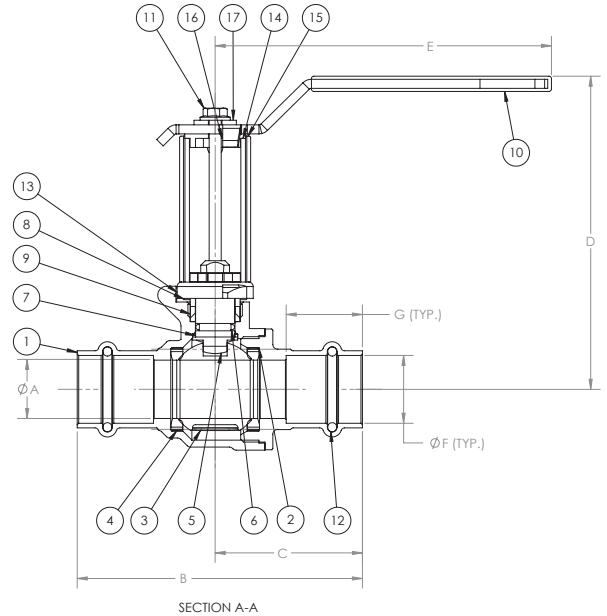
UPBA-481B* 1/2"-3"



MATERIALS LIST

| ITEM | PART | MATERIALS | ASTM SPEC. |
|------|-------------------------|-----------------------|----------------|
| 1 | Body | Brass, Forged | B283 C27450 |
| 2 | Tailpiece | Brass, Forged | B283 C27450 |
| 3 | Ball | Brass, Chrome Plating | B283 C27450 |
| 4 | Ball Seat | PTFE | Commercial |
| 5 | Stem | Brass, Forged | B283 C27450 |
| 6 | Stem O-Ring | Buna-N | D2000 |
| 7 | Thrust Washer | PTFE | Commercial |
| 8 | Gland Nut | Brass | B124 |
| 9 | Packing | PTFE | Commercial |
| 10 | Handle | Zinc Plated Steel | Commercial |
| 11 | Handle Bolt | Zinc Plated Steel | Commercial |
| 12 | Tube O-Ring | EPDM | D2000 |
| 13 | Stem Stop Plate | Zinc Plated Steel | Commercial |
| 14 | Internal Extension Tube | Zinc Plated Steel | Commercial |
| 15 | External Extension Tube | Zinc Plated Steel | Commercial |
| 16 | Upper Stem Adaptor | Zinc Plated Steel | Commercial |
| 17 | Memory Stop | Zinc Plated Steel | Commercial |

*Ultra Press Valves are designed and qualified for use in copper tubing systems only, Types K, L & M per ASTM B88.



DIMENSIONS

| | UNITS | 1/2" DN15 | 3/4" DN20 | 1" DN25 | 1-1/4" DN32 | 1-1/2" DN40 | 2" DN50 | 2-1/2" DN65 | 3" DN80 |
|----|--------|--------------|--------------|------------|----------------|----------------|------------|----------------|------------|
| A | INCHES | 0.51 | 0.76 | 0.98 | 1.26 | 1.50 | 2.01 | 2.48 | 2.95 |
| | mm | 13 | 19 | 25 | 32 | 38 | 51 | 63 | 75 |
| B | INCHES | 3.16 | 3.71 | 4.28 | 5.20 | 6.31 | 7.44 | 11.92 | 14.07 |
| | mm | 80 | 94 | 109 | 132 | 160 | 189 | 303 | 357 |
| C | INCHES | 1.63 | 1.92 | 2.18 | 2.75 | 3.40 | 3.96 | 5.96 | 7.04 |
| | mm | 41 | 49 | 55 | 70 | 86 | 101 | 151 | 179 |
| D | INCHES | 3.87 | 4.26 | 4.46 | 4.71 | 4.87 | 5.38 | 6.19 | 6.37 |
| | mm | 98 | 108 | 113 | 120 | 124 | 137 | 157 | 162 |
| E | INCHES | 3.15 | 4.33 | 4.33 | 5.12 | 5.12 | 6.89 | 7.87 | 7.87 |
| | mm | 80 | 110 | 110 | 130 | 130 | 175 | 200 | 200 |
| G | INCHES | 1.52 | 1.73 | 2.31 | 3.16 | 3.49 | 4.28 | 8.17 | 9.86 |
| | mm | 39 | 44 | 59 | 80 | 89 | 109 | 208 | 250 |
| Cv | | 18 | 40 | 72 | 112 | 161 | 287 | 448 | 645 |

†Non-Shock

Note: Lead free refers to the wetted surface of the pipe, fittings and fixtures in potable water systems that have a weighted average lead content ≤0.25%. Source: California Health and Safety Code (116875).

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Brass Ball Valve For Potable Water
Two Piece
Full Port
200 psig @ 250°F†
Press x Press Ends With Extension Stem & Memory Stop
Blow-Out Proof Stem

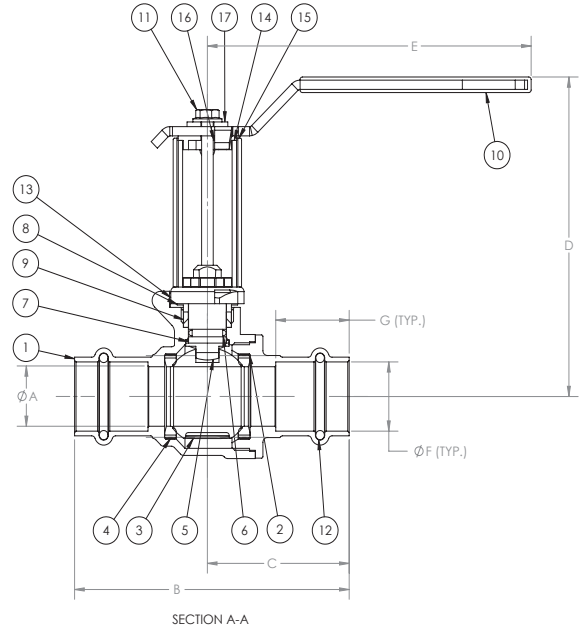
UPBA-481S* 1/2"-2"



MATERIALS LIST

| ITEM | PART | MATERIALS | ASTM SPEC. |
|------|-------------------------|---------------------|-------------|
| 1 | Body | Brass, Forged | B283 C27450 |
| 2 | Tailpiece | Brass, Forged | B283 C27450 |
| 3 | Ball | 316 Stainless Steel | A276 S31600 |
| 4 | Ball Seat | PTFE | Commercial |
| 5 | Stem | 316 Stainless Steel | A276 S31600 |
| 6 | Stem O-Ring | Buna-N | D2000 |
| 7 | Thrust Washer | PTFE | Commercial |
| 8 | Gland Nut | Brass | B124 |
| 9 | Packing | PTFE | Commercial |
| 10 | Handle | Zinc Plated Steel | Commercial |
| 11 | Handle Bolt | Zinc Plated Steel | Commercial |
| 12 | Tube O-Ring | EPDM | D2000 NSF61 |
| 13 | Stem Stop Plate | Zinc Plated Steel | Commercial |
| 14 | Internal Extension Tube | Zinc Plated Steel | Commercial |
| 15 | External Extension Tube | Zinc Plated Steel | Commercial |
| 16 | Upper Stem Adaptor | Zinc Plated Steel | Commercial |
| 17 | Memory Stop | Zinc Plated Steel | Commercial |

*Ultra Press Valves are designed and qualified for use in copper tubing systems only, Types K, L & M per ASTM B88.



DIMENSIONS

| | UNITS | 1/2" | 3/4" | 1" | 1-1/4" | 1-1/2" | 2" |
|----|--------|------|------|------|--------|--------|------|
| | | DN15 | DN20 | DN25 | DN32 | DN40 | DN50 |
| A | INCHES | 0.51 | 0.76 | 0.98 | 1.26 | 1.50 | 2.01 |
| | mm | 13 | 19 | 25 | 32 | 38 | 51 |
| B | INCHES | 3.16 | 3.71 | 4.28 | 5.20 | 6.31 | 7.44 |
| | mm | 80 | 94 | 109 | 132 | 160 | 189 |
| C | INCHES | 1.63 | 1.92 | 2.18 | 2.75 | 3.40 | 3.96 |
| | mm | 41 | 49 | 55 | 70 | 86 | 101 |
| D | INCHES | 3.87 | 4.26 | 4.46 | 4.71 | 4.87 | 5.38 |
| | mm | 98 | 108 | 113 | 120 | 124 | 137 |
| E | INCHES | 3.15 | 4.33 | 4.33 | 5.12 | 5.12 | 6.89 |
| | mm | 80 | 110 | 110 | 130 | 130 | 175 |
| G | INCHES | 1.52 | 1.73 | 2.31 | 3.16 | 3.49 | 4.28 |
| | mm | 39 | 44 | 59 | 80 | 89 | 109 |
| Cv | | 18 | 40 | 72 | 112 | 161 | 287 |

†Non-Shock

Note: Lead free refers to the wetted surface of the pipe, fittings and fixtures in potable water systems that have a weighted average lead content ≤0.25%. Source: California Health and Safety Code (116875).

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UP8911 1/2"-3"

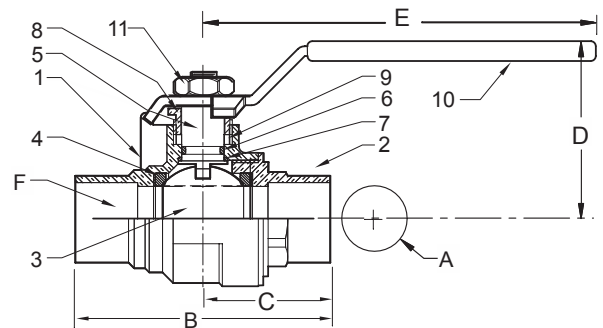


Brass Ball Valve For Potable Water
Two Piece
Full Port
600 psig WOG (1/2" - 2") 400 psig WOG (2 1/2" - 3")
Solder Ends

Blow-Out Proof Stem
Dimensions and Workmanship Conform to MSS SP-110

MATERIALS LIST

| ITEM | PART | MATERIALS | ASTM SPEC. |
|------|---------------|------------------------|----------------|
| 1 | Body | Brass, Forged | B283 C27450 |
| 2 | Tailpiece | Brass, Forged | B283 C27450 |
| | | Brass | B283 C27450 |
| 3 | Ball | Brass w/Chrome Plating | B283 C27450 |
| 4 | Ball Seat | PTFE | Commercial |
| 5 | Stem | Brass | B283 C27450 |
| 6 | O-Ring | Buna-N | D2006 |
| 7 | Thrust Washer | PTFE | Commercial |
| 8 | Gland Nut | Brass | B16 C36000 |
| 9 | Packing | PTFE | Commercial |
| 10 | Handle | Zinc Plated Steel | Commercial |
| 11 | Handle Nut | Zinc Plated Steel | Commercial |



DIMENSIONS

| | UNITS | 1/2" | 3/4" | 1" | 1-1/4" | 1-1/2" | 2" | 2-1/2" | 3" |
|----|-----------|--------|------|------|--------|--------|------|--------|------|
| | A | INCHES | 0.50 | 0.76 | 1.00 | 1.26 | 1.50 | 2.00 | 2.48 |
| | mm | 13 | 19 | 25 | 32 | 38 | 51 | 63 | 75 |
| B | INCHES | 2.28 | 3.10 | 3.56 | 4.13 | 4.64 | 5.75 | 7.25 | 8.25 |
| | mm | 58 | 79 | 90 | 105 | 118 | 146 | 184 | 210 |
| C | INCHES | 1.14 | 1.55 | 1.78 | 2.06 | 2.32 | 2.87 | 3.62 | 4.12 |
| | mm | 29 | 39 | 45 | 52 | 59 | 73 | 92 | 105 |
| D | INCHES | 1.46 | 1.93 | 2.10 | 2.33 | 2.52 | 2.96 | 3.94 | 4.37 |
| | mm | 37 | 49 | 53 | 59 | 64 | 75 | 100 | 111 |
| E | INCHES | 3.27 | 4.45 | 4.45 | 5.24 | 5.24 | 7.01 | 7.87 | 7.87 |
| | mm | 83 | 113 | 113 | 133 | 133 | 178 | 200 | 200 |
| F | TUBE SIZE | 0.63 | 0.88 | 1.13 | 1.38 | 1.63 | 2.13 | 2.63 | 3.13 |
| | | | | | | | | | |
| Cv | | 18 | 40 | 72 | 112 | 161 | 287 | 307 | 323 |

Note: Lead free refers to the wetted surface of the pipe, fittings and fixtures in potable water systems that have a weighted average lead content $\leq 0.25\%$. Source: California Health and Safety Code (116875).

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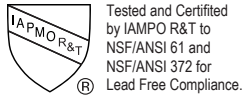
⚠ State of California Prop 65 **WARNING:** Cancer and Reproductive Harm. For more information visit www.p65warnings.ca.gov.





Brass Ball Valve For Potable Water
Two Piece
Full Port
200 psig @ 250°F†
Press x Threaded Ends
Blow-Out Proof Stem

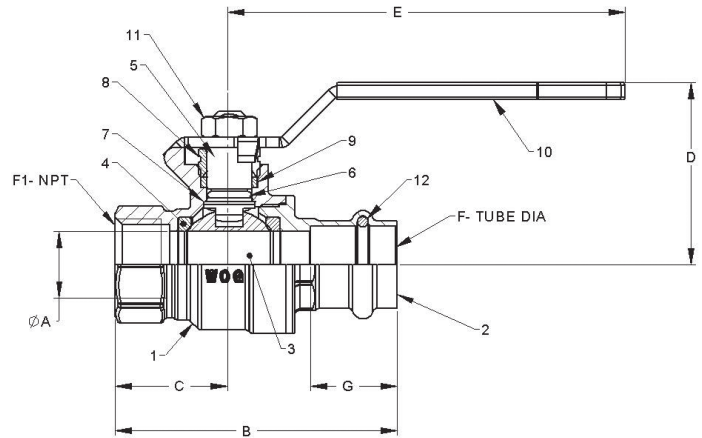
UPBA-490B* 1/2"-2"



MATERIALS LIST

| ITEM | PART | MATERIALS | ASTM SPEC. |
|------|---------------|----------------------|----------------|
| 1 | Body | Brass, Forged | B283 C27450 |
| 2 | Tailpiece | Brass, Forged | B283 C27450 |
| 3 | Ball | Brass Chrome Plating | B283 C27450 |
| 4 | Ball Seat | PTFE | Commercial |
| 5 | Stem | Brass, Forged | B283 C27450 |
| 6 | Stem O-Ring | Buna-N | D2000 |
| 7 | Thrust Washer | PTFE | Commercial |
| 8 | Gland Nut | Brass | B124 |
| 9 | Packing | PTFE | Commercial |
| 10 | Handle | Zinc Plated Steel | Commercial |
| 11 | Handle Nut | Zinc Plated Steel | Commercial |
| 12 | Tube O-Ring | EPDM | D2000 |

*Ultra Press Valves are designed and qualified for use in copper tubing systems only, Types K, L, & M per ASTM B88.



DIMENSIONS

| | UNITS | 1/2" | 3/4" | 1" | 1-1/4" | 1-1/2" | 2" |
|------------|--------|---------|---------|---------|-------------|-------------|---------|
| | | DN15 | DN20 | DN25 | DN32 | DN40 | DN50 |
| A-PORT DIA | INCHES | 0.51 | 0.76 | 0.98 | 1.26 | 1.50 | 2.00 |
| | mm | 13 | 19 | 25 | 32 | 38 | 51 |
| B | INCHES | 2.77 | 3.23 | 3.71 | 4.12 | 4.86 | 6.14 |
| | mm | 70 | 82 | 94 | 105 | 123 | 156 |
| C | INCHES | 1.14 | 1.31 | 1.53 | 1.71 | 1.88 | 2.19 |
| | mm | 29 | 33 | 39 | 43 | 48 | 56 |
| D | INCHES | 1.46 | 1.93 | 2.10 | 2.33 | 2.52 | 2.96 |
| | mm | 37 | 49 | 53 | 59 | 64 | 75 |
| E | INCHES | 3.14 | 4.35 | 4.35 | 5.00 | 5.00 | 6.90 |
| | mm | 80 | 110 | 110 | 127 | 127 | 175 |
| F-TUBE DIA | INCHES | 0.63 | 0.88 | 1.13 | 1.38 | 1.63 | 2.13 |
| | mm | 15 | 20 | 25 | 32 | 40 | 50 |
| F1 NPT | | 1/2"-14 | 3/4"-14 | 1"-11.5 | 1 1/4"-11.5 | 1 1/2"-11.5 | 2"-11.5 |
| G | INCHES | 0.83 | 1.00 | 1.00 | 1.02 | 1.42 | 1.57 |
| | mm | 21 | 25 | 25 | 26 | 36 | 40 |
| Cv | | 18 | 40 | 72 | 112 | 161 | 287 |

†Non-Shock

Note: Lead free refers to the wetted surface of the pipe, fittings and fixtures in potable water systems that have a weighted average lead content $\leq 0.25\%$. Source: California Health and Safety Code (116875).

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⚠ State of California Prop 65 **WARNING:** Cancer and Reproductive Harm. For more information visit www.p65warnings.ca.gov.





Brass Ball Valve For Potable Water
Two Piece
Full Port
200 psig @ 250°F†
Press x Threaded Ends
Blow-Out Proof Stem

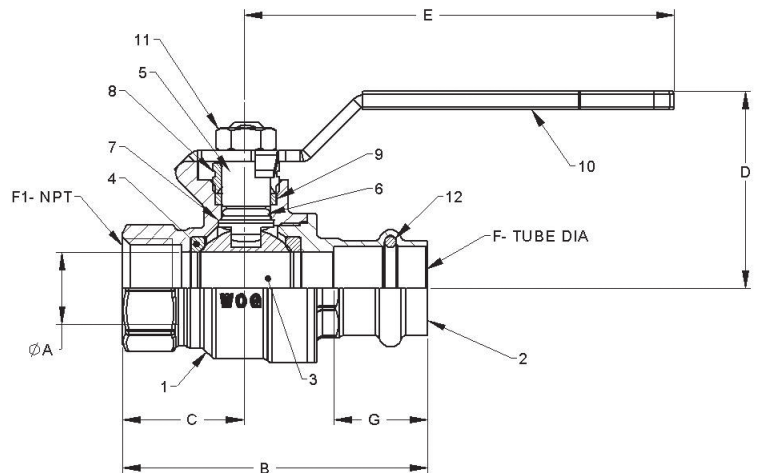
UPBA-490S* 1/2"-2"



MATERIALS LIST

| ITEM | PART | MATERIALS | ASTM SPEC. |
|------|---------------|---------------------|-------------|
| 1 | Body | Brass, Forged | B283 C27450 |
| 2 | Tailpiece | Brass, Forged | B283 C27450 |
| 3 | Ball | 316 Stainless Steel | A276 S31600 |
| 4 | Ball Seat | PTFE | Commercial |
| 5 | Stem | 316 Stainless Steel | A276 S31600 |
| 6 | Stem O-Ring | Buna-N | D2000 |
| 7 | Thrust Washer | PTFE | Commercial |
| 8 | Gland Nut | Brass | B124 |
| 9 | Packing | PTFE | Commercial |
| 10 | Handle | Zinc Plated Steel | Commercial |
| 11 | Handle Nut | Zinc Plated Steel | Commercial |
| 12 | Tube O-Ring | EPDM | D2000 |

*Ultra Press Valves are designed and qualified for use in copper tubing systems only, Types K, L, & M per ASTM B88.



DIMENSIONS

| | UNITS | 1/2" DN15 | 3/4" DN20 | 1" DN25 | 1-1/4" DN32 | 1-1/2" DN40 | 2" DN50 |
|---------------|--------|--------------|--------------|------------|----------------|----------------|------------|
| A-PORT DIA | INCHES | 0.51 | 0.76 | 0.98 | 1.26 | 1.50 | 2.00 |
| | mm | 13 | 19 | 25 | 32 | 38 | 51 |
| B | INCHES | 2.77 | 3.23 | 3.71 | 4.12 | 4.86 | 6.14 |
| | mm | 70 | 82 | 94 | 105 | 123 | 156 |
| C | INCHES | 1.14 | 1.31 | 1.53 | 1.71 | 1.88 | 2.19 |
| | mm | 29 | 33 | 39 | 43 | 48 | 56 |
| D | INCHES | 1.46 | 1.93 | 2.10 | 2.33 | 2.52 | 2.96 |
| | mm | 37 | 49 | 53 | 59 | 64 | 75 |
| E | INCHES | 3.14 | 4.35 | 4.35 | 5.00 | 5.00 | 6.90 |
| | mm | 80 | 110 | 110 | 127 | 127 | 175 |
| F-TUBE DIA | INCHES | 0.63 | 0.88 | 1.13 | 1.38 | 1.63 | 2.13 |
| | mm | 15 | 20 | 25 | 32 | 40 | 50 |
| F1 NPT | | 1/2"-14 | 3/4"-14 | 1"-11.5 | 1 1/4"-11.5 | 1 1/2"-11.5 | 2"-11.5 |
| G | INCHES | 0.83 | 1.00 | 1.00 | 1.02 | 1.42 | 1.57 |
| | mm | 21 | 25 | 25 | 26 | 36 | 40 |
| Cv | | 18 | 40 | 72 | 112 | 161 | 287 |

†Non-Shock

Note: Lead free refers to the wetted surface of the pipe, fittings and fixtures in potable water systems that have a weighted average lead content $\leq 0.25\%$. Source: California Health and Safety Code (116875).

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⚠ State of California Prop 65 **WARNING:** Cancer and Reproductive Harm. For more information visit www.p65warnings.ca.gov.





Brass Ball Valve For Potable Water
Two Piece
Full Port
200 psig @ 250°F†
Press x Threaded Ends With
Extension Stem & Memory Stop
Blow-Out Proof Stem

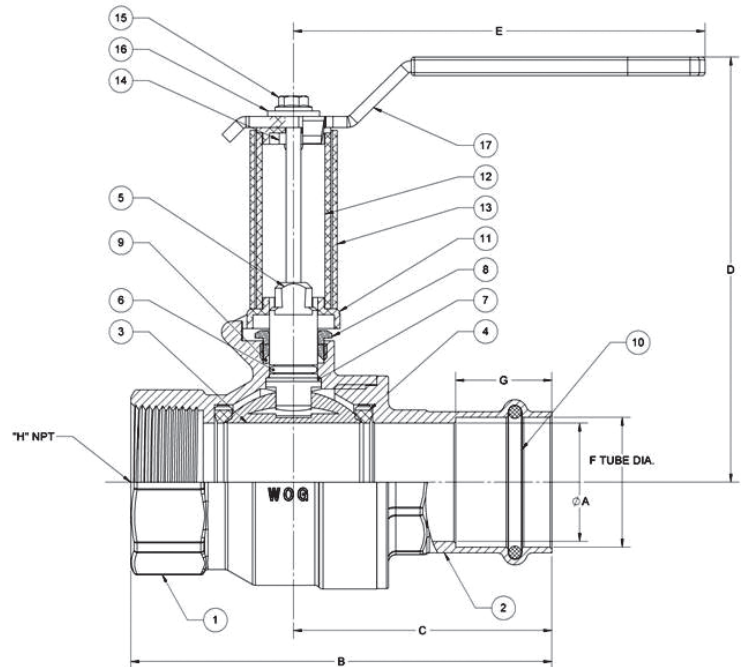
UPBA-491B* 1/2"-2"



MATERIALS LIST

| ITEM | PART | MATERIALS | ASTM SPEC. |
|------|-------------------------|----------------------|-------------|
| 1 | Body | Brass, Forged | B283 C27450 |
| 2 | Tailpiece | Brass, Forged | B283 C27450 |
| 3 | Ball | Brass Chrome Plating | B283 C27450 |
| 4 | Ball Seat | PTFE | Commercial |
| 5 | Stem | Brass, Forged | B283 C27450 |
| 6 | Stem O-Ring | Buna-N | D2000 |
| 7 | Thrust Washer | PTFE | Commercial |
| 8 | Gland Nut | Brass | B124 |
| 9 | Packing | PTFE | Commercial |
| 10 | Handle | Zinc Plated Steel | Commercial |
| 11 | Handle Bolt | Zinc Plated Steel | Commercial |
| 12 | Tube O-Ring | EPDM | D2000 |
| 13 | Stem Stop Plate | Zinc Plated Steel | Commercial |
| 14 | Internal Extension Tube | Zinc Plated Steel | Commercial |
| 15 | External Extension Tube | Zinc Plated Steel | Commercial |
| 16 | Upper Stem Adapter | Zinc Plated Steel | Commercial |
| 17 | Memory Stop | Zinc Plated Steel | Commercial |

*Ultra Press Valves are designed and qualified for use in copper tubing systems only, Types K, L, & M per ASTM B88.



DIMENSIONS

| | UNITS | 1/2" DN15 | 3/4" DN20 | 1" DN25 | 1-1/4" DN32 | 1-1/2" DN40 | 2" DN50 |
|-------------|---------------|--------------|--------------|------------|----------------|----------------|------------|
| A PORT Ø | INCHES | 0.51 | 0.76 | 0.98 | 1.26 | 1.50 | 2.01 |
| | mm | 13 | 19 | 25 | 32 | 38 | 51 |
| B | INCHES | 2.76 | 3.58 | 3.98 | 4.51 | 5.50 | 6.44 |
| | mm | 70 | 91 | 101 | 115 | 140 | 164 |
| C | INCHES | 1.63 | 1.92 | 2.18 | 2.75 | 3.46 | 3.46 |
| | mm | 41 | 49 | 55 | 70 | 88 | 88 |
| D | INCHES | 3.55 | 4.08 | 4.28 | 4.53 | 4.65 | 5.13 |
| | mm | 90 | 104 | 109 | 115 | 118 | 130 |
| E | INCHES | 3.28 | 4.38 | 4.38 | 4.38 | 6.97 | 6.97 |
| | mm | 83 | 111 | 111 | 111 | 177 | 177 |
| F TUBE Ø | INCHES | 0.63 | 0.88 | 1.13 | 1.38 | 1.64 | 2.13 |
| | mm | 16 | 22 | 29 | 35 | 42 | 54 |
| G | INCHES | 0.83 | 0.99 | 0.99 | 1.02 | 1.42 | 1.58 |
| | mm | 21 | 25 | 25 | 26 | 36 | 40 |
| H | THIRD SIZE | 1/2" NPT | 3/4" NPT | 1" NPT | 1 1/4 NPT | 1 1/2" NPT | 2" NPT |
| Cv | | 18 | 40 | 72 | 112 | 161 | 287 |

†Non-Shock

Note: Lead free refers to the wetted surface of the pipe, fittings and fixtures in potable water systems that have a weighted average lead content $\leq 0.25\%$. Source: California Health and Safety Code (116875).

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Brass Ball Valve For Potable Water
Two Piece
Full Port
200 psig @ 250°F†
Press x Threaded Ends With
Extension Stem & Memory Stop
Blow-Out Proof Stem

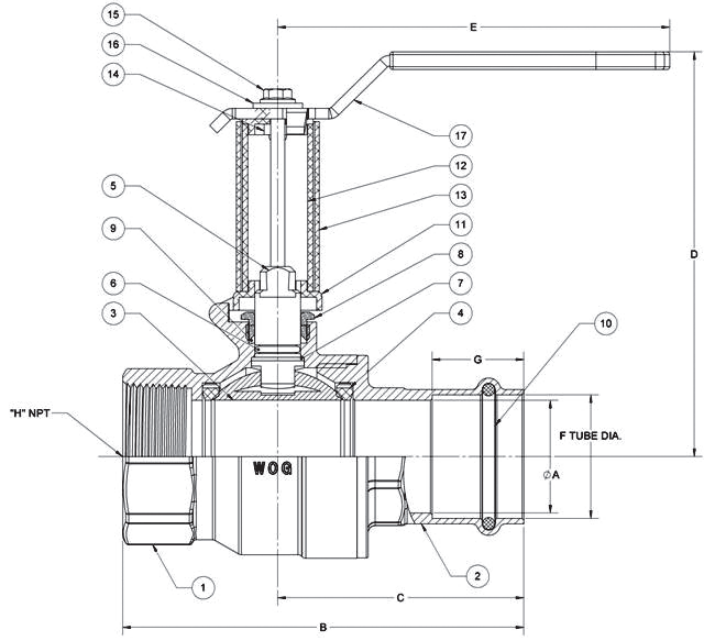
UPBA-491S* 1/2"-2"



MATERIALS LIST

| ITEM | PART | MATERIALS | ASTM SPEC. |
|------|-------------------------|---------------------|-------------|
| 1 | Body | Brass, Forged | B283 C27450 |
| 2 | Tailpiece | Brass, Forged | B283 C27450 |
| 3 | Ball | 316 Stainless Steel | A276 S31600 |
| 4 | Ball Seat | PTFE | Commercial |
| 5 | Stem | 316 Stainless Steel | A276 S31600 |
| 6 | Stem O-Ring | Buna-N | D2000 |
| 7 | Thrust Washer | PTFE | Commercial |
| 8 | Gland Nut | Brass | B124 |
| 9 | Packing | PTFE | Commercial |
| 10 | Handle | Zinc Plated Steel | Commercial |
| 11 | Handle Bolt | Zinc Plated Steel | Commercial |
| 12 | Tube O-Ring | EPDM | D2000 |
| 13 | Stem Stop Plate | Zinc Plated Steel | Commercial |
| 14 | Internal Extension Tube | Zinc Plated Steel | Commercial |
| 15 | External Extension Tube | Zinc Plated Steel | Commercial |
| 16 | Upper Stem Adapter | Zinc Plated Steel | Commercial |
| 17 | Memory Stop | Zinc Plated Steel | Commercial |

*Ultra Press Valves are designed and qualified for use in copper tubing systems only, Types K, L, & M per ASTM B88.



DIMENSIONS

| | UNITS | 1/2" DN15 | 3/4" DN20 | 1" DN25 | 1-1/4" DN32 | 1-1/2" DN40 | 2" DN50 |
|-------------|--------|--------------|--------------|------------|----------------|----------------|------------|
| A-PORT Ø | INCHES | 0.51 | 0.76 | 0.98 | 1.26 | 1.50 | 2.01 |
| | mm | 13 | 19 | 25 | 32 | 38 | 51 |
| B | INCHES | 2.76 | 3.58 | 3.98 | 4.51 | 5.50 | 6.44 |
| | mm | 70 | 91 | 101 | 115 | 140 | 164 |
| C | INCHES | 1.63 | 1.92 | 2.18 | 2.75 | 3.46 | 3.46 |
| | mm | 41 | 49 | 55 | 70 | 88 | 88 |
| D | INCHES | 3.55 | 4.08 | 4.28 | 4.53 | 4.65 | 5.13 |
| | mm | 90 | 104 | 109 | 115 | 118 | 130 |
| E | INCHES | 3.28 | 4.38 | 4.38 | 4.38 | 6.97 | 6.97 |
| | mm | 83 | 111 | 111 | 111 | 177 | 177 |
| F TUBE Ø | INCHES | 0.63 | 0.88 | 1.13 | 1.38 | 1.64 | 2.13 |
| | mm | 16 | 22 | 29 | 35 | 42 | 54 |
| G | INCHES | 0.83 | 0.99 | 0.99 | 1.02 | 1.42 | 1.58 |
| | mm | 21 | 25 | 25 | 26 | 36 | 40 |
| H | | 1/2" NPT | 3/4" NPT | 1" NPT | 1 1/4" NPT | 1 1/2" NPT | 2" NPT |
| Cv | | 18 | 40 | 72 | 112 | 161 | 287 |

†Non-Shock

Note: Lead free refers to the wetted surface of the pipe, fittings and fixtures in potable water systems that have a weighted average lead content $\leq 0.25\%$. Source: California Health and Safety Code (116875).

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UP645 1/4"-2"


 Tested and Certified by
 IAPMO RAK to NSF/ANSI 61
 and NSF/ANSI 372 for lead
 free compliance.

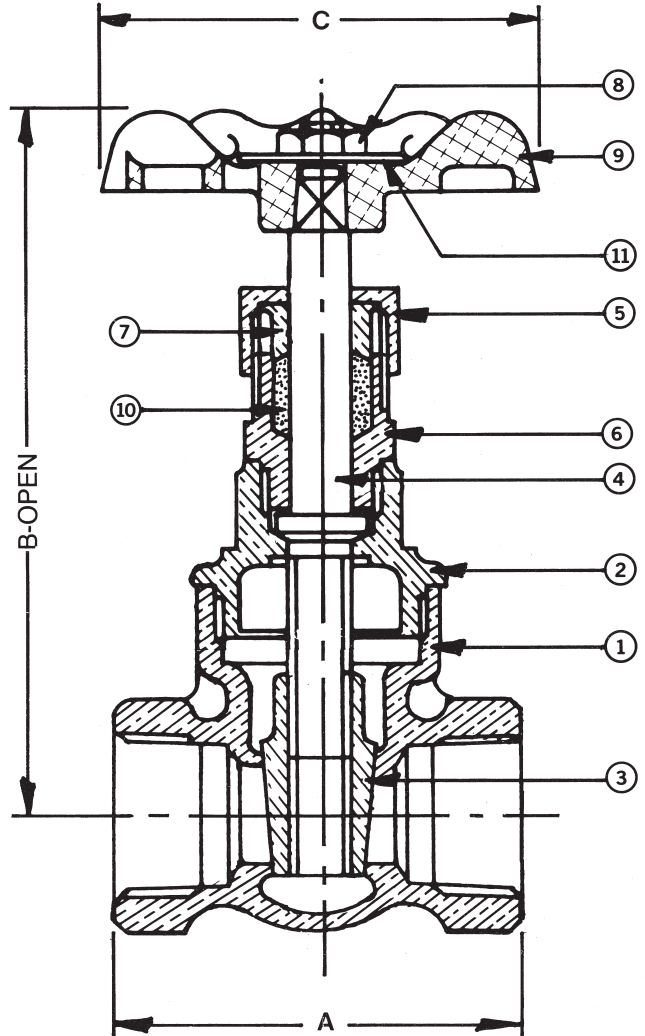
Bronze Gate Valve For Potable Water
300 psig WOG †
Solid Wedge Disc • Non-Rising Stem
Threaded Bonnet • Threaded Ends

Dimensions and Workmanship Conform to MSS SP-80

MATERIALS LIST

| ITEM | PART | MATERIALS | ASTM SPEC. |
|------|--------------------|------------|--------------------|
| 1 | Body | Bronze | B584 C89833 |
| 2 | Bonnet | Bronze | B584 C89833 |
| 3 | Wedge | Bronze | B584 C89833 |
| 4 | Stem | Brass | B21 C46400, H02 |
| 5 | Stuff Nut | Brass | B283 C37700 |
| 6 | Check Nut | Brass | B283 C27450 |
| 7 | Gland ¹ | Brass | B283 C37700 |
| 8 | Wheel Nut | Brass | Commercial |
| 9 | Handwheel | Mall. Iron | Commercial |
| 10 | Packing | Graphite | Commercial |
| 11 | Name Plate | Sh. Alum | Commercial |

1 Not used on 1/2" and smaller




DIMENSIONS

| Units | Size | A | B | C | Cv |
|--------|-------|------|------|------|-------|
| INCHES | 1/4 | 1.75 | 3.63 | 2.00 | 5.6 |
| mm | | 44 | 92 | 51 | |
| INCHES | 3/8 | 1.81 | 3.63 | 2.00 | 10.7 |
| mm | | 46 | 92 | 51 | |
| INCHES | 1/2 | 2.00 | 3.63 | 2.00 | 17.6 |
| mm | | 51 | 92 | 51 | |
| INCHES | 3/4 | 2.18 | 4.38 | 2.50 | 32.0 |
| mm | | 55 | 111 | 64 | |
| INCHES | 1 | 2.56 | 5.00 | 2.75 | 54.0 |
| mm | | 65 | 127 | 70 | |
| INCHES | 1 1/4 | 2.78 | 5.31 | 3.44 | 97.0 |
| mm | | 71 | 135 | 87 | |
| INCHES | 1 1/2 | 2.81 | 6.34 | 3.75 | 135.0 |
| mm | | 71 | 161 | 95 | |
| INCHES | 2 | 3.31 | 7.44 | 3.75 | 230.0 |
| mm | | 84 | 189 | 95 | |

† Non-Shock

Note: Lead free refers to the wetted surface of the pipe, fittings and fixtures in potable water systems that have a weighted average lead content $\leq 0.25\%$. Source: California Health and Safety Code (116875).

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UP645 P2* 1/2"-2"

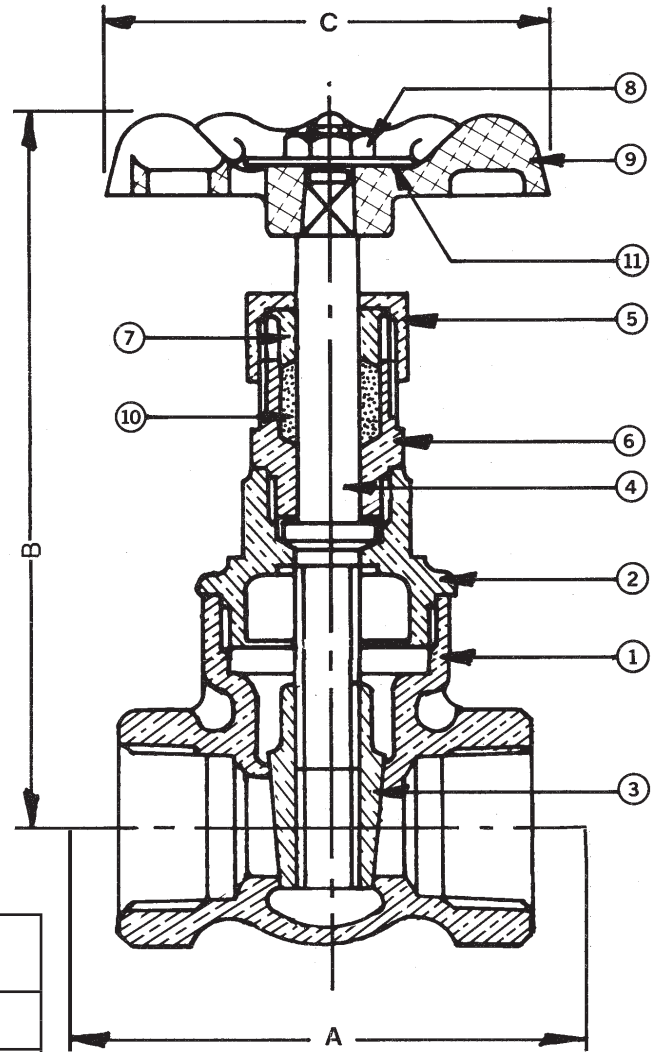
Bronze Gate Valve for Potable Water
200 psig @ 250°F †
Solid Wedge Disc • Non-Rising Stem
Threaded Bonnet • Press Ends

Dimensions and Workmanship Conform to MSS SP-80

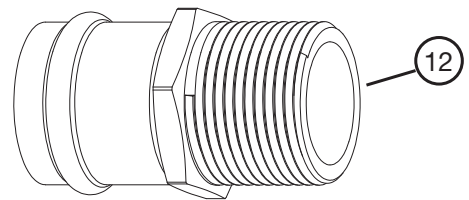
MATERIALS LIST

| ITEM | PART | MATERIALS | ASTM SPEC. |
|------|--------------------|------------------------------|-----------------|
| 1 | Body | Bronze | B584 C89833 |
| 2 | Bonnet | Bronze | B584 C89833 |
| 3 | Wedge | Bronze | B584 C89833 |
| 4 | Stem | Brass | B21 C46400, H02 |
| 5 | Stuff Nut | Brass | B283 C37700 |
| 6 | Check Nut | Brass | B283 C27450 |
| 7 | Gland ¹ | Brass | B283 C37700 |
| 8 | Wheel Nut | Brass | Commercial |
| 9 | Handwheel | Mall. Iron | Commercial |
| 10 | Packing | Graphite | Commercial |
| 11 | Name Plate | Sh. Alum | Commercial |
| 12 | Press Adapters | Brass Fitting w/ EPDM O-Ring | C27450 |

¹ Not used on 1/2"



With Press Ends



Press End Adapter (4151 Series)

DIMENSIONS

| Units | Size | STD INSERTION DEPTH | A | B | C | Cv |
|--------|-------|---------------------|------|------|------|-------|
| INCHES | 1/2 | .87 | 5.00 | 3.63 | 2.00 | 17.6 |
| mm | | 22 | 127 | 92 | 51 | |
| INCHES | 3/4 | .98 | 5.76 | 4.38 | 2.50 | 32.0 |
| mm | | 25 | 146 | 111 | 64 | |
| INCHES | 1 | .98 | 6.56 | 5.00 | 2.75 | 54.0 |
| mm | | 25 | 167 | 127 | 70 | |
| INCHES | 1 1/4 | 1.02 | 6.85 | 5.31 | 3.44 | 97.0 |
| mm | | 26 | 174 | 135 | 87 | |
| INCHES | 1 1/2 | 1.42 | 7.29 | 6.34 | 3.75 | 135.0 |
| mm | | 36 | 185 | 161 | 95 | |
| INCHES | 2 | 1.58 | 9.31 | 7.44 | 3.75 | 230.0 |
| mm | | 40 | 237 | 189 | 95 | |

† Non-Shock

*Both the valve and 4151 series press end adapters are tested and certified by IAPMO R & T to NSF/ANSI 61 and NSF/ANSI 372 for "Lead Free" compliance.

Note: Lead free refers to the wetted surface of the pipe, fittings and fixtures in potable water systems that have a weighted average lead content $\leq 0.25\%$. Source: California Health and Safety Code (116875).

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UP647 3/8"-2"



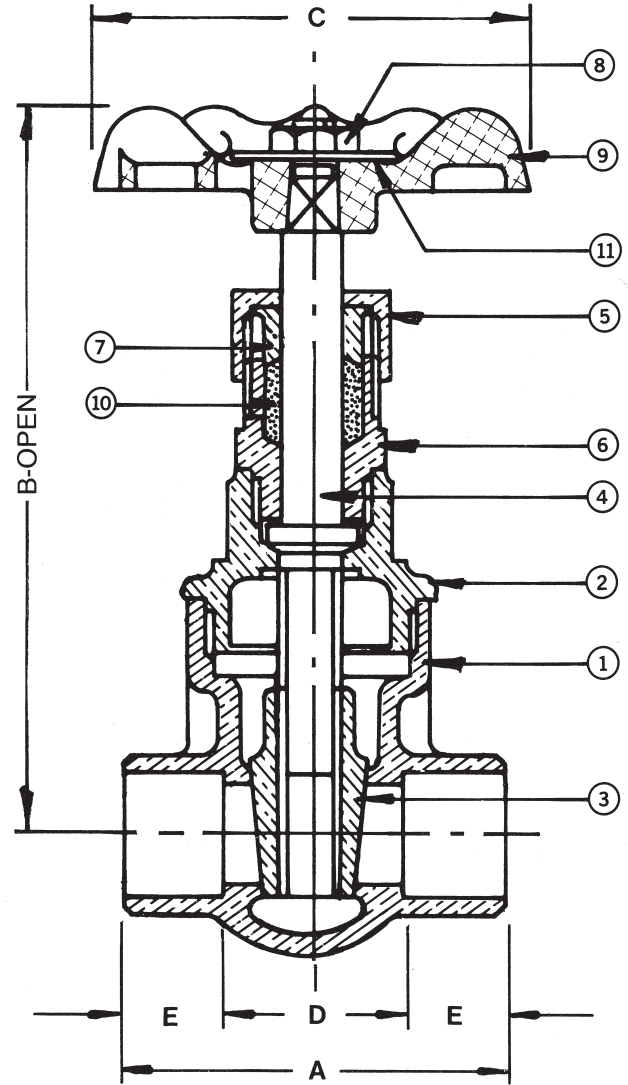
Bronze Gate Valve for Potable Water
300 psig WOG †
Solid Wedge Disc • Non-Rising Stem
Threaded Bonnet • Solder Ends

Dimensions and Workmanship Conform to MSS SP-80

MATERIALS LIST

| ITEM | PART | MATERIALS | ASTM SPEC. |
|------|--------------------|------------|-----------------|
| 1 | Body | Bronze | B584 C89833 |
| 2 | Bonnet | Bronze | B584 C89833 |
| 3 | Wedge | Bronze | B584 C89833 |
| 4 | Stem | Brass | B21 C46400, H02 |
| 5 | Stuff Nut | Brass | B283 C37700 |
| 6 | Check Nut | Brass | B283 C27450 |
| 7 | Gland ¹ | Brass | B283 C37700 |
| 8 | Wheel Nut | Brass | Commercial |
| 9 | Handwheel | Mall. Iron | Commercial |
| 10 | Packing | Graphite | Commercial |
| 11 | Name Plate | Sh. Alum | Commercial |

1 Not used on 1/2" and smaller



DIMENSIONS

| Units | Size | A | B | C | D | E | Cv |
|--------|-------|------|------|------|------|------|-------|
| INCHES | 3/8 | 1.63 | 3.56 | 2.00 | 0.88 | 0.38 | 10.7 |
| mm | | 41 | 91 | 51 | 22 | 10 | |
| INCHES | 1/2 | 1.88 | 3.56 | 2.00 | 0.88 | 0.50 | 17.6 |
| mm | | 48 | 91 | 51 | 22 | 13 | |
| INCHES | 3/4 | 2.50 | 4.75 | 2.50 | 1.00 | 0.75 | 32.0 |
| mm | | 64 | 121 | 64 | 25 | 19 | |
| INCHES | 1 | 3.00 | 5.00 | 2.75 | 1.19 | 0.91 | 54.0 |
| mm | | 76 | 127 | 70 | 30 | 23 | |
| INCHES | 1 1/4 | 3.25 | 5.88 | 3.44 | 1.31 | 0.97 | 97.0 |
| mm | | 83 | 149 | 87 | 33 | 25 | |
| INCHES | 1 1/2 | 3.63 | 6.50 | 3.75 | 1.44 | 1.09 | 135.0 |
| mm | | 92 | 165 | 95 | 37 | 28 | |
| INCHES | 2 | 4.31 | 7.44 | 3.75 | 1.63 | 1.34 | 230.0 |
| mm | | 110 | 189 | 95 | 41 | 34 | |

† Non-Shock

Note: Lead free refers to the wetted surface of the pipe, fittings and fixtures in potable water systems that have a weighted average lead content $\leq 0.25\%$. Source: California Health and Safety Code (116875).

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⚠ State of California Prop 65 **WARNING:** Cancer and Reproductive Harm. For more information visit www.p65warnings.ca.gov.



HAMMONDVALVE



UP640 1/4"-2"

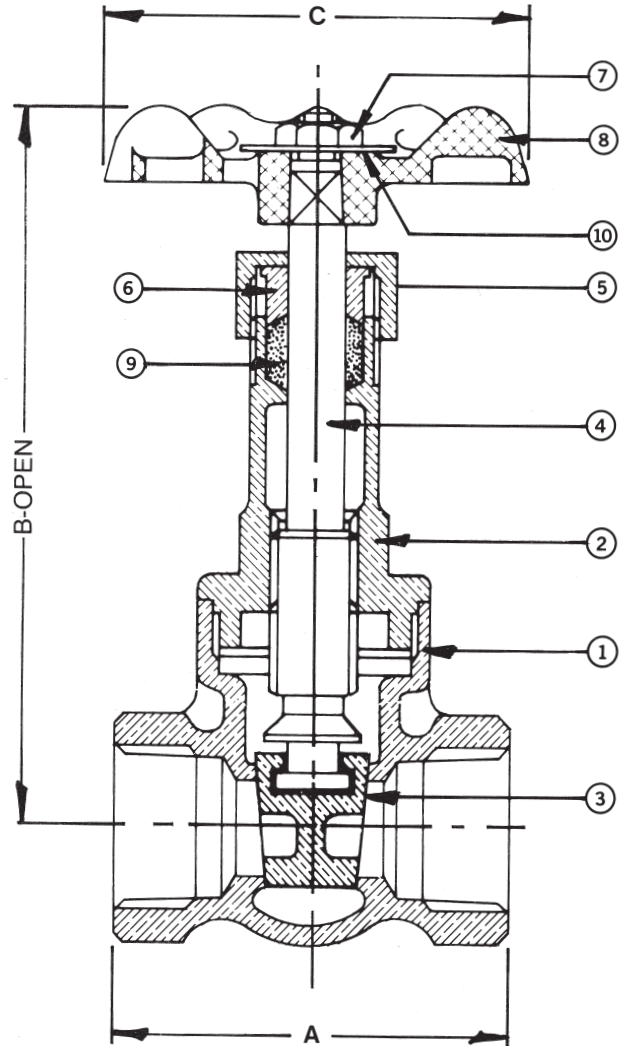


Bronze Gate Valve for Potable Water
300 psig WOG †
Solid Wedge Disc • Rising Stem
Threaded Bonnet • Threaded Ends
Dimensions and Workmanship Conform to MSS SP-80

MATERIALS LIST

| ITEM | PART | MATERIALS | ASTM SPEC. |
|------|------------|------------|-----------------|
| 1 | Body | Bronze | B584 C89833 |
| 2 | Bonnet | Bronze | B584 C89833 |
| 3 | Wedge | Bronze | B584 C89833 |
| 4 | Stem | Brass | B21 C46400, H02 |
| 5 | Stuff Nut | Brass | B283 C27450 |
| 6 | Gland 1 | Brass | B283 C27450 |
| 7 | Wheel Nut | Brass | Commercial |
| 8 | Handwheel | Mall. Iron | Commercial |
| 9 | Packing | Graphite | Commercial |
| 10 | Name Plate | Sh. Alum | Commercial |

1 Not used on 1/2" and smaller



DIMENSIONS

| Units | Size | A | B | C | Cv |
|--------|-------|------|-------|------|-------|
| INCHES | 1/4 | 1.75 | 4.38 | 2.00 | 5.6 |
| mm | | 44 | 111 | 6 | |
| INCHES | 3/8 | 1.81 | 4.38 | 2.00 | 10.7 |
| mm | | 46 | 111 | 6 | |
| INCHES | 1/2 | 2.00 | 4.38 | 2.00 | 17.6 |
| mm | | 51 | 111 | 6 | |
| INCHES | 3/4 | 2.18 | 5.84 | 2.50 | 32.0 |
| mm | | 55 | 148 | 64 | |
| INCHES | 1 | 2.56 | 7.06 | 2.75 | 54.0 |
| mm | | 65 | 179 | 70 | |
| INCHES | 1 1/4 | 2.78 | 8.78 | 3.44 | 97.0 |
| mm | | 71 | 223 | 87 | |
| INCHES | 1 1/2 | 2.81 | 9.50 | 3.75 | 135.0 |
| mm | | 71 | 241 | 95 | |
| INCHES | 2 | 3.31 | 11.50 | 3.75 | 230.0 |
| mm | | 84 | 292 | 95 | |

† Non-Shock

Note: Lead free refers to the wetted surface of the pipe, fittings and fixtures in potable water systems that have a weighted average lead content $\leq 0.25\%$. Source: California Health and Safety Code (116875).

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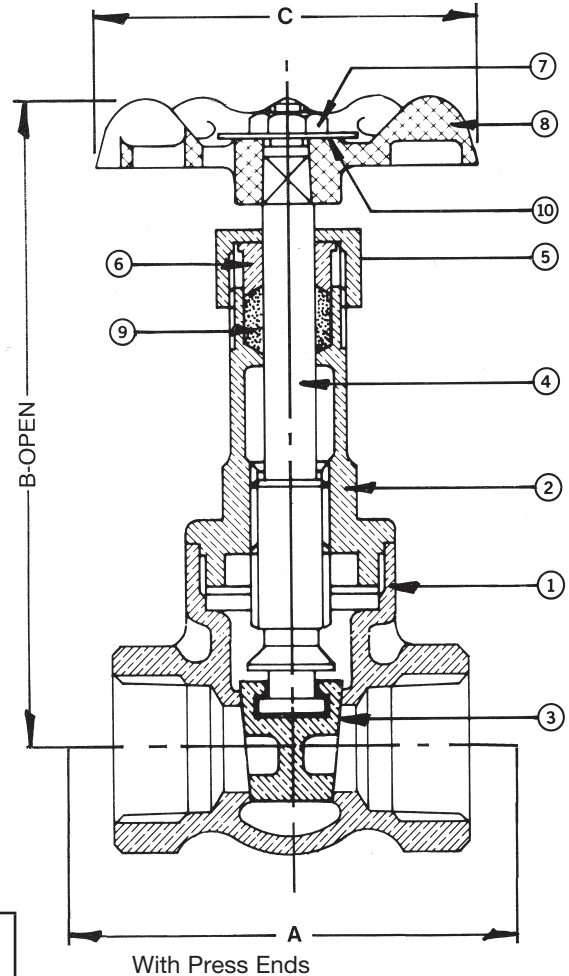
Bronze Gate Valve for Potable Water
200 psig @ 250°F †
Solid Wedge Disc • Rising Stem
Threaded Bonnet • Press Ends
Dimensions and Workmanship Conform to MSS SP-80

UP640 P2* 1/2"-2"

MATERIALS LIST

| ITEM | PART | MATERIALS | ASTM SPEC. |
|----------------|---------------|------------------------------|-----------------|
| 1 | Body | Bronze | B584 C89833 |
| 2 | Bonnet | Bronze | B584 C89833 |
| 3 | Wedge | Bronze | B584 C89833 |
| 4 | Stem | Brass | B21 C46400, H02 |
| 5 | Stuff Nut | Brass | B283 C27450 |
| 6 [†] | Gland | Brass | B283 C27450 |
| 7 | Wheel Nut | Brass | Commercial |
| 8 | Handwheel | Mall. Iron | Commercial |
| 9 | Packing | Graphite | Commercial |
| 10 | Name Plate | Sh. Alum | Commercial |
| 11 | Press Adapter | Brass Fitting w/ EPDM O-Ring | C27450 |

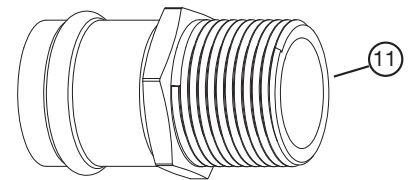
† Not used on 1/2"



DIMENSIONS

| Units | Size | STD INSERTION DEPTH | A | B | C | Cv |
|--------|-------|---------------------|------|-------|------|-------|
| INCHES | 1/2 | .87 | 5.00 | 4.38 | 2.00 | 17.6 |
| mm | | 22 | 127 | 111 | 51 | |
| INCHES | 3/4 | .98 | 5.76 | 5.84 | 2.50 | 32.0 |
| mm | | 25 | 146 | 148 | 64 | |
| INCHES | 1 | .98 | 6.56 | 7.06 | 2.75 | 54.0 |
| mm | | 25 | 167 | 179 | 70 | |
| INCHES | 1 1/4 | 1.02 | 6.85 | 8.78 | 3.44 | 97.0 |
| mm | | 26 | 174 | 223 | 87 | |
| INCHES | 1 1/2 | 1.42 | 7.29 | 9.50 | 3.75 | 135.0 |
| mm | | 36 | 185 | 241 | 95 | |
| INCHES | 2 | 1.58 | 9.31 | 11.50 | 3.75 | 230.0 |
| mm | | 40 | 236 | 292 | 95 | |

† Non-Shock



Press End Adapter (4151 Series)

*Both the valve and 4151 series press end adapters are tested and certified by IAPMO R & T to NSF/ANSI 61 and NSF/ANSI 372 for "Lead Free" compliance.

Note: Lead free refers to the wetted surface of the pipe, fittings and fixtures in potable water systems that have a weighted average lead content $\leq 0.25\%$. Source: California Health and Safety Code (116875).

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UP635 3/8"-2"



Bronze Gate Valve for Potable Water
300 psig WOG †
Solid Wedge Disc • Rising Stem
Threaded Bonnet • Solder Ends
Dimensions and Workmanship Conform to MSS SP-80

MATERIALS LIST

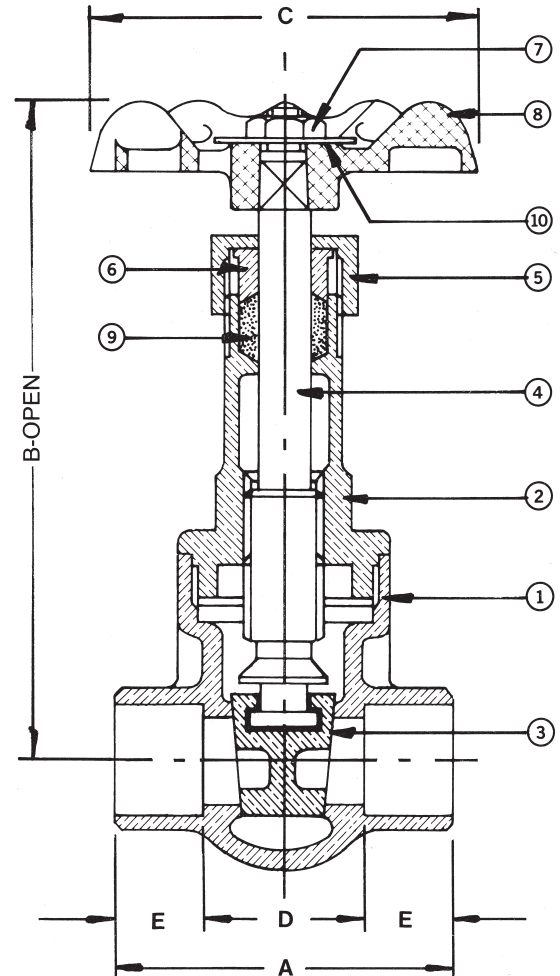
| ITEM | PART | MATERIALS | ASTM SPEC. |
|------|--------------------|------------|-----------------|
| 1 | Body | Bronze | B584 C89833 |
| 2 | Bonnet | Bronze | B584 C89833 |
| 3 | Wedge | Bronze | B584 C89833 |
| 4 | Stem | Bronze | B21 C46400, H02 |
| 5 | Stuff Nut | Brass | B283 C27450 |
| 6 | Gland ¹ | Brass | B283 C27450 |
| 7 | Wheel Nut | Brass | Commercial |
| 8 | Handwheel | Mall. Iron | Commercial |
| 9 | Packing | Graphite | Commercial |
| 10 | Name Plate | Sh. Alum | Commercial |

¹ Not used on 1/2" and smaller

| DIMENSIONS - INCHES/MILLIMETERS | | | | | | | |
|---------------------------------|-------|-------------|--------------|-------------|------------|------------|----------------|
| Units | Size | A | B | C | D | E | C _v |
| Inches mm | 3/8 | 1.63 41 | 4.31 110 | 2.00 51 | 0.88 22 | 0.38 10 | 10.7 |
| Inches mm | 1/2 | 1.88 48 | 4.31 110 | 2.00 51 | 0.88 22 | 0.50 13 | 17.6 |
| Inches mm | 3/4 | 2.50 64 | 6.25 159 | 2.50 64 | 1.00 25 | 0.75 19 | 32.0 |
| Inches mm | 1 | 3.00 76 | 7.00 178 | 2.75 70 | 1.19 30 | 0.91 23 | 54.0 |
| Inches mm | 1 1/4 | 3.25 83 | 8.63 219 | 3.44 87 | 1.31 33 | 0.97 25 | 97.0 |
| Inches mm | 1 1/2 | 3.63 92 | 9.50 241 | 3.75 95 | 1.44 37 | 1.09 28 | 135.0 |
| Inches mm | 2 | 4.31 110 | 11.50 292 | 3.75 95 | 1.63 41 | 1.34 34 | 230.0 |
| Inches mm | 2 1/2 | 4.81 122 | 14.31 364 | 4.75 121 | 1.88 48 | 1.47 37 | 337.0 |
| Inches mm | 3 | 5.44 138 | 16.38 416 | 5.25 133 | 2.13 54 | 1.66 42 | 536.0 |
| Inches mm | 4 | 7.25 184 | 15.50 394 | 5.25 133 | 2.93 75 | 2.16 55 | 960.0 |

† Non-Shock

* 4" is not covered in MSS SP-80. It has a split wedge and bolted bonnet.



Note: Lead free refers to the wetted surface of the pipe, fittings and fixtures in potable water systems that have a weighted average lead content $\leq 0.25\%$. Source: California Health and Safety Code (116875).

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HAMMONDVALVE



UP667 & UP668 1/4"-2"



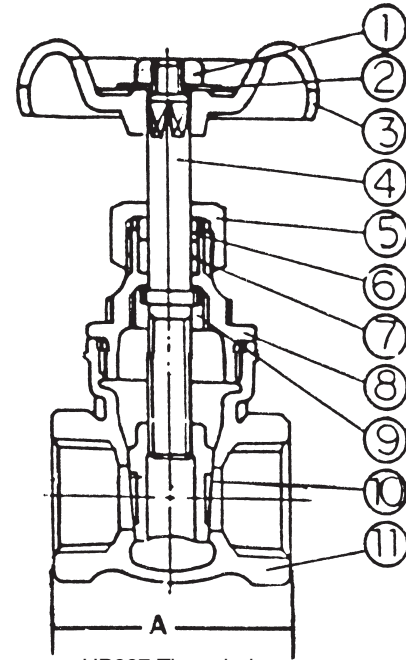
Brass Gate Valve for Potable Water
200 WOG

Threaded Bonnet

Threaded Ends (UP667) • Solder Ends (UP668)

MATERIALS LIST

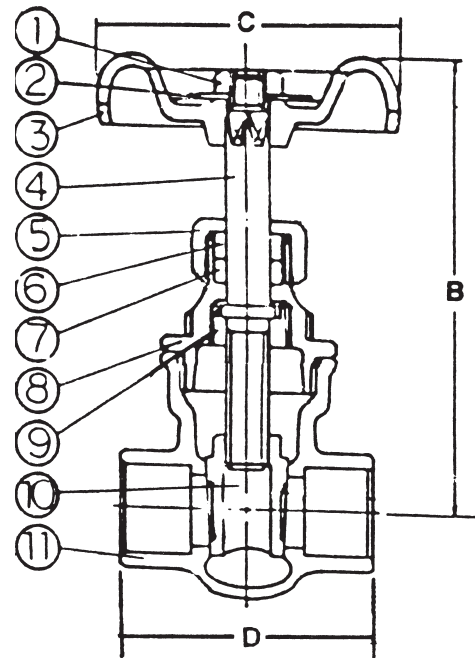
| ITEM | PART | MATERIALS | ASTM SPEC. |
|------|---------------|----------------|---------------|
| 1 | Handwheel Nut | Brass | B16 C36000 |
| 2 | Nameplate | Aluminum Sheet | Commercial |
| 3 | Handwheel | Cast Iron | A48, Class 35 |
| 4 | Stem | Brass | B283 C27450 |
| 5 | Packing Nut | Forged Brass | B283 C27450 |
| 6 | Gland | Brass Rod | B283 C27450 |
| 7 | Packing Ring | PTFE | Commercial |
| 8 | Bonnet | Forged Brass | B283 C27450 |
| 9 | Locknut | Brass Rod | B283 C27450 |
| 10 | Wedge | Forged Brass | B283 C27450 |
| 11 | Body | Forged Brass | B283 C27450 |



UP667 Threaded

DIMENSIONS

| Units | Size | A | B | C | D | Cv |
|--------|-------|------|------|------|------|-------|
| INCHES | 1/4 | 1.63 | 2.84 | 2.13 | - | 5.6 |
| mm | | 41 | 72 | 54 | | |
| INCHES | 3/8 | 1.63 | 2.84 | 2.13 | 1.63 | 10.7 |
| mm | | 41 | 72 | 54 | 41 | |
| INCHES | 1/2 | 1.69 | 2.91 | 2.13 | 1.78 | 17.6 |
| mm | | 43 | 74 | 54 | 45 | |
| INCHES | 3/4 | 1.84 | 3.31 | 2.13 | 2.31 | 32.0 |
| mm | | 47 | 84 | 54 | 59 | |
| INCHES | 1 | 2.19 | 3.94 | 2.41 | 2.84 | 54.0 |
| mm | | 56 | 100 | 61 | 72 | |
| INCHES | 1 1/4 | 2.42 | 4.34 | 2.94 | 3.00 | 97.0 |
| mm | | 61 | 110 | 75 | 76 | |
| INCHES | 1 1/2 | 2.44 | 4.94 | 2.94 | 3.22 | 135.0 |
| mm | | 62 | 125 | 75 | 82 | |
| INCHES | 2 | 2.84 | 6.03 | 3.19 | 3.97 | 230.0 |
| mm | | 72 | 153 | 81 | 101 | |



UP668 Solder

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UP440 1/8"-2"



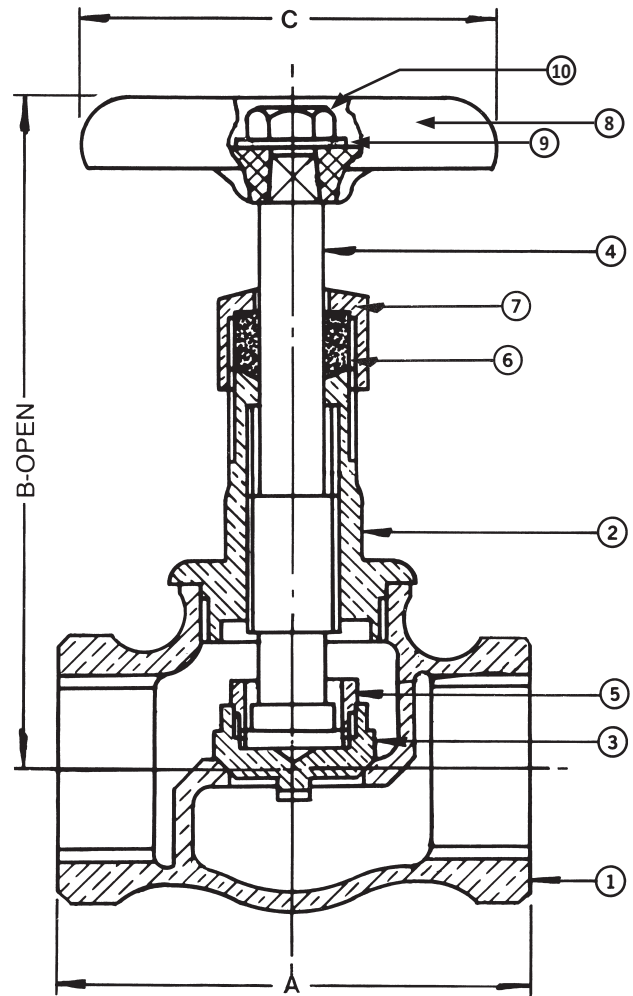
Bronze Globe Valve For Potable Water
300 psig WOG †
Bronze Disc

Threaded Bonnet • Threaded Ends
Dimensions and Workmanship Conform to MSS SP-80

MATERIALS LIST

| ITEM | PART | MATERIALS | ASTM SPEC. |
|------|----------------------|------------|-----------------|
| 1 | Body | Bronze | B584 C89833 |
| 2 | Bonnet | Bronze | B584 C89833 |
| 3 | Disc | Bronze | B584 C89833 |
| | | Brass | B21 C46400, H02 |
| 4 | Stem | Bronze | B21 C46400, H02 |
| 5 | Disc Ring | Brass | B21 C46400, H02 |
| 6 | Packing | Graphite | Commercial |
| 7 | Packing Nut | Brass | B16 C36000 |
| 8 | Handwheel | Mall. Iron | Commercial |
| 9 | Identification Plate | Aluminum | Commercial |
| 10 | Handwheel Nut | Brass | Commercial |

1/8" to 1/2" sizes have the disc integral with the stem and have no disc ring.



DIMENSIONS

| Units | Size | A | B | C | Cv |
|--------|-------|------|------|------|------|
| INCHES | 1/8 | 1.63 | 3.06 | 2.00 | 0.6 |
| mm | | 41 | 78 | 51 | |
| INCHES | 1/4 | 1.63 | 3.06 | 2.00 | 1.2 |
| mm | | 41 | 78 | 51 | |
| INCHES | 3/8 | 1.81 | 3.19 | 2.00 | 2.2 |
| mm | | 46 | 81 | 51 | |
| INCHES | 1/2 | 2.31 | 3.63 | 2.00 | 3.6 |
| mm | | 59 | 92 | 51 | |
| INCHES | 3/4 | 2.56 | 3.94 | 2.50 | 6.7 |
| mm | | 65 | 100 | 64 | |
| INCHES | 1 | 2.94 | 4.38 | 2.75 | 11.1 |
| mm | | 75 | 111 | 70 | |
| INCHES | 1 1/4 | 3.38 | 5.19 | 3.44 | 20.0 |
| mm | | 86 | 132 | 87 | |
| INCHES | 1 1/2 | 3.69 | 5.75 | 3.75 | 28.0 |
| mm | | 94 | 146 | 95 | |
| INCHES | 2 | 4.44 | 6.75 | 4.25 | 48.0 |
| mm | | 113 | 172 | 108 | |

† Non-Shock

Note: Lead free refers to the wetted surface of the pipe, fittings and fixtures in potable water systems that have a weighted average lead content $\leq 0.25\%$. Source: California Health and Safety Code (116875).

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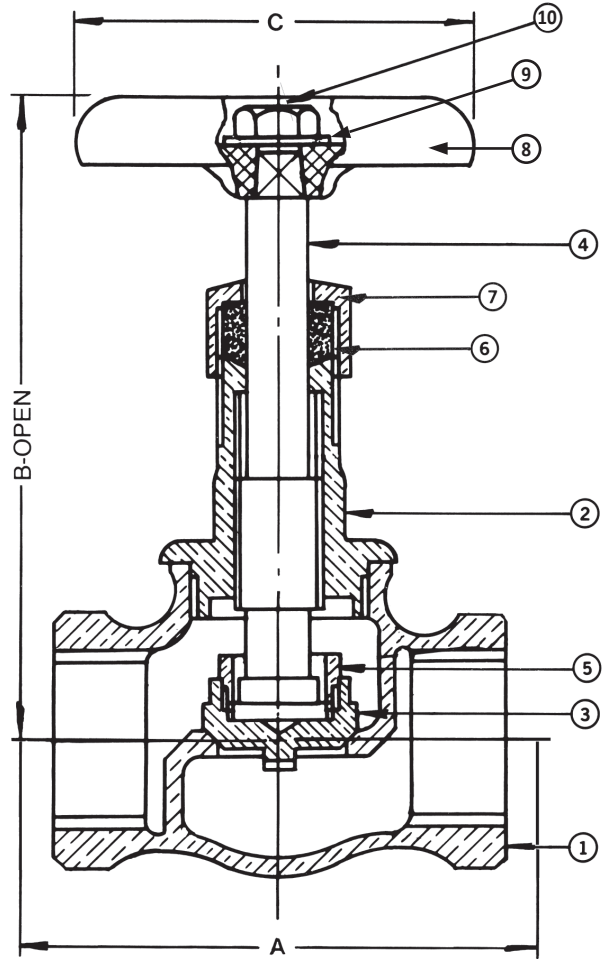
UP440 P2* 1/2"-2"

Bronze Globe Valve For Potable Water
200 psig @ 250°F †
Bronze Disc
Threaded Bonnet • Press Ends
Dimensions and Workmanship Conform to MSS SP-80

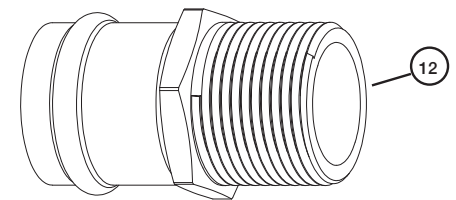
MATERIALS LIST

| ITEM | PART | MATERIALS | ASTM SPEC. |
|------|----------------------|------------------------------|-----------------|
| 1 | Body | Bronze | B584 C89833 |
| 2 | Bonnet | Bronze | B584 C89833 |
| 3 | Disc | Bronze | B584 C89833 |
| | | Brass | B21 C46400, H02 |
| 4 | Stem | Bronze | B21 C46400, H02 |
| 5 | Disc Ring | Brass | B21 C46400, H02 |
| 6 | Packing | Graphite | Commercial |
| 7 | Packing Nut | Brass | B16 C36000 |
| 8 | Handwheel | Mall. Iron | Commercial |
| 9 | Identification Plate | Aluminum | Commercial |
| 10 | Handwheel Nut | Brass | Commercial |
| 11 | Gland (not shown) | Brass | B16 C36000 |
| 12 | Press Adapter | Brass Fitting w/ EPDM O-Ring | B283 C27450 |

1/2" sizes has the disc integral with the stem and have no disc ring.



With Press Ends



Press End Adapter (4151 Series)

DIMENSIONS

| Units | Size | STD INSERTION DEPTH | A | B | C | Cv |
|--------|-------|---------------------|-------|------|------|------|
| INCHES | 1/2 | .87 | 5.31 | 3.63 | 2.00 | 3.6 |
| mm | | 22 | 135 | 92 | 51 | |
| INCHES | 3/4 | .98 | 6.14 | 3.94 | 2.50 | 6.6 |
| mm | | 25 | 156 | 100 | 64 | |
| INCHES | 1 | .98 | 6.94 | 4.38 | 2.75 | 11.1 |
| mm | | 25 | 176 | 111 | 70 | |
| INCHES | 1 1/4 | 1.02 | 7.45 | 5.19 | 3.44 | 20.0 |
| mm | | 26 | 189 | 132 | 87 | |
| INCHES | 1 1/2 | 1.42 | 8.17 | 5.75 | 3.75 | 28.0 |
| mm | | 36 | 208 | 146 | 95 | |
| INCHES | 2 | 1.58 | 10.44 | 6.75 | 4.25 | 48.0 |
| mm | | 40 | 265 | 172 | 108 | |

† Non-Shock

*Both the valve and 4151 series press end adapters are tested and certified by IAPMO R & T to NSF/ANSI 61 and NSF/ANSI 372 for "Lead Free" compliance.

Note: Lead free refers to the wetted surface of the pipe, fittings and fixtures in potable water systems that have a weighted average lead content $\leq 0.25\%$. Source: California Health and Safety Code (116875).

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UP418* 3/8"-2"

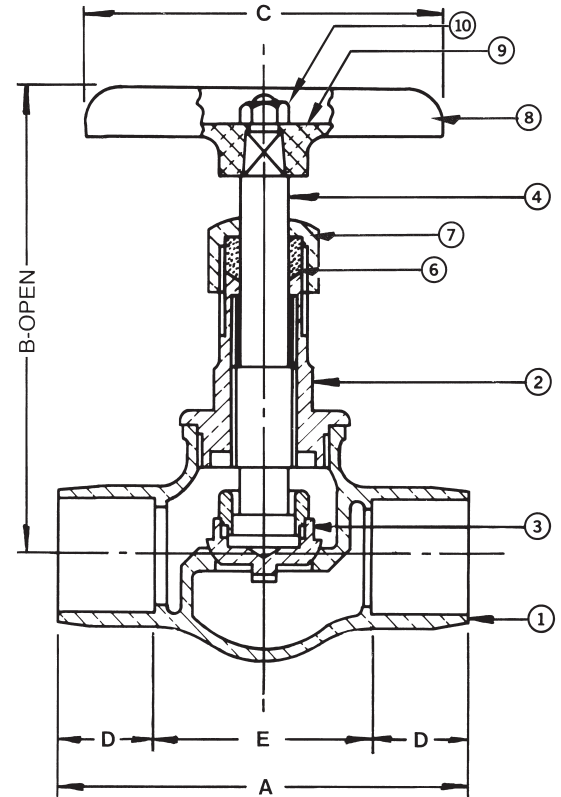


Bronze Globe Valve For Potable Water
300 psig WOG †
Bronze Disc
Threaded Bonnet • Solder Ends
Dimensions and Workmanship Conform to MSS SP-80

* 1/2" sizes has the disc integral with the stem and have no disc ring.

MATERIALS LIST

| ITEM | PART | MATERIALS | ASTM SPEC. |
|------|----------------------|------------|-----------------|
| 1 | Body | Bronze | B584 C89833 |
| 2 | Bonnet | Bronze | B584 C89833 |
| 3 | Disc | Bronze | B584 C89833 |
| | | Brass | B21 C46400, H02 |
| 4 | Stem | Bronze | B21 C46400, H02 |
| 5 | Disc Ring | Brass | B21 C46400, H02 |
| 6 | Packing | Graphite | Commercial |
| 7 | Packing Nut | Brass | B16 C30000 |
| 8 | Handwheel | Mall. Iron | Commercial |
| 9 | Identification Plate | Aluminum | Commercial |
| 10 | Handwheel Nut | Brass | Commercial |



DIMENSIONS

| Units | Size | A | B | C | D | E | Cv |
|--------|-------|------|------|------|------|------|------|
| INCHES | 3/8 | 1.94 | 3.19 | 2.00 | 0.38 | 1.18 | 2.2 |
| mm | | 49 | 81 | 51 | 10 | 30 | |
| INCHES | 1/2 | 2.44 | 3.75 | 2.00 | 0.50 | 1.44 | 3.6 |
| mm | | 62 | 95 | 51 | 13 | 37 | |
| INCHES | 3/4 | 3.19 | 4.00 | 2.50 | 0.75 | 1.69 | 6.7 |
| mm | | 81 | 102 | 64 | 19 | 43 | |
| INCHES | 1 | 3.69 | 4.38 | 2.75 | 0.91 | 1.88 | 11.1 |
| mm | | 94 | 111 | 70 | 23 | 48 | |
| INCHES | 1 1/4 | 4.19 | 5.13 | 3.44 | 0.97 | 2.25 | 20.0 |
| mm | | 106 | 130 | 87 | 25 | 57 | |
| INCHES | 1 1/2 | 4.75 | 5.63 | 3.75 | 1.09 | 2.56 | 28.0 |
| mm | | 121 | 143 | 95 | 28 | 65 | |
| INCHES | 2 | 5.94 | 6.69 | 4.25 | 1.34 | 3.25 | 48.0 |
| mm | | 151 | 170 | 121 | 34 | 83 | |

† Non-Shock

Note: Lead free refers to the wetted surface of the pipe, fittings and fixtures in potable water systems that have a weighted average lead content $\leq 0.25\%$. Source: California Health and Safety Code (116875).

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Bronze Check Valve For Potable Water
300 WOG† (1/4" - 2") 200 psig WOG †(2 1/2" -3")
Horizontal Swing • Threaded Ends
Dimensions and Workmanship Conform to MSS SP-80

UP904 1/4"-3"



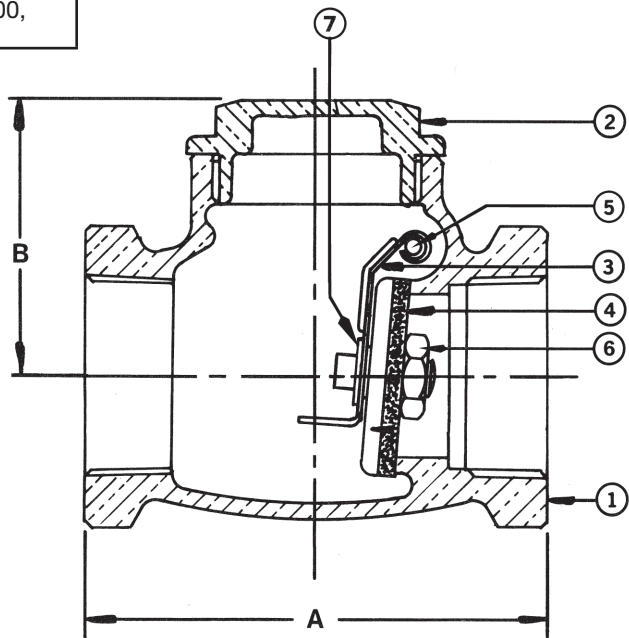
MATERIALS LIST

| ITEM | PART | MATERIALS | ASTM SPEC. |
|------|------------------|-----------------|---|
| 1 | Body | Bronze | B584 C89833 |
| 2 | Cap | Bronze | B584 C89833 |
| 3 | Lever | Stainless Steel | A276 S30200 (1/4"-2") |
| | | Bronze | B584 C89833 (2 1/2"-3") |
| 4 | Disc | Brass | ASTM B21 C46400, H02 (1/4"-1 1/2") |
| | | Bronze | ASTM B584 C89833 (2"-3") |
| 5 | Pin | Stainless Steel | A276 S30400 (1"-2") |
| | | Stainless Steel | A582 S30300 (1/4"-3/4") (2 1/2"-3") |
| 6 | Disc Nut | Brass | B21 C46400 H02 (2 1/2"-3") |
| 7 | Retaining Ring | Stainless Steel | A276 S30400 |
| 8 | Plug (not shown) | Brass | B21 C46400, H02 |

DIMENSIONS

| Units | Size | A | B | Cv |
|--------|-------|------|------|-------|
| INCHES | 1/4 | 2.13 | 1.32 | 3.3 |
| mm | | 54 | 34 | |
| INCHES | 3/8 | 2.13 | 1.32 | 6.0 |
| mm | | 54 | 34 | |
| INCHES | 1/2 | 2.31 | 1.32 | 10.0 |
| mm | | 59 | 34 | |
| INCHES | 3/4 | 2.63 | 1.69 | 18.0 |
| mm | | 67 | 43 | |
| INCHES | 1 | 3.25 | 2.00 | 31.0 |
| mm | | 83 | 51 | |
| INCHES | 1 1/4 | 3.56 | 2.13 | 54.0 |
| mm | | 91 | 54 | |
| INCHES | 1 1/2 | 4.00 | 2.38 | 76.0 |
| mm | | 102 | 60 | |
| INCHES | 2 | 4.75 | 2.81 | 131.0 |
| mm | | 121 | 71 | |
| INCHES | 2 1/2 | 6.00 | 3.63 | 233.8 |
| mm | | 152 | 92 | |
| INCHES | 3 | 6.88 | 4.19 | 286.4 |
| mm | | 175 | 106 | |

† Non-Shock



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HAMMONDVALVE



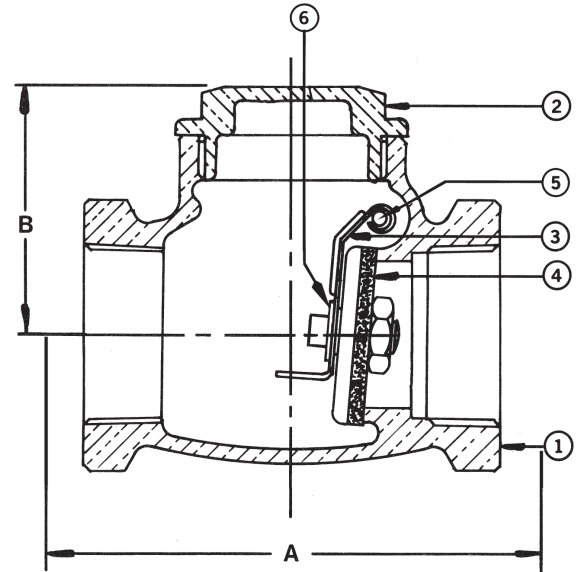
Bronze Check Valve For Potable Water
200 psig @ 250°F †
Horizontal Swing • Press Ends

UP904 P2* 1/2"-2"

Dimensions and Workmanship Conform to MSS SP-80

MATERIALS LIST

| ITEM | PART | MATERIALS | ASTM SPEC. |
|------|--------------------|---------------------------------|--|
| 1 | Body | Bronze | B584 C89833 |
| 2 | Cap | Bronze | B584 C89833 |
| 3 | Lever | Stainless Steel | A276 S30200 1/2" to 2" Incl. |
| 4 | Disc | Brass | B21 C46400, H02 (1/2"-1 1/2") Incl. |
| | | Bronze | B584 C89833 (2") |
| 5 | Pin | Stainless Steel | A276 S30400 (1/2"-1") |
| | | | A582 530300 (1 1/4"-2") |
| 6 | Disc Nut | Brass | B283 C46400 |
| 7 | Retaining Ring | Stainless Steel | A276 S30400 |
| 8 | Plug (not shown) | Brass | B21 C46400, H02 |
| 9 | Washer (not shown) | Brass | B16 C36000 |
| 10 | Press Adapter | Brass Fitting w/ EPDM O-Ring | ASTM B283 C27450 |

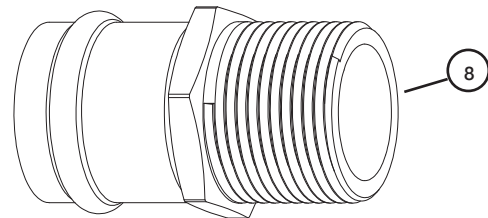


With Press Ends

DIMENSIONS

| Units | Size | STD INSERTION DEPTH | A | B | Cv |
|--------|-------|---------------------|-------|------|-------|
| INCHES | 1/2 | 0.87 | 5.31 | 1.32 | 10.0 |
| mm | | 22 | 135 | 34 | |
| INCHES | 3/4 | 0.98 | 6.21 | 1.69 | 18.0 |
| mm | | 25 | 158 | 43 | |
| INCHES | 1 | 0.98 | 7.25 | 2.00 | 31.0 |
| mm | | 25 | 184 | 51 | |
| INCHES | 1 1/4 | 1.02 | 7.63 | 2.13 | 54.0 |
| mm | | 26 | 194 | 54 | |
| INCHES | 1 1/2 | 1.42 | 8.48 | 2.38 | 76.0 |
| mm | | 36 | 215 | 60 | |
| INCHES | 2 | 1.58 | 10.75 | 2.81 | 131.0 |
| mm | | 40 | 273 | 71 | |

† Non-Shock



Press End Adapter (4151 Series)

*Both the valve and 4151 series press end adapters are tested and certified by IAPMO R & T to NSF/ANSI 61 and NSF/ANSI 372 for "Lead Free" compliance.

Note: Lead free refers to the wetted surface of the pipe, fittings and fixtures in potable water systems that have a weighted average lead content $\leq 0.25\%$. Source: California Health and Safety Code (116875).

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⚠ State of California Prop 65 **WARNING:** Cancer and Reproductive Harm. For more information visit www.p65warnings.ca.gov.





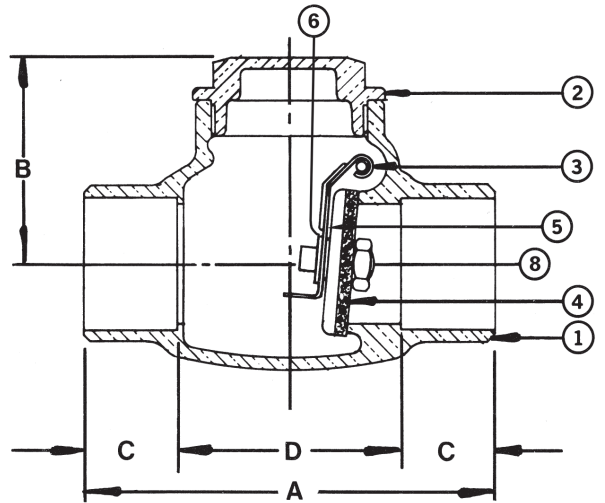
Bronze Check Valve For Potable Water
300 WOG† (3/8" - 2") 200 psig WOG †(2 1/2" - 3")
Bronze Disc
Horizontal Swing • Solder Ends
Dimensions and Workmanship Conform to MSS SP-80

UP912 3/8"-3"

Tested and Certified by
 IAPMO RAK to NSF/ANSI 61
 and NSF/ANSI 372 for lead
 free compliance.

MATERIALS LIST

| ITEM | PART | MATERIALS | ASTM SPEC. |
|------|------------------|-----------------|--|
| 1 | Body | Bronze | B584 C89833 |
| 2 | Cap | Bronze | B584 C89833 |
| 3 | Pin | Stainless Steel | A276 S30400 (3/8" - 1") A582 S30300 (1 1/4"-2") |
| 4 | Disc | Brass | B21 C46400, H02 |
| | | Bronze | B584 C89833 (2"-3") |
| 5 | Lever | Stainless Steel | A276 S530200 |
| 6 | Retaining Ring | Stainless Steel | A276 S530400 |
| 7 | Plug (not shown) | Brass | B21 C46400, H02 |
| 8 | Disc Nut | Brass | B21 C46400, H02 (2 1/2"-3") |



DIMENSIONS

| Units | Size | A | B | C | D | Cv |
|--------|-------|------|------|------|------|-------|
| INCHES | 3/8 | 2.25 | 1.32 | 0.38 | 1.50 | 6.0 |
| mm | | 57 | 34 | 10 | 38 | |
| INCHES | 1/2 | 2.75 | 1.32 | 0.51 | 1.73 | 10.0 |
| mm | | 70 | 34 | 13 | 44 | |
| INCHES | 3/4 | 3.31 | 1.69 | 0.75 | 1.75 | 18.0 |
| mm | | 84 | 43 | 19 | 45 | |
| INCHES | 1 | 4.00 | 1.97 | 0.91 | 2.19 | 31.0 |
| mm | | 102 | 50 | 23 | 56 | |
| INCHES | 1 1/4 | 4.25 | 2.16 | 0.97 | 2.31 | 54.0 |
| mm | | 108 | 55 | 25 | 59 | |
| INCHES | 1 1/2 | 4.94 | 2.41 | 1.09 | 2.75 | 76.0 |
| mm | | 125 | 61 | 28 | 70 | |
| INCHES | 2 | 6.13 | 2.81 | 1.34 | 3.44 | 131.0 |
| mm | | 156 | 72 | 34 | 87 | |
| INCHES | 2 1/2 | 7.38 | 3.63 | 1.48 | 4.42 | 233.8 |
| mm | | 187 | 92 | 38 | 112 | |
| INCHES | 3 | 8.50 | 4.19 | 1.66 | 5.19 | 286.4 |
| mm | | 216 | 106 | 42 | 132 | |

† Non-Shock

Note: Lead free refers to the wetted surface of the pipe, fittings and fixtures in potable water systems that have a weighted average lead content ≤0.25%. Source: California Health and Safety Code (116875).

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⚠ State of California Prop 65 **WARNING:** Cancer and Reproductive Harm. For more information visit www.p65warnings.ca.gov.





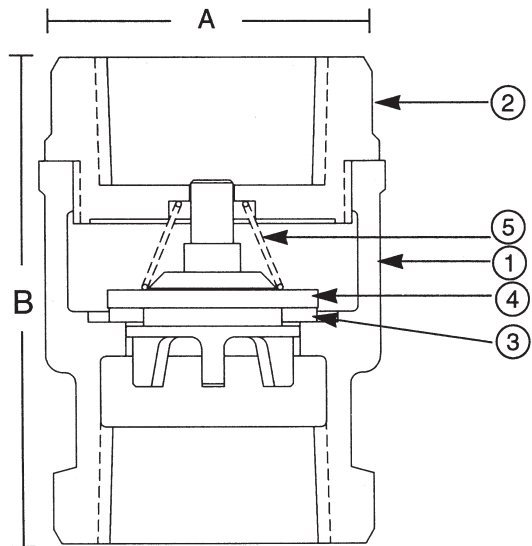
Bronze Lift Check Valve For Potable Water
250 psig WOG †
PTFE Disc
Spring Loaded • Threaded Ends

UP943 3/8"-2"



MATERIALS LIST

| ITEM | PART | MATERIALS | ASTM SPEC. |
|------|-------------|-----------------|-------------|
| 1 | Body | Cast Bronze | B584 C89833 |
| 2 | Tail Piece | Cast Bronze | B584 C89833 |
| 3 | Disc | PTFE | Commercial |
| 4 | Disc Holder | Cast Bronze | B584 C89833 |
| 5 | Spring | Stainless Steel | A276 S30400 |



Note: Check Valves may be installed in both the horizontal and vertical lines with upward flow or in any intermediate position.

DIMENSIONS

| Units | Size | A | B | Cv |
|--------|-------|------|------|------|
| INCHES | 3/8 | 1.22 | 1.97 | 2.5 |
| mm | | 31 | 50 | |
| INCHES | 1/2 | 1.22 | 2.09 | 4.1 |
| mm | | 31 | 53 | |
| INCHES | 3/4 | 1.50 | 2.31 | 7.6 |
| mm | | 38 | 59 | |
| INCHES | 1 | 1.91 | 2.66 | 13.0 |
| mm | | 48 | 67 | |
| INCHES | 1 1/4 | 2.16 | 3.09 | 23.0 |
| mm | | 55 | 79 | |
| INCHES | 1 1/2 | 2.59 | 3.31 | 31.0 |
| mm | | 66 | 84 | |
| INCHES | 2 | 3.13 | 3.78 | 54.0 |
| mm | | 79 | 96 | |

† Non-Shock

Note: Lead free refers to the wetted surface of the pipe, fittings and fixtures in potable water systems that have a weighted average lead content ≤0.25%. Source: California Health and Safety Code (116875).

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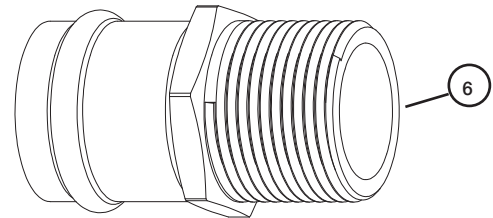
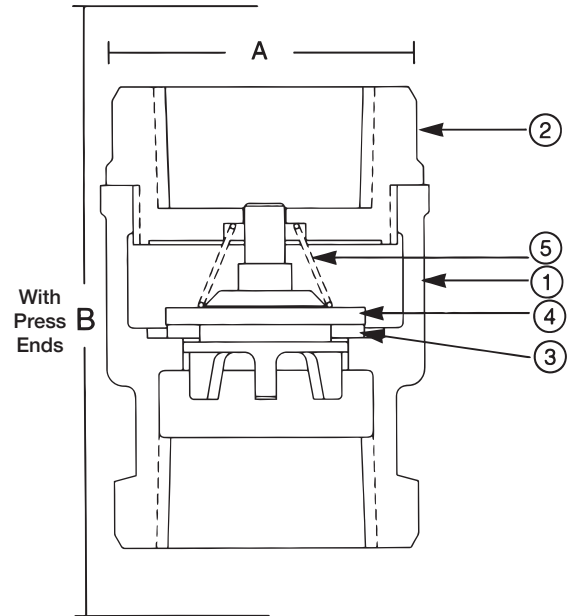


Bronze Lift Check Valve For Potable Water
200 psig @ 250°F †
Spring Loaded • Press Ends

UP943 P2* 1/2"-2"

MATERIALS LIST

| ITEM | PART | MATERIALS | ASTM SPEC. |
|------|---------------|---------------------------------|-------------|
| 1 | Body | Cast Bronze | B584 C89833 |
| 2 | Tail Piece | Cast Bronze | B584 C89833 |
| 3 | Disc | PTFE | Commerical |
| 4 | Disc Holder | Cast Bronze | B584 C89833 |
| 5 | Spring | Stainless Steel | A276 S30400 |
| 6 | Press Adapter | Brass Fitting w/ EPDM O-Ring | B283C27450 |



Press End Adapter (4151 Series)

DIMENSIONS

| Units | Size | STD INSERTION DEPTH | A | B | Cv |
|--------|-------|---------------------|------|------|------|
| INCHES | 1/2 | .87 | 1.22 | 4.22 | 4.1 |
| mm | | 22 | 31 | 107 | |
| INCHES | 3/4 | .98 | 1.50 | 5.08 | 7.6 |
| mm | | 166 | 38 | 129 | |
| INCHES | 1 | .98 | 1.91 | 5.91 | 13.0 |
| mm | | 166 | 48 | 150 | |
| INCHES | 1 1/4 | 1.02 | 2.16 | 6.23 | 23.0 |
| mm | | 26 | 55 | 158 | |
| INCHES | 1 1/2 | 1.42 | 2.59 | 7.07 | 31.0 |
| mm | | 36 | 66 | 180 | |
| INCHES | 2 | 1.58 | 3.13 | 9.13 | 54.0 |
| mm | | 40 | 79 | 232 | |

Do not use for reciprocating air compressor service.

Note 1: Check Valves may be installed in both the horizontal and vertical lines with upward flow or in any intermediate position.

*Both the valve and 4151 series press end adapters are tested and certified by IAPMO R & T to NSF/ANSI 61 and NSF/ANSI 372 for "Lead Free" compliance.

Note: Lead free refers to the wetted surface of the pipe, fittings and fixtures in potable water systems that have a weighted average lead content ≤0.25%. Source: California Health and Safety Code (116875).

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Bronze Lift Check Valve For Potable Water
250 psig WOG †
PTFE Disc
Spring Loaded • Solder Ends

UP947 3/8"-2"



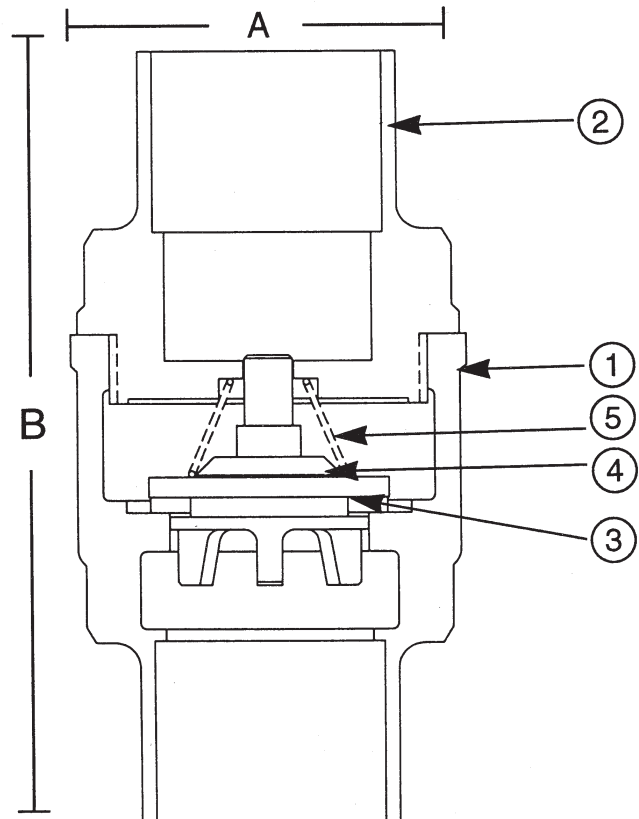
MATERIALS LIST

| ITEM | PART | MATERIALS | ASTM SPEC. |
|------|-------------|-----------------|------------------|
| 1 | Body | Cast Bronze | B584 C89833 |
| 2 | Tail Piece | Cast Bronze | B584 C89833 |
| 3 | Disc | PTFE | Commercial |
| 4 | Disc Holder | Cast Bronze | ASTM B584 C89833 |
| 5 | Spring | Stainless Steel | A276 S30400 |

DIMENSIONS

| Units | Size | A | B | Cv |
|--------|-------|------|------|------|
| INCHES | 3/8 | 1.22 | 2.16 | 2.5 |
| mm | | 31 | 55 | |
| INCHES | 1/2 | 1.22 | 2.41 | 4.1 |
| mm | | 31 | 61 | |
| INCHES | 3/4 | 1.50 | 2.81 | 7.6 |
| mm | | 38 | 71 | |
| INCHES | 1 | 1.91 | 3.53 | 13.0 |
| mm | | 48 | 90 | |
| INCHES | 1 1/4 | 2.16 | 4.88 | 23.0 |
| mm | | 55 | 124 | |
| INCHES | 1 1/2 | 2.59 | 4.22 | 31.0 |
| mm | | 66 | 107 | |
| INCHES | 2 | 3.13 | 5.09 | 54.0 |
| mm | | 79 | 129 | |

† Non-Shock



Note: Check Valves may be installed in both the horizontal and vertical lines with upward flow or in any intermediate position.

Note: Lead free refers to the wetted surface of the pipe, fittings and fixtures in potable water systems that have a weighted average lead content $\leq 0.25\%$. Source: California Health and Safety Code (116875).

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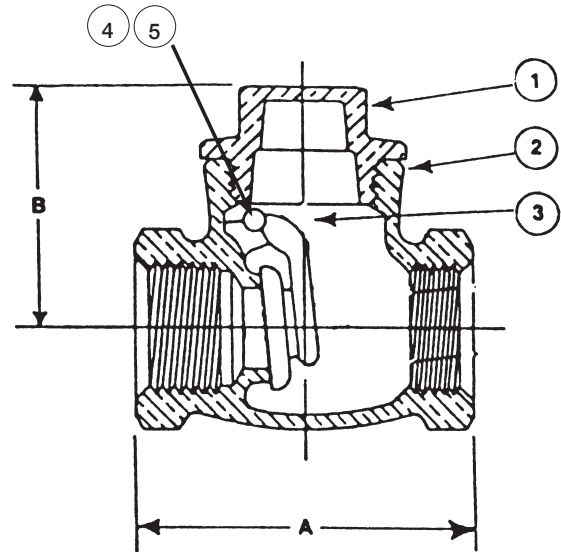
UP967 & UP968 3/8"-3"



Brass Swing Check Valve for Potable Water
200 WOG †
Brass Disc
Threaded Bonnet
Threaded Ends (UP967) • Solder Ends (UP968)

MATERIALS LIST

| ITEM | PART | MATERIALS | ASTM SPEC. |
|------|-----------|-----------------|--------------|
| 1 | Cap | Forged Brass | B283, C27450 |
| 2 | Body | Forged Brass | B283, C27450 |
| 3 | Disc | Forged Brass | B283, C27450 |
| 4 | Side Plug | Stainless Steel | A276 S30400 |
| 5 | Pin | Stainless Steel | A276 S30400 |



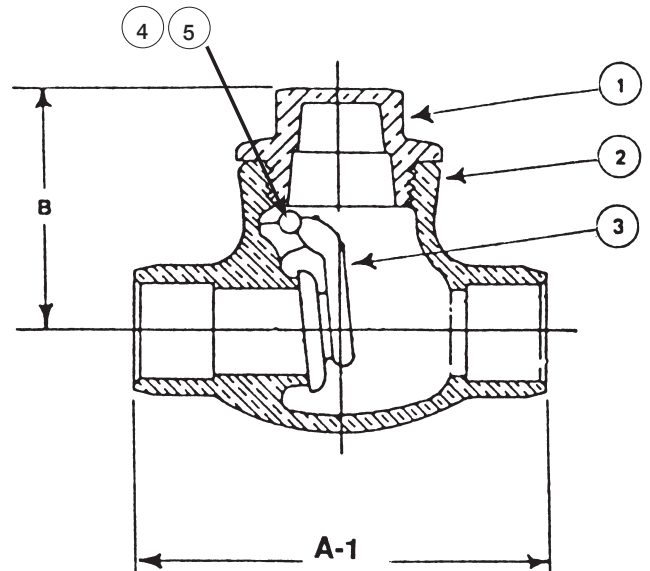
UP967 Threaded

DIMENSIONS

| Units | Size | A | A-1 | B |
|--------|-------|------|------|------|
| INCHES | 3/8 | 1.82 | - | 1.35 |
| mm | | 46 | - | 34 |
| INCHES | 1/2 | 1.86 | 2.18 | 1.35 |
| mm | | 47 | 55 | 34 |
| INCHES | 3/4 | 2.11 | 2.85 | 1.53 |
| mm | | 54 | 72 | 39 |
| INCHES | 1 | 2.52 | 3.46 | 1.74 |
| mm | | 64 | 88 | 44 |
| INCHES | 1 1/4 | 2.72 | 3.70 | 1.99 |
| mm | | 69 | 94 | 51 |
| INCHES | 1 1/2 | 3.23 | 4.33 | 2.28 |
| mm | | 82 | 110 | 58 |
| INCHES | 2 | 3.70 | 5.12 | 2.48 |
| mm | | 94 | 130 | 63 |
| INCHES | 2 1/2 | 5.20 | 6.73 | 3.11 |
| mm | | 132 | 171 | 79 |
| INCHES | 3 | 5.83 | 7.48 | 3.81 |
| mm | | 148 | 190 | 97 |

Warning: DO NOT USE for reciprocation air compressor service.

† Non-Shock



UP968 Solder

Note: Lead free refers to the wetted surface of the pipe, fittings and fixtures in potable water systems that have a weighted average lead content $\leq 0.25\%$. Source: California Health and Safety Code (116875).

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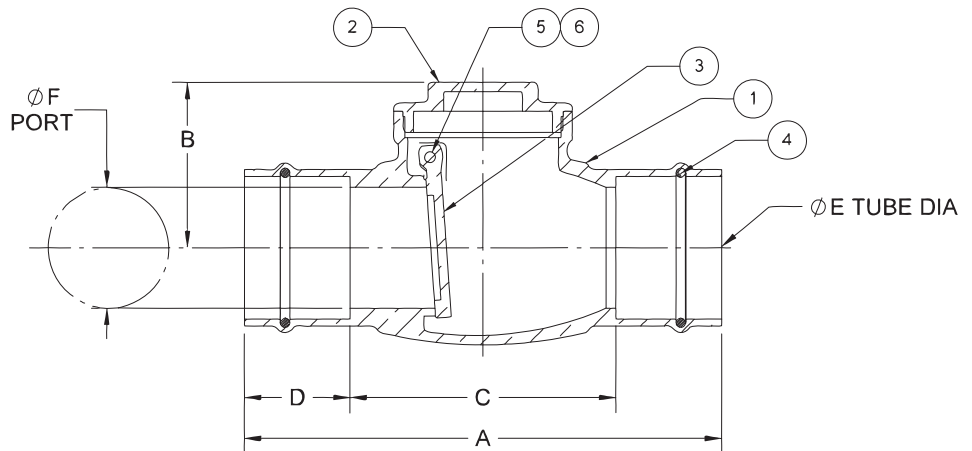
Brass Swing Check Valve for Potable Water
200 psig @ 250°F †
Threaded Bonnet
Horizontal Swing • Press Ends

UP969* 1/2"-2"



MATERIALS LIST

| ITEM | PART | MATERIALS | ASTM SPEC. |
|------|-----------|-----------------|--------------|
| 1 | Body | Brass | B283, C27450 |
| 2 | Cap | Brass | B283, C27450 |
| 3 | Disc | Brass | B283, C27450 |
| 4 | O-Ring | EPDM | Commercial |
| 5 | Pin | Stainless Steel | A276 S30400 |
| 6 | Side Plug | Brass | B124 C27450 |



DIMENSIONS

| Units | Size | A | B | C | D | E | F |
|--------|-------|------|------|------|------|------|------|
| INCHES | 1/2 | 3.35 | 1.38 | 1.70 | 0.83 | 0.63 | 0.50 |
| mm | | 85 | 35 | 43 | 21 | 16 | 13 |
| INCHES | 3/4 | 3.74 | 1.43 | 1.75 | 0.99 | 0.88 | 0.75 |
| mm | | 95 | 36 | 45 | 25 | 23 | 19 |
| INCHES | 1 | 4.36 | 1.74 | 2.38 | 0.99 | 1.13 | 0.93 |
| mm | | 111 | 44 | 61 | 25 | 29 | 24 |
| INCHES | 1 1/4 | 4.97 | 1.99 | 2.92 | 1.02 | 1.38 | 1.24 |
| mm | | 126 | 51 | 74 | 26 | 35 | 32 |
| INCHES | 1 1/2 | 6.13 | 2.28 | 3.30 | 1.42 | 1.63 | 1.38 |
| mm | | 156 | 58 | 84 | 36 | 42 | 35 |
| INCHES | 2 | 7.16 | 2.48 | 3.99 | 1.59 | 2.13 | 1.81 |
| mm | | 182 | 63 | 101 | 40 | 54 | 46 |

† Non-Shock

* Ultra Press Valves are designed and qualified for use in copper tubing systems only, Types K, L, & M per ASTM B88. For installation instructions please see engineering section on website.

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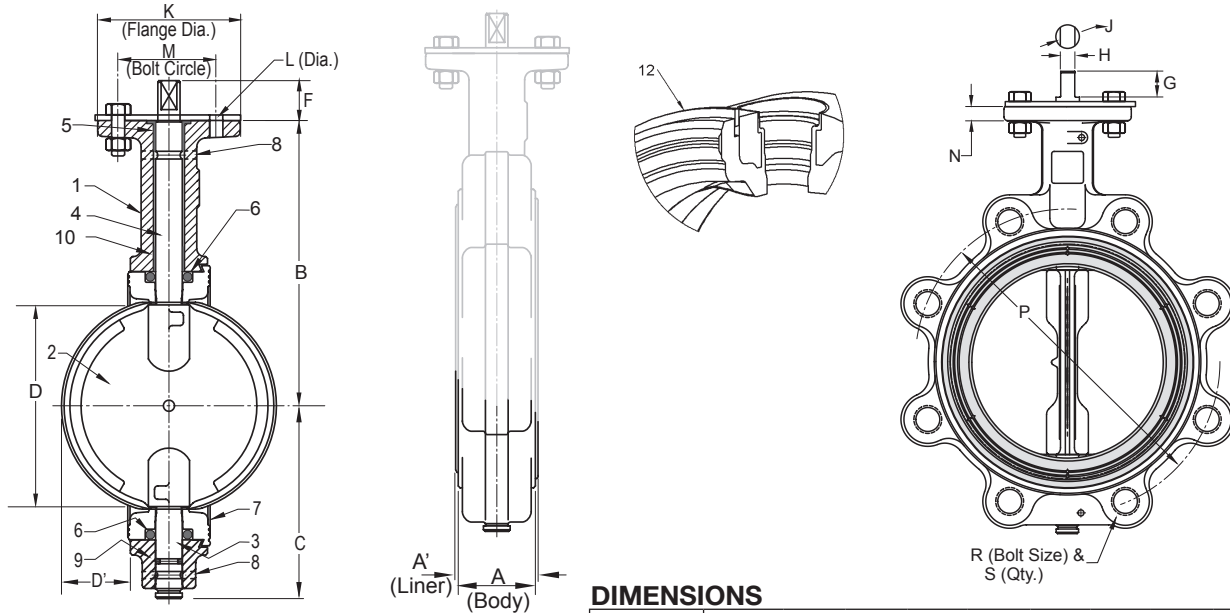
⚠ State of California Prop 65 **WARNING:** Cancer and Reproductive Harm. For more information visit www.p65warnings.ca.gov.



5000 Series 2"-12"



Tested and Certified by
IAPMO R&T to NSF/ANSI 372
and NSF/ANSI 61



MATERIALS LIST

| ITEM | PART | MATERIALS |
|------|----------------|-------------------------------|
| 1 | BODY | CAST IRON ASTM A126 CL B |
| 2 | DISC | ALUMINUM BRONZE ASTM B148 |
| 3 | BOTTOM STEM | STAINLESS STEEL TYPE 416 |
| 4 | TOP STEM | STAINLESS STEEL TYPE 416 |
| 5 | TOP BEARING | REINFORCED NYLON |
| 6 | SEAL | EPDM |
| 7 | LINER | EPDM |
| 8 | ROLL PIN | STAINLESS STEEL |
| 9 | STEM SEAL | EPDM |
| 10 | LOWER BEARING | REINFORCED NYLON |
| 11 | OPERATOR | LEVER HANDLE GEAR OPERATOR |
| 12 | RETAINING RING | ST1066 SPRING STEEL (65Mn) |

DIMENSIONS

| | INCHES DN | VALVE SIZE | | | | | | | | |
|----------------------------|--------------|------------|--------|--------|--------|--------|--------|--------|-------|-------|
| | | 2 | 2-1/2 | 3 | 4 | 5 | 6 | 8 | 10 | 12 |
| A (Body) | INCHES | 1.69 | 1.81 | 1.81 | 2.07 | 2.19 | 2.19 | 2.38 | 2.69 | 3.06 |
| | mm | 43 | 46 | 46 | 52 | 55 | 55 | 60 | 68 | 78 |
| A ¹ (Liner) | INCHES | 1.82 | 1.94 | 1.94 | 2.20 | 2.32 | 2.32 | 2.51 | 2.82 | 3.21 |
| | mm | 46 | 49 | 49 | 55 | 58 | 58 | 63 | 71 | 82 |
| B | INCHES | 5.50 | 6.00 | 6.25 | 7.00 | 7.53 | 8.00 | 9.38 | 10.56 | 12.06 |
| | mm | 139 | 152 | 158 | 177 | 191 | 203 | 238 | 268 | 306 |
| C | INCHES | 3.06 | 3.31 | 3.75 | 4.25 | 4.94 | 5.56 | 5.56 | 7.88 | 9.25 |
| | mm | 77 | 84 | 95 | 108 | 125 | 141 | 166 | 200 | 235 |
| D (Chord Dia) | INCHES | 1.49 | 2.01 | 2.64 | 3.67 | 4.71 | 5.66 | 7.72 | 9.70 | 11.68 |
| | mm | 37 | 51 | 67 | 93 | 119 | 143 | 196 | 246 | 296 |
| D ¹ (Intrusion) | INCHES | 0.28 | 0.44 | 0.69 | 1.06 | 1.50 | 1.94 | 2.84 | 3.69 | 4.50 |
| | mm | 7 | 11 | 17 | 27 | 38 | 49 | 72 | 93 | 114 |
| F | INCHES | 1.13 | 1.13 | 1.13 | 1.13 | 1.13 | 1.13 | 1.50 | 1.50 | 1.50 |
| | mm | 28 | 28 | 28 | 28 | 28 | 28 | 38 | 38 | 38 |
| G | INCHES | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 | 1.06 | 1.06 | 1.06 |
| | mm | 20 | 20 | 20 | 20 | 20 | 20 | 27 | 27 | 27 |
| H | INCHES | 0.35 | 0.35 | 0.35 | 0.40 | 0.40 | 0.44 | 0.53 | 0.71 | 0.71 |
| | mm | 8 | 8 | 8 | 10 | 10 | 11 | 13 | 18 | 18 |
| J | INCHES | 0.50 | 0.50 | 0.50 | 0.56 | 0.56 | 0.62 | 0.75 | 1.00 | 1.00 |
| | mm | 12 | 12 | 12 | 14 | 14 | 14 | 19 | 25 | 25 |
| K | INCHES | 4 | 4 | 4 | 4 | 4 | 4 | 6 | 6 | 6 |
| | mm | 101.6 | 101.6 | 101.6 | 101.6 | 101.6 | 101.6 | 152.4 | 152.4 | 152.4 |
| L (Dia) | INCHES | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | 0.56 | 0.56 | 0.56 |
| | mm | 11 | 11 | 11 | 11 | 11 | 11 | 14 | 14 | 14 |
| M | INCHES | 3.25 | 3.25 | 3.25 | 3.25 | 3.25 | 3.25 | 5.00 | 5.00 | 5.00 |
| | mm | 82 | 82 | 82 | 82 | 82 | 82 | 127 | 127 | 127 |
| N | INCHES | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | 0.50 | 0.50 | 0.50 |
| | mm | 11 | 11 | 11 | 11 | 11 | 11 | 12 | 12 | 12 |
| P | INCHES | 4.75 | 5.50 | 6.00 | 7.50 | 8.50 | 9.50 | 11.75 | 14.25 | 17.00 |
| | mm | 120 | 139 | 152 | 190 | 215 | 241 | 298 | 362 | 431 |
| R | | 5/8-11 | 5/8-11 | 5/8-11 | 5/8-11 | 3/4-10 | 3/4-10 | 3/4-10 | 7/8-9 | 7/8-9 |
| S | | 4 | 4 | 4 | 8 | 8 | 8 | 8 | 12 | 12 |

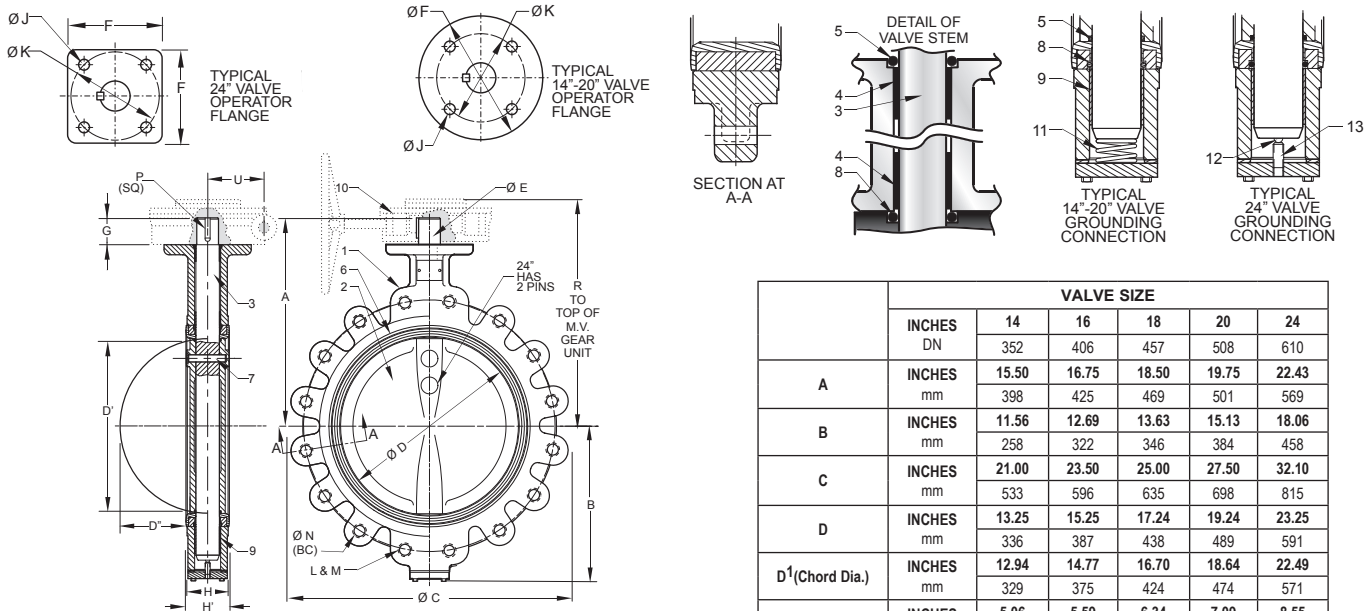
Note: Lead free refers to the wetted surface of the pipe, fittings and fixtures in potable water systems that have a weighted average lead content $\leq 0.25\%$. Source: California Health and Safety Code (116875).

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5000 Series 14"-24"

**Iron Butterfly Valve for Potable Water
Lug Style
150 psi Non-Shock WOG
Dead End Service to 150 psi Max*
Specifications: MSS SP-67 Type 1**



MATERIALS LIST

| ITEM | PART | MATERIALS |
|----------------|------------------|---------------------------|
| 1 | BODY | CAST IRON ASTM A126 CL. B |
| 2 | DISC | ALUMINUM BRONZE ASTM B148 |
| 3 | STEM | STAINLESS STEEL TYPE 416 |
| 4 | TOP BEARING | REINFORCED NYLON |
| 5 | STEM O-RING | EPDM |
| 6 | LINER | EPDM |
| 7 | STEM PIN | ANSI 4140 OR AISI 6150 |
| 8 | LINER O-RING | EPDM |
| 9 | LOWER BEARING | REINFORCED NYLON |
| 10 | OPERATOR | GEAR OPERATOR |
| 11 14"-20" | GROUNDING SPRING | STAINLESS STEEL TYPE 302 |
| 12 24" Only | GROUNDING BALL | AISI 1022 |
| 13 24" Only | TENSION SCREW | AISI 1020 |

* Uni-directional

| | VALVE SIZE | | | | | |
|-----------------------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | INCHES DN | 14 | 16 | 18 | 20 | 24 |
| A | INCHES | 15.50 | 16.75 | 18.50 | 19.75 | 22.43 |
| | mm | 398 | 425 | 469 | 501 | 569 |
| B | INCHES | 11.56 | 12.69 | 13.63 | 15.13 | 18.06 |
| | mm | 258 | 322 | 346 | 384 | 458 |
| C | INCHES | 21.00 | 23.50 | 25.00 | 27.50 | 32.10 |
| | mm | 533 | 596 | 635 | 698 | 815 |
| D | INCHES | 13.25 | 15.25 | 17.24 | 19.24 | 23.25 |
| | mm | 336 | 387 | 438 | 489 | 591 |
| D ¹ (Chord Dia.) | INCHES | 12.94 | 14.77 | 16.70 | 18.64 | 22.49 |
| | mm | 329 | 375 | 424 | 474 | 571 |
| D ¹¹ (Intrusion) | INCHES | 5.06 | 5.59 | 6.34 | 7.09 | 8.55 |
| | mm | 128 | 142 | 161 | 180 | 217 |
| E | INCHES | 1.63 | 1.63 | 2.13 | 2.13 | 2.13 |
| | mm | 41 | 41 | 54 | 54 | 54 |
| F | INCHES | 6.50 | 6.50 | 9.50 | 9.50 | 7.50 |
| | mm | 165 | 165 | 241 | 241 | 190 |
| G | INCHES | 2.00 | 2.00 | 3.00 | 3.00 | 3.06 |
| | mm | 50 | 50 | 76 | 76 | 77 |
| H (Body) | INCHES | 3.06 | 4.00 | 4.50 | 5.00 | 6.06 |
| | mm | 77 | 101 | 114 | 127 | 153 |
| H ¹ (Liner) | INCHES | 3.19 | 4.13 | 4.63 | 5.13 | 6.19 |
| | mm | 81 | 104 | 117 | 130 | 157 |
| J | INCHES | 0.69 | 0.69 | 0.81 | 0.81 | 0.81 |
| | mm | 17 | 17 | 20 | 20 | 20 |
| K | INCHES | 5.25 | 5.25 | 7.50 | 7.50 | 7.50 |
| | mm | 133 | 133 | 190 | 190 | 190 |
| L | No. of Holes | 12 | 16 | 16 | 20 | 20 |
| M | Thread Size | 1-8 | 1-8 | 1 1/8-7 | 1 1/8-7 | 1 1/4-7 |
| | INCHES mm | 18.75 476 | 21.25 530 | 22.75 577 | 25.00 635 | 29.50 749 |
| N | INCHES mm | 0.38 9 | 0.38 9 | 0.50 12 | 0.50 12 | 0.50 12 |
| | P (Key Size) | INCHES mm | 17.25 438 | 18.75 476 | 19.63 458 | 20.88 530 |
| R | INCHES mm | 3.13 79 | 3.13 79 | 4.50 114 | 4.50 114 | 4.63 117 |
| | U | INCHES mm | 17.25 438 | 18.75 476 | 19.63 458 | 20.88 530 |

Note: Lead free refers to the wetted surface of the pipe, fittings and fixtures in potable water systems that have a weighted average lead content $\leq 0.25\%$. Source: California Health and Safety Code (116875).

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⚠ State of California Prop 65 **WARNING:** Cancer and Reproductive Harm. For more information visit www.p65warnings.ca.gov.



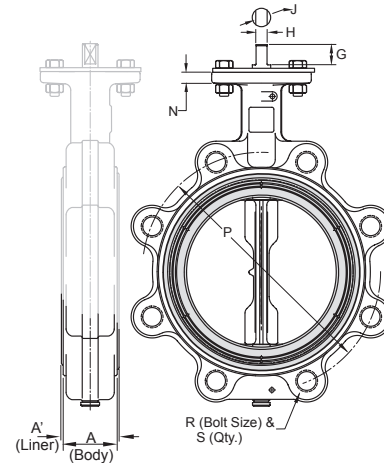
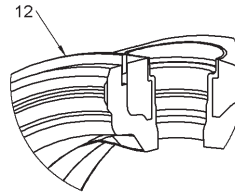
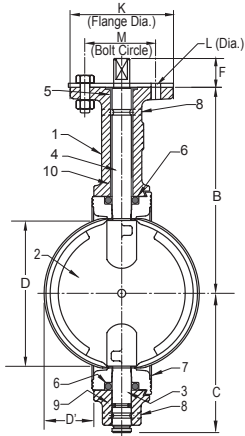
**Iron Butterfly Valve
for Potable Water
Lug Style**

6411-00/6411-01/6411-03 2"-12"

**200 psi Non-Shock WOG
Bi-Directional Dead End
Service to 200 psi Max**



Specifications: API-609 MSS SP-67 Type 1



MATERIALS LIST

| ITEM | PART | MATERIALS |
|------|----------------|--------------------------------|
| 1 | BODY | DUCTILE IRON-ASTM A536 |
| 2 | DISC | ALUMINUM BRONZE ASTM B148 |
| 3 | BOTTOM STEM | STAINLESS STEEL TYPE 416 |
| 4 | TOP STEM | STAINLESS STEEL TYPE 416 |
| 5 | TOP BEARING | REINFORCED NYLON |
| 6 | SEAL | EPDM |
| 7 | LINER | EPDM |
| 8 | ROLL PIN | STAINLESS STEEL |
| 9 | STEM SEAL | EPDM |
| 10 | LOWER BEARING | REINFORCED NYLON |
| 11 | OPERATOR | LEVER HANDLE |
| | | GEAR OPERATOR |
| | | GEAR OPERATOR WITH MEMORY STOP |
| | | GEAR OPERATOR WITH LOCK |
| | | ACTUATOR-AIR/AIR |
| | | ACTUATOR-AIR/SPRING |
| 12 | RETAINING RING | 1066 SPRING STEEL (65Mn) |

DIMENSIONS

| | INCHES DN | VALVE SIZE | | | | | | | | | |
|----------------------------|--------------|------------|--------|--------|--------|--------|--------|--------|-------|-------|--|
| | | 2 | 2-1/2 | 3 | 4 | 5 | 6 | 8 | 10 | 12 | |
| A (Body) | INCHES | 1.69 | 1.81 | 1.81 | 2.07 | 2.19 | 2.19 | 2.38 | 2.69 | 3.06 | |
| | mm | 43 | 46 | 46 | 52 | 55 | 55 | 60 | 68 | 78 | |
| A ¹ (Body) | INCHES | 1.82 | 1.94 | 1.94 | 2.20 | 2.32 | 2.32 | 2.51 | 2.82 | 3.21 | |
| | mm | 46 | 49 | 49 | 55 | 58 | 58 | 63 | 71 | 82 | |
| B | INCHES | 5.50 | 6.00 | 6.25 | 7.00 | 7.53 | 8.00 | 9.38 | 10.56 | 12.06 | |
| | mm | 139 | 152 | 158 | 177 | 191 | 203 | 238 | 268 | 306 | |
| C | INCHES | 3.06 | 3.31 | 3.75 | 4.25 | 4.94 | 5.56 | 5.56 | 7.88 | 9.25 | |
| | mm | 77 | 84 | 95 | 108 | 125 | 141 | 166 | 200 | 235 | |
| D (Chord Dia) | INCHES | 1.49 | 2.01 | 2.64 | 3.67 | 4.71 | 5.66 | 7.72 | 9.70 | 11.68 | |
| | mm | 37 | 51 | 67 | 93 | 119 | 143 | 196 | 246 | 296 | |
| D ¹ (Intrusion) | INCHES | 0.28 | 0.44 | 0.69 | 1.06 | 1.50 | 1.94 | 2.84 | 3.69 | 4.50 | |
| | mm | 7 | 11 | 17 | 27 | 38 | 49 | 72 | 93 | 114 | |
| F | INCHES | 1.13 | 1.13 | 1.13 | 1.13 | 1.13 | 1.13 | 1.50 | 1.50 | 1.50 | |
| | mm | 28 | 28 | 28 | 28 | 28 | 28 | 38 | 38 | 38 | |
| G | INCHES | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 | 1.06 | 1.06 | 1.06 | |
| | mm | 20 | 20 | 20 | 20 | 20 | 20 | 27 | 27 | 27 | |
| H | INCHES | 0.35 | 0.35 | 0.35 | 0.40 | 0.40 | 0.44 | 0.53 | 0.71 | 0.71 | |
| | mm | 8 | 8 | 8 | 10 | 10 | 11 | 13 | 18 | 18 | |
| J | INCHES | 0.50 | 0.50 | 0.50 | 0.56 | 0.56 | 0.62 | 0.75 | 1.00 | 1.00 | |
| | mm | 12 | 12 | 12 | 14 | 14 | 14 | 19 | 25 | 25 | |
| K | INCHES | 4 | 4 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | |
| | mm | 101.6 | 101.6 | 101.6 | 101.6 | 101.6 | 101.6 | 152.4 | 152.4 | 152.4 | |
| L (Dia) | INCHES | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | 0.56 | 0.56 | 0.56 | |
| | mm | 11 | 11 | 11 | 11 | 11 | 11 | 14 | 14 | 14 | |
| M | INCHES | 3.25 | 3.25 | 3.25 | 3.25 | 3.25 | 3.25 | 5.00 | 5.00 | 5.00 | |
| | mm | 82 | 82 | 82 | 82 | 82 | 82 | 127 | 127 | 127 | |
| N | INCHES | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | 0.50 | 0.50 | 0.50 | |
| | mm | 11 | 11 | 11 | 11 | 11 | 11 | 12 | 12 | 12 | |
| P | INCHES | 4.75 | 5.50 | 6.00 | 7.50 | 8.50 | 9.50 | 11.75 | 14.25 | 17.00 | |
| | mm | 120 | 139 | 152 | 190 | 215 | 241 | 298 | 362 | 431 | |
| R | INCHES | 5/8-11 | 5/8-11 | 5/8-11 | 5/8-11 | 3/4-10 | 3/4-10 | 3/4-10 | 7/8-9 | 7/8-9 | |
| | mm | 15.875 | 15.875 | 15.875 | 15.875 | 19.05 | 19.05 | 19.05 | 19.05 | 19.05 | |
| S | INCHES | 4 | 4 | 4 | 8 | 8 | 8 | 8 | 12 | 12 | |
| | mm | 101.6 | 101.6 | 101.6 | 203.2 | 203.2 | 203.2 | 203.2 | 304.8 | 304.8 | |

Note: Lead free refers to the wetted surface of the pipe, fittings and fixtures in potable water systems that have a weighted average lead content $\leq 0.25\%$. Source: California Health and Safety Code (116875).

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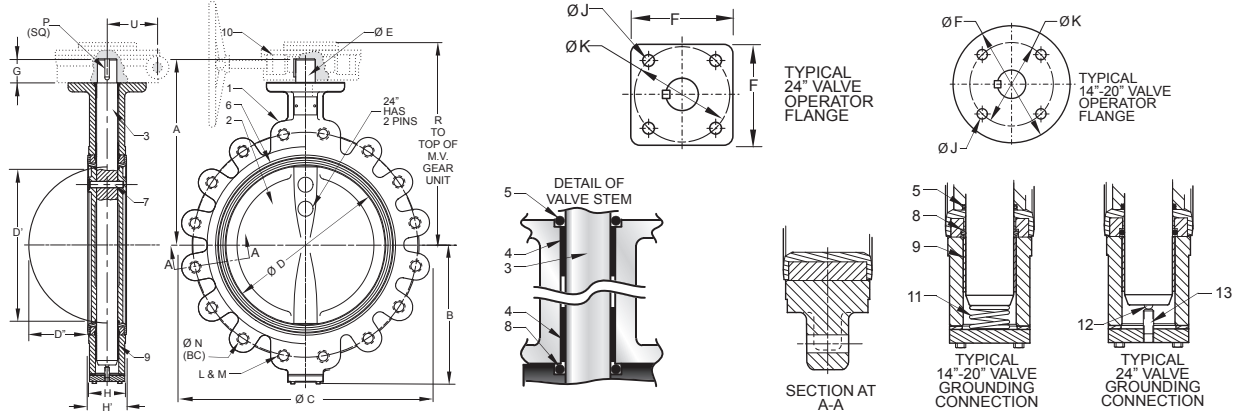


**Iron Butterfly Valve for Potable Water
Lug Style
150 psi Non-Shock WOG
Dead End Service to 150 psi Max*
Specifications: MSS SP-67 Type 1**

6411-00/6411-03 14"-24"



Tested and Certified by
IAPMO R&T to NSF/ANSI 372
and NSF/ANSI 61



MATERIALS LIST

| ITEM | PART | MATERIALS |
|----------------|------------------|--------------------------------|
| 1 | BODY | DUCTILE IRON ASTM A536 |
| 2 | DISC | ALUMINUM BRONZE ASTM B 148 |
| 3 | STEM | STAINLESS STEEL TYPE 416 |
| 4 | TOP BEARING | REINFORCED NYLON |
| 5 | STEM O-RING | EPDM, BUNA, VITON (1) |
| 6 | LINER | EPDM |
| 7 | STEM PIN | ANSI 4140 OR AISI 6150 |
| 8 | LINER O-RING | EPDM |
| 9 | LOWER BEARING | REINFORCED NYLON |
| 10 | OPERATOR | GEAR OPERATOR |
| | | GEAR OPERATOR WITH MEMORY STOP |
| | | GEAR OPERATOR WITH LOCK |
| | | ACTUATOR-AIR/AIR (1) |
| | | ACTUATOR-AIR/SRING (1) |
| 11 14"-20" | GROUNDING SPRING | STAINLESS STEEL TYPE 302 |
| | | |
| 12 24" Only | GROUNDING BALL | AISI-1022 |
| 13 24" Only | TENSION SCREW | AISI-1020 |

(1) - Consult Automation Department
* Uni-directional

DIMENSIONS

| | INCHES | VALVE SIZE | | | | |
|-----------------------------|--------------|------------|-------|---------|---------|---------|
| | | 14 | 16 | 18 | 20 | 24 |
| A | DN | 352 | 406 | 457 | 508 | 610 |
| | INCHES | 15.50 | 16.75 | 18.50 | 19.75 | 22.43 |
| B | INCHES | 11.56 | 12.69 | 13.63 | 15.13 | 18.06 |
| | mm | 298 | 322 | 346 | 384 | 458 |
| C | INCHES | 21.00 | 23.50 | 25.00 | 27.50 | 32.10 |
| | mm | 533 | 596 | 635 | 698 | 815 |
| D | INCHES | 13.25 | 15.25 | 17.24 | 19.24 | 23.25 |
| | mm | 336 | 387 | 438 | 489 | 591 |
| D ¹ (Chord Dia.) | INCHES | 12.94 | 14.77 | 16.70 | 18.64 | 22.49 |
| | mm | 329 | 375 | 424 | 474 | 571 |
| D ¹¹ (Intrusion) | INCHES | 5.06 | 5.59 | 6.34 | 7.09 | 8.55 |
| | mm | 128 | 142 | 161 | 180 | 217 |
| E | INCHES | 1.63 | 1.63 | 2.13 | 2.13 | 2.13 |
| | mm | 41 | 41 | 54 | 54 | 54 |
| F | INCHES | 6.50 | 6.50 | 9.50 | 9.50 | 7.50 |
| | mm | 165 | 165 | 241 | 241 | 190 |
| G | INCHES | 2.00 | 2.00 | 3.00 | 3.00 | 3.06 |
| | mm | 50 | 50 | 76 | 76 | 77 |
| H (Body) | INCHES | 3.06 | 4.00 | 4.50 | 5.00 | 6.06 |
| | mm | 77 | 101 | 114 | 127 | 153 |
| H ¹ (Liner) | INCHES | 3.19 | 4.13 | 4.63 | 5.13 | 6.19 |
| | mm | 81 | 104 | 117 | 130 | 157 |
| J | INCHES | 0.69 | 0.69 | 0.81 | 0.81 | 0.81 |
| | mm | 17 | 17 | 20 | 20 | 20 |
| K | INCHES | 5.25 | 5.25 | 7.50 | 7.50 | 7.50 |
| | mm | 133 | 133 | 190 | 190 | 190 |
| L | No. of Holes | 12 | 16 | 16 | 20 | 20 |
| M | Thread Size | 1-8 | 1-8 | 1 1/8-7 | 1 1/8-7 | 1 1/4-7 |
| | INCHES | 18.75 | 21.25 | 22.75 | 25.00 | 29.50 |
| N | mm | 476 | 530 | 577 | 635 | 749 |
| | INCHES | 0.38 | 0.38 | 0.50 | 0.50 | 0.50 |
| P (Key Size) | mm | 9 | 9 | 12 | 12 | 12 |
| | INCHES | 17.25 | 18.75 | 19.63 | 20.88 | 25.00 |
| R | mm | 438 | 475 | 458 | 530 | 635 |
| | INCHES | 3.13 | 3.13 | 4.50 | 4.50 | 4.63 |
| U | mm | 79 | 79 | 114 | 114 | 117 |

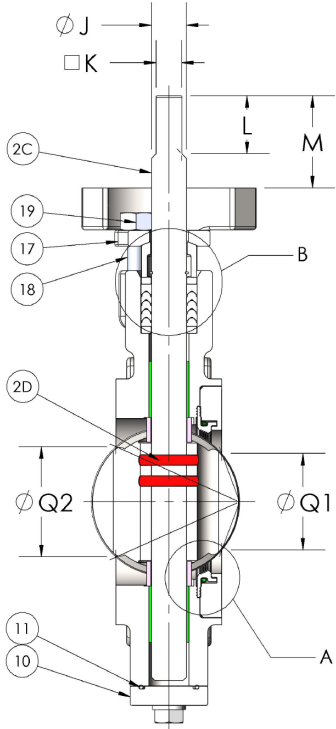
Note: Lead free refers to the wetted surface of the pipe, fittings and fixtures in potable water systems that have a weighted average lead content ≤0.25%. Source: California Health and Safety Code (116875).

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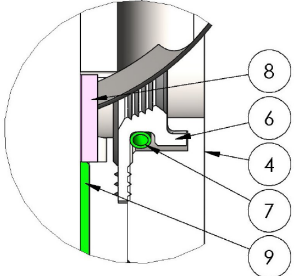


HP1LSS4212 Lug 2 1/2" - 8" with Lever Class 150

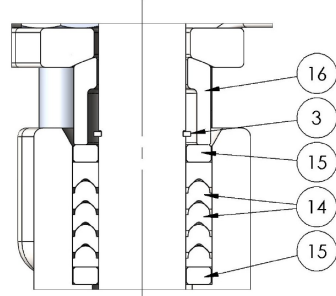


| 2 1/2" - 8" 150 LB LUG WITH HANDLE | | | |
|------------------------------------|-----------------------|-------------------------------|--------------------|
| ITEM NO. | PARTS NAME | MATERIAL | SPECIFICATION |
| 1 | BODY | STAINLESS STEEL | ASTM A351 GR. CF8M |
| 2 | STEM & DISC ASSEMBLY | | |
| | 2B. DISC | STAINLESS STEEL | ASTM A351 GR. CF8M |
| | 2C. STEM | STAINLESS STEEL | 17-4PH H1150 |
| | 2D. TAPER PIN | 18-8 STAINLESS STEEL | COMMERCIAL |
| 3 | STEM RETAINER | 304 STAINLESS STEEL | COMMERCIAL |
| 4 | SEAT RETAINER RING | | |
| | A. CARBON STEEL | | ASTM A515 GR. 70 |
| | B. STAINLESS STEEL | | ASTM A240 TY.316 |
| 5 | SOCKET HEAD CAP SCREW | STAINLESS STEEL | ASTM A193 GR. B8M |
| 6 | SEAT | | |
| | A. PTFE COMMERCIAL | | COMMERCIAL |
| | B. 15% GLS. FLD PTFE | | COMMERCIAL |
| | C. UHMWPE | | COMMERCIAL |
| 7 | SEAT SPRING | STAINLESS STEEL | COMMERCIAL |
| 8 | DISC SPACER | 316 STAINLESS STEEL | COMMERCIAL |
| 9 | BEARING | STAINLESS STEEL - PTFE COATED | COMMERCIAL |
| 10 | BOTTOM CAP | STAINLESS STEEL | ASTM A351 GR. CF8M |
| 11 | BOTTOM SEAL | GRAPHITE | COMMERCIAL |
| 12 | HEX HEAD CAP SCREW | STAINLESS STEEL | ASTM A193, GR. B8M |
| 13 | SPLIT LOCKWASHER | STAINLESS STEEL | COMMERCIAL |
| 14 | PACKING V-RING SET | | |
| | A. PTFE COMMERCIAL | | COMMERCIAL |
| | B. GRAPHITE | | COMMERCIAL |
| 15 | PACKING WASHER | 304 STAINLESS STEEL | COMMERCIAL |
| 16 | GLAND FOLLOWER | STAINLESS STEEL | ASTM A351 GR. CF8M |
| 17 | GLAND RETAINER | STAINLESS STEEL | ASTM A351 GR. CF8M |
| 18 | STUD | STAINLESS STEEL | ASTM A193 GR. B8M |
| 19 | HEAVY HEX NUT | STAINLESS STEEL | ASTM A194 GR. 8M |
| 20 | SOCKET HEAD CAP SCREW | STAINLESS STEEL | ASTM A193 GR. B8M |
| 21 | SPLIT LOCKWASHER | STAINLESS STEEL | COMMERCIAL |
| 22 | HANDLE ASSY | DUCTILE IRON | COMMERCIAL |

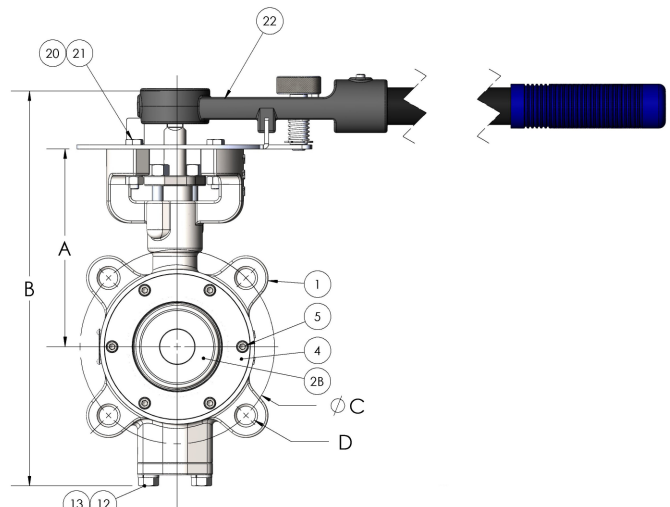
VALVE SHOWN OPEN



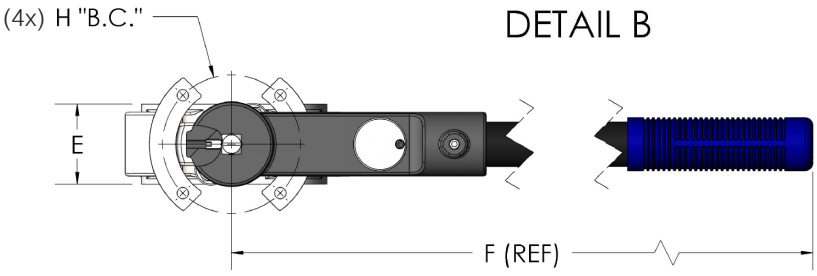
DETAIL A



DETAIL B



2.5" CLASS 150 HP LUG SHOWN



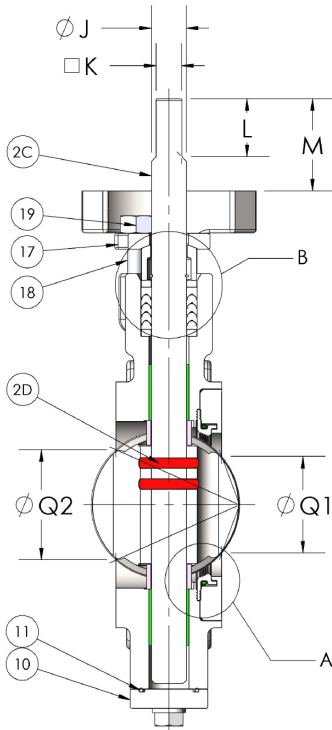
| 2.5" - 8" 150 LB LUG WITH HANDLE | | | | | | | | | | | | | | | | | |
|----------------------------------|------------------|------------|----------|---------|------------|-----------|-------|----------|-----------------|------------|------------|------|------------|------------|-----------|-------------|-----------|
| VALVE SIZE | VALVE DIMENSIONS | | | | | TOP WORKS | | | STEM CONNECTION | | | | | CORE DIMS | | Bolt ϕ | |
| | "A" HEIGHT | "B" HEIGHT | "C" B.C. | "D" TAP | # OF HOLES | "E" FACE | "F" | "H" B.C. | "J" ϕ STEM | "K" SQUARE | "L" LENGTH | "L2" | "M" LENGTH | "N" KEYWAY | ϕ Q1 | | ϕ Q2 |
| 2.5" | 5.59 | 11.24 | 5.50 | 5/8-11 | 4 | 1.88 | 16.87 | 3.25 | 0.62 | 0.46 | 1.02 | N/A | 1.64 | N/A | 1.72 | 1.97 | 0.27 |
| 3" | 5.59 | 11.24 | 6.00 | 5/8-11 | 4 | 1.88 | 16.87 | 3.25 | 0.62 | 0.46 | 1.02 | N/A | 1.72 | N/A | 2.28 | 2.47 | 0.27 |
| 4" | 6.25 | 12.77 | 7.50 | 5/8-11 | 8 | 2.13 | 16.87 | 3.25 | 0.62 | 0.46 | 1.02 | N/A | 1.56 | N/A | 3.06 | 3.53 | 0.27 |
| 5" | 7.69 | 15.52 | 8.50 | 3/4-10 | 8 | 2.13 | 19.87 | 4.25 | 0.87 | 0.64 | 1.04 | N/A | 1.69 | N/A | 4.35 | 4.46 | 0.44 |
| 6" | 7.69 | 15.52 | 9.50 | 3/4-10 | 8 | 2.25 | 19.87 | 4.25 | 0.87 | 0.64 | 1.04 | N/A | 1.69 | N/A | 5.33 | 5.43 | 0.44 |
| 8" | 9.51 | 19.27 | 13.00 | 3/4-10 | 8 | 2.63 | 22.85 | 4.75 | 1.12 | N/A | N/A | 1.50 | 1.86 | 0.25 | 7.10 | 7.37 | 0.56 |

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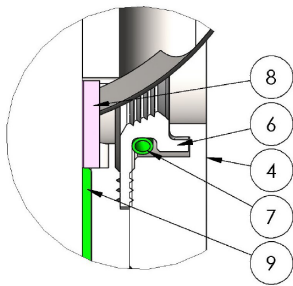


HP3LSS4212 Lug 2 1/2" - 6" with Lever Class 300

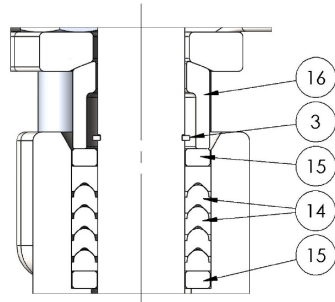


| 2 1/2" - 6" 300 LB LUG WITH HANDLE | | | |
|------------------------------------|-----------------------|-------------------------------|--------------------|
| ITEM NO. | PARTS NAME | MATERIAL | SPECIFICATION |
| 1 | BODY | STAINLESS STEEL | ASTM A351 GR. CF8M |
| 2 | STEM & DISC ASSEMBLY | | |
| | 2B. DISC | STAINLESS STEEL | ASTM A351 GR. CF8M |
| | 2C. STEM | STAINLESS STEEL | 17-4PH H1150 |
| | 2D. TAPER PIN | 18-8 STAINLESS STEEL | COMMERCIAL |
| 3 | STEM RETAINER | 304 STAINLESS STEEL | COMMERCIAL |
| 4 | SEAT RETAINER RING | A. CARBON STEEL | ASTM A515 GR. 70 |
| | | B. STAINLESS STEEL | ASTM A240 TY.316 |
| 5 | SOCKET HEAD CAP SCREW | STAINLESS STEEL | ASTM A193 GR. B8M |
| 6 | SEAT | A. PTFE COMMERCIAL | COMMERCIAL |
| | | B. 15% GLS. FLD PTFE | COMMERCIAL |
| | | C. UHMWPE | COMMERCIAL |
| 7 | SEAT SPRING | STAINLESS STEEL | COMMERCIAL |
| 8 | DISC SPACER | 316 STAINLESS STEEL | COMMERCIAL |
| 9 | BEARING | STAINLESS STEEL - PTFE COATED | COMMERCIAL |
| 10 | BOTTOM CAP | STAINLESS STEEL | ASTM A351 GR. CF8M |
| 11 | BOTTOM SEAL | GRAPHITE | COMMERCIAL |
| 12 | HEX HEAD CAP SCREW | STAINLESS STEEL | ASTM A193, GR. B8M |
| 13 | SPLIT LOCKWASHER | STAINLESS STEEL | COMMERCIAL |
| 14 | PACKING V-RING SET | A. PTFE COMMERCIAL | COMMERCIAL |
| | | B. GRAPHITE | COMMERCIAL |
| 15 | PACKING WASHER | 304 STAINLESS STEEL | COMMERCIAL |
| 16 | GLAND FOLLOWER | STAINLESS STEEL | ASTM A351 GR. CF8M |
| 17 | GLAND RETAINER | STAINLESS STEEL | ASTM A351 GR. CF8M |
| 18 | STUD | STAINLESS STEEL | ASTM A193 GR. B8M |
| 19 | HEAVY HEX NUT | STAINLESS STEEL | ASTM A194 GR. 8M |
| 20 | SOCKET HEAD CAP SCREW | STAINLESS STEEL | ASTM A193 GR. B8M |
| 21 | SPLIT LOCKWASHER | STAINLESS STEEL | COMMERCIAL |
| 22 | HANDLE ASSY | DUCTILE IRON | COMMERCIAL |

VALVE SHOWN OPEN

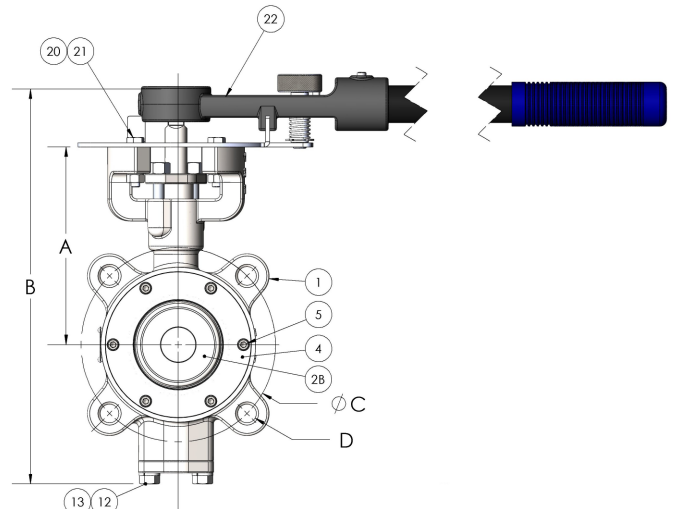
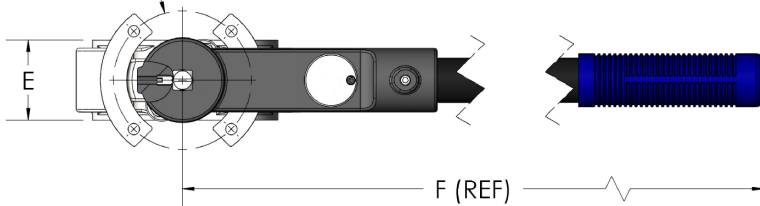


DETAIL A



DETAIL B

(4x) H "B.C."



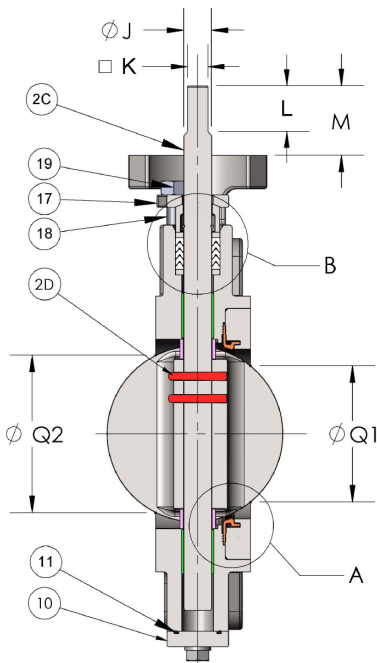
2.5" CLASS 150 HP LUG SHOWN

| 2.5" - 6" 300 LB LUG WITH HANDLE | | | | | | | | | | | | | | | | | |
|----------------------------------|------------------|------------|----------|---------|------------|----------|-----------|----------|-----------------|------------|------------|------|------------|------------|-----------|------|--------|
| VALVE SIZE | VALVE DIMENSIONS | | | | | | TOP WORKS | | STEM CONNECTION | | | | | | CORE DIMS | | Bolt Ø |
| | "A" HEIGHT | "B" HEIGHT | "C" B.C. | "D" TAP | # OF HOLES | "E" FACE | "F" | "H" B.C. | "J" ØSTEM | "K" SQUARE | "L" LENGTH | "L2" | "M" LENGTH | "N" KEYWAY | ØQ1 | ØQ2 | |
| 2.5" | 5.59 | 12.01 | 5.88 | 3/4-10 | 8 | 1.88 | 16.87 | 3.25 | 0.62 | 0.46 | 1.02 | N/A | 1.64 | N/A | 1.72 | 1.97 | 0.27 |
| 3" | 5.59 | 11.97 | 6.63 | 3/4-10 | 8 | 1.88 | 16.87 | 3.25 | 0.62 | 0.46 | 1.02 | N/A | 1.72 | N/A | 2.28 | 2.47 | 0.27 |
| 4" | 6.25 | 13.05 | 7.88 | 3/4-10 | 8 | 2.13 | 16.87 | 3.25 | 0.62 | 0.46 | 1.02 | N/A | 1.56 | N/A | 3.06 | 3.53 | 0.27 |
| 5" | 7.69 | 15.52 | 9.25 | 3/4-10 | 8 | 2.13 | 19.87 | 4.25 | 0.87 | 0.64 | 1.04 | N/A | 1.69 | N/A | 4.35 | 4.46 | 0.44 |
| 6" | 7.69 | 16.56 | 10.63 | 3/4-10 | 12 | 2.31 | 19.87 | 4.25 | 0.87 | 0.64 | 1.04 | N/A | 1.69 | N/A | 5.33 | 5.39 | 0.44 |

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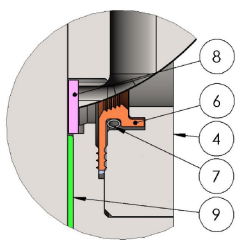
⚠ State of California Prop 65 **WARNING:** Cancer and Reproductive Harm. For more information visit www.p65warnings.ca.gov.

HP1LSS4213 Lug 2 1/2" - 8" with Gear Class 150

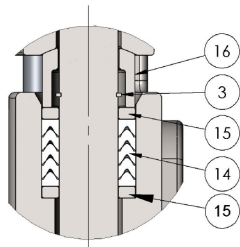


VALVE SHOWN OPEN

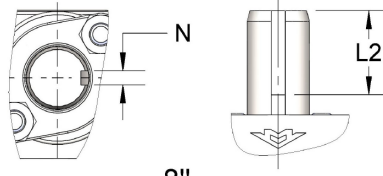
| 2 1/2" - 8" | | | |
|-------------|-----------------------|-------------------------------|--------------------|
| ITEM NO. | PARTS NAME | MATERIAL | SPECIFICATION |
| 1 | BODY | STAINLESS STEEL | ASTM A351 GR. CF8M |
| 2 | STEM & DISC ASSEMBLY | | |
| | 2B. DISC | STAINLESS STEEL | ASTM A351 GR. CF8M |
| | 2C. STEM | STAINLESS STEEL | 17-4PH H1150 |
| | 2D. TAPER PIN | 18-8 STAINLESS STEEL | COMMERCIAL |
| 3 | STEM RETAINER | 304 STAINLESS STEEL | COMMERCIAL |
| 4 | SEAT RETAINER RING | STAINLESS STEEL | ASTM A240 TY.316 |
| 5 | SOCKET HEAD CAP SCREW | STAINLESS STEEL | ASTM A193 GR. B8M |
| 6 | SEAT | 15% GLS. FLD PTFE | COMMERCIAL |
| 7 | SEAT SPRING | STAINLESS STEEL | COMMERCIAL |
| 8 | DISC SPACER | 316 STAINLESS STEEL | COMMERCIAL |
| 9 | BEARING | STAINLESS STEEL - PTFE COATED | COMMERCIAL |
| 10 | BOTTOM CAP | STAINLESS STEEL | ASTM A351 GR. CF8M |
| 11 | BOTTOM SEAL | GRAPHITE | COMMERCIAL |
| 12 | HEX HEAD CAP SCREW | STAINLESS STEEL | ASTM A193, GR. B8M |
| 13 | SPLIT LOCKWASHER | STAINLESS STEEL | COMMERCIAL |
| 14 | PACKING V-RING SET | PTFE COMMERCIAL | COMMERCIAL |
| 15 | PACKING WASHER | 304 STAINLESS STEEL | COMMERCIAL |
| 16 | GLAND FOLLOWER | STAINLESS STEEL | ASTM A351 GR. CF8M |
| 17 | GLAND RETAINER | STAINLESS STEEL | ASTM A351 GR. CF8M |
| 18 | STUD | STAINLESS STEEL | ASTM A193 GR. B8M |
| 19 | HEAVY HEX NUT | STAINLESS STEEL | ASTM A194 GR. 8M |
| 20 | SOCKET HEAD CAP SCREW | STAINLESS STEEL | ASTM A193 GR. B8M |
| 21 | SPLIT LOCKWASHER | STAINLESS STEEL | COMMERCIAL |
| 22 | HANDLE ASSY | DUCTILE IRON | COMMERCIAL |



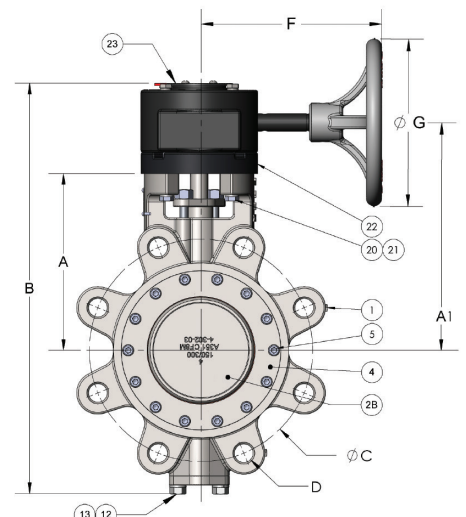
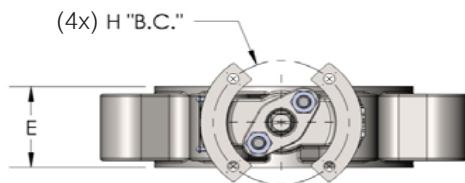
DETAIL A



DETAIL B



8" KEY DETAIL



4" CLASS 300 HP LUG SHOWN

| 2.5" - 8" | | | | | | | | | | | | | | | | | | | |
|------------|------------------|-------------|------------|----------|---------|------------|-----------|------|---------|-----------|-----------------|------------|------------|-----------------|------------|------------|-----------|-----------|-------------|
| VALVE SIZE | VALVE DIMENSIONS | | | | | | HANDWHEEL | | | TOP WORKS | | | | STEM CONNECTION | | | CORE DIMS | | Bolt ϕ |
| | "A" HEIGHT | "A1" HEIGHT | "B" HEIGHT | "C" B.C. | "D" TAP | # OF HOLES | "E" FACE | "F" | "G" DIA | "H" B.C | "J" ϕ STEM | "K" SQUARE | "L" LENGTH | "L2" | "M" LENGTH | "N" KEYWAY | ϕ Q1 | ϕ Q2 | |
| 2.5" 150 | 5.59 | 7.40 | 12.72 | 5.50 | 5/8-11 | 4 | 1.88 | 6.37 | 6 | 3.25 | 0.62 | 0.46 | 1.02 | N/A | 1.64 | N/A | 1.72 | 1.97 | 0.27 |
| 3" 150 | 5.59 | 7.40 | 12.72 | 6.00 | 5/8-11 | 4 | 1.88 | 6.37 | 6 | 3.25 | 0.62 | 0.46 | 1.02 | N/A | 1.72 | N/A | 2.28 | 2.47 | 0.27 |
| 4" 150 | 6.25 | 8.06 | 14.25 | 7.50 | 5/8-11 | 8 | 2.13 | 6.37 | 6 | 3.25 | 0.62 | 0.46 | 1.02 | N/A | 1.56 | N/A | 3.06 | 3.53 | 0.27 |
| 5" 150 | 7.69 | 10.30 | 18.70 | 8.50 | 3/4-10 | 8 | 2.13 | 6.02 | 9 | 4.25 | 0.87 | 0.64 | 1.04 | N/A | 1.69 | N/A | 4.35 | 4.46 | 0.44 |
| 6" 150 | 7.69 | 10.30 | 18.70 | 9.50 | 3/4-10 | 8 | 2.25 | 6.02 | 9 | 4.25 | 0.87 | 0.64 | 1.04 | N/A | 1.69 | N/A | 5.13 | 5.43 | 0.44 |
| 8" 150 | 9.51 | 12.01 | 21.67 | 11.75 | 3/4-10 | 8 | 2.63 | 7.93 | 12 | 4.75 | 1.12 | N/A | N/A | 1.50 | 1.86 | 0.25 | 7.10 | 7.37 | 0.56 |

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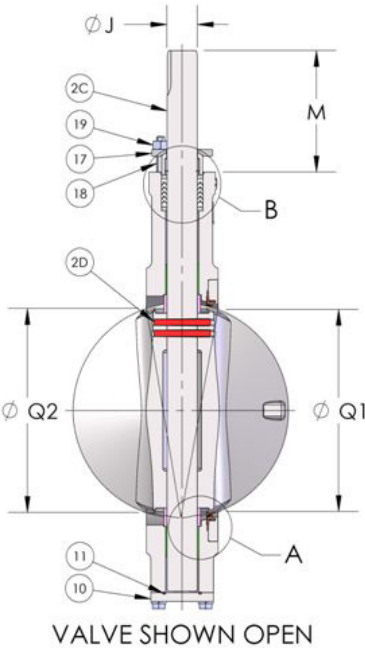
⚠ State of California Prop 65 **WARNING:** Cancer and Reproductive Harm. For more information visit www.p65warnings.ca.gov.



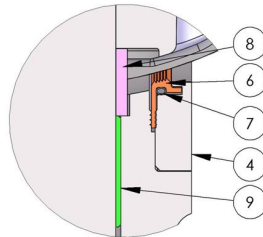
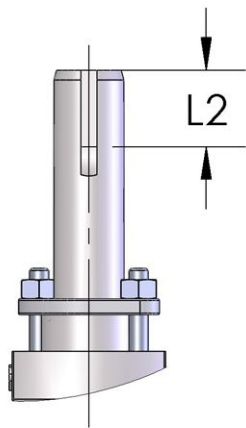
HP1LSS4213 Lug 10"- 24" with Gear Class 150



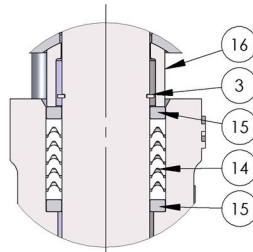
Certified by IAPMO R&T to NSF/ANSI 61 and NSF/ANSI 372 for low lead requirements



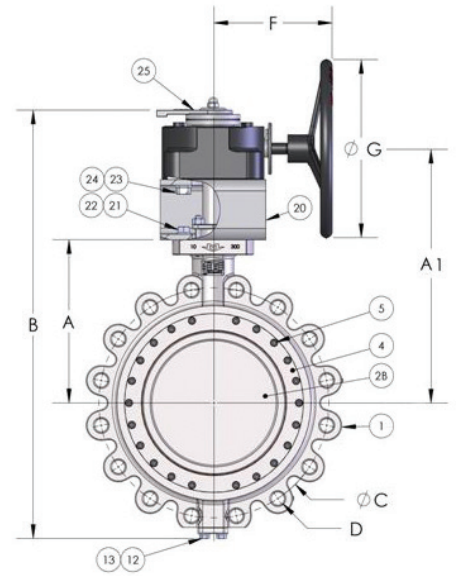
| 10" - 24" 150 LB LUG WITH GEAR | | | |
|--------------------------------|-----------------------|-------------------------------|--------------------|
| ITEM NO. | PARTS NAME | MATERIAL | SPECIFICATION |
| 1 | BODY | STAINLESS STEEL | ASTM A351 GR. CF8M |
| 2 | STEM & DISC ASSEMBLY | | |
| | 2B. DISC | STAINLESS STEEL | ASTM A351 GR. CF8M |
| | 53.3 | STAINLESS STEEL | 17-4PH H1150 |
| | 94.3 | 18-8 STAINLESS STEEL | COMMERCIAL |
| 3 | STEM RETAINER | 304 STAINLESS STEEL | COMMERCIAL |
| 4 | SEAT RETAINER RING | A. CARBON STEEL | ASTM A515 GR. 70 |
| | | B. STAINLESS STEEL | ASTM A240 TY.316 |
| 5 | SOCKET HEAD CAP SCREW | STAINLESS STEEL | ASTM A193 GR. B8M |
| 6 | SEAT | A. PTFE COMMERCIAL | COMMERCIAL |
| | | B. 15% GLS. FLD PTFE | COMMERCIAL |
| | | C. UHMWPE | COMMERCIAL |
| 7 | SEAT SPRING | STAINLESS STEEL | COMMERCIAL |
| 8 | DISC SPACER | 316 STAINLESS STEEL | COMMERCIAL |
| 9 | BEARING | STAINLESS STEEL - PTFE COATED | COMMERCIAL |
| 10 | BOTTOM CAP | STAINLESS STEEL | ASTM A351 GR. CF8M |
| 11 | BOTTOM SEAL | GRAPHITE | COMMERCIAL |
| 12 | HEX HEAD CAP SCREW | STAINLESS STEEL | ASTM A193, GR. B8M |
| 13 | SPLIT LOCKWASHER | STAINLESS STEEL | COMMERCIAL |
| 14 | PACKING V-RING SET | A. PTFE COMMERCIAL | COMMERCIAL |
| | | B. GRAPHITE | COMMERCIAL |
| 15 | PACKING WASHER | 304 STAINLESS STEEL | COMMERCIAL |
| 16 | GLAND FOLLOWER | STAINLESS STEEL | ASTM A351 GR. CF8M |
| 17 | GLAND RETAINER | STAINLESS STEEL | ASTM A351 GR. CF8M |
| 18 | STUD | STAINLESS STEEL | ASTM A193 GR. B8M |
| 19 | HEAVY HEX NUT | STAINLESS STEEL | ASTM A194 GR. 8M |
| 20 | MOUNTING PLATE | STAINLESS STEEL | COMMERCIAL |
| 21 | HEX HEAD CAP SCREW | STAINLESS STEEL | ASTM A193 GR. B8M |
| 22 | SPLIT LOCKWASHER | STAINLESS STEEL | COMMERCIAL |
| 23 | HEX HEAD CAP SCREW | STAINLESS STEEL | ASTM A193 GR. B8M |
| 24 | SPLIT LOCKWASHER | STAINLESS STEEL | COMMERCIAL |
| 25 | GEAR OPERATOR | | |



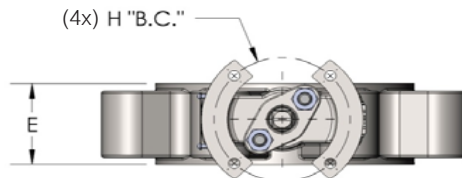
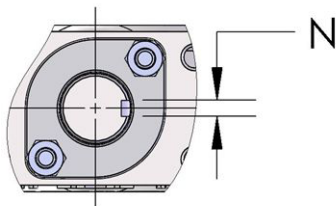
DETAIL A



DETAIL B



10" CLASS 300 LUG SHOWN



| 10" - 24" 150 LB LUG WITH GEAR | | | | | | | | | | | | | | | | | |
|--------------------------------|------------------|-------------|------------|----------|---------|------------|----------|-----------|-----------|-----------------|---------|----------|-----------------|-------------|------------|-------------|------------|
| VALVE SIZE | VALVE DIMENSIONS | | | | | | | HANDWHEEL | TOP WORKS | STEM CONNECTION | | | | CORE DIMS | | Bolt ϕ | |
| | "A" HEIGHT | "A1" HEIGHT | "B" HEIGHT | "C" B.C. | "D" TAP | # OF HOLES | "E" FACE | | | "F" | "G" DIA | "H" B.C. | "J" ϕ STEM | "L2" LENGTH | "M" LENGTH | | "N" |
| 10" | 10.54 | 13.04 | 23.15 | 14.25 | 7/8-9 | 12 | 2.81 | 7.93 | 12 | 4.75 | 1.12 | 1.50 | 1.81 | 0.25 | 9.30 | 9.38 | 0.56 |
| 12" | 11.62 | 17.67 | 30.40 | 17.00 | 7/8-9 | 12 | 3.19 | 7.85 | 12 | 4.37 | 1.37 | 1.50 | 5.51 | 0.31 | 10.36 | 10.48 | 1/2" - 13" |
| 14" | 12.00 | 18.36 | 31.74 | 18.75 | 1-1/8-8 | 12 | 3.63 | 8.36 | 12 | 4.92 | 1.50 | 1.50 | 5.50 | 0.38 | 11.69 | 11.76 | 1/2" - 13" |
| 16" | 14.00 | 20.11 | 35.96 | 21.25 | 1-1/8-8 | 16 | 4.00 | 10.96 | 20 | 6.27 | 2.00 | 2.38 | 6.02 | 0.50 | 13.65 | 13.72 | 1/2" - 13" |
| 18" | 15.00 | 21.09 | 38.12 | 22.75 | 1-1/8-8 | 16 | 4.47 | 11.95 | 20 | 6.27 | 2.25 | 2.38 | 6.02 | 0.50 | 15.65 | 15.72 | 1/2" - 13" |
| 20" | 17.00 | 24.19 | 40.03 | 25.00 | 1-1/8-8 | 20 | 5.00 | 16.54 | 16 | 6.27 | 2.50 | 2.38 | 6.48 | 0.63 | 17.57 | 17.64 | 1/2" - 13" |
| 24" | 19.50 | 25.69 | 49.30 | 29.50 | 1-1/4-8 | 20 | 6.06 | 16.54 | 16 | 7.21 | 3.00 | 2.50 | 6.52 | 0.75 | 20.38 | 20.46 | 3/4" - 10" |

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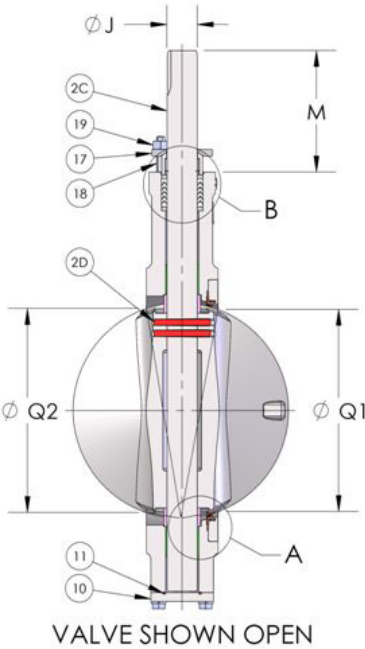
⚠ State of California Prop 65 **WARNING:** Cancer and Reproductive Harm. For more information visit www.p65warnings.ca.gov.



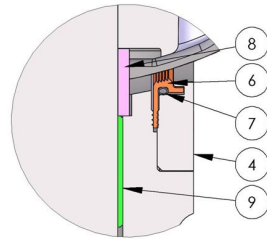
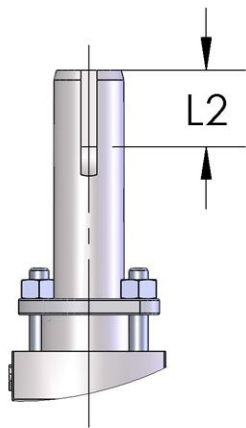
HP3LSS4213 Lug 10"- 16" with Gear Class 300



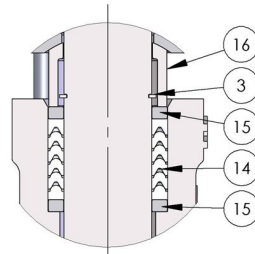
Certified by IAPMO R&T to NSF/ANSI 61 and NSF/ANSI 372 for low lead requirements



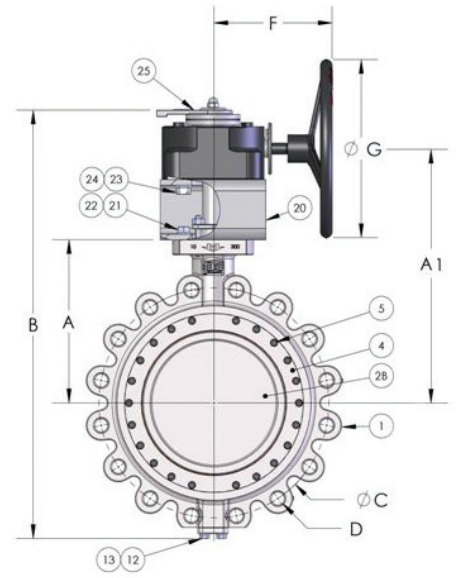
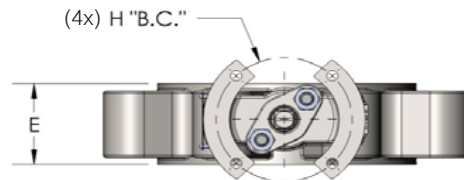
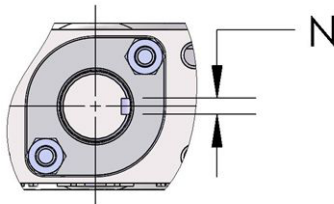
| 10" - 16" 300 LB LUG WITH GEAR | | | |
|--------------------------------|-----------------------|-------------------------------|--------------------|
| ITEM NO. | PARTS NAME | MATERIAL | SPECIFICATION |
| 1 | BODY | STAINLESS STEEL | ASTM A351 GR. CF8M |
| 2 | STEM & DISC ASSEMBLY | | |
| | 2B. DISC | STAINLESS STEEL | ASTM A351 GR. CF8M |
| | 53.3 | STAINLESS STEEL | 17-4PH H1150 |
| | 94.3 | 18-8 STAINLESS STEEL | COMMERCIAL |
| 3 | STEM RETAINER | 304 STAINLESS STEEL | COMMERCIAL |
| 4 | SEAT RETAINER RING | A. CARBON STEEL | ASTM A515 GR. 70 |
| | | B. STAINLESS STEEL | ASTM A240 TY.316 |
| 5 | SOCKET HEAD CAP SCREW | STAINLESS STEEL | ASTM A193 GR. B8M |
| 6 | SEAT | A. PTFE COMMERCIAL | COMMERCIAL |
| | | B. 15% GLS. FLD PTFE | COMMERCIAL |
| | | C. UHMWPE | COMMERCIAL |
| 7 | SEAT SPRING | STAINLESS STEEL | COMMERCIAL |
| 8 | DISC SPACER | 316 STAINLESS STEEL | COMMERCIAL |
| 9 | BEARING | STAINLESS STEEL - PTFE COATED | COMMERCIAL |
| 10 | BOTTOM CAP | STAINLESS STEEL | ASTM A351 GR. CF8M |
| 11 | BOTTOM SEAL | GRAPHITE | COMMERCIAL |
| 12 | HEX HEAD CAP SCREW | STAINLESS STEEL | ASTM A193, GR. B8M |
| 13 | SPLIT LOCKWASHER | STAINLESS STEEL | COMMERCIAL |
| 14 | PACKING V-RING SET | A. PTFE COMMERCIAL | COMMERCIAL |
| | | B. GRAPHITE | COMMERCIAL |
| 15 | PACKING WASHER | 304 STAINLESS STEEL | COMMERCIAL |
| 16 | GLAND FOLLOWER | STAINLESS STEEL | ASTM A351 GR. CF8M |
| 17 | GLAND RETAINER | STAINLESS STEEL | ASTM A351 GR. CF8M |
| 18 | STUD | STAINLESS STEEL | ASTM A193 GR. B8M |
| 19 | HEAVY HEX NUT | STAINLESS STEEL | ASTM A194 GR. 8M |
| 20 | MOUNTING PLATE | STAINLESS STEEL | COMMERCIAL |
| 21 | HEX HEAD CAP SCREW | STAINLESS STEEL | ASTM A193 GR. B8M |
| 22 | SPLIT LOCKWASHER | STAINLESS STEEL | COMMERCIAL |
| 23 | HEX HEAD CAP SCREW | STAINLESS STEEL | ASTM A193 GR. B8M |
| 24 | SPLIT LOCKWASHER | STAINLESS STEEL | COMMERCIAL |
| 25 | GEAR OPERATOR | | |



DETAIL A



DETAIL B



10" CLASS 300 LUG SHOWN

| VALVE SIZE | VALVE DIMENSIONS | | | | | | | HANDWHEEL | | | STEM CONNECTION | | | CORE DIMS | | Bolt ϕ | |
|------------|------------------|-------------|------------|----------|---------|------------|----------|-----------|---------|----------|-----------------|-------------|------------|-----------|-----------|-------------|-----------|
| | "A" HEIGHT | "A1" HEIGHT | "B" HEIGHT | "C" B.C. | "D" TAP | # OF HOLES | "E" FACE | "F" | "G" DIA | "H" B.C. | "J" ϕ STEM | "L2" LENGTH | "M" LENGTH | "N" | ϕ Q1 | | ϕ Q2 |
| 10" | 10.81 | 16.86 | 28.40 | 15.25 | 1-1/8-8 | 16 | 3.25 | 7.85 | 12 | 4.37 | 1.37 | 1.50 | 5.51 | 0.31 | 9.16 | 9.25 | 1/2"-13" |
| 12" | 11.62 | 17.98 | 31.18 | 17.75 | 1-1/8-8 | 16 | 3.63 | 8.63 | 12 | 4.92 | 1.50 | 1.50 | 5.88 | 0.38 | 10.25 | 10.34 | 1/2"-13" |
| 14" | 13.50 | 19.61 | 35.12 | 20.25 | 1-1/8-8 | 20 | 4.63 | 10.96 | 20 | 6.27 | 2.00 | 2.38 | 6.02 | 0.50 | 11.39 | 11.49 | 1/2"-13" |
| 16" | 15.00 | 21.09 | 38.12 | 22.50 | 1-1/4-8 | 20 | 5.25 | 11.95 | 20 | 6.27 | 2.25 | 2.38 | 6.02 | 0.50 | 13.26 | 13.36 | 1/2"-13" |

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⚠ State of California Prop 65 **WARNING:** Cancer and Reproductive Harm. For more information visit www.p65warnings.ca.gov.

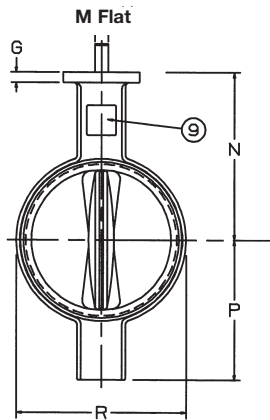
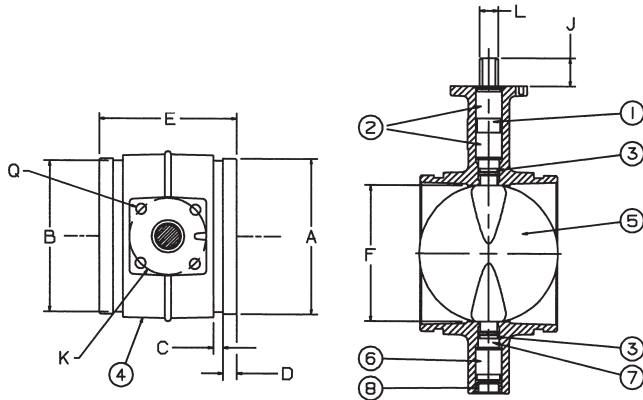


UPGG-245E/345E 2"-10"



NSF/ANSI 61
NSF/ANSI 372

**Polyamide Coated Ductile Iron Grooved End Butterfly, 300 psi
Grooved Mechanical Style, Maximum Temperature Rating of 200° F
Extended Neck, Elastomer Encapsulated Disc
Grooved End Compatible with IPS Pipe
Specifications: MSS SP-67**



NOT RECOMMENDED
FOR STEAM SERVICE



UPGG-245E

DIMENSIONS

| | VALVE SIZE | | | | | | | | |
|---|--------------|------|-------|------|------|------|------|------|-------|
| | INCHES DN | 2 | 2 1/2 | 3 | 4 | 5 | 6 | 8 | 10 |
| A | INCHES | 2.38 | 2.88 | 3.50 | 4.50 | 5.56 | 6.63 | 8.63 | 10.75 |
| | mm | 60 | 73 | 89 | 114 | 141 | 168 | 219 | 273 |
| B | INCHES | 2.32 | 2.72 | 3.34 | 4.33 | 5.39 | 6.45 | 8.44 | 10.56 |
| | mm | 59 | 69 | 85 | 110 | 137 | 164 | 214 | 268 |
| C | INCHES | .33 | .31 | .31 | .38 | .38 | .38 | .44 | .50 |
| | mm | 8 | 8 | 8 | 10 | 10 | 10 | 11 | 13 |
| D | INCHES | .63 | .63 | .63 | .63 | .63 | .63 | .75 | .75 |
| | mm | 16 | 16 | 16 | 16 | 16 | 16 | 19 | 19 |
| E | INCHES | 3.33 | 3.85 | 3.85 | 4.56 | 5.86 | 5.86 | 5.26 | 6.29 |
| | mm | 85 | 98 | 98 | 116 | 149 | 149 | 134 | 160 |
| F | INCHES | 2.42 | 2.42 | 2.86 | 3.84 | 4.79 | 5.73 | 7.71 | 9.56 |
| | mm | 61 | 61 | 73 | 98 | 122 | 146 | 196 | 243 |
| J | INCHES | 1.31 | 1.22 | 1.18 | 1.24 | 1.24 | 1.29 | 1.32 | 1.38 |
| | mm | 33 | 31 | 30 | 32 | 32 | 33 | 34 | 35 |
| L | INCHES | .50 | .50 | .50 | .66 | .66 | .78 | .78 | 1.06 |
| | mm | 13 | 13 | 13 | 17 | 17 | 20 | 20 | 27 |
| M | INCHES | .37 | .37 | .37 | .50 | .50 | .56 | .56 | .75 |
| | mm | 9 | 9 | 9 | 13 | 13 | 14 | 14 | 19 |
| N | INCHES | 4.00 | 4.19 | 4.44 | 5.33 | 5.83 | 7.11 | 8.05 | 9.86 |
| | mm | 102 | 106 | 113 | 135 | 148 | 181 | 204 | 250 |
| P | INCHES | 3.14 | 3.25 | 3.54 | 4.35 | 4.84 | 5.93 | 6.87 | 9.17 |
| | mm | 80 | 83 | 90 | 111 | 123 | 151 | 175 | 233 |
| R | INCHES | 2.89 | 3.46 | 3.97 | 5.03 | 6.27 | 7.25 | 9.25 | 11.25 |
| | mm | 73 | 88 | 101 | 128 | 159 | 184 | 235 | 286 |

UPGG-245E - Lever Operator

UPGG-345E - Gear Operator

MATERIALS LIST

| ITEM | PART | MATERIALS | MATERIALS |
|------|---------------|-----------------|-------------------------------|
| 1 | UPPER STEM | STAINLESS STEEL | ASTM A582 TYPE 416 |
| 2 | UPPER BEARING | SPLIT METAL | - |
| 3 | O-RING | EPDM | - |
| 4 | BODY | DUCTILE IRON | ASTM A395 W/POLYAMIDE COATING |
| 5 | DISC | DUCTILE IRON | ASTM A395 W/EPDM |
| 6 | LOWER BEARING | SPLIT METAL | - |
| 7 | LOWER STEM | STAINLESS STEEL | ASTM A582 TYPE 416 |
| 8 | DUST PLUG | PVC | - |
| 9 | NAME PLATE | ALUMINUM | - |

Note: Lead free refers to the wetted surface of the pipe, fittings and fixtures in potable water systems that have a weighted average lead content $\leq 0.25\%$. Source: California Health and Safety Code (116875).

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⚠ State of California Prop 65 **WARNING:** Cancer and Reproductive Harm. For more information visit www.p65warnings.ca.gov.

GG-SCS2 2 1/2"-10"



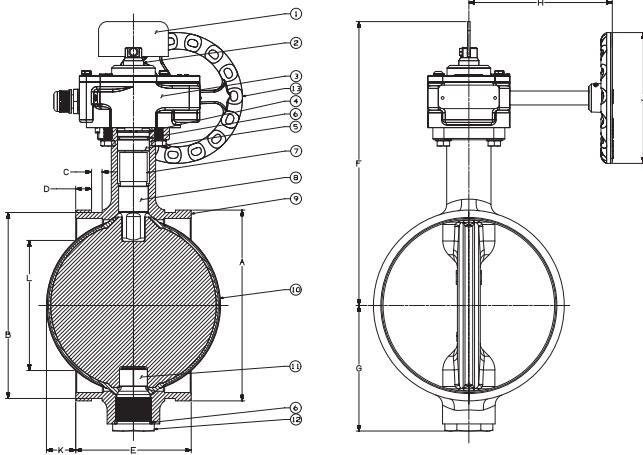
NSF/ANSI 61
NSF/ANSI 372

**Nylon Coated Ductile Iron Grooved End Butterfly, 300 psi
Grooved Mechanical Style
Extended Neck, Elastomer Encapsulated Disc
Accepts Internal Supervisory Switches
Grooved End Compatible with IPS Pipe
UL/FM Rating**



GG-SCS2

Grooved
2 1/2", 3", 4", 6", 8", 10"



DIMENSIONS

| | VALVE SIZE | | | | | | |
|---|--------------|-------|------|------|-------|-------|-------|
| | INCHES DN | 2 1/2 | 3 | 4 | 6 | 8 | 10 |
| A | INCHES | 2.88 | 3.50 | 4.50 | 6.63 | 8.63 | 10.77 |
| | mm | 73 | 89 | 114 | 168 | 219 | 274 |
| B | INCHES | 2.72 | 3.34 | 4.33 | 6.45 | 8.44 | 10.55 |
| | mm | 69 | 85 | 110 | 164 | 214 | 268 |
| C | INCHES | .31 | .31 | .38 | .38 | .44 | .50 |
| | mm | 8 | 8 | 10 | 10 | 11 | 13 |
| D | INCHES | .63 | .63 | .63 | .63 | .75 | .75 |
| | mm | 16 | 16 | 16 | 16 | 19 | 19 |
| E | INCHES | 3.81 | 3.81 | 4.56 | 5.81 | 5.25 | 6.25 |
| | mm | 97 | 97 | 116 | 148 | 133 | 159 |
| F | INCHES | 8.95 | 9.16 | 10 | 11.92 | 12.85 | 15 |
| | mm | 227 | 233 | 254 | 303 | 326 | 381 |
| G | INCHES | 2.20 | 2.47 | 3.00 | 4.33 | 5.67 | 6.77 |
| | mm | 56 | 63 | 76.2 | 110 | 144 | 172 |
| H | INCHES | 4.92 | 4.92 | 4.92 | 6.48 | 6.48 | 8.74 |
| | mm | 125 | 125 | 125 | 165 | 165 | 222 |
| J | INCHES | 4.25 | 4.25 | 4.25 | 6 | 6 | 6 |
| | mm | 108 | 108 | 108 | 152 | 152 | 152 |
| K | INCHES | - | - | - | - | 1.32 | 1.74 |
| | mm | - | - | - | - | 34 | 44 |
| L | INCHES | - | - | - | - | 5.87 | 7.44 |
| | mm | - | - | - | - | 149 | 189 |

MATERIALS LIST

| ITEM | PART | MATERIALS | MATERIALS |
|------|----------------|-------------------------------|-----------------------------------|
| 1 | INDICATOR FLAG | PAINTED STEEL | - |
| 2 | STEM ADAPTER | STEEL | - |
| 3 | GEAR OPERATOR | CAST IRON AND STEEL | - |
| 4 | RETAINING RING | CARBON STEEL | - |
| 5 | CARTRIDGE SEAL | BRASS | ASTM C36000 |
| 6 | STEM STEALS | EPDM | - |
| 7 | UPPER STEM | STAINLESS STEEL | ASTM A582 TYPE 416 |
| 8 | UPPER BUSHING | PLATED STEEL WITH PTFE LINING | - |
| 9 | BODY | DUCTILE IRON | ASTM A395 WITH POLYAMINDE COATING |
| 10 | DISC | DUCTILE IRON | ASTM A536 WITH EPDM ENCAPSULATION |
| 11 | LOWER BUSHING | STEEL WITH PTFE LINING | - |
| 12 | LOWER STEM | STAINLESS STEEL | ASTM A582 TYPE 416 |
| 13 | HANDWHEEL | CAST IRON | - |

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