



## Ball Valves

| Figure #         | Description   | Page  |
|------------------|---|-------|
| UP8501/8503      | 600 WOG, Threaded End, Bronze Body, Chrome Plated Ball, Standard Port<br>(UP8503 Stainless Steel Ball & Stem)   | UP-1  |
| UP8501/8503 P2   | 200 psig @ 250° F, Press End, Bronze Body, Chrome Plated Ball, Standard Port<br>(UP8503 P2 Stainless Steel Ball & Stem)                               | UP-2  |
| UP8501H/8511H    | 600 WOG, Threaded x Hose, Bronze Body, Chrome Plated Ball, Standard Port<br>(UP8511H Solder x Hose)   | UP-3  |
| UP8501H P1       | 200 psig @ 250° F, Press x Hose, Bronze Body, Chrome Plated Ball, Standard Port   | UP-4  |
| UP8511/8513      | 600 WOG, Solder End, Bronze Body, Chrome Plated Ball, Standard Port<br>(UP8513 Stainless Steel Ball & Stem)   | UP-5  |
| UP8604/8603      | 600 WOG, Threaded End, Bronze Body, Chrome Plated Ball, Full Port<br>(UP8603 Stainless Steel Ball & Stem)   | UP-6  |
| UP8604/8603 P2   | 200 psig @ 250° F, Press End, Bronze Body, Chrome Plated Ball, Full Port<br>(UP8603 P2 Stainless Steel Ball & Stem)                                   | UP-7  |
| UP8614/8613      | 600 WOG, Solder End, Bronze Body, Chrome Plated Ball, Full Port<br>(UP8613 Stainless Steel Ball & Stem)   | UP-8  |
| UP8301A/8303A    | 600 WOG, Threaded End, Bronze Body, Chrome Plated Ball, Full Port<br>(UP8303A Stainless Steel Ball & Stem)  | UP-9  |
| UP8301A/8303A P2 | 200 psig @ 250° F, Press End, Bronze Body, Chrome Plated Ball, Full Port<br>(UP8303A P2 Stainless Steel Ball & Stem)                                  | UP-10 |
| UP8311A/8313A    | 600 WOG, Solder End, Bronze Body, Chrome Plated Ball, Full Port<br>(UP8313A Stainless Steel Ball & Stem)  | UP-11 |
| UP8901           | 600 WOG, Threaded End, Brass Body, Chrome Plated Ball, Full Port  | UP-12 |
| UPBA480B         | 200-250 psig @ 250° F, Press x Press End, Brass Body, Blow-Out Proof Stem, Full Port  | UP-13 |
| UPBA480S         | 200-250 psig @ 250° F, Press x Press End, Brass Body, Blow-Out Proof Stem, Full Port,<br>Stainless Steel Ball & Stem                                  | UP-14 |
| UPBA480BH        | 250 psig @ 250° F, Press x Hose End, Brass Body, Blow-Out Proof Stem, Full Port   | UP-15 |
| UPBA480SH        | 250 psig @ 250°F, Press x Hose End, Brass Body, Blow-Out Proof Stem, Full Port,<br>Stainless Steel Ball & Stem  | UP-16 |
| UPBA481B         | 200 psig @ 250° F, Press x Press End w/ Extension Stem & Memory Stop, Brass Body,<br>Blow-Out Proof Stem, Full Port                                   | UP-17 |
| UPBA481S         | 200 psig @ 250°F, Press x Press End w/ Extension Stem & Memory Stop, Brass Body,<br>Stainless Steel Ball & Stem, Blow-Out Proof Stem, Full Port       | UP-18 |
| UP8911           | 600 WOG, Solder End, Brass Body, Chrome Plated Ball, Full Port, Blow-out Proof Stem   | UP-19 |
| UPBA490B         | 200 psig @ 250° F, Press x Threaded End, Brass Body, Blow-Out Proof Stem, Full Port   | UP-20 |
| UPBA490S         | 200 psig @ 250° F, Press x Threaded End, Brass Body, Blow-Out Proof Stem, Full Port,<br>Stainless Steel Ball & Stem                                   | UP-21 |
| UPBA491B         | 200 psig @ 250° F, Press x Threaded End w/ Extension Stem and Memory Stop, Brass Body,<br>Blow-Out Proof Stem, Full Port                              | UP-22 |
| UPBA491S         | 200 psig @ 250° F, Press x Threaded End w/ Extension Stem and Memory Stop, Brass Body,<br>Blow-Out Proof Stem, Full Port, Stainless Steel Ball & Stem | UP-23 |

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## Gate Valves

| Figure #  | Description  | Page  |
|-----------|--|-------|
| UP645     | 300 WOG, Threaded End, Bronze Body, Non-Rising Stem, Threaded Bonnet                             | UP-24 |
| UP645 P2  | 200 psig @ 250 ° F, Press End, Bronze Body, Non-Rising Stem, Threaded Bonnet                     | UP-25 |
| UP647     | 300 WOG, Solder End, Bronze Body, Non-Rising Stem, Threaded Bonnet                               | UP-26 |
| UP640     | 300 WOG, Threaded End, Bronze Body, Rising Stem, Threaded Bonnet                                 | UP-27 |
| UP640 P2  | 200 psig @ 250° F, Press End, Bronze Body, Rising Stem, Threaded Bonnet                          | UP-28 |
| UP635     | 300 WOG, Solder End, Bronze Body, Rising Stem, Threaded Bonnet                                   | UP-29 |
| UP667/668 | 200 WOG, Threaded End, Brass Body, Non-Rising Stem, Threaded Bonnet (UP668 Solder End 1/2" - 2") | UP-30 |

## Globe Valves

| Figure # | Description   | Page  |
|----------|---|-------|
| UP440    | 300 WOG, Threaded End, Bronze Body and Disc, Threaded Bonnet        | UP-31 |
| UP440 P2 | 200 psig @ 250° F, Press End, Bronze Body and Disc, Threaded Bonnet | UP-32 |
| UP418    | 300 WOG, Solder End, Bronze Body and Disc, Threaded Bonnet          | UP-33 |

## Check Valves

| Figure #  | Description   | Page  |
|-----------|---|-------|
| UP904     | 200 WOG, Threaded End, Bronze Body and Disc, Swing Check                              | UP-34 |
| UP904 P2  | 200 psig @ 250° F, Press End, Bronze Body and Disc, Swing Check                       | UP-35 |
| UP912     | 300 WOG, Solder End, Bronze Body and Disc, Swing Check                                | UP-36 |
| UP943     | 250 WOG, Threaded End, Bronze Body, PTFE Disc, Spring Check                           | UP-37 |
| UP943 P2  | 200 psig @ 250° F, Press End, Bronze Body, PTFE Disc, Spring Check                    | UP-38 |
| UP947     | 250 WOG, Solder End, Bronze Body, PTFE Disc, Spring Check                             | UP-39 |
| UP967/968 | 200 WOG, Threaded End, Bronze Body and Disc, Swing Check (UP968 Solder End 1/2" - 2") | UP-40 |
| UP969     | 200 PSIG @ 250° F, Press x Press End, Brass Body and Disc, Horizontal Swing           | UP-41 |

## Butterfly Valves

| Figure #       | Description  | Page     |
|----------------|--|----------|
| 5000 Series    | 200 WOG, Cast Iron Body, Aluminum Bronze Disc, EPDM Liner (2" - 12")     | UP-42    |
| 5000 Series    | 150 WOG, Cast Iron Body, Aluminum Bronze Disc, EPDM Liner (14" - 24")    | UP-43    |
| 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"



Tested and Certified  
by IAPMO R&T to  
NSF/ANSI 61 and  
NSF/ANSI 372 for  
Lead Free Compliance.

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

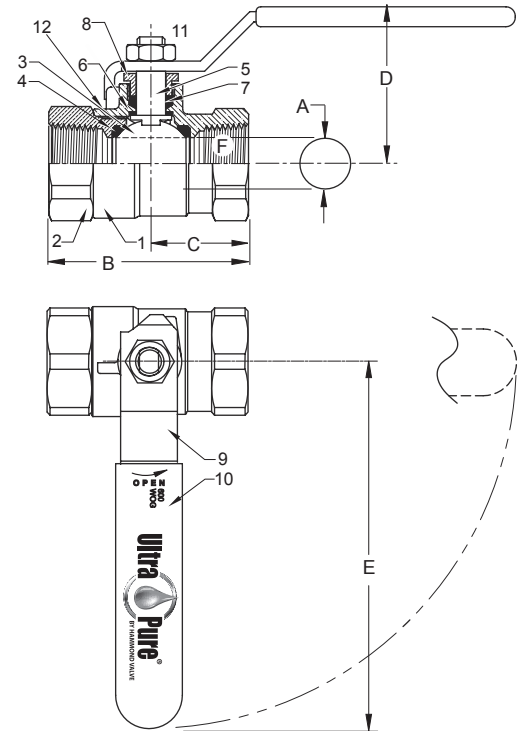
Dimensions and Workmanship Conform to MSS SP-110

## MATERIALS LIST

| ITEM | PART          | MATERIAL                              | ASTM SPEC      |
|------|---------------|---------------------------------------|----------------|
| 1    | Body          | Cast Bronze                           | B584<br>C89833 |
| 2    | Tailpiece     | Cast Bronze                           | B584<br>C89833 |
| 3    | Ball          | Brass w/Hard Chrome Plating           | B283<br>C27450 |
|      |               | 316 Stainless Steel <sup>(1)</sup>    | A276<br>S31600 |
| 4    | Seat          | RPTFE, 15% Glass filled               | Commercial     |
| 5    | Stem          | Brass                                 | B21<br>C46400  |
|      |               | 316 Stainless Steel <sup>(1)(2)</sup> | A276<br>S31600 |
| 6    | Thrust Washer | RPTFE, 25% Glass filled               | Commercial     |
| 7    | Packing       | PTFE                                  | Commercial     |
| 8    | Packing Nut   | Brass                                 | B16<br>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     |

<sup>(1)</sup> Ball and stem are stainless for UP8503

<sup>(2)</sup> Stem is stainless for 2 1/2" & 3" UP8501



## DIMENSIONS

|         | UNITS          | 1/4"<br>DN6 | 3/8"<br>DN10 | 1/2"<br>DN15 | 3/4"<br>DN20 | 1"<br>DN25 | 1-1/4"<br>DN32 | 1-1/2"<br>DN40 | 2"<br>DN50 | 2-1/2"<br>DN65 | 3"<br>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<br>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"

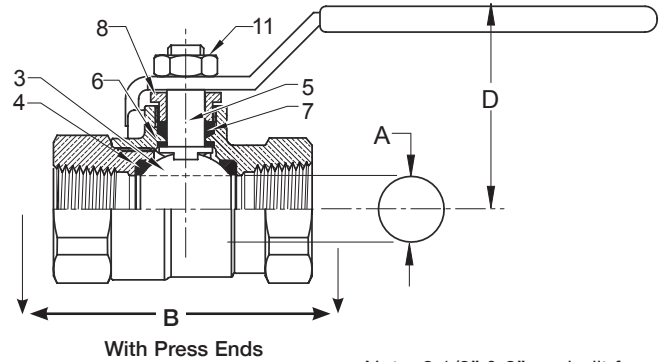
**Bronze Ball Valve For Potable Water**  
**Two Piece**  
**Standard Port (1" - 3") Full Port (1/2" - 3/4")**  
**200 psig @ 250°F†**  
**Press x Press Ends**  
**Press x Threaded Ends Available (Consult Factory)**  
**Blow-Out Proof Stem**

**Dimensions and Workmanship Conform to MSS SP-110**

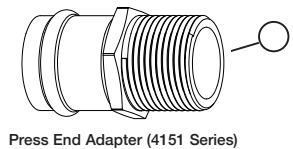
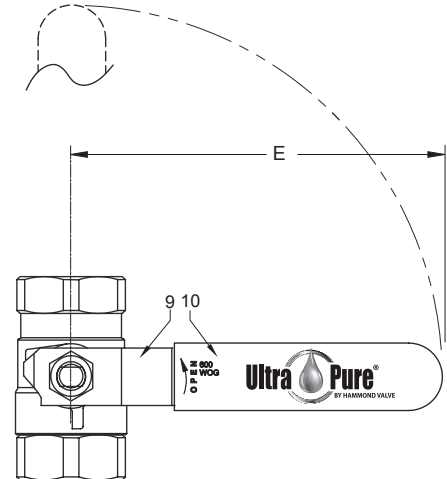
## MATERIAL LIST

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

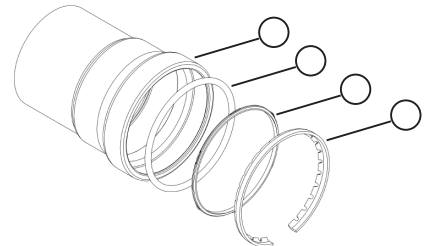
(1) Ball and stem are stainless for UP8503 P2



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



Press End Adapter (4151 Series)



## DIMENSIONS

|               | UNITS  | 1/2"<br>DN15 | 3/4"<br>DN20 | 1"<br>DN25 | 1-1/4"<br>DN32 | 1-1/2"<br>DN40 | 2"<br>DN50 | 2-1/2"<br>DN65 | 3"<br>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"



Tested and Certified  
by IAPMO R&T to  
NSF/ANSI 61 and  
NSF/ANSI 372 for  
Lead Free Compliance.

**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.**

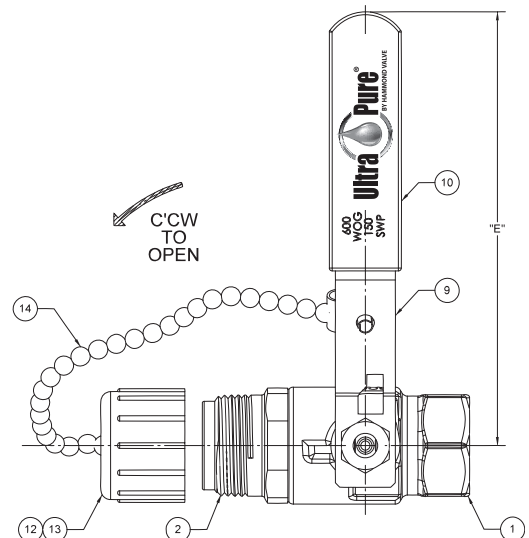
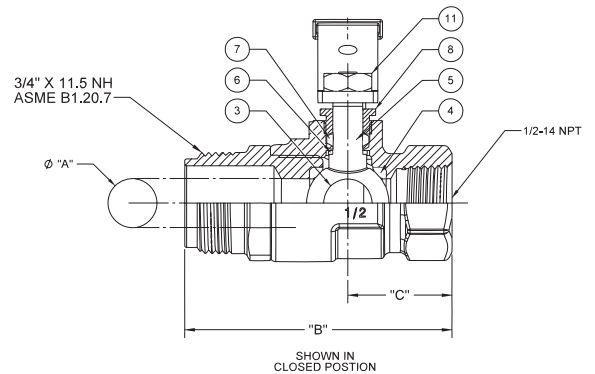
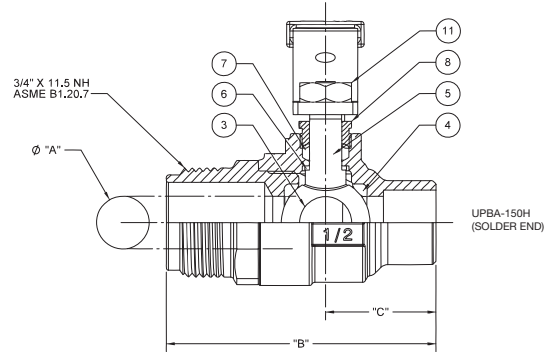
**Note:** Pressure/Temperature rating shown are for VALVE ONLY. Hose side pressure and temperature limit is based on connected hose and is users responsibility

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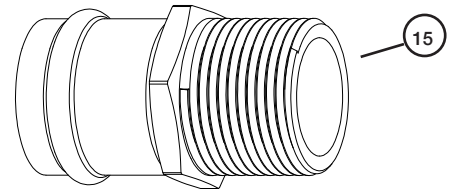
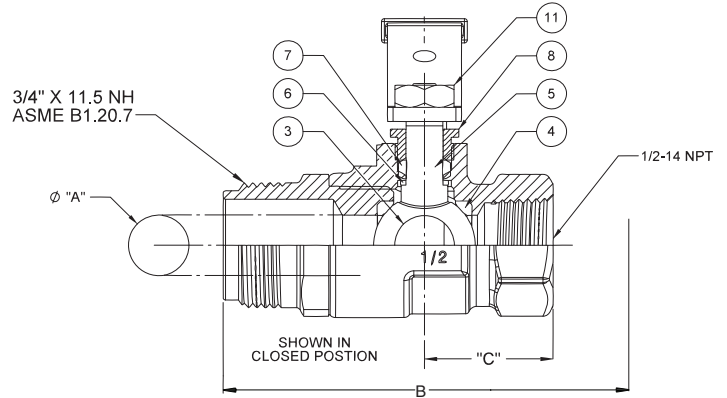
# UP8501H P1\* 1/2" & 3/4"

**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<br>C27450     |
| 2    | Tailpiece     | Brass  | B283<br>C27450     |
| 3    | Ball          | Brass, Chrome Plated                         | B283<br>C27450     |
| 4    | Seat          | PTFE (1/2") RPTFE 15%<br>Glass Filled (3/4") | Commercial         |
| 5    | Stem          | Brass  | B21<br>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<br>O-Ring               | B283<br>C27450     |



Press End Adapter (4151 Series)

## DIMENSIONS

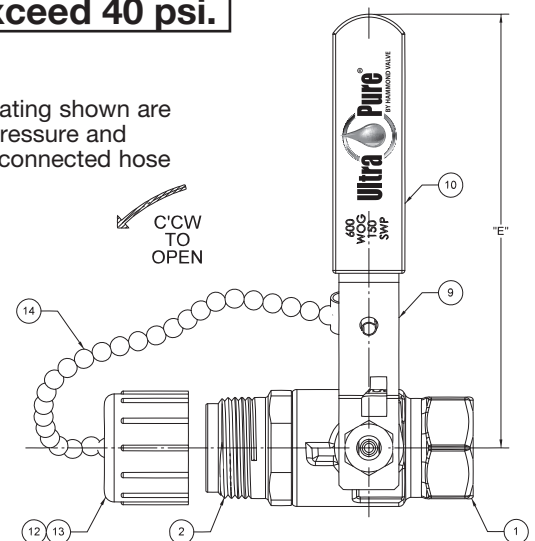
|                           | UNITS           | 1/2"       | 3/4"        |
|---------------------------|-----------------|------------|-------------|
|                           |                 | DN15       | DN20        |
| A                         | INCHES<br>mm    | 0.50<br>13 | .76<br>19   |
| B                         | INCHES<br>mm    | 2.70<br>69 | 2.90<br>74  |
| STD<br>INSERTION<br>DEPTH | INCHES<br>mm    | .87<br>22  | .98<br>25   |
| C                         | INCHES<br>mm    | 1.10<br>28 | 1.30<br>33  |
| D                         | INCHES<br>mm    | 1.88<br>48 | 2.14<br>54  |
| E                         | INCHES<br>mm    | 3.81<br>97 | 4.62<br>117 |
| F                         | THREAD<br>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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⚠ State of California Prop 65 **WARNING:** Cancer and Reproductive Harm. For more information visit [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov).



**HAMMONDVALVE**



# UP8511/8513 3/8"-3"



Tested and Certified  
by IAPMO R&T to  
NSF/ANSI 61 and  
NSF/ANSI 372 for  
Lead Free Compliance.

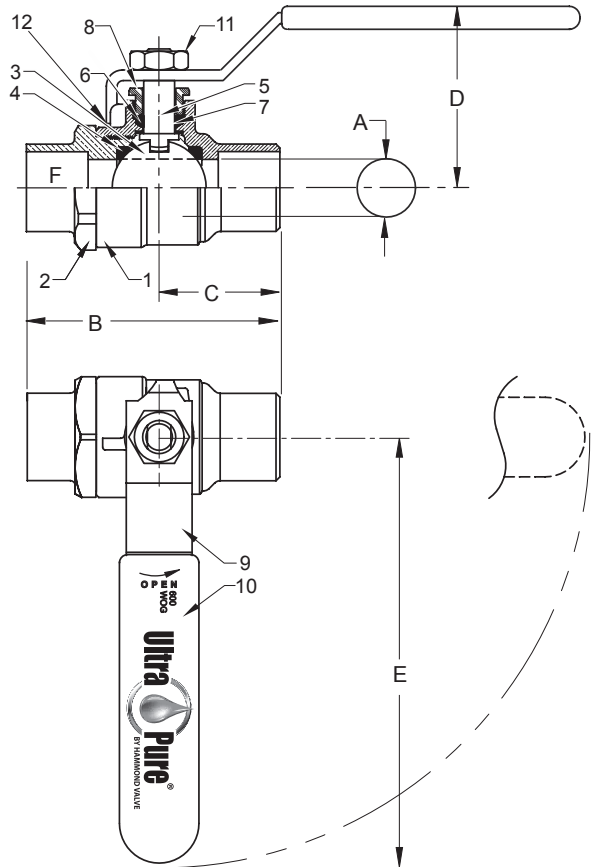
**Bronze Ball Valve For Potable Water**  
**Two Piece**  
**Standard Port (1" - 3") Full Port (3/8" - 3/4")**  
**600 psig WOG**  
**Solder Ends**  
**Blow-Out Proof Stem**  
**Dimensions and Workmanship Conform to MSS SP-110**

## MATERIAL LIST

| ITEM | PART          | MATERIAL                    | ASTM SPEC      |
|------|---------------|-----------------------------|----------------|
| 1    | Body          | Cast Bronze                 | B584<br>C89833 |
| 2    | Tailpiece     | Cast Bronze                 | B584<br>C89833 |
| 3    | Ball          | Brass w/Hard Chrome Plating | B283<br>C27450 |
|      |               | 316 Stainless Steel (1)     | A276<br>S31600 |
| 4    | Seat          | RPTFE, 15% Glass filled     |                |
| 5    | Stem          | Brass                       | B21<br>C46400  |
|      |               | 316 Stainless Steel (1)(2)  | A276<br>S31600 |
| 6    | Thrust Washer | RPTFE, 25% Glass Filled     | Commercial     |
| 7    | Packing       | PTFE                        | Commercial     |
| 8    | Packing Nut   | Brass                       | B16<br>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"<br>DN10 | 1/2"<br>DN15 | 3/4"<br>DN20 | 1"<br>DN25 | 1-1/4"<br>DN32 | 1-1/2"<br>DN40 | 2"<br>DN50 | 2-1/2"<br>DN65 | 3"<br>DN80 |
|------------|---------------|--------------|--------------|--------------|------------|----------------|----------------|------------|----------------|------------|
| A<br>(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<br>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](http://www.p65warnings.ca.gov).





# UP8604/8603 1/4"-3"



Tested and Certified  
by IAPMO R&T to  
NSF/ANSI 61 and  
NSF/ANSI 372 for  
Lead Free Compliance.

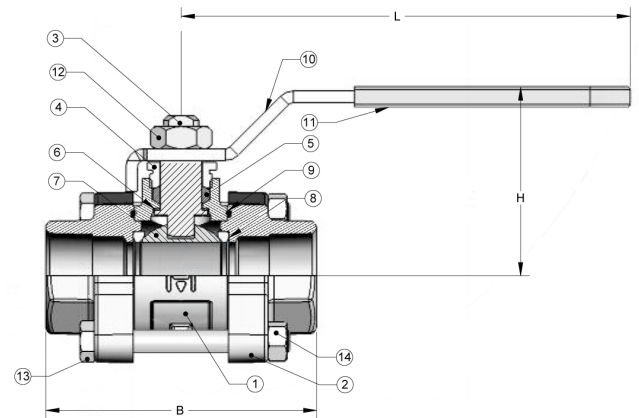
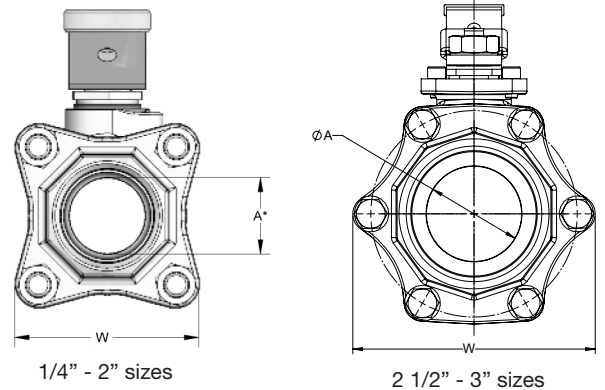
**Bronze Ball Valve For Potable Water**  
**Three Piece**  
**Full Port**  
**600 psig WOG**  
**Threaded Ends**  
**Blow-Out Proof Stem**

**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<br>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<br>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"<br>DN6 | 3/8"<br>DN10 | 1/2"<br>DN15 | 3/4"<br>DN20 | 1"<br>DN25 | 1-1/4"<br>DN32 | 1-1/2"<br>DN40 | 2"<br>DN50 | 2-1/2"<br>DN 65 | 3" *<br>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<br>SIZE | 1/4"<br>NPT | 3/8"<br>NPT  | 1/2"<br>NPT  | 3/4"<br>NPT  | 1" NPT     | 1-1/4"<br>NPT  | 1-1/2"<br>NPT  | 2" NPT     | 2-1/2"<br>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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# 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<br>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        |

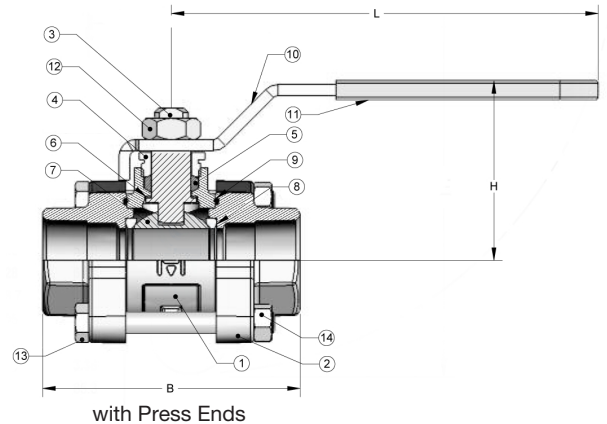
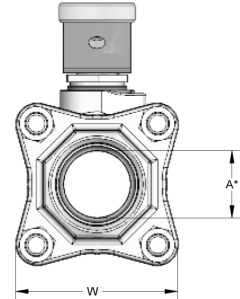
(1) Ball and stem are stainless for UPBA300S

## DIMENSIONS

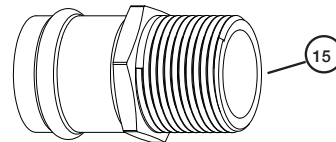
|                           | UNITS          | 1/2"<br>DN15 | 3/4"<br>DN20 | 1"<br>DN25 | 1-1/4"<br>DN32 | 1-1/2"<br>DN40 | 2"<br>DN50 |
|---------------------------|----------------|--------------|--------------|------------|----------------|----------------|------------|
| A                         | INCHES         | 0.50         | 0.75         | 1.00       | 1.25           | 1.50           | 2.00       |
|                           | mm             | 13           | 19           | 25         | 32             | 38             | 51         |
| STD<br>INSERTION<br>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<br>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



with Press Ends



Press End Adapter.

\*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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**HAMMONDVALVE**



# UP8614/8613 3/8"-3"



Tested and Certified  
by IAPMO R&T to  
NSF/ANSI 61 and  
NSF/ANSI 372 for  
Lead Free Compliance.

**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        |

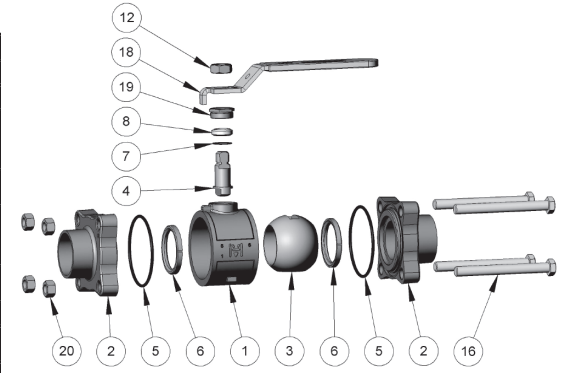
(1) Ball and stem are stainless for UP8613

## DIMENSIONS

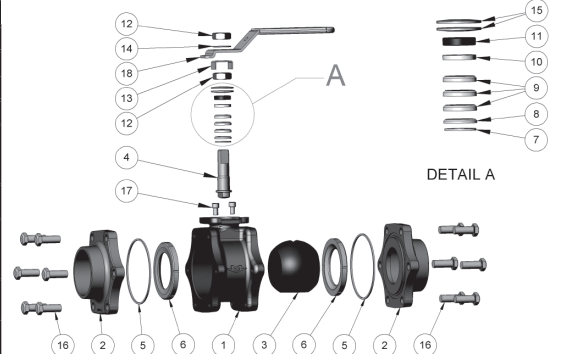
|    | UNITS  | 3/8"<br>DN10 | 1/2"<br>DN15 | 3/4"<br>DN20 | 1"<br>DN25 | 1-1/4"<br>DN32 | 1-1/2"<br>DN40 | 2"<br>DN50 | 2-1/2"<br>DN65 | 3"<br>DN80 |
|----|--------|--------------|--------------|--------------|------------|----------------|----------------|------------|----------------|------------|
| 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.

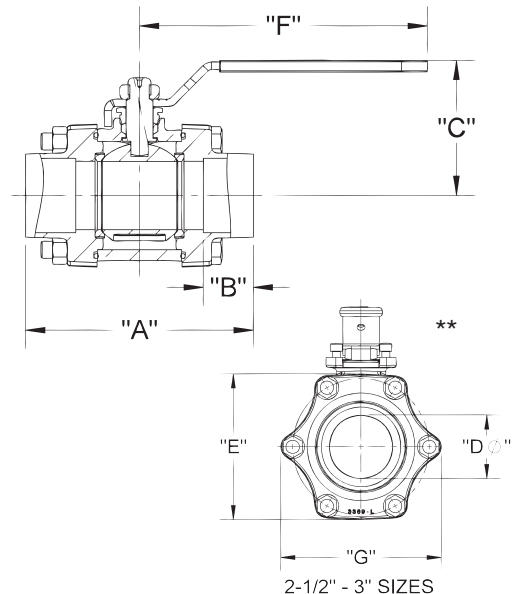
\*\*2-1/2" & 3" Only.



3/8" THRU 2"



2-1/2" THRU 3"



2-1/2" - 3" SIZES

**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](http://www.p65warnings.ca.gov).



# UP8301A/8303A 1/4"-2"



Tested and Certified  
by IAPMO R&T to  
NSF/ANSI 61 and  
NSF/ANSI 372 for  
Lead Free Compliance.

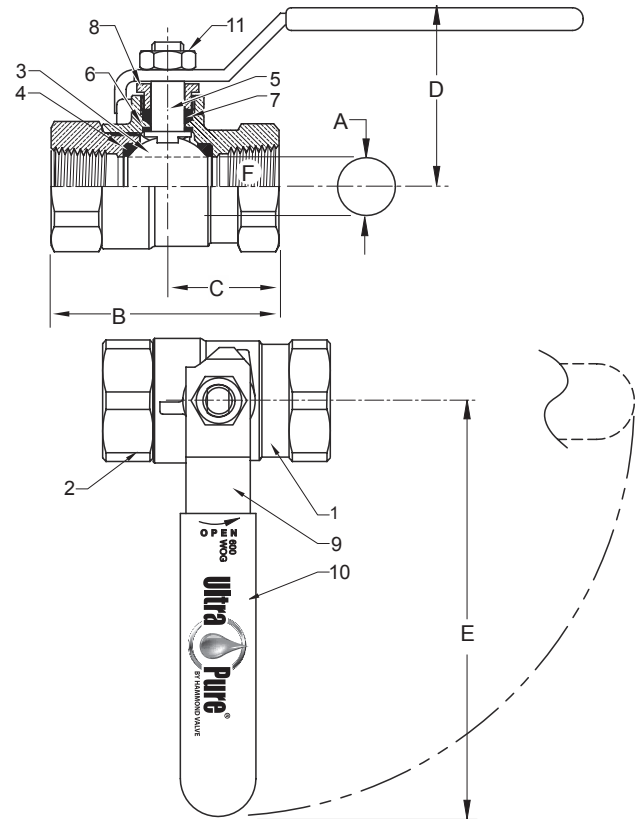
**Bronze Ball Valve For Potable Water**  
**Two Piece**  
**Full Port**  
**600 psig WOG**  
**Threaded Ends**  
**Blow-Out Proof Stem**

**Dimensions and Workmanship Conform to MSS SP-110**

## MATERIALS LIST

| ITEM | PART          | MATERIALS                   | ASTM SPEC.         |
|------|---------------|-----------------------------|--------------------|
| 1    | Body          | Cast Bronze                 | B584<br>C89833     |
| 2    | Tailpiece     | Cast Bronze                 | B584<br>C89833     |
| 3    | Ball          | Brass w/Hard Chrome Plating | B283<br>C27450     |
|      |               | 316 Stainless Steel (1)     | A276 S31600        |
| 4    | Seat          | RPTFE, 15% Glass Filled     | Commercial         |
| 5    | Stem          | Brass                       | B21 C46400,<br>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"<br>DN10 | 3/8"<br>DN10 | 1/2"<br>DN15 | 3/4"<br>DN20 | 1"<br>DN25 | 1-1/4"<br>DN32 | 1-1/2"<br>DN40 | 2"<br>DN50 |
|------------|----------------|--------------|--------------|--------------|--------------|------------|----------------|----------------|------------|
| A<br>(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<br>SIZE | 1/4" NPT     | 3/8" NPT     | 1/2" NPT     | 3/4" NPT     | 1" NPT     | 1-1/4"<br>NPT  | 1-1/2"<br>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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⚠ State of California Prop 65 **WARNING:** Cancer and Reproductive Harm. For more information visit [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov).





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

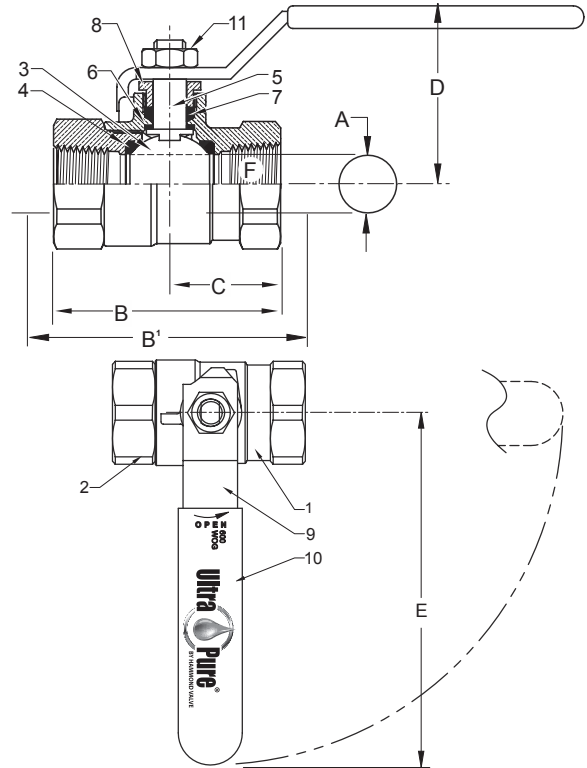
**Bronze Ball Valve For Potable Water**  
**Two Piece**  
**Full Port**  
**200 psig @ 250°F†**  
**Press x Press Ends**  
**Blow-Out Proof Stem**

Dimensions and Workmanship Conform to MSS SP-110

## MATERIAL LIST

| ITEM | PART           | MATERIAL   | ASTM SPEC                        |
|------|----------------|--|----------------------------------|
| 1    | Body           | Cast Bronze  | B584<br>C89833                   |
| 2    | Tailpiece      | Cast Bronze  | B584<br>C89833                   |
| 3    | Ball           | Brass w/Hard Chrome Plating<br>316 Stainless Steel (1) | B283<br>C27450<br>A276<br>S31600 |
| 4    | Seat           | RPTFE, 15% Glass Filled                                | Commercial                       |
| 5    | Stem           | Brass<br>316 Stainless Steel (1)                       | B21<br>C46400<br>A276<br>S31600  |
| 6    | Thrust Washer  | RPTFE, 25% Glass Filled                                | Commercial                       |
| 7    | Packing        | PTFE   | Commercial                       |
| 8    | Packing Nut    | Brass  | B16<br>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<br>C27450                   |

(1) Ball and stem are stainless for UP8303A P2



## DIMENSIONS

|                           | UNITS       | 1/2"<br>DN15 | 3/4"<br>DN20 | 1"<br>DN25 | 1-1/4"<br>DN32 | 1-1/2"<br>DN40 | 2"<br>DN50 |
|---------------------------|-------------|--------------|--------------|------------|----------------|----------------|------------|
| A (DIA)                   | INCHES      | 0.50         | 0.76         | 1.06       | 1.31           | 1.56           | 2.00       |
|                           | mm          | 13           | 19           | 27         | 33             | 40             | 51         |
| STD<br>INSERTION<br>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        |
| B <sup>1</sup>            | 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.

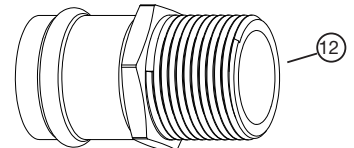
†Non-Shock

\*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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⚠ State of California Prop 65 **WARNING:** Cancer and Reproductive Harm. For more information visit [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov).



Press End Adapter.

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



# UP8311A/8313A 3/8"-2"



Tested and Certified  
by IAPMO R&T to  
NSF/ANSI 61 and  
NSF/ANSI 372 for  
Lead Free Compliance.

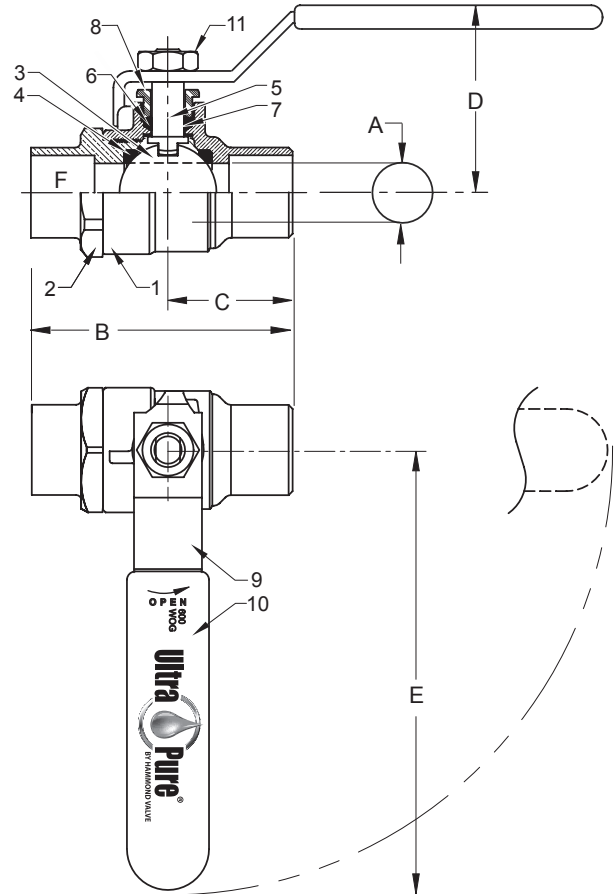
**Bronze Ball Valve For Potable Water**  
**Two Piece**  
**Full Port**  
**600 psig WOG**  
**Solder Ends**

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

## MATERIALS LIST

| ITEM | PART          | MATERIALS                   | ASTM SPEC.     |
|------|---------------|-----------------------------|----------------|
| 1    | Body          | Cast Bronze                 | B584<br>C89833 |
| 2    | Tailpiece     | Cast Bronze                 | B584<br>C89833 |
| 3    | Ball          | Brass w/Hard Chrome Plating | B283<br>C27450 |
|      |               | 316 Stainless Steel (1)     | A276<br>S31600 |
| 4    | Seat          | RPTFE, 15% Glass Filled     | Commercial     |
| 5    | Stem          | Brass                       | B21 C46400     |
|      |               | 316 Stainless Steel (1)     | A276<br>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"<br>DN15 | 1/2"<br>DN15 | 3/4"<br>DN20 | 1"<br>DM25 | 1-1/4"<br>DM32 | 1-1/2"<br>DN40 | 2"<br>DN50 |
|------------|----------------|--------------|--------------|--------------|------------|----------------|----------------|------------|
| A<br>(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<br>SIZE Ø | 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 ≤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](http://www.p65warnings.ca.gov).





# UP8901 1/4"-3"



Tested and Certified  
by IAPMO R&T to  
NSF/ANSI 61 and  
NSF/ANSI 372 for  
Lead Free Compliance.



**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  |

### 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")

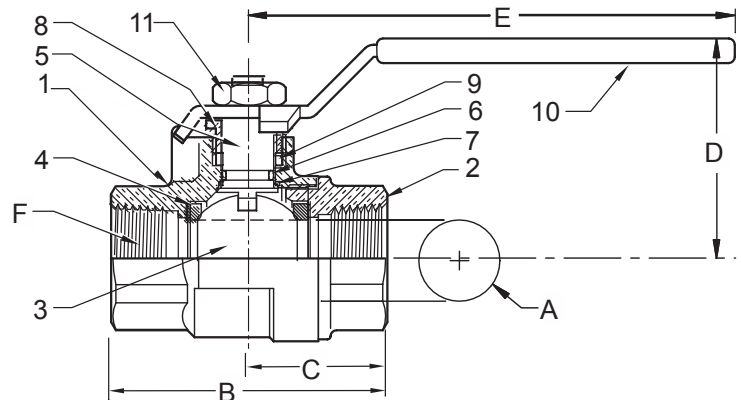
- UL 842 (YRPV) Gas Shutoff
- UL 842 (MHKZ) Manual Valves
- UL 125 (YSDT) LP-Gas Shutoff
- UL 1477 (YQNZ) Compressed Gas Shutoff
- UL 258 (VQGU) Trim and Drain Valves

### FM Approved (1/4" - 2")

- FM 1140, 600 psi

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

**Also Available UP8901-07**  
**\*\* Additional body/tailpiece seal for**  
**2 1/2" & 3" sizes only**  
**(Not Pictured).**



## 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 | 1/4" | 3/8" | 1/2" | 3/4" | 1" NPT | 1-1/4" | 1-1/2" | 2" NPT | 2-1/2" | 3" NPT |
|    | SIZE   | NPT  | NPT  | NPT  | NPT  |        | NPT    | NPT    |        | 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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# UPBA-480B\* 1/2"-4"\*\*\*



IAPMO R&T: Tested and Certified to NSF/ANSI/CAN Z1157.  
NSF/ANSI/CAN 61  
NSF/ANSI/CAN 372  
NSF/ANSI/CAN Z1157  
1/2" through 3" Only.

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

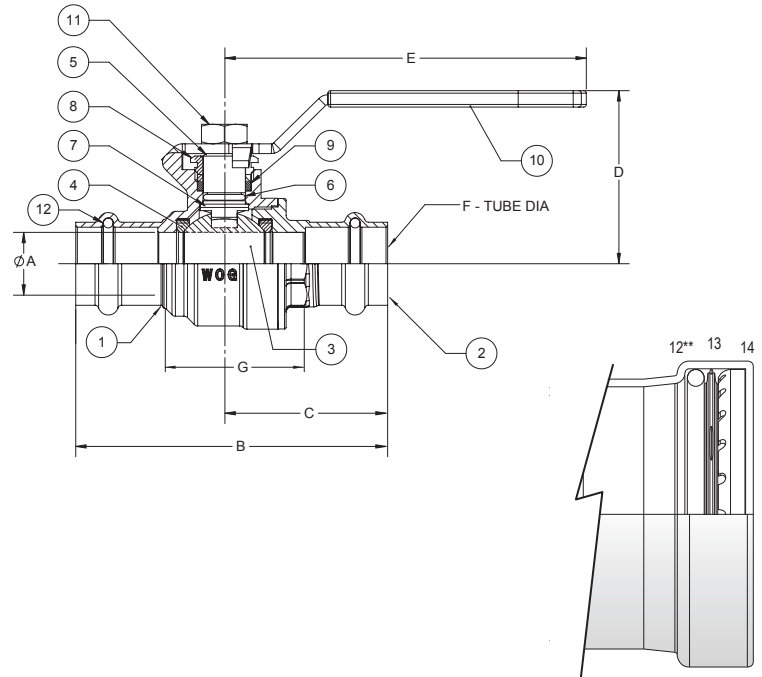
Blow-Out Proof Stem

† Non-Shock

## 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 Retainer      | 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"<br>DN15 | 3/4"<br>DN20 | 1"<br>DN25 | 1-1/4"<br>DN32 | 1-1/2"<br>DN40 | 2"<br>DN50 | 2-1/2"<br>DN65 | 3"<br>DN80 | 4"<br>DN100 |
|----|--------|--------------|--------------|------------|----------------|----------------|------------|----------------|------------|-------------|
| A  | INCHES | 0.51         | 0.76         | 0.98       | 1.26           | 1.5            | 2.01       | 2.48           | 2.95       | 3.94        |
|    | mm     | 13           | 19           | 25         | 32             | 38             | 51         | 63             | 75         | 100         |
| B  | INCHES | 3.16         | 3.71         | 4.28       | 5.2            | 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           | 3.4            | 3.96       | 4.33           | 4.8        | 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         |

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



IAPMO R&T: Tested and Certified to NSF/ANSI/CAN Z1157.  
NSF/ANSI/CAN 61 and  
NSF/ANSI/CAN 372 for  
Lead Free Compliance

Brass Ball Valve For Potable Water

Two Piece

Full Port

250 psig @ 250°F†

Press x Press Ends

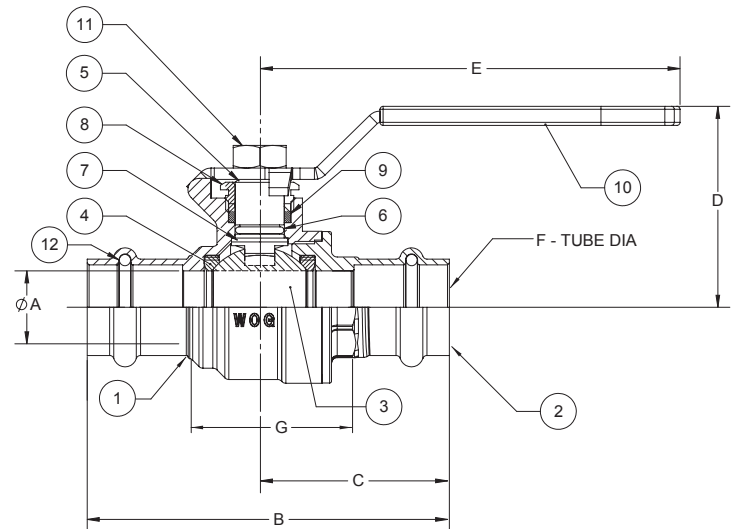
Blow-Out Proof Stem

† Non-Shock

## 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 (1/2"-2") | 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"<br>DN15 | 3/4"<br>DN20 | 1"<br>DN25 | 1-1/4"<br>DN32 | 1-1/2"<br>DN40 | 2"<br>DN50 |
|----|--------|--------------|--------------|------------|----------------|----------------|------------|
| A  | INCHES | 0.51         | 0.76         | 0.98       | 1.26           | 1.5            | 2.01       |
|    | mm     | 13           | 19           | 25         | 32             | 38             | 51         |
| B  | INCHES | 3.16         | 3.71         | 4.28       | 5.2            | 6.31           | 7.44       |
|    | mm     | 80           | 94           | 109        | 132            | 160            | 189        |
| C  | INCHES | 1.63         | 1.92         | 2.18       | 2.75           | 3.4            | 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        |

**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](http://www.p65warnings.ca.gov)



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



IAPMO R&T: Tested and Certified to NSF/ANSI/CAN Z1157.  
NSF/ANSI/CAN 61 and  
NSF/ANSI/CAN 372 for  
Lead Free Compliance

Brass Ball Valve For Potable Water

Two Piece

Full Port

250 psig @ 250°F†

Press x 3/4" Hose End

Dust Cap and Chain

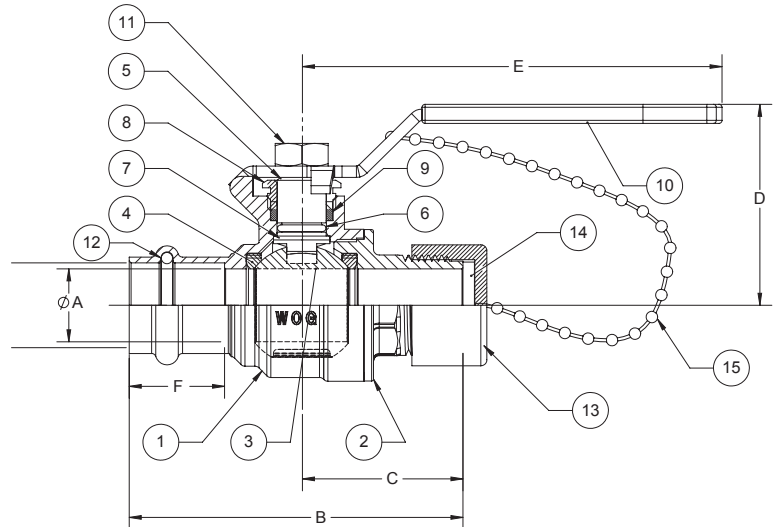
Blow-Out Proof Stem

† Non-Shock

## 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.



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

## DIMENSIONS

|    | UNITS  | 1/2"<br>DN15 | 3/4"<br>DN20 |
|----|--------|--------------|--------------|
| A  | INCHES | 0.51         | 0.76         |
|    | mm     | 13           | 19           |
| B  | INCHES | 3.09         | 3.5          |
|    | mm     | 78           | 90           |
| C  | INCHES | 1.55         | 1.7          |
|    | mm     | 39           | 43           |
| D  | INCHES | 1.62         | 2.01         |
|    | mm     | 41           | 51           |
| E  | INCHES | 3.15         | 4.33         |
|    | mm     | 80           | 110          |
| F  | INCHES | 0.82         | 0.99         |
|    | mm     | 21           | 25           |
| G  | INCHES | 0.83         | 0.98         |
|    | mm     | 21           | 25           |
| Cv |        | 18           | 40           |

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



IAPMO R&T: Tested and Certified to NSF/ANSI/CAN Z1157.  
NSF/ANSI/CAN 61 and  
NSF/ANSI/CAN 372 for  
Lead Free Compliance.

Brass Ball Valve For Potable Water

Two Piece

Full Port

250 psig @ 250°F†

Press x 3/4" Hose End

Dust Cap and Chain

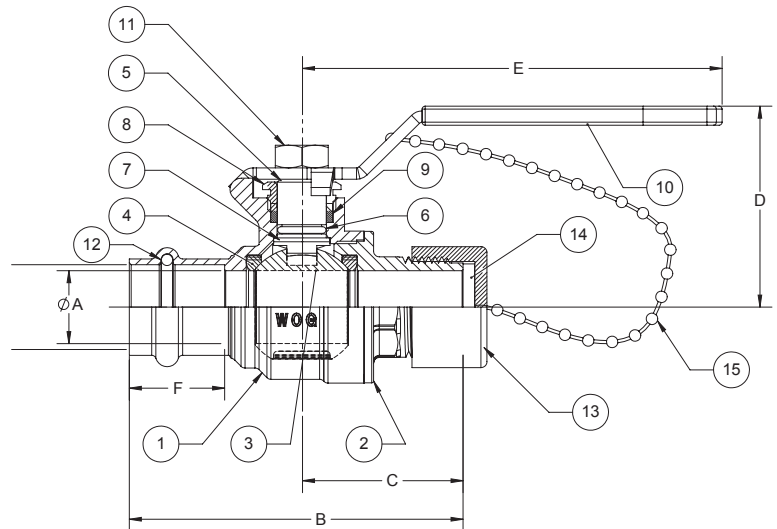
Blow-Out Proof Stem

† Non-Shock

## 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.



**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"<br>DN15 | 3/4"<br>DN20 |
|----|--------|--------------|--------------|
| A  | INCHES | 0.51         | 0.76         |
|    | mm     | 13           | 19           |
| B  | INCHES | 3.09         | 3.5          |
|    | mm     | 78           | 90           |
| C  | INCHES | 1.55         | 1.7          |
|    | mm     | 39           | 43           |
| D  | INCHES | 1.62         | 2.01         |
|    | mm     | 41           | 51           |
| E  | INCHES | 3.15         | 4.33         |
|    | mm     | 80           | 110          |
| F  | INCHES | 0.82         | 0.99         |
|    | mm     | 21           | 25           |
| G  | INCHES | 0.83         | 0.98         |
|    | mm     | 21           | 25           |
| Cv |        | 18           | 40           |

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

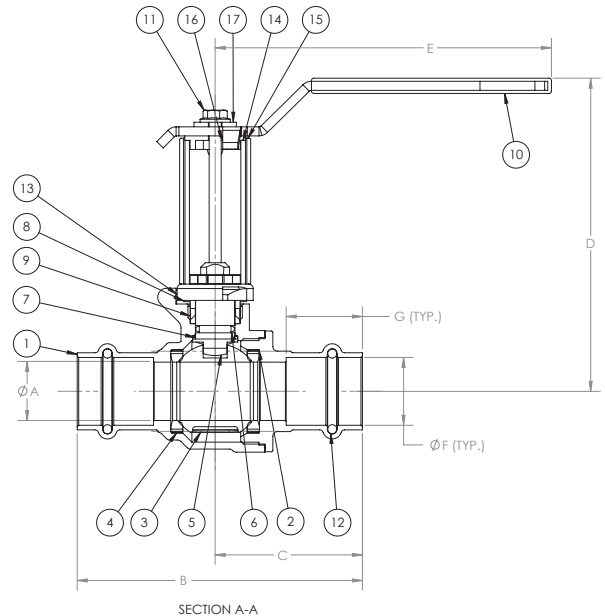


Tested and Certified  
by IAPMO R&T to  
NSF/ANSI 61 and  
NSF/ANSI 372 for  
Lead Free Compliance.

**MATERIALS LIST**

| ITEM | PART                    | MATERIALS                | ASTM SPEC.     |
|------|-------------------------|--------------------------|----------------|
| 1    | Body                    | Brass, Forged            | B283<br>C27450 |
| 2    | Tailpiece               | Brass, Forged            | B283<br>C27450 |
| 3    | Ball                    | Brass, Chrome<br>Plating | B283<br>C27450 |
| 4    | Ball Seat               | PTFE                     | Commercial     |
| 5    | Stem                    | Brass, Forged            | B283<br>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     |

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**DIMENSIONS**

|    | UNITS  | 1/2"<br>DN15 | 3/4"<br>DN20 | 1"<br>DN25 | 1-1/4"<br>DN32 | 1-1/2"<br>DN40 | 2"<br>DN50 | 2-1/2"<br>DN65 | 3"<br>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  $\leq 0.25\%$ . Source: California Health and Safety Code (116875).

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**HAMMONDVALVE**



**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"

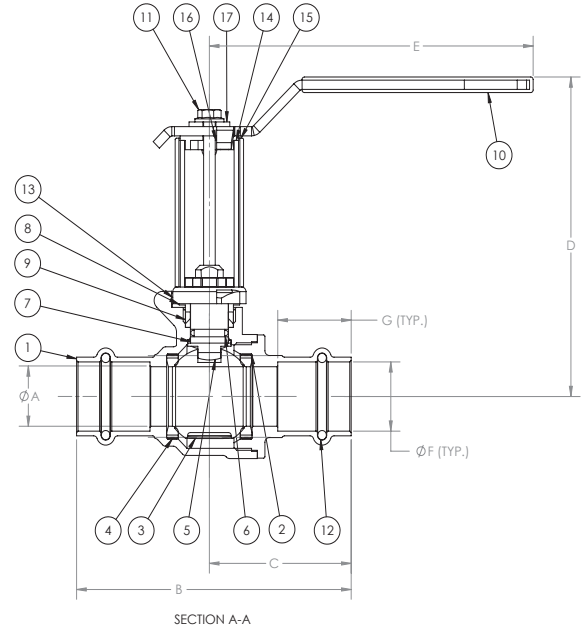


Tested and Certified  
by IAPMO R&T to  
NSF/ANSI 61 and  
NSF/ANSI 372 for  
Lead Free Compliance.

## 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"<br>DN15 | 3/4"<br>DN20 | 1"<br>DN25 | 1-1/4"<br>DN32 | 1-1/2"<br>DN40 | 2"<br>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  $\leq 0.25\%$ . Source: California Health and Safety Code (116875).

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# UP8911 1/2"-3"



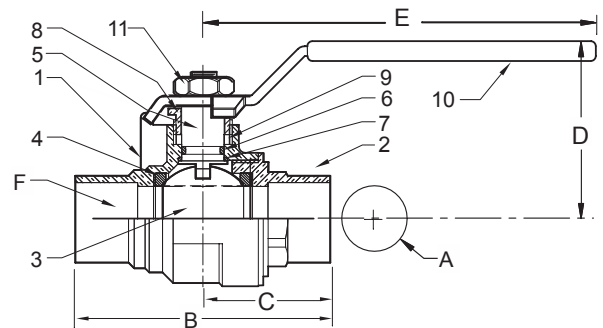
Tested and Certified  
by IAPMO R&T to  
NSF/ANSI 61 and  
NSF/ANSI 372 for  
Lead Free Compliance.

**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<br>C27450 |
| 2    | Tailpiece     | Brass, Forged          | B283<br>C27450 |
|      |               | Brass                  | B283<br>C27450 |
| 3    | Ball          | Brass w/Chrome Plating | B283<br>C27450 |
| 4    | Ball Seat     | PTFE                   | Commercial     |
| 5    | Stem          | Brass                  | B283<br>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   | 2.95 |
|    | 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  |

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**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"

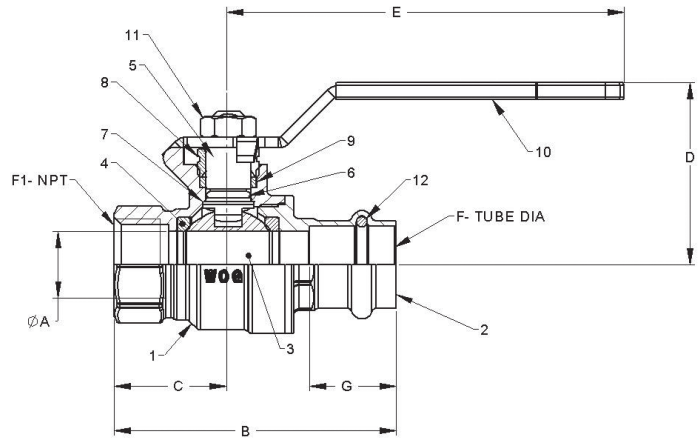


Tested and Certified  
by IAPMO R&T to  
NSF/ANSI 61 and  
NSF/ANSI 372 for  
Lead Free Compliance.

## MATERIALS LIST

| ITEM | PART          | MATERIALS               | ASTM SPEC.     |
|------|---------------|-------------------------|----------------|
| 1    | Body          | Brass, Forged           | B283<br>C27450 |
| 2    | Tailpiece     | Brass, Forged           | B283<br>C27450 |
| 3    | Ball          | Brass Chrome<br>Plating | B283<br>C27450 |
| 4    | Ball Seat     | PTFE                    | Commercial     |
| 5    | Stem          | Brass, Forged           | B283<br>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"<br>DN15 | 3/4"<br>DN20 | 1"<br>DN25 | 1-1/4"<br>DN32  | 1-1/2"<br>DN40  | 2"<br>DN50 |
|---------------|--------|--------------|--------------|------------|-----------------|-----------------|------------|
| A-PORT<br>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<br>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"-<br>11.5 | 1 1/2"-<br>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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**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"

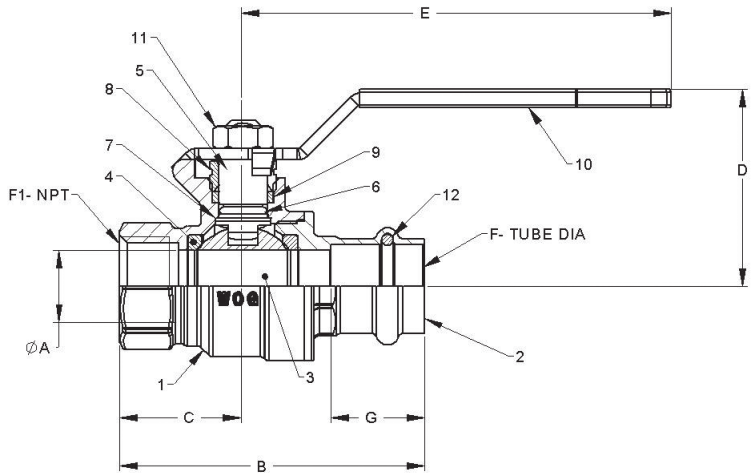


Tested and Certified  
by IAPMO R&T to  
NSF/ANSI 61 and  
NSF/ANSI 372 for  
Lead Free Compliance.

## 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"<br>DN15 | 3/4"<br>DN20 | 1"<br>DN25 | 1-1/4"<br>DN32 | 1-1/2"<br>DN40 | 2"<br>DN50 |
|---------------|--------|--------------|--------------|------------|----------------|----------------|------------|
| A-PORT<br>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<br>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 ≤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](http://www.p65warnings.ca.gov).





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



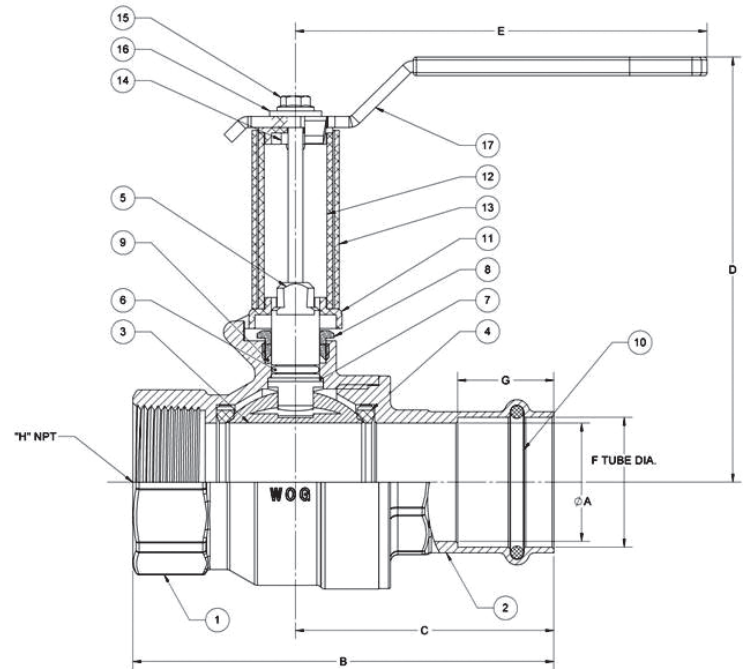
Tested and Certified  
by IAPMO R&T to  
NSF/ANSI 61 and  
NSF/ANSI 372 for  
Lead Free Compliance.

**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**

## 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"<br>DN15 | 3/4"<br>DN20 | 1"<br>DN25 | 1-1/4"<br>DN32 | 1-1/2"<br>DN40 | 2"<br>DN50 |
|-------------|---------------|--------------|--------------|------------|----------------|----------------|------------|
| A PORT<br>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<br>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<br>SIZE | 1/2" NPT     | 3/4" NPT     | 1" NPT     | 1 1/4<br>NPT   | 1 1/2"<br>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 ≤0.25%. Source: California Health and Safety Code (116875).

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



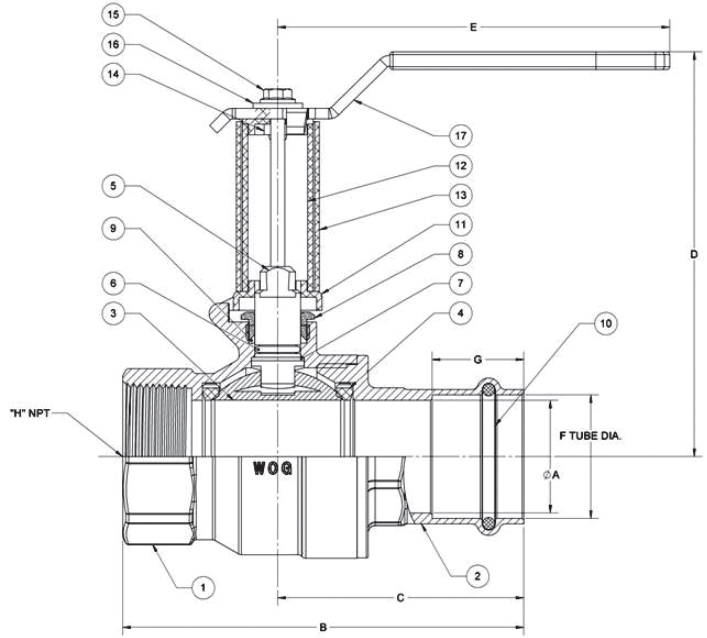
Tested and Certified  
by IAPMO R&T to  
NSF/ANSI 61 and  
NSF/ANSI 372 for  
Lead Free Compliance.

**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**

## 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"<br>DN15 | 3/4"<br>DN20 | 1"<br>DN25 | 1-1/4"<br>DN32 | 1-1/2"<br>DN40 | 2"<br>DN50 |
|-------------|--------|--------------|--------------|------------|----------------|----------------|------------|
| A-PORT<br>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<br>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 ≤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](http://www.p65warnings.ca.gov).



# UP645 1/4"-2"



**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

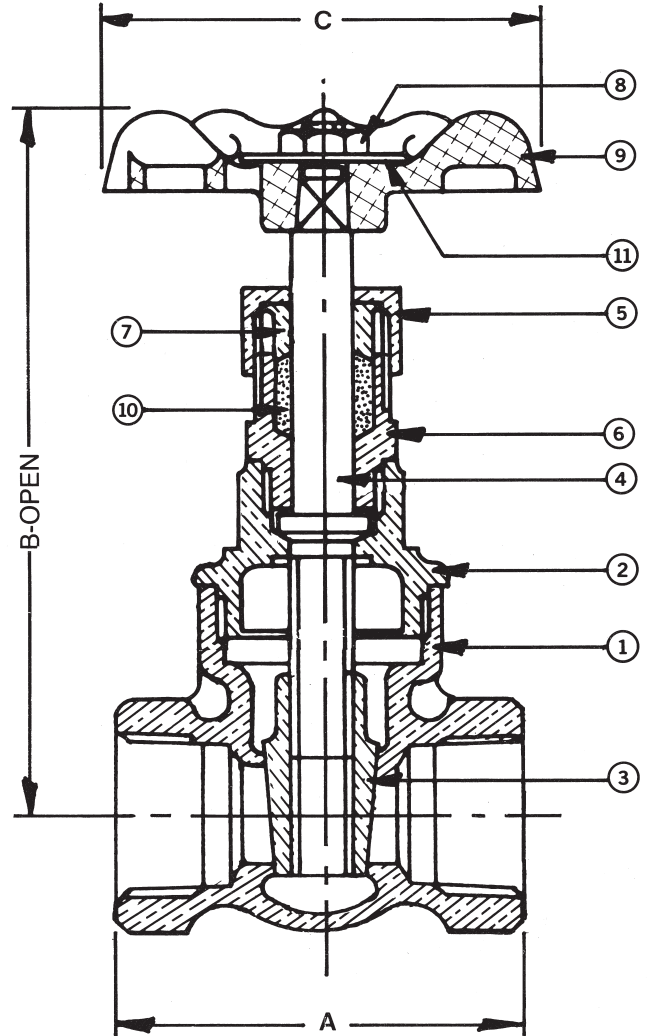
| ITEM | PART               | MATERIALS  | ASTM SPEC.      |
|------|--------------------|------------|-----------------|
| 1    | Body               | Bronze     | B584 C89833     |
| 2    | Bonnet             | Bronze     | B584 C89833     |
| 3    | Wedge              | Bronze     | B584 C89833     |
| 4    | Stem               | Brass      | B21 C46400, H02 |
| 5    | Stuff Nut          | Brass      | B283 C37700     |
| 6    | Check Nut          | Brass      | B283 C27450     |
| 7    | Gland <sup>1</sup> | 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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**HAMMONDVALVE**



# UP645 P2\* 1/2"-2"

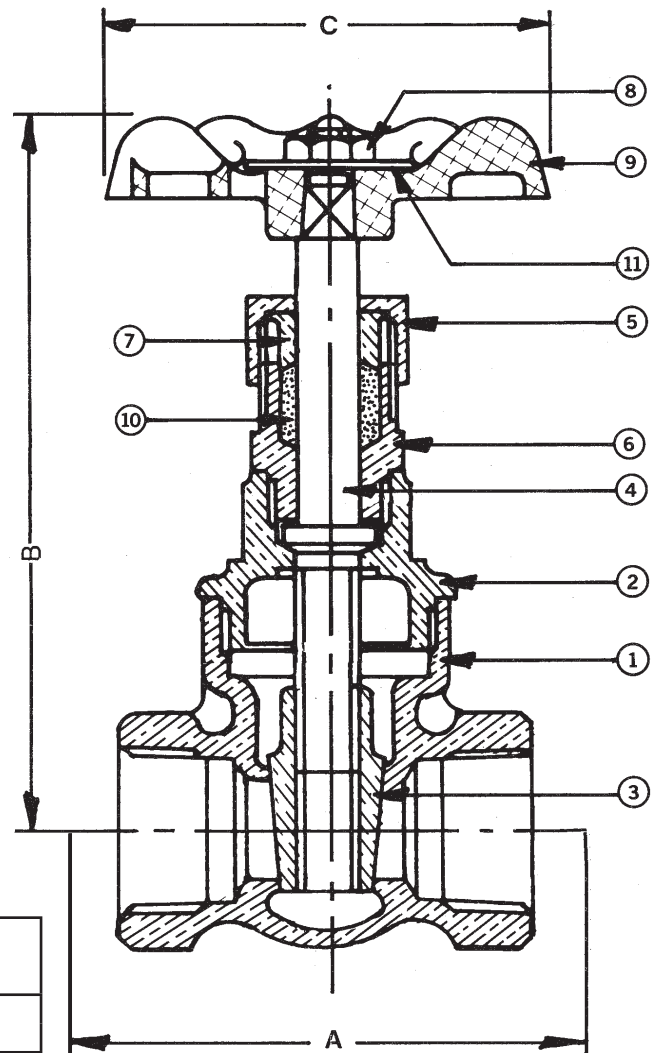
Bronze Gate Valve for Potable Water  
200 psig @ 250°F †  
Solid Wedge Disc • Non-Rising Stem  
Threaded Bonnet • Press Ends

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 <sup>1</sup> | 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"

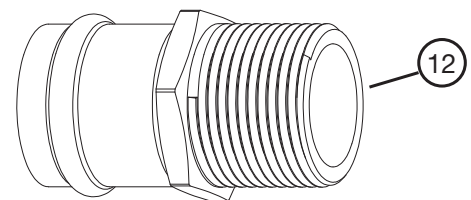


With Press Ends

## 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



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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# UP647 3/8"-2"



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

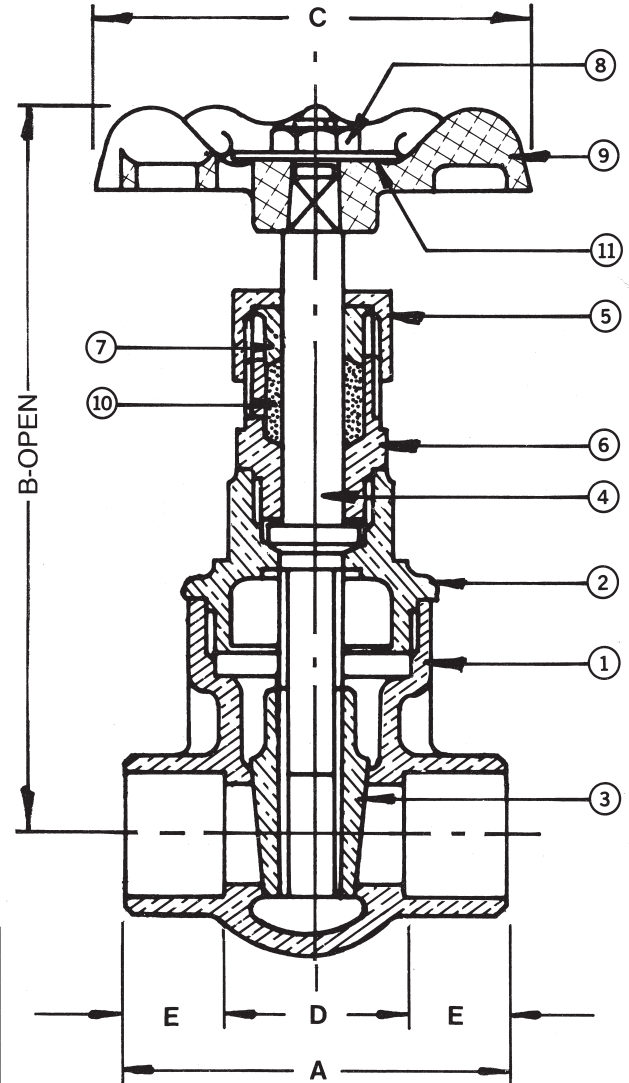
**Bronze Gate Valve for Potable Water**  
**300 psig WOG †**  
**Solid Wedge Disc • Non-Rising Stem**  
**Threaded Bonnet • Solder Ends**

**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 <sup>1</sup> | 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 ≤0.25%. Source: California Health and Safety Code (116875).

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**HAMMONDVALVE**



# UP640 1/4"-2"



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

**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

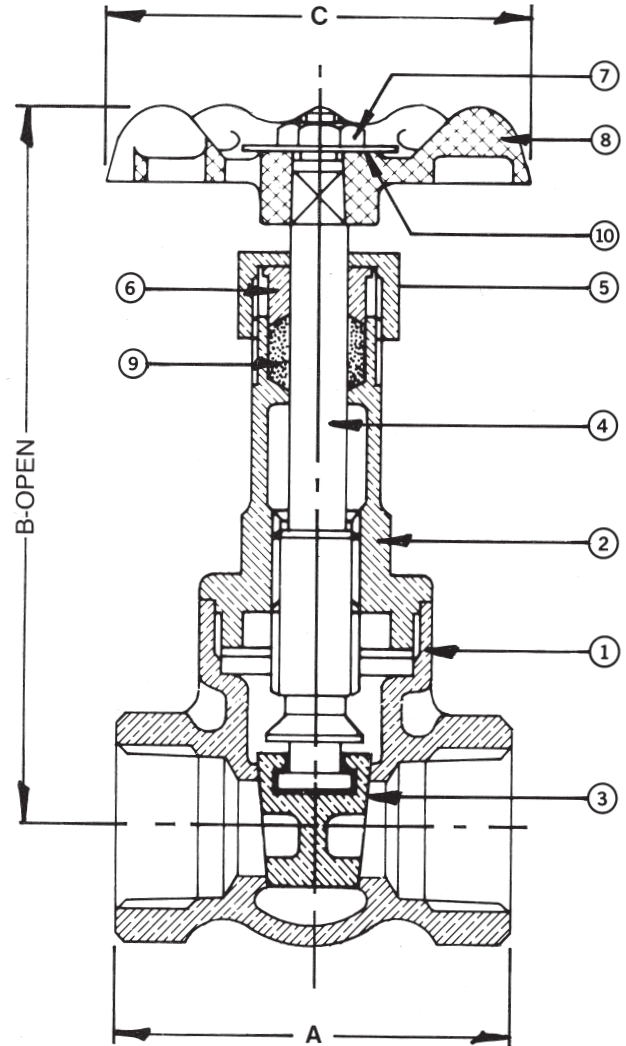
| ITEM | PART       | MATERIALS  | ASTM SPEC.      |
|------|------------|------------|-----------------|
| 1    | Body       | Bronze     | B584 C89833     |
| 2    | Bonnet     | Bronze     | B584 C89833     |
| 3    | Wedge      | Bronze     | B584 C89833     |
| 4    | Stem       | Brass      | B21 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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⚠ State of California Prop 65 **WARNING:** Cancer and Reproductive Harm. For more information visit [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov).



**HAMMONDVALVE**



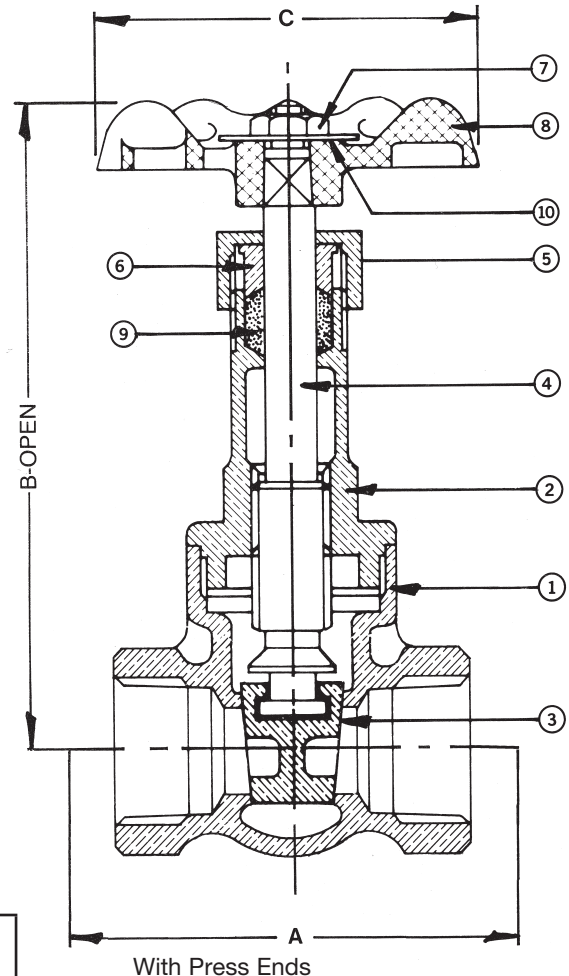
# UP640 P2\* 1/2"-2"

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

## 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 <sup>†</sup> | 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          |

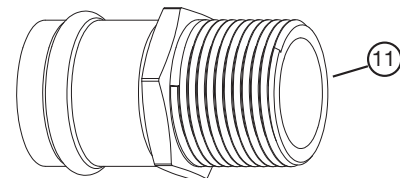
† Not used on 1/2"



## 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 <sup>1</sup> | Brass      | B283 C27450     |
| 7    | Wheel Nut          | Brass      | Commercial      |
| 8    | Handwheel          | Mall. Iron | Commercial      |
| 9    | Packing            | Graphite   | Commercial      |
| 10   | Name Plate         | Sh. Alum   | Commercial      |

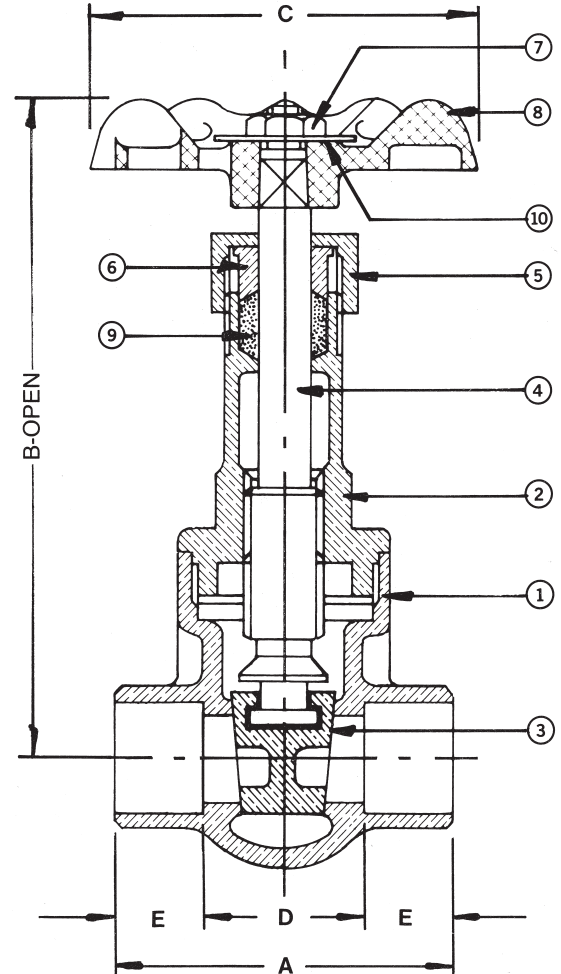
1 Not used on 1/2" and smaller

## DIMENSIONS - INCHES/MILLIMETERS

| Units        | Size  | A           | B            | C           | D          | E          | C <sub>v</sub> |
|--------------|-------|-------------|--------------|-------------|------------|------------|----------------|
| Inches<br>mm | 3/8   | 1.63<br>41  | 4.31<br>110  | 2.00<br>51  | 0.88<br>22 | 0.38<br>10 | 10.7           |
| Inches<br>mm | 1/2   | 1.88<br>48  | 4.31<br>110  | 2.00<br>51  | 0.88<br>22 | 0.50<br>13 | 17.6           |
| Inches<br>mm | 3/4   | 2.50<br>64  | 6.25<br>159  | 2.50<br>64  | 1.00<br>25 | 0.75<br>19 | 32.0           |
| Inches<br>mm | 1     | 3.00<br>76  | 7.00<br>178  | 2.75<br>70  | 1.19<br>30 | 0.91<br>23 | 54.0           |
| Inches<br>mm | 1 1/4 | 3.25<br>83  | 8.63<br>219  | 3.44<br>87  | 1.31<br>33 | 0.97<br>25 | 97.0           |
| Inches<br>mm | 1 1/2 | 3.63<br>92  | 9.50<br>241  | 3.75<br>95  | 1.44<br>37 | 1.09<br>28 | 135.0          |
| Inches<br>mm | 2     | 4.31<br>110 | 11.50<br>292 | 3.75<br>95  | 1.63<br>41 | 1.34<br>34 | 230.0          |
| Inches<br>mm | 2 1/2 | 4.81<br>122 | 14.31<br>364 | 4.75<br>121 | 1.88<br>48 | 1.47<br>37 | 337.0          |
| Inches<br>mm | 3     | 5.44<br>138 | 16.38<br>416 | 5.25<br>133 | 2.13<br>54 | 1.66<br>42 | 536.0          |
| Inches<br>mm | 4     | 7.25<br>184 | 15.50<br>394 | 5.25<br>133 | 2.93<br>75 | 2.16<br>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 ≤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](http://www.p65warnings.ca.gov).



**HAMMONDVALVE**

# UP667 & UP668 1/4"-2"



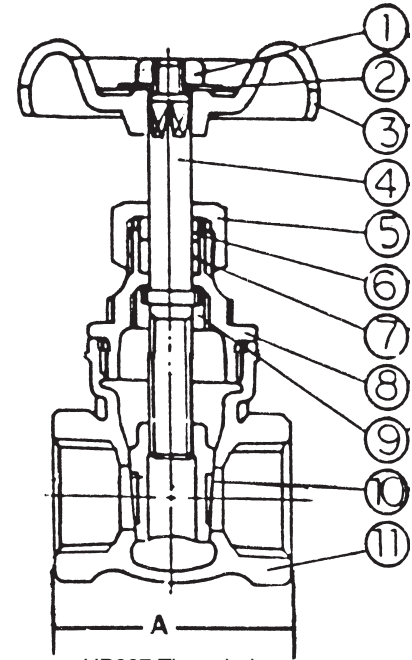
**Brass Gate Valve for Potable Water**  
**200 WOG**

**Threaded Bonnet**

**Threaded Ends (UP667) • Solder Ends (UP668)**

## MATERIALS LIST

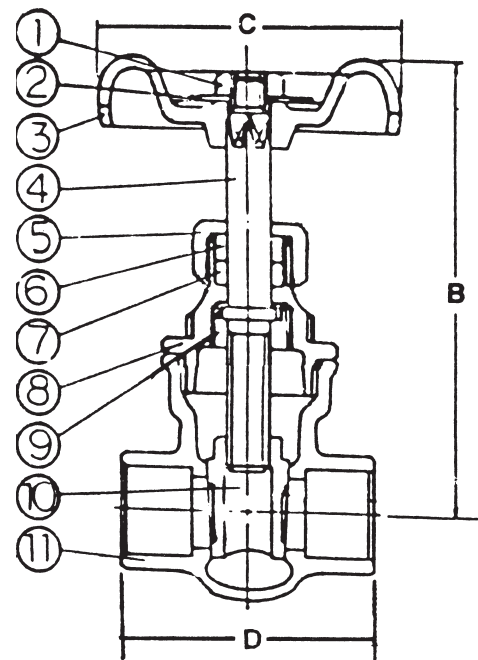
| ITEM | PART          | MATERIALS      | ASTM SPEC.    |
|------|---------------|----------------|---------------|
| 1    | Handwheel Nut | Brass          | B16 C36000    |
| 2    | Nameplate     | Aluminum Sheet | Commercial    |
| 3    | Handwheel     | Cast Iron      | A48, Class 35 |
| 4    | Stem          | 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

**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 1/8"-2"



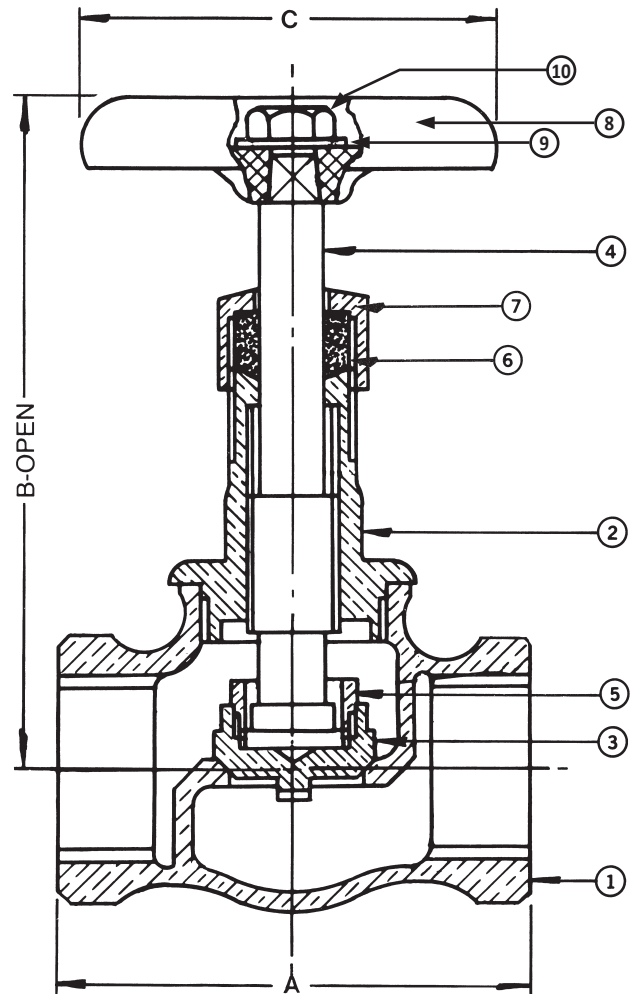
**Bronze Globe Valve For Potable Water**  
**300 psig WOG †**  
**Bronze Disc**

**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

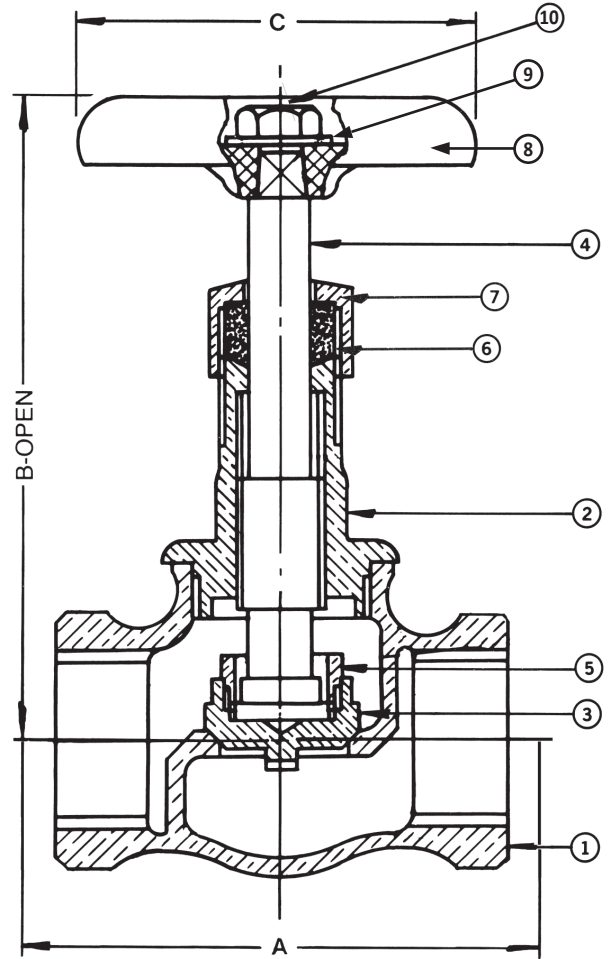
Threaded Bonnet • Press Ends

Dimensions and Workmanship Conform to MSS SP-80

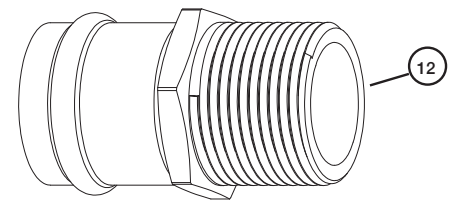
## MATERIALS LIST

| 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**

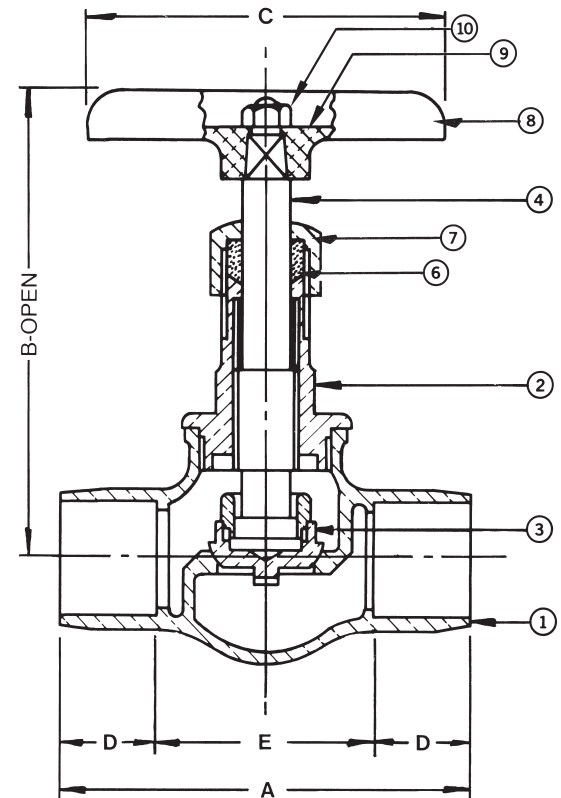
**Threaded Bonnet • Solder Ends**

**Dimensions and Workmanship Conform to MSS SP-80**

## 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      |

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



## 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 ≤0.25%. Source: California Health and Safety Code (116875).

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**HAMMONDVALVE**



# UP904 1/4"-3"



**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**

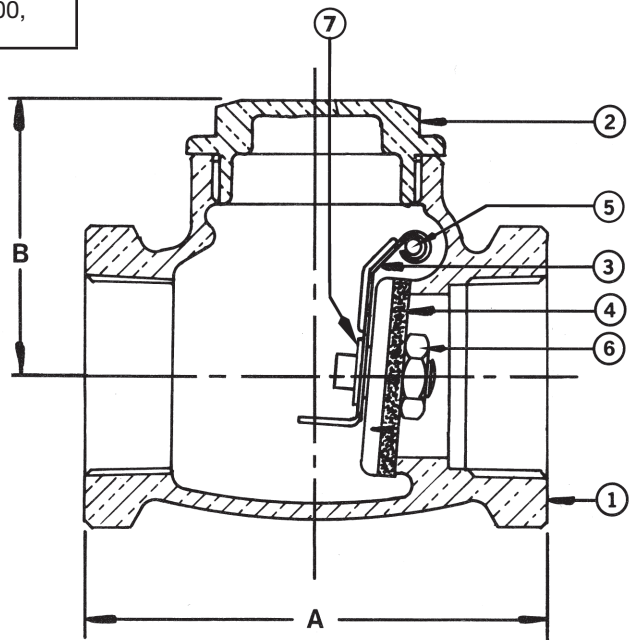
## MATERIALS LIST

| 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



**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](http://www.p65warnings.ca.gov).



**HAMMONDVALVE**



# UP904 P2\* 1/2"-2"

Bronze Check Valve For Potable Water

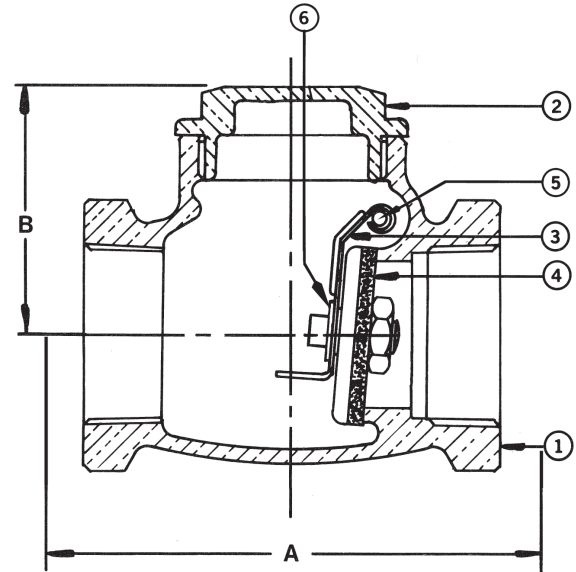
200 psig @ 250°F †

Horizontal Swing • Press Ends

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<br>1/2" to 2" Incl.        |
| 4    | Disc               | Brass                           | B21 C46400, H02<br>(1/2"-1 1/2") Incl. |
|      |                    | Bronze                          | B584 C89833 (2")                       |
| 5    | Pin                | Stainless Steel                 | A276 S30400<br>(1/2"-1")               |
|      |                    |                                 | A582 530300<br>(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/<br>EPDM O-Ring | ASTM B283<br>C27450                    |

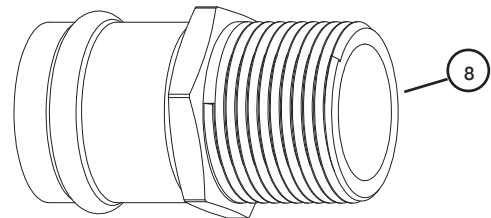


With Press Ends

## DIMENSIONS

| Units  | Size  | STD<br>INSERTION<br>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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# UP912 3/8"-3"



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

**Bronze Check Valve For Potable Water**  
**300 WOG† (3/8" - 2") 200 psig WOG †(2 1/2" -3")**

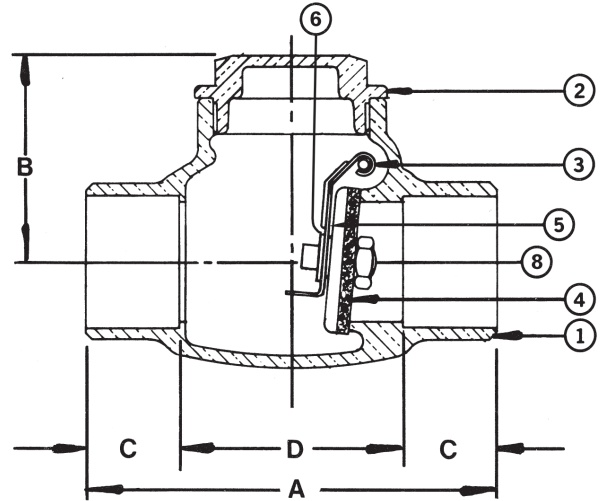
**Bronze Disc**

**Horizontal Swing • Solder Ends**

**Dimensions and Workmanship Conform to MSS SP-80**

## MATERIALS LIST

| ITEM | PART             | MATERIALS       | ASTM SPEC.   |
|------|------------------|-----------------|--|
| 1    | Body             | Bronze          | B584 C89833  |
| 2    | Cap              | Bronze          | B584 C89833  |
| 3    | Pin              | Stainless Steel | A276 S30400<br>(3/8" - 1")<br>A582 S30300<br>(1 1/4"-2") |
| 4    | Disc             | Brass           | B21 C46400,<br>H02                                       |
|      |                  | Bronze          | B584 C89833<br>(2"-3")                                   |
| 5    | Lever            | Stainless Steel | A276 S530200   |
| 6    | Retaining Ring   | Stainless Steel | A276 S530400   |
| 7    | Plug (not shown) | Brass           | B21 C46400,<br>H02                                       |
| 8    | Disc Nut         | Brass           | B21 C46400,<br>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  $\leq 0.25\%$ . Source: California Health and Safety Code (116875).

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**HAMMONDVALVE**



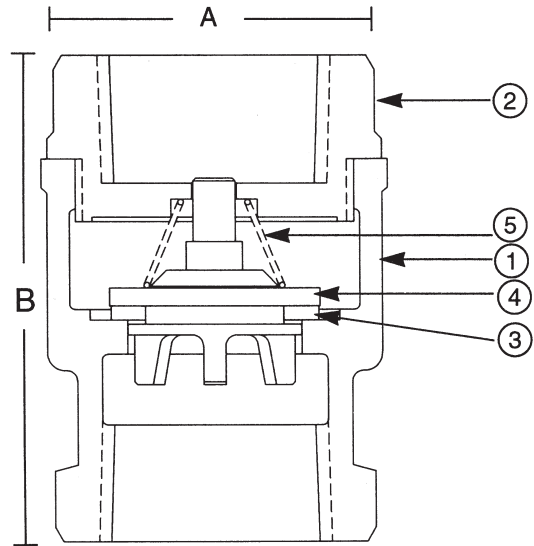
# UP943 3/8"-2"



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

## 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 |



## 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:** 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 ≤0.25%. Source: California Health and Safety Code (116875).

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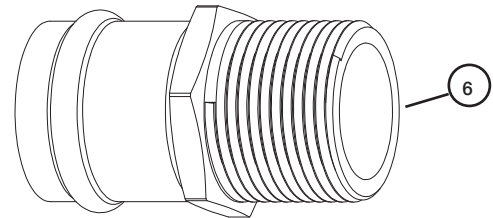
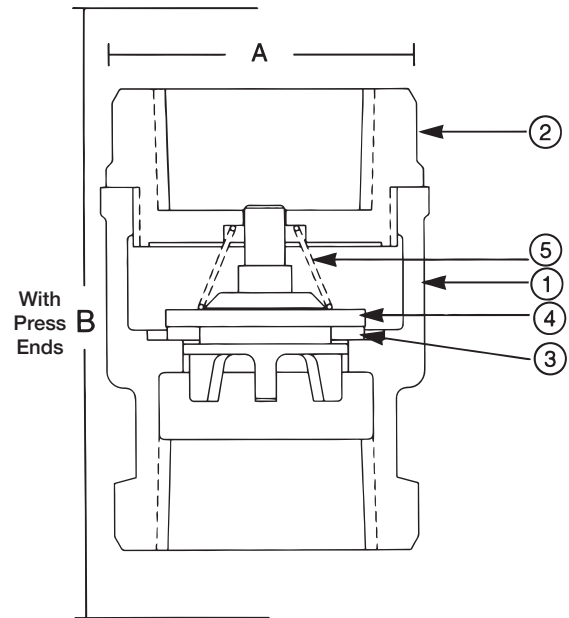


**Bronze Lift Check Valve For Potable Water**  
**200 psig @ 250°F †**  
**Spring Loaded • Press Ends**

# 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/<br>EPDM O-Ring | B283C27450  |



Press End Adapter (4151 Series)

## DIMENSIONS

| Units  | Size  | STD<br>INSERTION<br>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  $\leq 0.25\%$ . Source: California Health and Safety Code (116875).

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# UP947 3/8"-2"



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

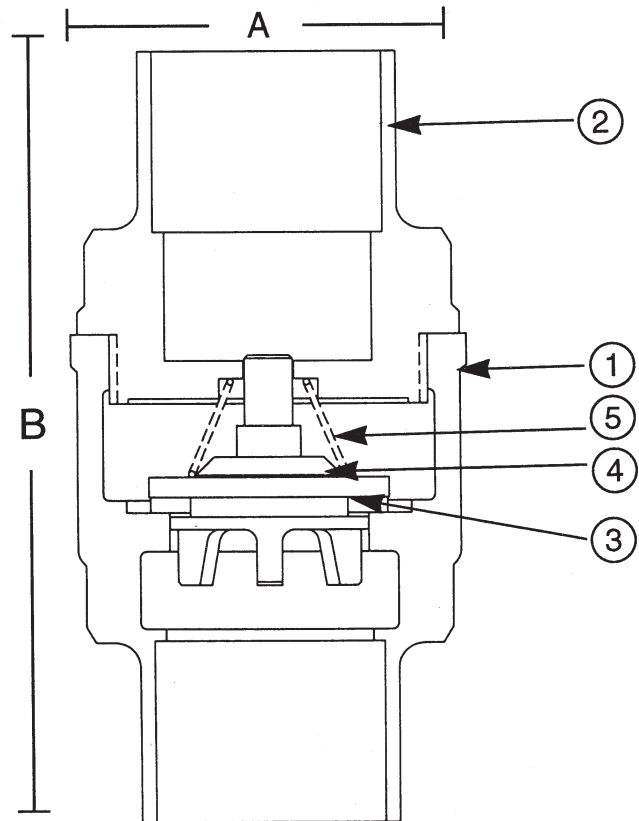
## MATERIALS LIST

| 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 ≤0.25%. Source: California Health and Safety Code (116875).

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# UP967 & UP968 $\frac{3}{8}$ "-3"

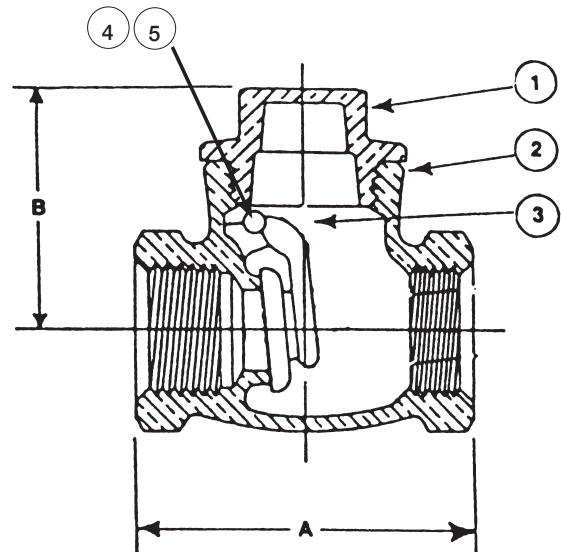


Tested and Certified  
by IAPMO R&T to  
NSF/ANSI 61 and  
NSF/ANSI 372 for  
Lead Free Compliance.

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  |



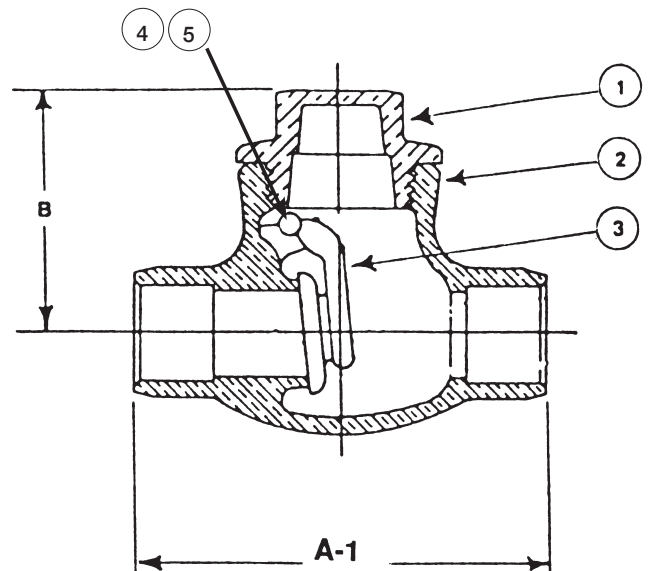
UP967 Threaded

## 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

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**HAMMONDVALVE**



# UP969\* 1/2"-2"

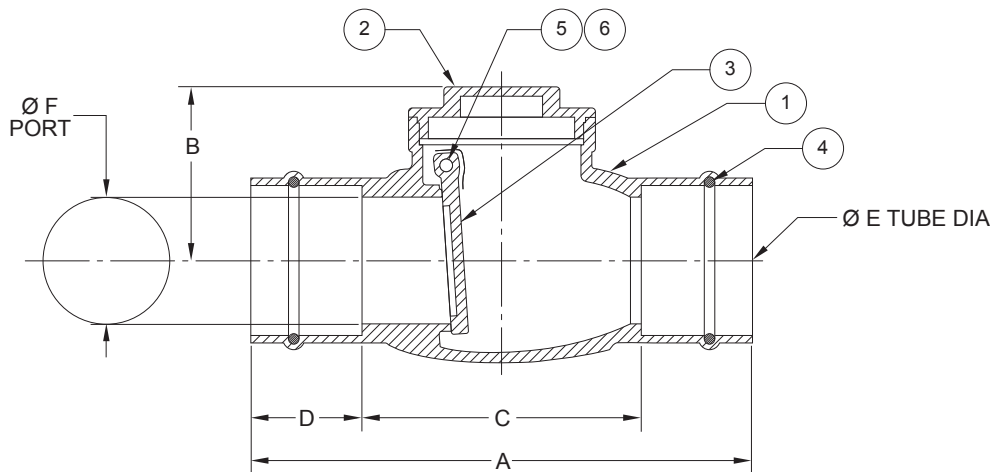


Tested and Certified by  
IAPMO R&T to NSF/ANSI 61  
and NSF/ANSI 372 for  
lead free compliance.

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

## MATERIAL LIST

| ITEM | PART      | MATERIAL        | SPECIFICATION |
|------|-----------|-----------------|---------------|
| 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    | CV  |
|--------|-------|------|------|------|------|------|------|-----|
| INCHES | 1/2   | 3.35 | 1.38 | 1.70 | 0.83 | 0.63 | 0.50 | 10  |
| mm     |       | 85   | 35   | 43   | 21   | 16   | 13   |     |
| INCHES | 3/4   | 3.74 | 1.43 | 1.75 | 0.99 | 0.88 | 0.75 | 18  |
| mm     |       | 95   | 36   | 45   | 25   | 23   | 19   |     |
| INCHES | 1     | 4.36 | 1.74 | 2.38 | 0.99 | 1.13 | 0.93 | 31  |
| mm     |       | 111  | 44   | 61   | 25   | 29   | 24   |     |
| INCHES | 1 1/4 | 4.97 | 1.99 | 2.92 | 1.02 | 1.38 | 1.24 | 54  |
| mm     |       | 126  | 51   | 74   | 26   | 35   | 32   |     |
| INCHES | 1 1/2 | 6.13 | 2.28 | 3.30 | 1.42 | 1.63 | 1.38 | 76  |
| mm     |       | 156  | 58   | 84   | 36   | 42   | 35   |     |
| INCHES | 2     | 7.16 | 2.48 | 3.99 | 1.59 | 2.13 | 1.81 | 131 |
| mm     |       | 182  | 63   | 101  | 40   | 54   | 46   |     |

\* 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.

† 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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# 5000 Series 2"-12"



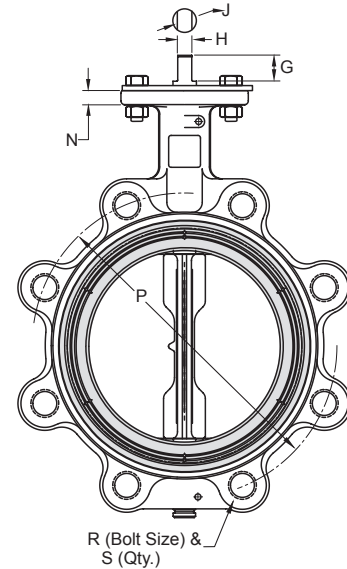
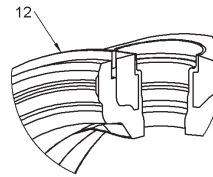
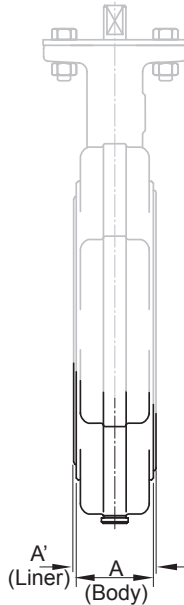
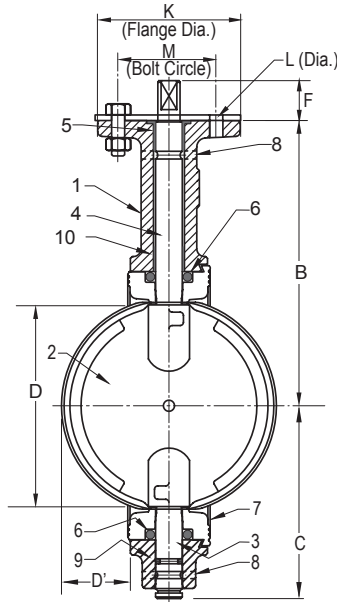
**Iron Butterfly Valve for Potable Water**

**Lug Style**

**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           | 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<br>GEAR OPERATOR |
| 12   | RETAINING RING | ST1066 SPRING STEEL (65Mn)    |

## DIMENSIONS

|                | VALVE SIZE   |        |        |        |        |        |        |        |       |       |
|----------------|--------------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
|                | INCHES<br>DN | 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' (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' (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       | 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    |
| L (Dia)        | 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   |
| M              | 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    |
| N              | 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   |
| P              | 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           | 4      | 4      | 4      | 8      | 8      | 8      | 8      | 12    | 12    |
| R              | INCHES       | 4      | 4      | 4      | 8      | 8      | 8      | 8      | 12    | 12    |
|                | mm           | 4      | 4      | 4      | 8      | 8      | 8      | 8      | 12    | 12    |
| S              | INCHES       | 4      | 4      | 4      | 8      | 8      | 8      | 8      | 12    | 12    |
|                | mm           | 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).

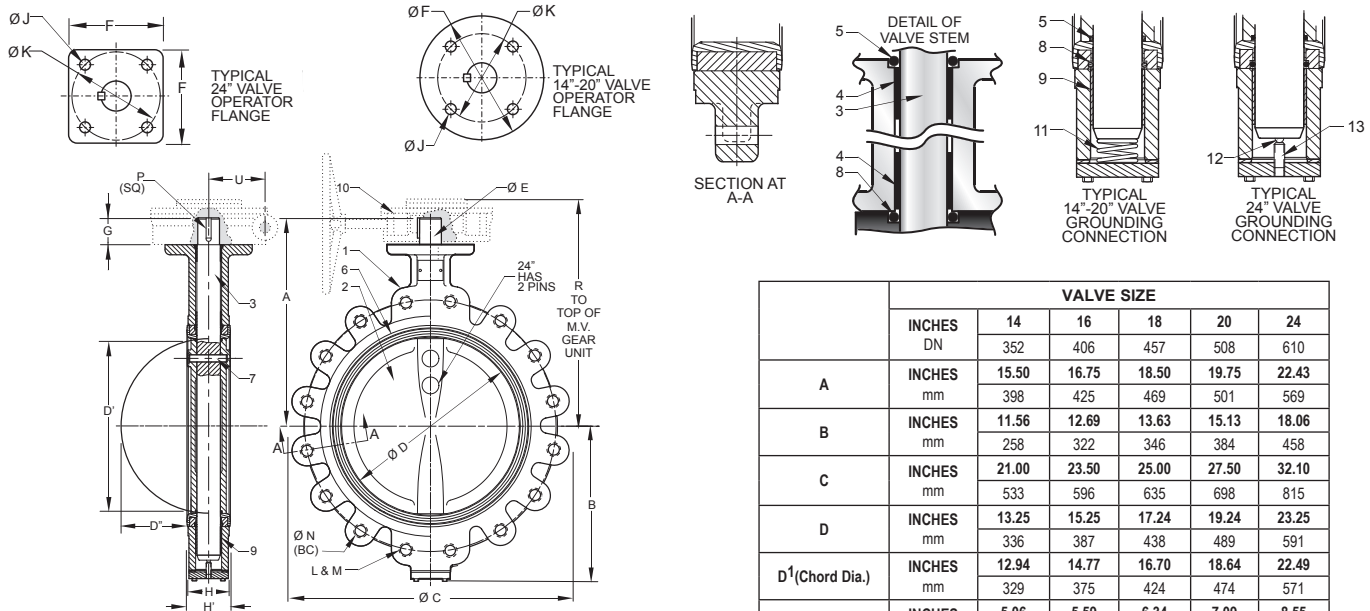
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⚠ State of California Prop 65 **WARNING:** Cancer and Reproductive Harm. For more information visit [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov).

# 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<br>14"-20"  | GROUNDING SPRING | STAINLESS STEEL TYPE 302  |
| 12<br>24" Only | GROUNDING BALL   | AISI 1022                 |
| 13<br>24" Only | TENSION SCREW    | AISI 1020                 |

\* Uni-directional

|                             | INCHES<br>DN | VALVE SIZE |       |         |         |         |
|-----------------------------|--------------|------------|-------|---------|---------|---------|
|                             |              | 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 <sup>1</sup> (Chord Dia.) | INCHES       | 12.94      | 14.77 | 16.70   | 18.64   | 22.49   |
|                             | mm           | 329        | 375   | 424     | 474     | 571     |
| D <sup>11</sup> (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 <sup>1</sup> (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 |
|                             |              |            |       |         |         |         |
| N                           | INCHES       | 18.75      | 21.25 | 22.75   | 25.00   | 29.50   |
|                             | mm           | 476        | 530   | 577     | 635     | 749     |
| P (Key Size)                | INCHES       | 0.38       | 0.38  | 0.50    | 0.50    | 0.50    |
|                             | mm           | 9          | 9     | 12      | 12      | 12      |
| R                           | INCHES       | 17.25      | 18.75 | 19.63   | 20.88   | 25.00   |
|                             | mm           | 438        | 476   | 458     | 530     | 635     |
| U                           | INCHES       | 3.13       | 3.13  | 4.50    | 4.50    | 4.63    |
|                             | 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  $\leq 0.25\%$ . Source: California Health and Safety Code (116875).

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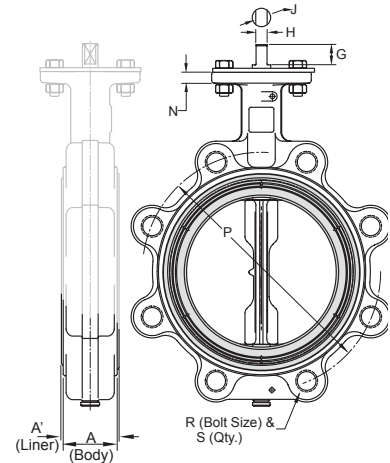
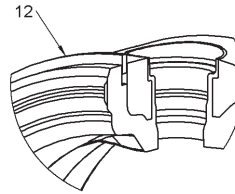
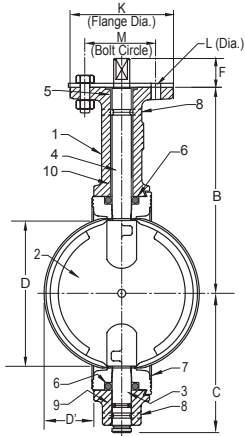
# 6411-00/6411-01/6411-03 2"-12"



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

**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 | ACTUATOR-ELECTRIC              |
|      |                | 1066 SPRING STEEL (65Mn)       |

## DIMENSIONS

|                            |        | VALVE SIZE |        |        |        |        |        |        |        |       |       |
|----------------------------|--------|------------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
|                            |        | INCHES     | 2      | 2-1/2  | 3      | 4      | 5      | 6      | 8      | 10    | 12    |
| A (Body)                   | INCHES | DN         | 50     | 65     | 80     | 100    | 125    | 150    | 200    | 250   | 300   |
|                            | INCHES | mm         | 1.69   | 1.81   | 1.81   | 2.07   | 2.19   | 2.19   | 2.38   | 2.69  | 3.06  |
| A <sup>1</sup> (Body)      | INCHES | mm         | 43     | 46     | 46     | 52     | 55     | 55     | 60     | 68    | 78    |
|                            | INCHES | mm         | 1.82   | 1.94   | 1.94   | 2.20   | 2.32   | 2.32   | 2.51   | 2.82  | 3.21  |
| B                          | INCHES | mm         | 46     | 49     | 49     | 55     | 58     | 58     | 63     | 71    | 82    |
|                            | INCHES | mm         | 5.50   | 6.00   | 6.25   | 7.00   | 7.53   | 8.00   | 9.38   | 10.56 | 12.06 |
| C                          | INCHES | mm         | 139    | 152    | 158    | 177    | 191    | 203    | 238    | 268   | 306   |
|                            | INCHES | mm         | 3.06   | 3.31   | 3.75   | 4.25   | 4.94   | 5.56   | 5.56   | 7.88  | 9.25  |
| D (Chord Dia)              | INCHES | mm         | 77     | 84     | 95     | 108    | 125    | 141    | 166    | 200   | 235   |
|                            | INCHES | mm         | 1.49   | 2.01   | 2.64   | 3.67   | 4.71   | 5.66   | 7.72   | 9.70  | 11.68 |
| D <sup>1</sup> (Intrusion) | INCHES | mm         | 37     | 51     | 67     | 93     | 119    | 143    | 196    | 246   | 296   |
|                            | INCHES | mm         | 0.28   | 0.44   | 0.69   | 1.06   | 1.50   | 1.94   | 2.84   | 3.69  | 4.50  |
| F                          | INCHES | mm         | 7      | 11     | 17     | 27     | 38     | 49     | 72     | 93    | 114   |
|                            | INCHES | mm         | 1.13   | 1.13   | 1.13   | 1.13   | 1.13   | 1.13   | 1.50   | 1.50  | 1.50  |
| G                          | INCHES | mm         | 28     | 28     | 28     | 28     | 28     | 28     | 38     | 38    | 38    |
|                            | INCHES | mm         | 0.81   | 0.81   | 0.81   | 0.81   | 0.81   | 0.81   | 1.06   | 1.06  | 1.06  |
| H                          | INCHES | mm         | 20     | 20     | 20     | 20     | 20     | 20     | 27     | 27    | 27    |
|                            | INCHES | mm         | 0.35   | 0.35   | 0.35   | 0.40   | 0.40   | 0.44   | 0.53   | 0.71  | 0.71  |
| J                          | INCHES | mm         | 8      | 8      | 8      | 10     | 10     | 11     | 13     | 18    | 18    |
|                            | INCHES | mm         | 0.50   | 0.50   | 0.50   | 0.56   | 0.56   | 0.62   | 0.75   | 1.00  | 1.00  |
| K                          | INCHES | mm         | 12     | 12     | 12     | 14     | 14     | 14     | 19     | 25    | 25    |
|                            | INCHES | mm         | 4      | 4      | 4      | 4      | 4      | 4      | 6      | 6     | 6     |
| L (Dia)                    | INCHES | mm         | 0.44   | 0.44   | 0.44   | 0.44   | 0.44   | 0.44   | 0.56   | 0.56  | 0.56  |
|                            | INCHES | mm         | 11     | 11     | 11     | 11     | 11     | 11     | 14     | 14    | 14    |
| M                          | INCHES | mm         | 3.25   | 3.25   | 3.25   | 3.25   | 3.25   | 3.25   | 5.00   | 5.00  | 5.00  |
|                            | INCHES | mm         | 82     | 82     | 82     | 82     | 82     | 82     | 127    | 127   | 127   |
| N                          | INCHES | mm         | 0.44   | 0.44   | 0.44   | 0.44   | 0.44   | 0.44   | 0.50   | 0.50  | 0.50  |
|                            | INCHES | mm         | 11     | 11     | 11     | 11     | 11     | 11     | 12     | 12    | 12    |
| P                          | INCHES | mm         | 4.75   | 5.50   | 6.00   | 7.50   | 8.50   | 9.50   | 11.75  | 14.25 | 17.00 |
|                            | INCHES | mm         | 120    | 139    | 152    | 190    | 215    | 241    | 298    | 362   | 431   |
| R                          | INCHES | mm         | 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 |
|                            | INCHES | mm         | 4      | 4      | 4      | 8      | 8      | 8      | 8      | 12    | 12    |
| S                          | INCHES | mm         | 4      | 4      | 4      | 8      | 8      | 8      | 8      | 12    | 12    |
|                            | INCHES | mm         | 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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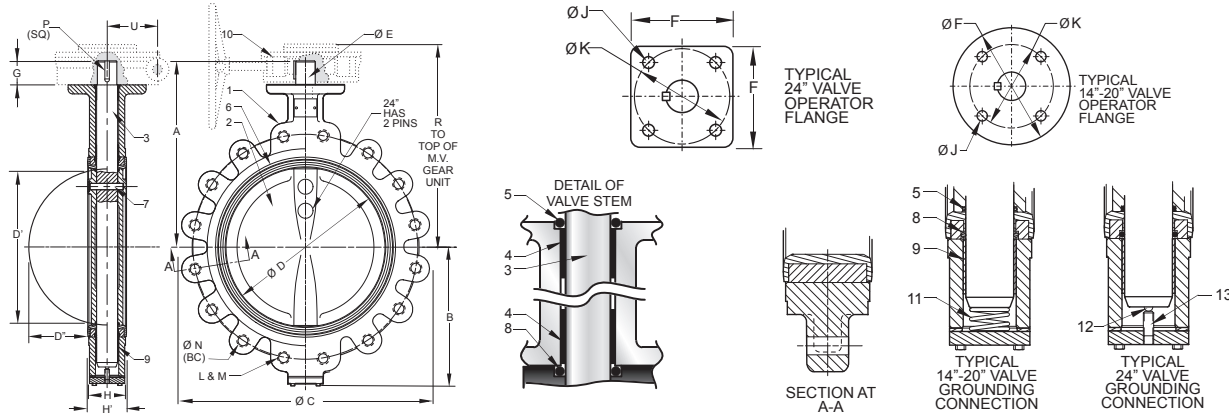


**HAMMONDVALVE**



**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"**



**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<br>GEAR OPERATOR WITH MEMORY STOP<br>GEAR OPERATOR WITH LOCK<br>ACTUATOR-AIR/AIR (1)<br>ACTUATOR-AIR/SPRING (1)<br>ACTUATOR-ELECTRIC (1) |
| 11<br>14"-20"  | GROUNDING SPRING | STAINLESS STEEL TYPE 302   |
| 12<br>24" Only | GROUNDING BALL   | AISI-1022  |
| 13<br>24" Only | TENSION SCREW    | AISI-1020  |

(1) - Consult Automation Department  
 \* Uni-directional

**DIMENSIONS**

|                             |              | VALVE SIZE   |           |           |           |           |
|-----------------------------|--------------|--------------|-----------|-----------|-----------|-----------|
|                             |              | INCHES<br>DN | 14<br>352 | 16<br>406 | 18<br>457 | 20<br>508 |
| 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 <sup>1</sup> (Chord Dia.) | INCHES       | 12.94        | 14.77     | 16.70     | 18.64     | 22.49     |
|                             | mm           | 329          | 375       | 424       | 474       | 571       |
| D <sup>11</sup> (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 <sup>1</sup> (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   |
| N                           | INCHES       | 18.75        | 21.25     | 22.75     | 25.00     | 29.50     |
|                             | mm           | 476          | 530       | 577       | 635       | 749       |
| P (Key Size)                | INCHES       | 0.38         | 0.38      | 0.50      | 0.50      | 0.50      |
|                             | mm           | 9            | 9         | 12        | 12        | 12        |
| R                           | INCHES       | 17.25        | 18.75     | 19.63     | 20.88     | 25.00     |
|                             | mm           | 438          | 475       | 458       | 530       | 635       |
| U                           | INCHES       | 3.13         | 3.13      | 4.50      | 4.50      | 4.63      |
|                             | 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  $\leq 0.25\%$ . 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](http://www.p65warnings.ca.gov).

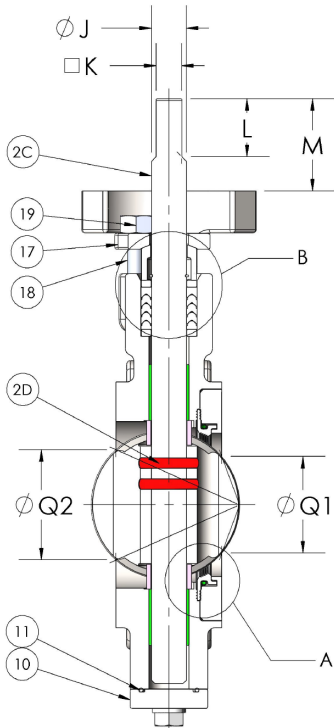


**HAMMONDVALVE**

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

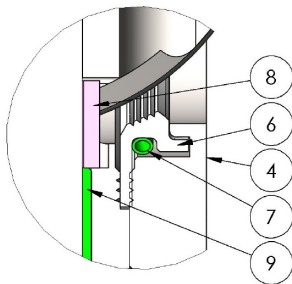


Certified by IAPMO R&T to  
NSF/ANSI 61 and NSF/ANSI  
372 for low lead requirements

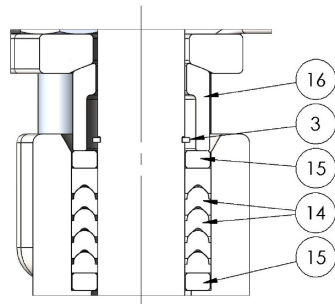


| 2 1/2" - 8" 150 LB LUG WITH HANDLE |                       |                               |                    |
|------------------------------------|-----------------------|-------------------------------|--------------------|
| ITEM NO.                           | PARTS NAME            | MATERIAL                      | 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

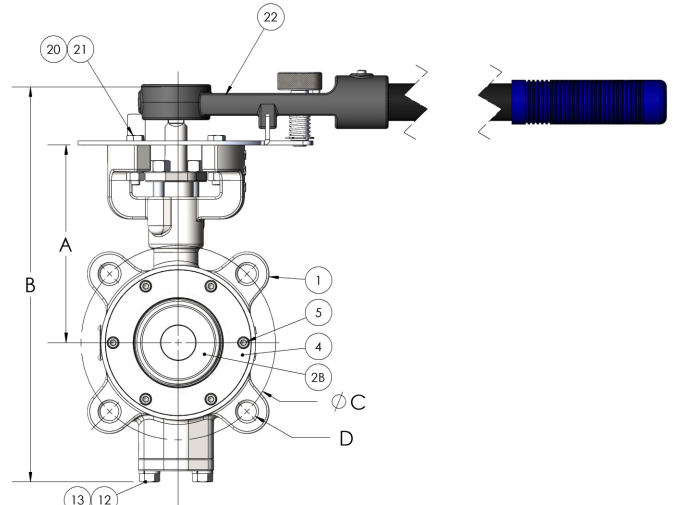
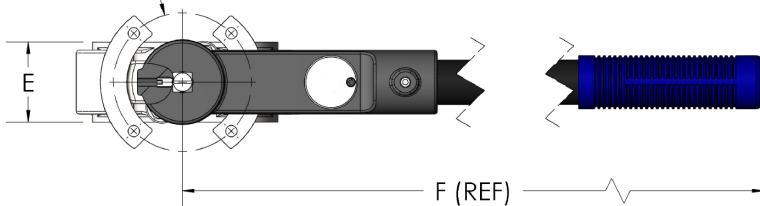


DETAIL A



DETAIL B

(4x) H "B.C."



2.5" CLASS 150 HP LUG SHOWN

| 2.5" - 8" 150 LB LUG WITH HANDLE |                  |            |         |         |            |          |       |           |                 |            |            |      |            |            |           |      |        |
|----------------------------------|------------------|------------|---------|---------|------------|----------|-------|-----------|-----------------|------------|------------|------|------------|------------|-----------|------|--------|
|                                  | VALVE DIMENSIONS |            |         |         |            |          |       | TOP WORKS | STEM CONNECTION |            |            |      |            |            | CORE DIMS |      | Bolt Ø |
| VALVE SIZE                       | "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             | 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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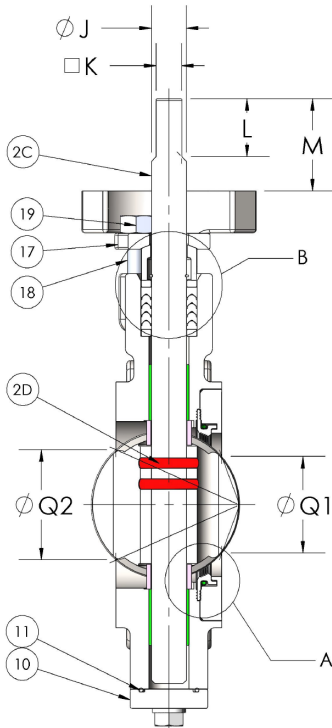
⚠ State of California Prop 65 **WARNING:** Cancer and Reproductive Harm. For more information visit [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov).



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

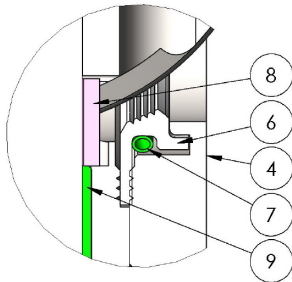


Certified by IAPMO R&T to  
NSF/ANSI 61 and NSF/ANSI  
372 for low lead requirements

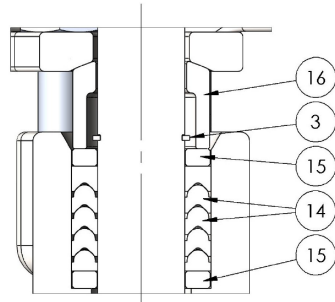


| 2 1/2" - 6" 300 LB LUG WITH HANDLE |                       |                               |                    |
|------------------------------------|-----------------------|-------------------------------|--------------------|
| ITEM NO.                           | PARTS NAME            | MATERIAL                      | 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

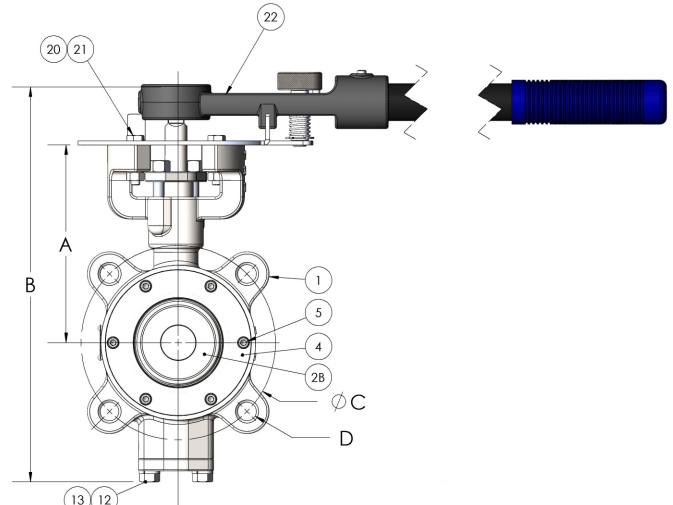
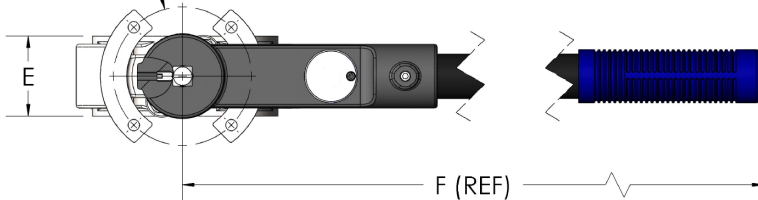


DETAIL A



DETAIL B

(4x) H "B.C."



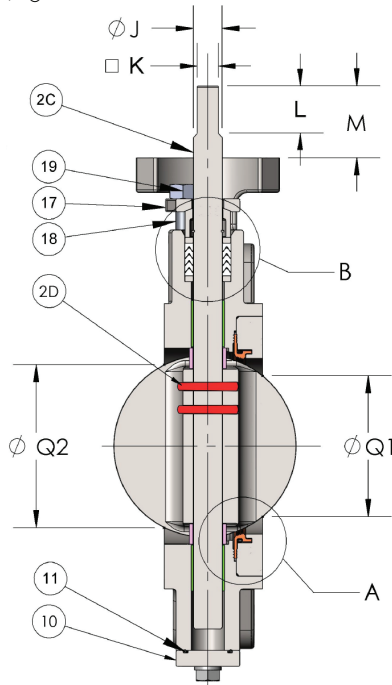
2.5" CLASS 150 HP LUG SHOWN

| 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" Ø STEM      | "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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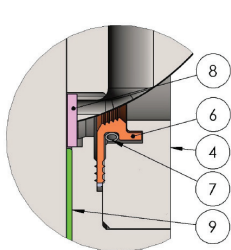
⚠ State of California Prop 65 **WARNING:** Cancer and Reproductive Harm. For more information visit [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov).

# HP1LSS4213 Lug 2 1/2" - 10" with Gear Class 150

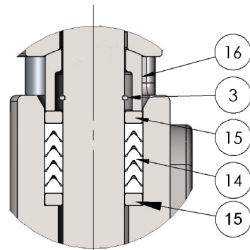


VALVE SHOWN OPEN

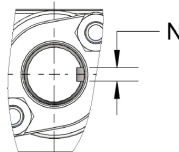
| 2 1/2" - 10" 150 LB LUG WITH GEAR |                       |                               |                    |
|-----------------------------------|-----------------------|-------------------------------|--------------------|
| ITEM NO.                          | PARTS NAME            | MATERIAL                      | SPECIFICATION      |
| 1                                 | BODY                  | STAINLESS STEEL               | ASTM A351 GR. CF8M |
| 2                                 | STEM & DISC ASSEMBLY  |                               |                    |
|                                   | 2B. DISC              | STAINLESS STEEL               | ASTM A351 GR. CF8M |
|                                   | 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 194 GR. 8M    |
| 20                                | SOCKET HEAD CAP SCREW | STAINLESS STEEL               | ASTM A193 GR. B8M  |
| 21                                | SPLIT LOCKWASHER      | STAINLESS STEEL               | COMMERCIAL         |
| 22                                | MOUNTING PLATE        | STAINLESS STEEL               | COMMERCIAL         |
| 23                                | GEAR OPERATOR         |                               |                    |



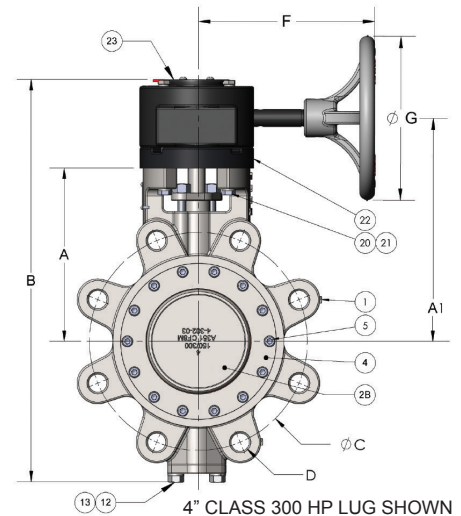
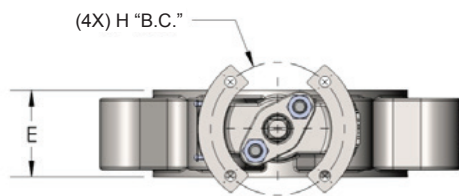
DETAIL A



DETAIL B



8" KEY DETAIL



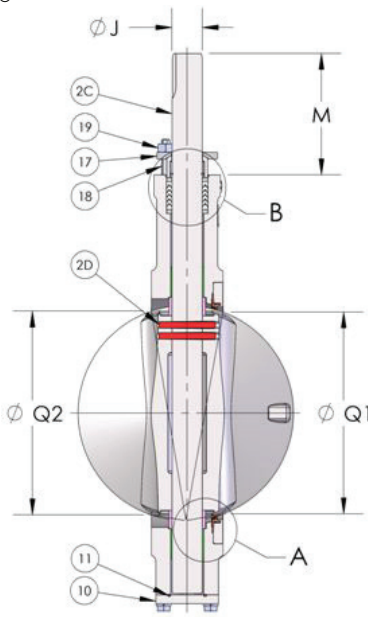
4" CLASS 300 HP LUG SHOWN

| 2 1/2" - 10" 150 LB LUG WITH GEAR |                  |             |            |          |         |            |          |      |           |           |                 |            |            |      |            |            |            |      |        |
|-----------------------------------|------------------|-------------|------------|----------|---------|------------|----------|------|-----------|-----------|-----------------|------------|------------|------|------------|------------|------------|------|--------|
|                                   | VALVE DIMENSIONS |             |            |          |         |            |          |      | HANDWHEEL | TOP WORKS | STEM CONNECTION |            |            |      |            |            | CHORD DIMS |      | BOLT Ø |
| VALVE SIZE                        | "A" HEIGHT       | "A1" HEIGHT | "B" HEIGHT | "C" B.C. | "D" TAP | # OF HOLES | "E" FACE | "F"  | "G" DIA   | "H" B.C.  | "J" ØSTEM       | "K" SQUARE | "L" LENGTH | "L2" | "M" LENGTH | "N" KEYWAY | ØQ1        | ØQ2  |        |
| 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   |
| 10" 150                           | 10.54            | 13.04       | 23.15      | 14.25    | 7/8-9   | 12         | 2.81     | 7.93 | 12        | 4.75      | 1.12            | N/A        | N/A        | 1.50 | 1.81       | 0.25       | 9.30       | 9.38 | 0.56   |

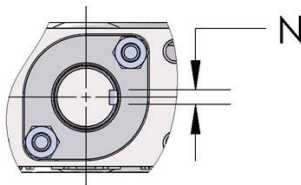
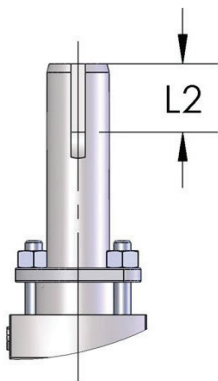
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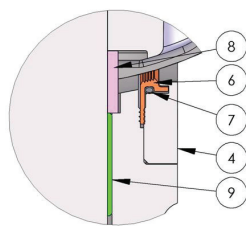
# HP1LSS4213 Lug 12"- 24" with Gear Class 150



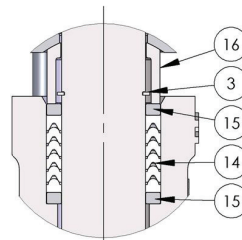
VALVE SHOWN OPEN



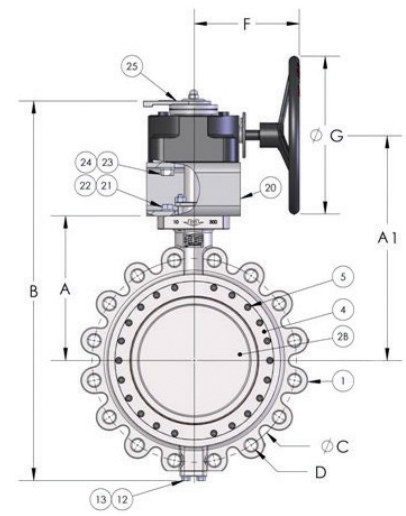
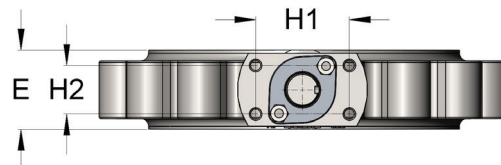
| 12" - 24" 150 LB LUG WITH GEAR |                       |                               |                    |
|--------------------------------|-----------------------|-------------------------------|--------------------|
| ITEM NO.                       | PARTS NAME            | MATERIAL                      | SPECIFICATION      |
| 1                              | BODY                  | STAINLESS STEEL               | ASTM A351 GR. CF8M |
| 2                              | STEM & DISC ASSEMBLY  |                               |                    |
|                                | 2B. DISC              | STAINLESS STEEL               | ASTM A351 GR. CF8M |
|                                | 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 194 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" 300 LUG SHOWN

| 12" - 24" 150 LB LUG WITH GEAR |                  |             |            |         |         |            |          |       |           |           |      |                 |             |            |      |            |       |        |
|--------------------------------|------------------|-------------|------------|---------|---------|------------|----------|-------|-----------|-----------|------|-----------------|-------------|------------|------|------------|-------|--------|
|                                | VALVE DIMENSIONS |             |            |         |         |            |          |       | HANDWHEEL | TOP WORKS |      | STEM CONNECTION |             |            |      | CHORD DIMS |       | BOLT Ø |
| VALVE SIZE                     | "A" HEIGHT       | "A1" HEIGHT | "B" HEIGHT | "C" B.C | "D" TAP | # OF HOLES | "E" FACE | "F"   | "G" DIA   | "H1"      | "H2" | "J" ØSTEM       | "L2" LENGTH | "M" LENGTH | "N"  | ØQ1        | ØQ2   |        |
| 12"                            | 11.62            | 17.67       | 30.40      | 17.00   | 7/8-9   | 12         | 3.19     | 7.85  | 12        | 3.88      | 2.00 | 1.37            | 1.50        | 5.51       | 0.31 | 10.36      | 10.48 |        |
| 14"                            | 12.00            | 18.36       | 31.74      | 18.75   | 1-8     | 12         | 3.63     | 8.36  | 12        | 4.50      | 2.00 | 1.50            | 1.50        | 5.50       | 0.38 | 11.69      | 11.76 |        |
| 16"                            | 14.00            | 20.11       | 35.96      | 21.25   | 1-8     | 16         | 4.00     | 10.96 | 20        | 5.75      | 2.50 | 2.00            | 2.38        | 6.02       | 0.50 | 13.65      | 13.72 |        |
| 18"                            | 15.00            | 21.09       | 38.12      | 22.75   | 1-1/8-8 | 16         | 4.47     | 11.95 | 20        | 5.75      | 2.50 | 2.25            | 2.38        | 6.02       | 0.50 | 15.65      | 15.72 |        |
| 20"                            | 17.00            | 24.19       | 40.03      | 25.00   | 1-1/8-8 | 20         | 5.00     | 16.54 | 16        | 5.75      | 2.50 | 2.50            | 2.38        | 6.48       | 0.63 | 17.57      | 17.64 |        |
| 24"                            | 19.50            | 25.69       | 49.30      | 29.50   | 1-1/4-8 | 20         | 6.06     | 16.54 | 16        | 6.00      | 4.00 | 3.00            | 2.50        | 6.52       | 0.75 | 20.38      | 20.46 |        |

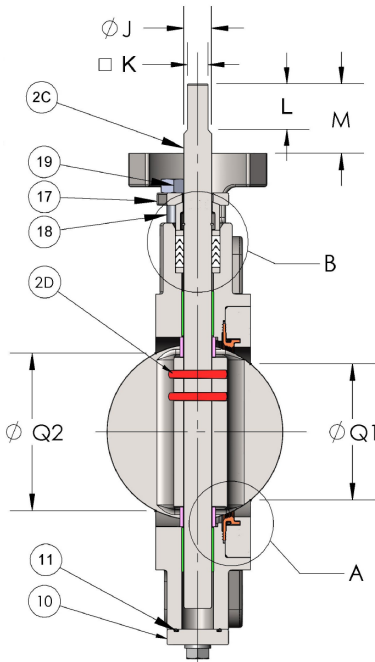
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⚠ State of California Prop 65 **WARNING:** Cancer and Reproductive Harm. For more information visit [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov)

# HP3LSS4213 Lug 2 1/2" - 8" with Gear Class 300

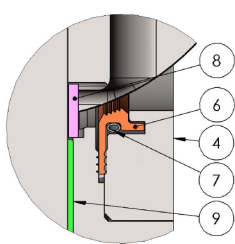


Certified by IAPMO R&T to NSF/ANSI 61 and NSF/ANSI 372 for low lead requirements

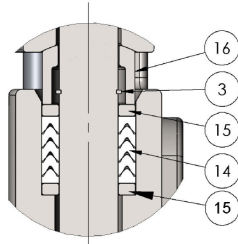


VALVE SHOWN OPEN

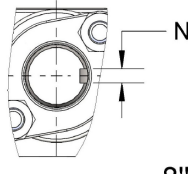
| 2 1/2" - 8" 300 LB LUG WITH GEAR |                       |                               |                    |
|----------------------------------|-----------------------|-------------------------------|--------------------|
| ITEM NO.                         | PARTS NAME            | MATERIAL                      | SPECIFICATION      |
| 1                                | BODY                  | STAINLESS STEEL               | ASTM A351 GR. CF8M |
| 2                                | STEM & DISC ASSEMBLY  |                               |                    |
|                                  | 2B. DISC              | STAINLESS STEEL               | ASTM A351 GR. CF8M |
|                                  | 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         |



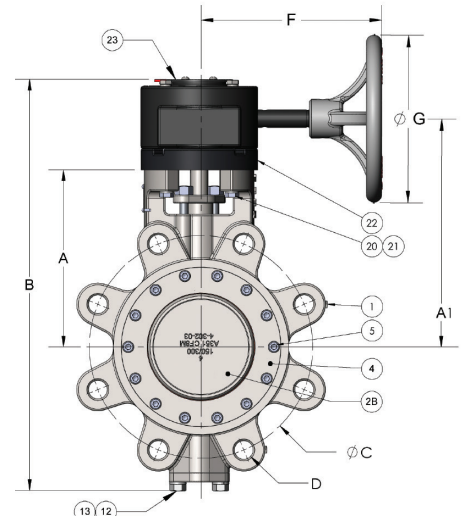
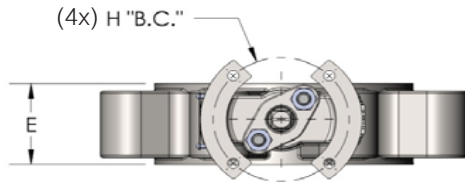
DETAIL A



DETAIL B



8" KEY DETAIL



4" CLASS 300 HP LUG SHOWN

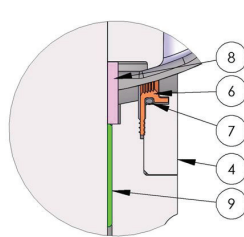
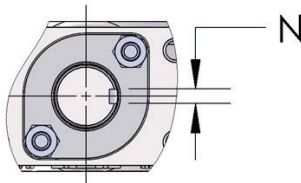
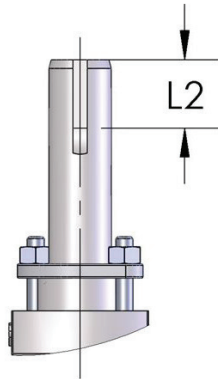
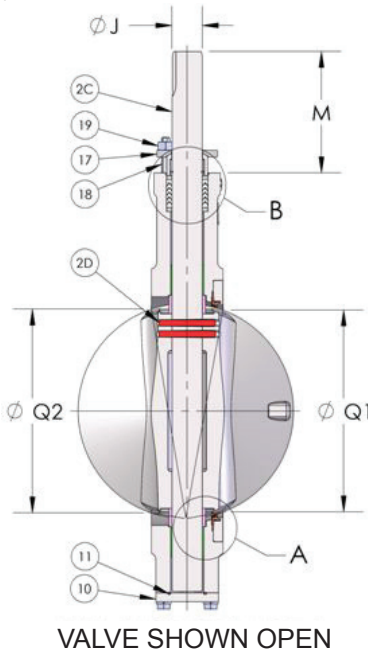
| 2.5" - 8" 300 LB LUG WITH GEAR |            |             |            |          |         |            |          |      |         |                 |           |            |            |      |            |            |      |      |        |
|--------------------------------|------------|-------------|------------|----------|---------|------------|----------|------|---------|-----------------|-----------|------------|------------|------|------------|------------|------|------|--------|
| VALVE DIMENSIONS               |            |             |            |          |         |            |          |      |         | STEM CONNECTION |           |            |            |      |            |            |      |      |        |
| VALVE SIZE                     | "A" HEIGHT | "A1" HEIGHT | "B" HEIGHT | "C" B.C. | "D" TAP | # OF HOLES | "E" FACE | "F"  | "G" DIA | "H" B.C.        | "J" ØSTEM | "K" SQUARE | "L" LENGTH | "L2" | "M" LENGTH | "N" KEYWAY | ØQ1  | ØQ2  | Bolt Ø |
| 2.5"                           | 5.59       | 7.40        | 13.59      | 5.88     | 3/4-10  | 8          | 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"                             | 5.59       | 7.40        | 13.45      | 6.63     | 3/4-10  | 8          | 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"                             | 6.25       | 8.06        | 14.53      | 7.88     | 3/4-10  | 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"                             | 7.69       | 10.30       | 18.70      | 9.25     | 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"                             | 7.69       | 10.30       | 19.73      | 10.63    | 3/4-10  | 12         | 2.31     | 6.02 | 9       | 4.25            | 0.87      | 0.64       | 1.04       | N/A  | 1.69       | N/A        | 5.33 | 5.39 | 0.44   |
| 8"                             | 9.51       | 12.01       | 21.67      | 13.00    | 7/8-9   | 12         | 2.88     | 7.93 | 12      | 4.75            | 1.12      | N/A        | N/A        | 1.50 | 1.86       | 0.25       | 7.10 | 7.20 | 0.56   |

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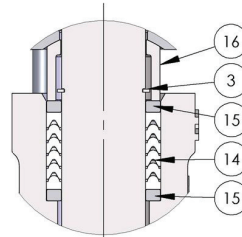
⚠ State of California Prop 65 **WARNING:** Cancer and Reproductive Harm. For more information visit [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov).



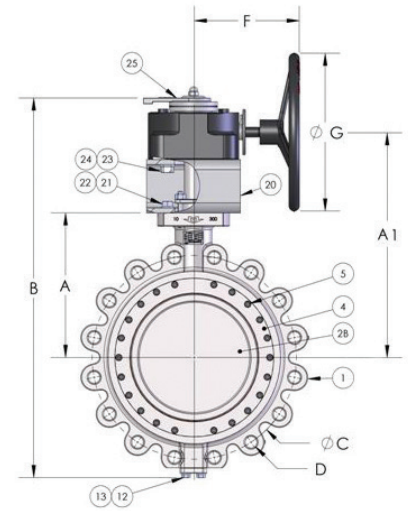
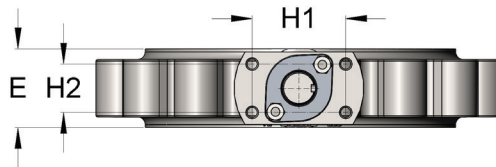
# HP3LSS4213 Lug 10"- 16" with Gear Class 300



DETAIL A



DETAIL B



10" CLASS 300 LUG SHOWN

| 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 |
|                                | 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 194 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         |                               |                    |

| 10" - 16" 300 LB LUG WITH GEAR |                  |             |            |         |         |            |          |       |           |           |      |                 |             |            |      |            |       |            |
|--------------------------------|------------------|-------------|------------|---------|---------|------------|----------|-------|-----------|-----------|------|-----------------|-------------|------------|------|------------|-------|------------|
| VALVE SIZE                     | VALVE DIMENSIONS |             |            |         |         |            |          |       | HANDWHEEL | TOP WORKS |      | STEM CONNECTION |             |            |      | CHORD DIMS |       | BOLT Ø     |
|                                | "A" HEIGHT       | "A1" HEIGHT | "B" HEIGHT | "C" B.C | "D" TAP | # OF HOLES | "E" FACE | "F"   |           | "H1"      | "H2" | "J" ØSTEM       | "L2" LENGTH | "M" LENGTH | "N"  | ØQ1        | ØQ2   |            |
| 10"                            | 10.81            | 16.86       | 28.40      | 15.25   | 1-8     | 16         | 3.25     | 7.85  | 12        | 3.88      | 2.00 | 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        | 4.50      | 2.00 | 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        | 5.75      | 2.50 | 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        | 5.75      | 2.50 | 2.25            | 2.38        | 6.02       | 0.50 | 13.26      | 13.36 | 1/2" - 13" |

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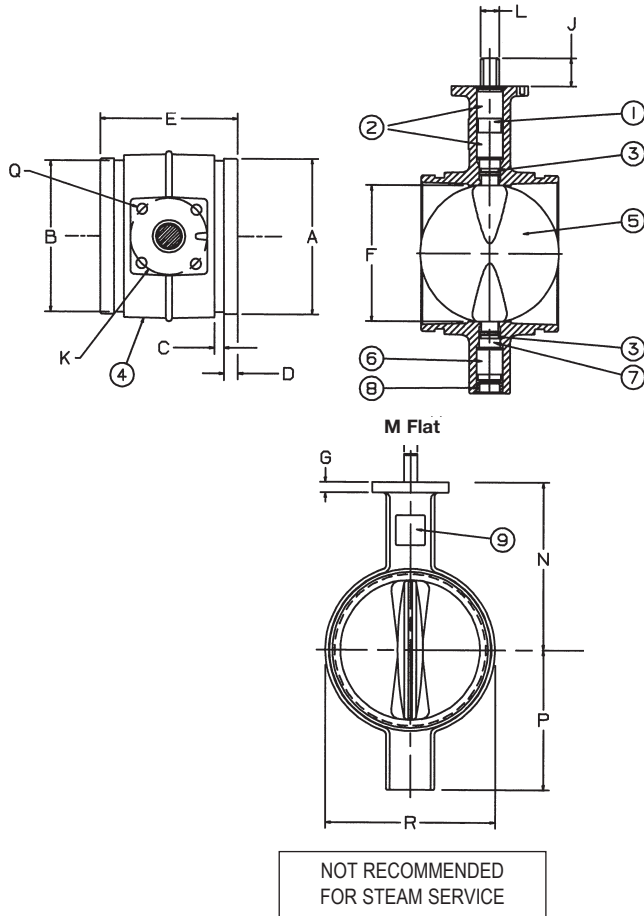
⚠ State of California Prop 65 **WARNING:** Cancer and Reproductive Harm. For more information visit [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov)

# 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**



**UPGG-245E**

## DIMENSIONS

|   | VALVE SIZE   |      |       |      |      |      |      |      |       |
|---|--------------|------|-------|------|------|------|------|------|-------|
|   | INCHES<br>DN | 2    | 2 1/2 | 3    | 4    | 5    | 6    | 8    | 10    |
|   |              | 50   | 65    | 80   | 100  | 125  | 150  | 200  | 250   |
| 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](http://www.p65warnings.ca.gov).

# GG-SCS2 2 1/2"-10"



NSF/ANSI 61  
NSF/ANSI 372

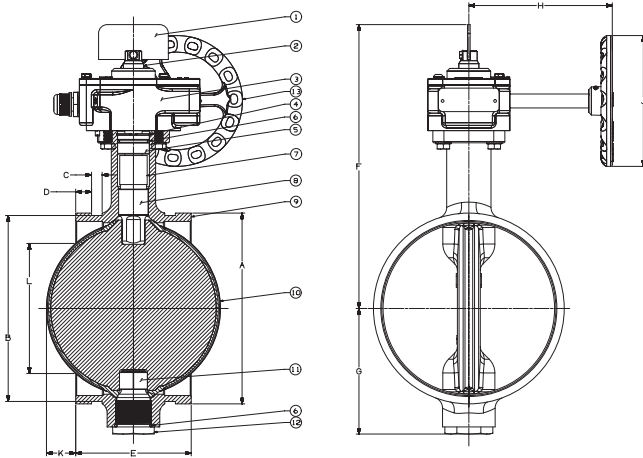
**Nylon Coated Ductile Iron Grooved End Butterfly, 300 psi**  
**Grooved Mechanical Style**  
**Extended Neck, Elastomer Encapsulated Disc**  
**Accepts Internal Supervisory Switches**  
**Grooved End Compatible with IPS Pipe**  
**UL/FM Rating**



## GG-SCS2

Grooved

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



## DIMENSIONS

|   | INCHES<br>DN | VALVE SIZE |      |      |       |       |       |
|---|--------------|------------|------|------|-------|-------|-------|
|   |              | 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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