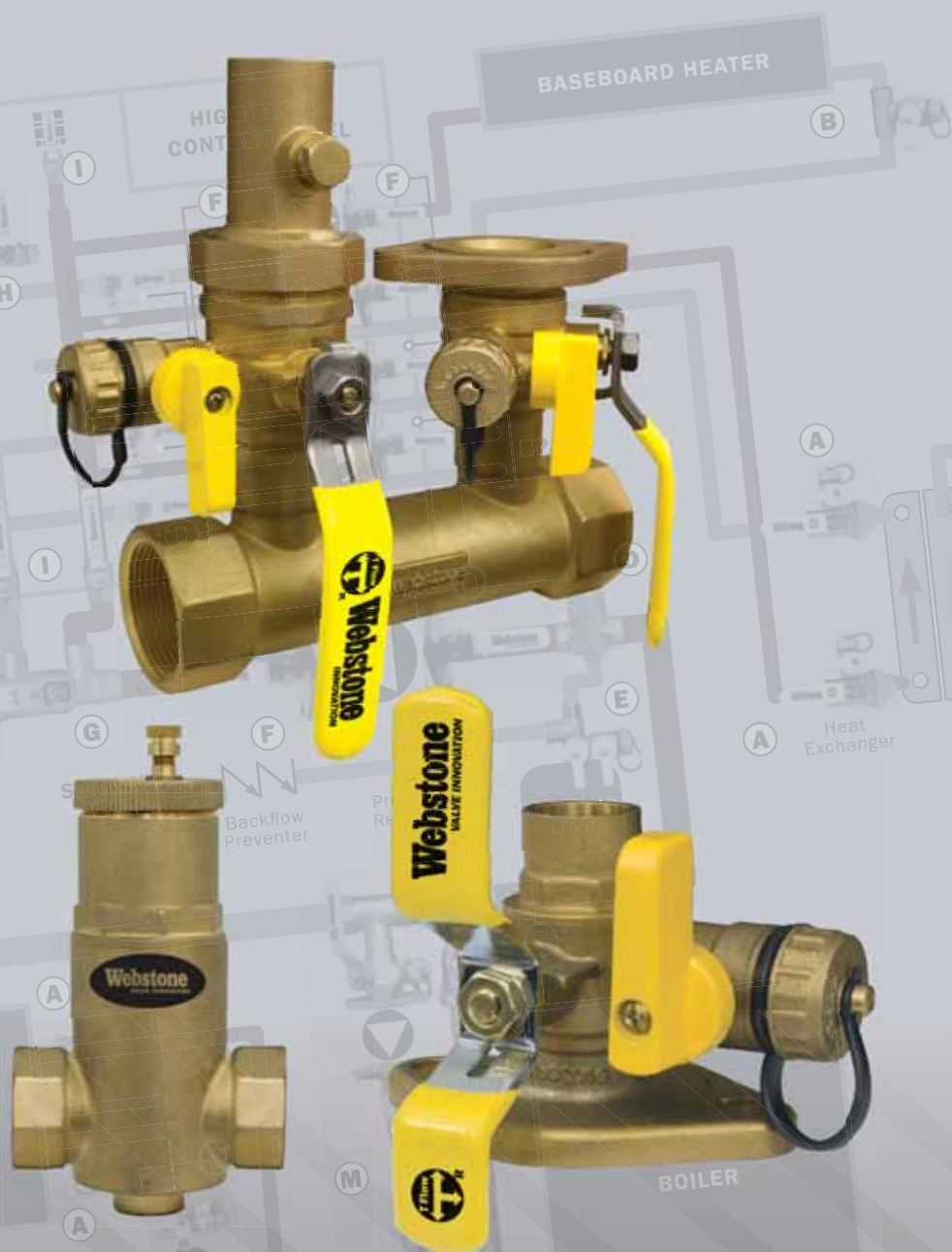


# HYDRONICS

# Webstone

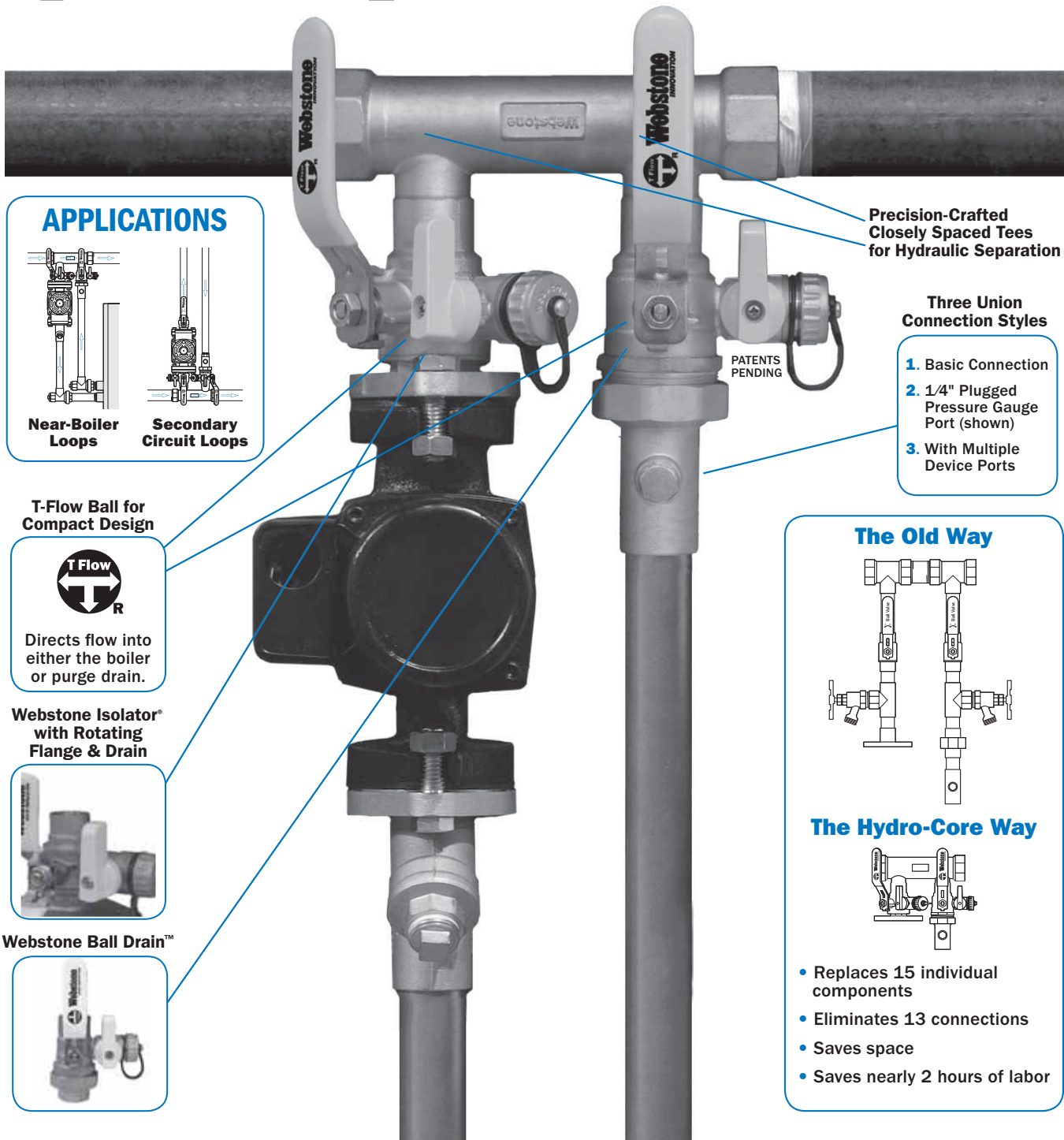
**VALVE INNOVATION**



**QUALITY AND COMMITMENT  
TO TECHNOLOGY AND SERVICE SINCE 1954**

# HYDRO-CORE™

## THE CORE OF A PROFESSIONAL HYDRONIC INSTALLATION



**APPLICATIONS**

Near-Boiler Loops      Secondary Circuit Loops

**T-Flow Ball for Compact Design**

Directs flow into either the boiler or purge drain.

**Webstone Isolator® with Rotating Flange & Drain**

**Webstone Ball Drain™**

**Precision-Crafted Closely Spaced Tees for Hydraulic Separation**

**Three Union Connection Styles**

1. Basic Connection
2. 1/4" Plugged Pressure Gauge Port (shown)
3. With Multiple Device Ports

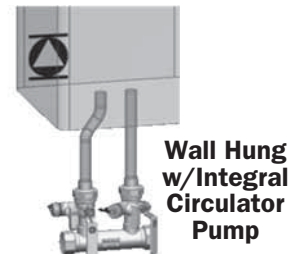
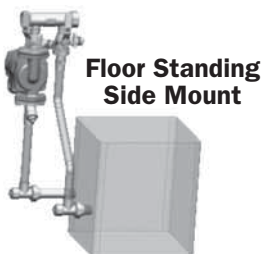
**The Old Way**

**The Hydro-Core Way**

- Replaces 15 individual components
- Eliminates 13 connections
- Saves space
- Saves nearly 2 hours of labor

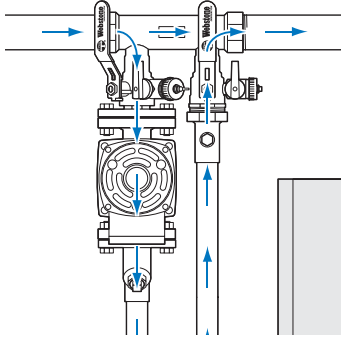
PATENTS PENDING

## FITS COMMON BOILER ORIENTATIONS

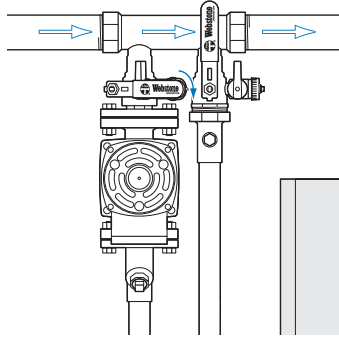


# HYDRO-CORE™ ADVANTAGES

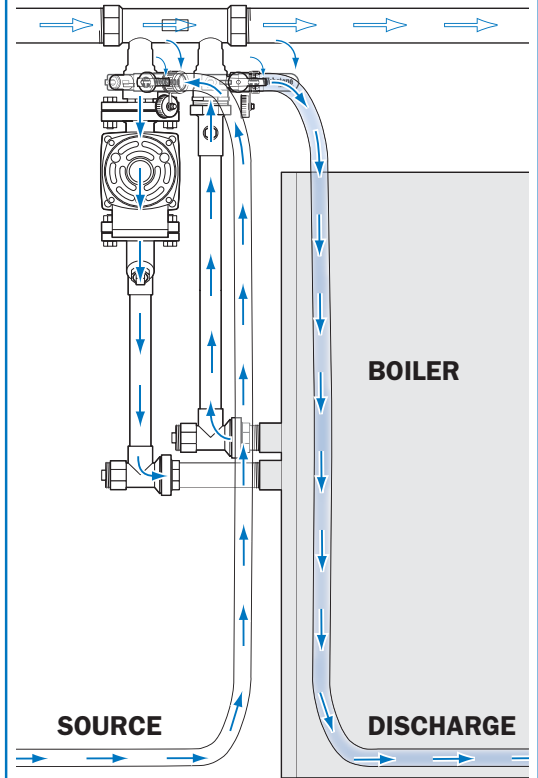
## Precise Spacing for Hydraulic Separation



## Simplifies Pump Isolation

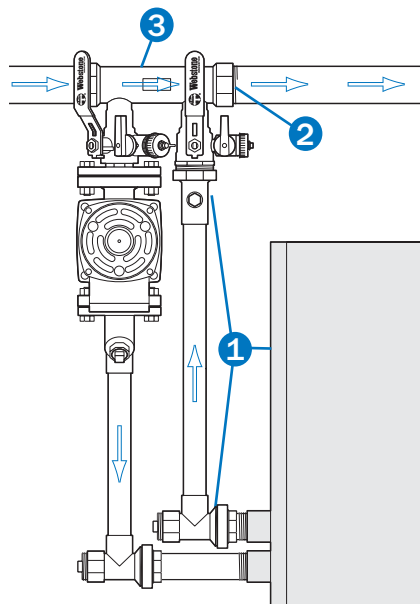
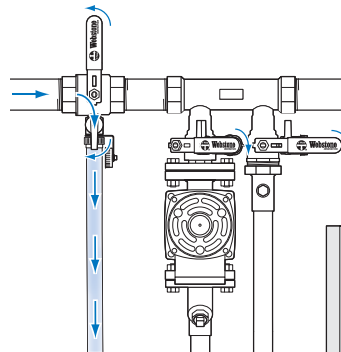
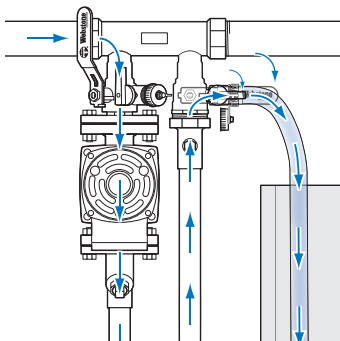


## Easily Purge, Fill, or Descale\* a Boiler or Secondary Hydronic Loop



\*Descaling may not be recommended for all boilers. Consult boiler manufacturer for details.

## Simplifies System Purging Through the Boiler Outside the Boiler



## Plan Your Installation In 3 Simple Steps

1. Identify your boiler & select the corresponding installation kit
2. Determine your pipe run size & connection type
3. Select the proper Hydro-Core manifold

**SEE OUR CURRENT BOILER COMPATIBILITY SUPPLEMENT  
LOCATED AT [WWW.WEBSTONEVALVES.COM](http://WWW.WEBSTONEVALVES.COM) TO HELP IDENTIFY  
THE APPROPRIATE HYDRO-CORE KIT FOR YOUR SPECIFIC BOILER.**

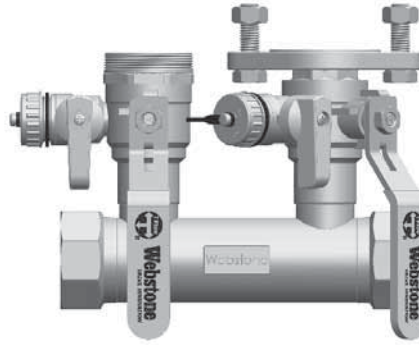
# Hydro-Core Manifolds

Flange Right

**600 WOG**  
**ISO 9001**



**Flange Right**  
Requires (1) Hydro-Core  
Union Connection



| TEMP °F | WOG |
|---------|-----|
| 100     | 600 |
| 150     | 485 |
| 200     | 395 |
| 250     | 210 |
| 300     | N/A |
| 350     | N/A |
| 366     | N/A |

## Flange Dimensions

| C      | KA  | KB      | KC     | KD    |
|--------|-----|---------|--------|-------|
| 1"     | 1/2 | 2 11/16 | 4 3/16 | 2 1/4 |
| 1 1/4" | 5/8 | 2 11/16 | 4 3/16 | 2 1/4 |
| 1 1/2" | 5/8 | 2 11/16 | 4 3/16 | 2 1/4 |

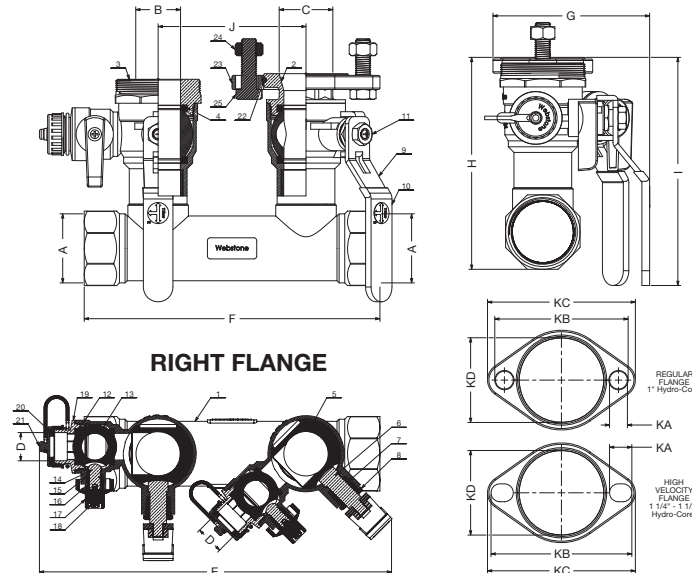
## Flange Right - FIP

| ITEM#   | CTN/CASE | RUN A  | VALVE | DRAIN | UNION B | FLANGE C | HOSE D | E      | F     | G     | H     | I      | J     |
|---------|----------|--------|-------|-------|---------|----------|--------|--------|-------|-------|-------|--------|-------|
| 48754-0 | 1/6      | 1 1/4" | 1     | 1/2   | 1       | 1        | 3/4    | 8 7/8  | 7 1/2 | 4     | 5 3/8 | 6 3/16 | 3 3/4 |
| 48764-0 | 1/6      | 1 1/2" | 1     | 1/2   | 1       | 1        | 3/4    | 8 7/8  | 7 1/2 | 4     | 5 1/2 | 6 3/16 | 3 3/4 |
| 48755-0 | 1/6      | 1 1/4" | 1 1/4 | 3/4   | 1 1/4   | 1 1/4    | 3/4    | 10     | 8 1/4 | 4 3/8 | 6     | 6 3/8  | 4 1/8 |
| 48765-0 | 1/6      | 1 1/2" | 1 1/4 | 3/4   | 1 1/4   | 1 1/4    | 3/4    | 10     | 8 1/4 | 4 3/8 | 6     | 6 3/8  | 4 1/8 |
| 48766-0 | 1/4      | 1 1/2" | 1 1/2 | 3/4   | 1 1/2   | 1 1/2    | 3/4    | 10 7/8 | 8 1/4 | 5     | 6 3/8 | 7 1/2  | 4 1/8 |

## Flange Right - SWT

| ITEM#   | CTN/CASE | RUN A  | VALVE | DRAIN | UNION B | FLANGE C | HOSE D | E      | F     | G     | H      | I      | J     |
|---------|----------|--------|-------|-------|---------|----------|--------|--------|-------|-------|--------|--------|-------|
| 58774-0 | 1/6      | 1"     | 1     | 1/2   | 1       | 1        | 3/4    | 9      | 7 1/2 | 4     | 5 1/2  | 6 3/16 | 3 3/4 |
| 58754-0 | 1/6      | 1 1/4" | 1     | 1/2   | 1       | 1        | 3/4    | 8 7/8  | 7 1/2 | 4     | 5 1/4  | 6 3/16 | 3 3/4 |
| 58764-0 | 1/6      | 1 1/2" | 1     | 1/2   | 1       | 1        | 3/4    | 8 7/8  | 7 1/2 | 4     | 5 7/16 | 6 3/16 | 3 3/4 |
| 58774-0 | 1/4      | 2"     | 1     | 1/2   | 1       | 1        | 3/4    | 9      | 8     | 4     | 5 7/8  | 6 3/16 | 3 3/4 |
| 58755-0 | 1/6      | 1 1/4" | 1 1/4 | 3/4   | 1 1/4   | 1 1/4    | 3/4    | 10     | 8 1/4 | 4 3/8 | 5 3/4  | 6 3/8  | 4 1/8 |
| 58765-0 | 1/6      | 1 1/2" | 1 1/4 | 3/4   | 1 1/4   | 1 1/4    | 3/4    | 10     | 8 1/4 | 4 3/8 | 5 7/8  | 6 3/8  | 4 1/8 |
| 58775-0 | 1/4      | 2"     | 1 1/4 | 3/4   | 1 1/4   | 1 1/4    | 3/4    | 10     | 8 5/8 | 4 3/8 | 6 3/8  | 6 3/8  | 4 1/8 |
| 58766-0 | 1/4      | 1 1/2" | 1 1/2 | 3/4   | 1 1/2   | 1 1/2    | 3/4    | 10 7/8 | 8 1/4 | 5     | 6 1/4  | 7 1/2  | 4 1/8 |
| 58776-0 | 1/4      | 2"     | 1 1/2 | 3/4   | 1 1/2   | 1 1/2    | 3/4    | 10 7/8 | 8 5/8 | 5     | 6 3/4  | 7 1/2  | 4 1/8 |

| NO | DESCRIPTION    | MATERIAL            |
|----|----------------|---------------------|
| 1  | BODY           | BRASS               |
| 2  | FLANGE END CAP | BRASS               |
| 3  | UNION CAP      | BRASS               |
| 4  | SEAT           | PTFE                |
| 5  | BALL           | BRASS HCP           |
| 6  | STEM           | BRASS               |
| 7  | STEM SEAL      | PTFE                |
| 8  | PACKING GLAND  | BRASS               |
| 9  | LEVER HANDLE   | STAINLESS STEEL     |
| 10 | HANDLE JACKET  | VINYL               |
| 11 | HANDLE NUT     | STAINLESS STEEL     |
| 12 | SEAT           | PTFE                |
| 13 | BALL           | BRASS HCP           |
| 14 | STEM           | BRASS               |
| 15 | STEM SEAL      | PTFE                |
| 16 | PACKING GLAND  | BRASS               |
| 17 | HANDLE         | ALUMINUM            |
| 18 | HANDLE SCREW   | BRASS               |
| 19 | END CAP        | BRASS               |
| 20 | WASHER         | EPDM                |
| 21 | CAP AND STRAP  | BRASS W/ EPDM STRAP |
| 22 | FLANGE RING    | BRASS               |
| 23 | FLANGE         | BRASS               |
| 24 | NUT            | STAINLESS STEEL     |
| 25 | BOLT           | STAINLESS STEEL     |



RIGHT FLANGE

**MATCH**  
**UNION CONNECTION**  
**SIZES TO SELECT**  
**A MANIFOLD'S**  
**COMPATIBLE**  
**ENDS**

## Union Connections

### UNION CONNECTION



### UNION CONNECTION W/ 1/4" NPT GAUGE PORT (PLUGGED)



**UNION CONNECTION W/ MULTIPLE DEVICE PORTS**  
Plugged Connections for  
(2) 3/4" devices or  
(1) 3/4" device &  
(1) 1/4" Pressure Gauge



| Part #                  | Ctn/Case | Hydro-Core End Size | Tailpiece Connection |
|-------------------------|----------|---------------------|----------------------|
| <b>UNION CONNECTION</b> |          |                     |                      |
| HCE4-43                 | 6/24     | 1"                  | 3/4" FIP             |
| HCE4-44                 | 6/24     | 1"                  | 1" FIP               |
| HCE4-53                 | 6/24     | 1"                  | 3/4" SWT             |
| HCE4-54                 | 6/24     | 1"                  | 1" SWT               |
| HCE5-44                 | 6/24     | 1 1/4"              | 1" FIP               |
| HCE5-45                 | 6/24     | 1 1/4"              | 1 1/4" FIP           |
| HCE5-54                 | 6/24     | 1 1/4"              | 1" SWT               |
| HCE5-55                 | 6/24     | 1 1/4"              | 1 1/4" SWT           |
| HCE5-56                 | 6/24     | 1 1/2"              | 1 1/4" SWT           |
| HCE6-56                 | 4/24     | 1 1/2"              | 1 1/2" SWT           |

| Part #                                           | Ctn/Case | Hydro-Core End Size | Tailpiece Connection |
|--------------------------------------------------|----------|---------------------|----------------------|
| <b>UNION CONNECTION W/ 1/4" NPT GAUGE PORT</b>   |          |                     |                      |
| HCE4-63                                          | 6/24     | 1"                  | 3/4" FIP             |
| HCE4-64                                          | 6/24     | 1"                  | 1" FIP               |
| HCE4-73                                          | 6/24     | 1"                  | 3/4" SWT             |
| HCE4-74                                          | 6/24     | 1"                  | 1" SWT               |
| HCE5-64                                          | 6/24     | 1 1/4"              | 1" FIP               |
| HCE5-65                                          | 6/24     | 1 1/4"              | 1 1/4" FIP           |
| HCE5-74                                          | 6/24     | 1 1/4"              | 1" SWT               |
| HCE5-75                                          | 6/24     | 1 1/4"              | 1 1/4" SWT           |
| <b>UNION CONNECTION W/ MULTIPLE DEVICE PORTS</b> |          |                     |                      |
| HCE4-94                                          | 6/24     | 1"                  | 1" SWT               |

## Pump Connections

### ROTATING FLANGE



### ROTATING FLANGE W/ "Y" STRAINER



| Part #                                 | Ctn/Case | Connection |
|----------------------------------------|----------|------------|
| <b>ROTATING FLANGE</b>                 |          |            |
| RF4-54                                 | 6/24     | 1" SWT     |
| RF5-55                                 | 6/24     | 1 1/4" SWT |
| <b>ROTATING FLANGE W/ "Y" STRAINER</b> |          |            |
| FSTR4-54                               | 6/24     | 1" SWT     |
| FSTR5-55                               | 6/24     | 1 1/4" SWT |

Specifications: Designed for residential, commercial or industrial use with water or a glycol mixture in a closed loop Hydronic system. This approved Webstone valve assembly design can be used in both near boiler piping applications as well as secondary circuit loops and is actuated by blowout proof stems and feature adjustable packing glands. Threaded ends comply with ANSI B1.20.1. Solder joint temperature ratings are per ASME B16.18 Annex A for 95-5 solder. Other solder materials have lower pressure/temperature limits. Do not silver braze or overheat valves when soldering.

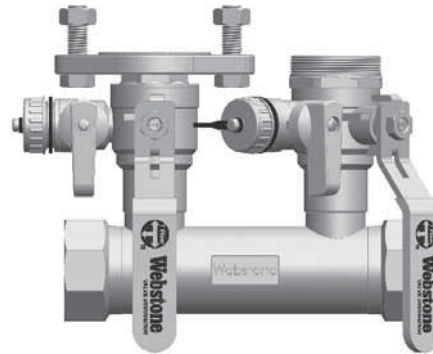
# Hydro-Core Manifolds

Flange Left

**600 WOG**  
**ISO 9001**



**Flange Left**  
Requires (1) Hydro-Core  
Union Connection



| TEMP °F | WOG |
|---------|-----|
| 100     | 600 |
| 150     | 485 |
| 200     | 395 |
| 250     | 210 |
| 300     | N/A |
| 350     | N/A |
| 366     | N/A |

## Flange Dimensions

| C      | KA  | KB      | KC     | KD    |
|--------|-----|---------|--------|-------|
| 1"     | 1/2 | 2 11/16 | 4 3/16 | 2 1/4 |
| 1 1/4" | 5/8 | 2 11/16 | 4 3/16 | 2 1/4 |

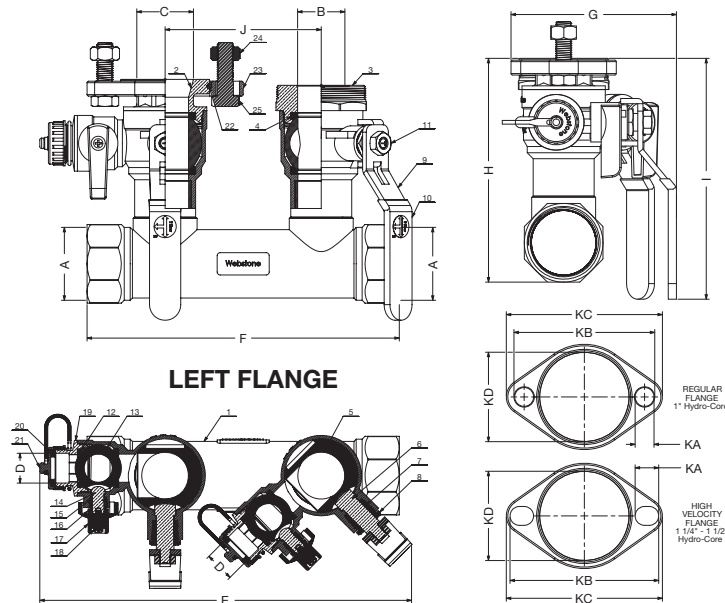
## Flange Left - FIP

| ITEM#   | CTN/CASE | RUN A  | VALVE | DRAIN | UNION B | FLANGE C | HOSE D | E     | F     | G     | H     | I      | J     |
|---------|----------|--------|-------|-------|---------|----------|--------|-------|-------|-------|-------|--------|-------|
| 48854-0 | 1/6      | 1 1/4" | 1     | 1/2   | 1       | 1        | 3/4    | 8 7/8 | 7 1/2 | 4     | 5 3/8 | 6 3/16 | 3 3/4 |
| 48864-0 | 1/6      | 1 1/2" | 1     | 1/2   | 1       | 1        | 3/4    | 8 7/8 | 7 1/2 | 4     | 5 1/2 | 6 3/16 | 3 3/4 |
| 48855-0 | 1/6      | 1 1/4" | 1 1/4 | 3/4   | 1 1/4   | 1 1/4    | 3/4    | 10    | 8 1/4 | 4 3/8 | 6     | 6 3/8  | 4 1/8 |
| 48865-0 | 1/6      | 1 1/2" | 1 1/4 | 3/4   | 1 1/4   | 1 1/4    | 3/4    | 10    | 8 1/4 | 4 3/8 | 6     | 6 3/8  | 4 1/8 |

## Flange Left - SWT

| ITEM#   | CTN/CASE | RUN A  | VALVE | DRAIN | UNION B | FLANGE C | HOSE D | E     | F     | G     | H     | I      | J     |
|---------|----------|--------|-------|-------|---------|----------|--------|-------|-------|-------|-------|--------|-------|
| 58854-0 | 1/6      | 1 1/4" | 1     | 1/2   | 1       | 1        | 3/4    | 8 7/8 | 7 1/2 | 4     | 5 3/8 | 6 3/16 | 3 3/4 |
| 58864-0 | 1/6      | 1 1/2" | 1     | 1/2   | 1       | 1        | 3/4    | 8 7/8 | 7 1/2 | 4     | 5 3/8 | 6 3/16 | 3 3/4 |
| 58855-0 | 1/6      | 1 1/4" | 1 1/4 | 3/4   | 1 1/4   | 1 1/4    | 3/4    | 10    | 8 1/4 | 4 3/8 | 5 3/4 | 6 3/8  | 4 1/8 |
| 58865-0 | 1/6      | 1 1/2" | 1 1/4 | 3/4   | 1 1/4   | 1 1/4    | 3/4    | 10    | 8 1/4 | 4 3/8 | 5 7/8 | 6 3/8  | 4 1/8 |

| NO | DESCRIPTION    | MATERIAL            |
|----|----------------|---------------------|
| 1  | BODY           | BRASS               |
| 2  | FLANGE END CAP | BRASS               |
| 3  | UNION CAP      | BRASS               |
| 4  | SEAT           | PTFE                |
| 5  | BALL           | BRASS HCP           |
| 6  | STEM           | BRASS               |
| 7  | STEM SEAL      | PTFE                |
| 8  | PACKING GLAND  | BRASS               |
| 9  | LEVER HANDLE   | STAINLESS STEEL     |
| 10 | HANDLE JACKET  | VINYL               |
| 11 | HANDLE NUT     | STAINLESS STEEL     |
| 12 | SEAT           | PTFE                |
| 13 | BALL           | BRASS HCP           |
| 14 | STEM           | BRASS               |
| 15 | STEM SEAL      | PTFE                |
| 16 | PACKING GLAND  | BRASS               |
| 17 | HANDLE         | ALUMINUM            |
| 18 | HANDLE SCREW   | BRASS               |
| 19 | END CAP        | BRASS               |
| 20 | WASHER         | EPDM                |
| 21 | CAP AND STRAP  | BRASS W/ EPDM STRAP |
| 22 | FLANGE RING    | BRASS               |
| 23 | FLANGE         | BRASS               |
| 24 | NUT            | STAINLESS STEEL     |
| 25 | BOLT           | STAINLESS STEEL     |



LEFT FLANGE

**MATCH**  
**UNION**  
**CONNECTION**  
SIZES TO SELECT  
A MANIFOLD'S  
COMPATIBLE  
ENDS

## Union Connections

UNION CONNECTION



UNION CONNECTION  
W/ 1/4" NPT GAUGE  
PORT (PLUGGED)



UNION CONNECTION W/  
MULTIPLE DEVICE PORTS  
Plugged Connections for  
(2) 3/4" devices or  
(1) 3/4" device &  
(1) 1/4" Pressure Gauge



| Part #           | Ctn/Case | Hydro-Core End Size | Tailpiece Connection |
|------------------|----------|---------------------|----------------------|
| UNION CONNECTION |          |                     |                      |
| HCE4-43          | 6/24     | 1"                  | 3/4" FIP             |
| HCE4-44          | 6/24     | 1"                  | 1" FIP               |
| HCE4-53          | 6/24     | 1"                  | 3/4" SWT             |
| HCE4-54          | 6/24     | 1"                  | 1" SWT               |
| HCE5-44          | 6/24     | 1 1/4"              | 1" FIP               |
| HCE5-45          | 6/24     | 1 1/4"              | 1 1/4" FIP           |
| HCE5-54          | 6/24     | 1 1/4"              | 1" SWT               |
| HCE5-55          | 6/24     | 1 1/4"              | 1 1/4" SWT           |

| Part #                                   | Ctn/Case | Hydro-Core End Size | Tailpiece Connection |
|------------------------------------------|----------|---------------------|----------------------|
| UNION CONNECTION W/ 1/4" NPT GAUGE PORT  |          |                     |                      |
| HCE4-63                                  | 6/24     | 1"                  | 3/4" FIP             |
| HCE4-64                                  | 6/24     | 1"                  | 1" FIP               |
| HCE4-73                                  | 6/24     | 1"                  | 3/4" SWT             |
| HCE4-74                                  | 6/24     | 1"                  | 1" SWT               |
| HCE5-64                                  | 6/24     | 1 1/4"              | 1" FIP               |
| HCE5-65                                  | 6/24     | 1 1/4"              | 1 1/4" FIP           |
| HCE5-74                                  | 6/24     | 1 1/4"              | 1" SWT               |
| HCE5-75                                  | 6/24     | 1 1/4"              | 1 1/4" SWT           |
| UNION CONNECTION W/MULTIPLE DEVICE PORTS |          |                     |                      |
| HCE4-94                                  | 6/24     | 1"                  | 1" SWT               |

## Pump Connections

ROTATING FLANGE



ROTATING FLANGE  
W/ "Y" STRAINER



| Part #                          | Ctn/Case | Connection |
|---------------------------------|----------|------------|
| ROTATING FLANGE                 |          |            |
| RF4-54                          | 6/24     | 1" SWT     |
| RF5-55                          | 6/24     | 1 1/4" SWT |
| ROTATING FLANGE W/ "Y" STRAINER |          |            |
| FSTR4-54                        | 6/24     | 1" SWT     |
| FSTR5-55                        | 6/24     | 1 1/4" SWT |

Specifications: Designed for residential, commercial or industrial use with water or a glycol mixture in a closed loop Hydronic system. This approved Webstone valve assembly design can be used in both near boiler piping applications as well as secondary circuit loops and is actuated by blowout proof stems and feature adjustable packing glands. Threaded ends comply with ANSI B1.20.1. Solder joint temperature ratings are per ASME B16.18 Annex A for 95-5 solder. Other solder materials have lower pressure/temperature limits. Do not silver braze or overheat valves when soldering.

# Hydro-Core Manifolds

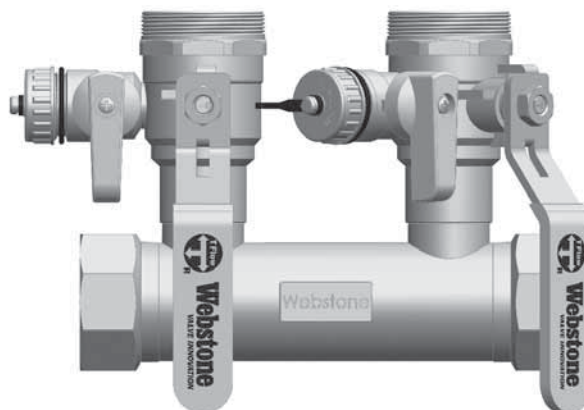
Double Ball Drain

600 WOG  
ISO 9001

**HYDRO-CORE™**

## Double Ball Drain

Requires (2) Hydro-Core  
Union Connections



| TEMP °F | WOG |
|---------|-----|
| 100     | 600 |
| 150     | 485 |
| 200     | 395 |
| 250     | 210 |
| 300     | N/A |
| 350     | N/A |
| 366     | N/A |

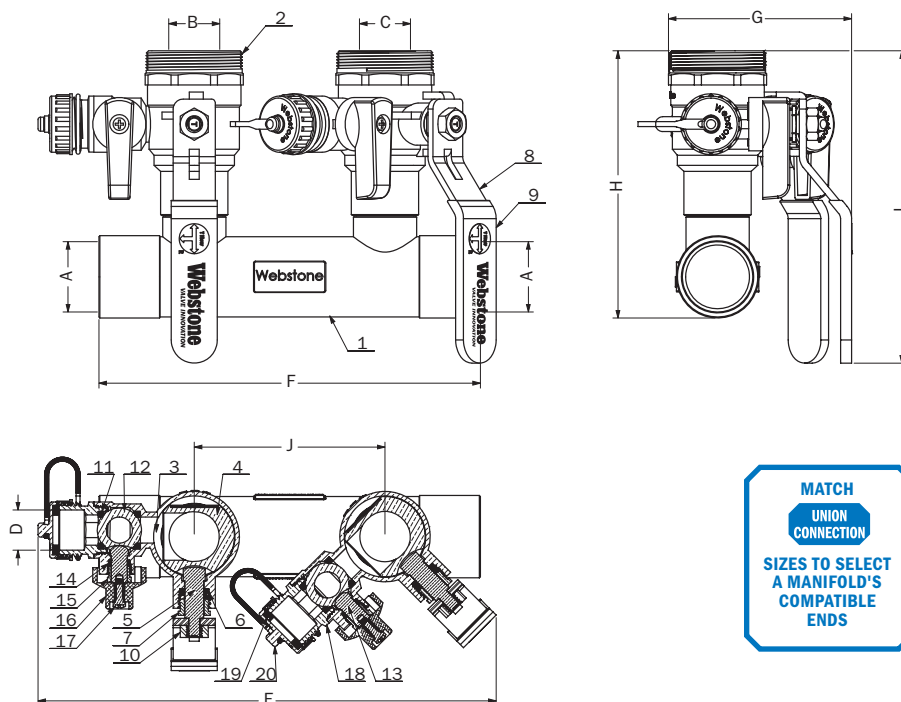
### FIP

| ITEM#   | CTN/CASE | RUN A  | VALVE | DRAIN | B | C | D   | E | F     | G     | H     | I     | J     |
|---------|----------|--------|-------|-------|---|---|-----|---|-------|-------|-------|-------|-------|
| 48354-0 | 1/6      | 1 1/4" | 1     | 1/2   | 1 | 1 | 3/4 | 9 | 7 1/2 | 3 1/2 | 5 3/8 | 6 1/8 | 3 3/4 |

### SWT

| ITEM#   | CTN/CASE | RUN A  | VALVE | DRAIN | B | C | D   | E | F     | G     | H     | I     | J     |
|---------|----------|--------|-------|-------|---|---|-----|---|-------|-------|-------|-------|-------|
| 58354-0 | 1/6      | 1 1/4" | 1     | 1/2   | 1 | 1 | 3/4 | 9 | 7 1/2 | 3 1/2 | 5 1/4 | 6 1/8 | 3 3/4 |

| NO | DESCRIPTION   | MATERIAL            |
|----|---------------|---------------------|
| 1  | BODY          | BRASS               |
| 2  | UNION CAP     | BRASS               |
| 3  | SEAT          | PTFE                |
| 4  | BALL          | BRASS HCP           |
| 5  | STEM          | BRASS               |
| 6  | STEM SEAL     | PTFE                |
| 7  | PACKING GLAND | BRASS               |
| 8  | LEVER HANDLE  | STAINLESS STEEL     |
| 9  | HANDLE JACKET | VINYL               |
| 10 | HANDLE NUT    | STAINLESS STEEL     |
| 11 | SEAT          | PTFE                |
| 12 | BALL          | BRASS HCP           |
| 13 | STEM          | BRASS               |
| 14 | STEM SEAL     | PTFE                |
| 15 | PACKING GLAND | BRASS               |
| 16 | HANDLE        | ALUMINUM            |
| 17 | HANDLE SCREW  | BRASS               |
| 18 | END CAP       | BRASS               |
| 19 | WASHER        | EPDM                |
| 20 | CAP AND STRAP | BRASS W/ EPDM STRAP |



## Union Connections

### UNION CONNECTION



### UNION CONNECTION W/ 1/4" NPT GAUGE PORT (PLUGGED)



### UNION CONNECTION W/ MULTIPLE DEVICE PORTS

Plugged Connections for  
(2) 3/4" devices or  
(1) 3/4" device &  
(1) 1/4" Pressure Gauge



| Part #           | Ctn/Case | Hydro-Core End Size | Tailpiece Connection |
|------------------|----------|---------------------|----------------------|
| UNION CONNECTION |          |                     |                      |
| HCE4-43          | 6/24     | 1"                  | 3/4" FIP             |
| HCE4-44          | 6/24     | 1"                  | 1" FIP               |
| HCE4-53          | 6/24     | 1"                  | 3/4" SWT             |
| HCE4-54          | 6/24     | 1"                  | 1" SWT               |

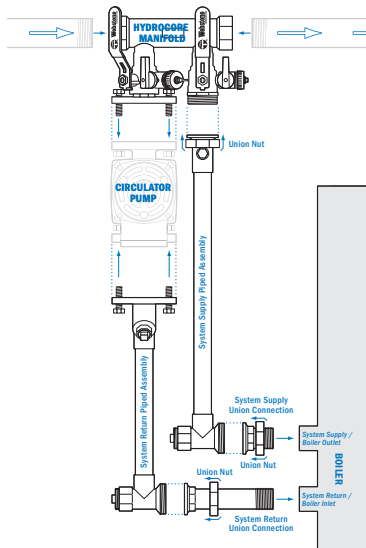
| Part #                                    | Ctn/Case | Hydro-Core End Size | Tailpiece Connection |
|-------------------------------------------|----------|---------------------|----------------------|
| UNION CONNECTION W/ 1/4" NPT GAUGE PORT   |          |                     |                      |
| HCE4-63                                   | 6/24     | 1"                  | 3/4" FIP             |
| HCE4-64                                   | 6/24     | 1"                  | 1" FIP               |
| HCE4-73                                   | 6/24     | 1"                  | 3/4" SWT             |
| HCE4-74                                   | 6/24     | 1"                  | 1" SWT               |
| UNION CONNECTION W/ MULTIPLE DEVICE PORTS |          |                     |                      |
| HCE4-94                                   | 6/24     | 1"                  | 1" SWT               |

Specifications: Designed for residential, commercial or industrial use with water or a glycol mixture in a closed loop Hydronic system. This approved Webstone valve assembly design can be used in both near boiler piping applications as well as secondary circuit loops and is actuated by blowout proof stems and feature adjustable packing glands. Threaded ends comply with ANSI B1.20.1. Solder joint temperature ratings are per ASME B16.18 Annex A for 95-5 solder. Other solder materials have lower pressure/temperature limits. Do not silver braze or overheat valves when soldering.

# Hydro-Core Boiler Installation Kits

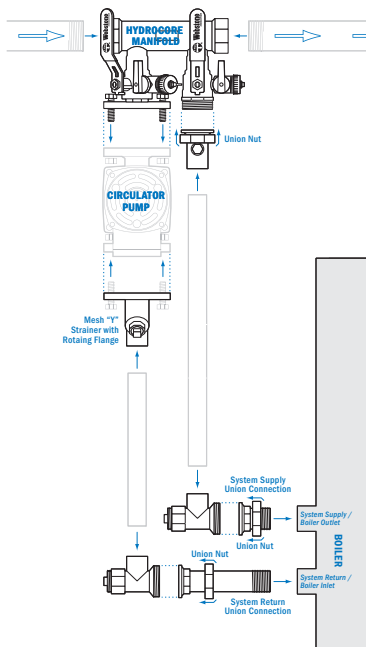
Requires Hydro-Core Manifold

## Complete Kit for Select Floor Mount Boilers



- Plugged 1/4" pressure gauge port
- Integrated Mesh "Y" Strainer with rotating flange and plugged 1/2" port in strainer cap for installation of drain valve (if desired)
- Plugged 1" FIP ports for connection to other equipment

## Component Kit for Floor Standing Boilers with Side Mount Connections



# HYDRO-CORE

## COMPLETE NEAR BOILER PIPING KITS

Fully Fabricated Supply & Return Lines

### FLOOR MOUNT



### WALL HUNG



### Floor Mount

| Part #   | Ctn/Case | Hydro-Core End Size | Connection to Boiler | Custom Fit For                  |
|----------|----------|---------------------|----------------------|---------------------------------|
| NBP4-080 | 1/6      | 1"                  | 1" MIP               | BURNHAM ALP080/LOCHINVAR KBN080 |
| NBP4-105 | 1/6      | 1"                  | 1" MIP               | BURNHAM ALP105/LOCHINVAR KBN105 |
| NBP4-150 | 1/6      | 1"                  | 1" MIP               | BURNHAM ALP150/LOCHINVAR KBN150 |
| NBP4-210 | 1/6      | 1"                  | 1" MIP               | BURNHAM ALP210/LOCHINVAR KBN210 |

### Wall Hung

| Part #   | Ctn/Case | Hydro-Core End Size | Connection to Boiler | Custom Fit For                   |
|----------|----------|---------------------|----------------------|----------------------------------|
| NBP4-WBN | 1/6      | 1"                  | 1" SWT               | LOCHINVAR WBN050/080/105/150/210 |
| NBP4-WHN | 1/6      | 1"                  | 1" SWT               | LOCHINVAR WHN055/085/110/155     |

# HYDRO-CORE

## NEAR BOILER COMPONENT KITS

See Boiler Compatibility Chart To Fit Your Particular Boiler

### FLOOR STANDING / SIDE MOUNT KIT 1



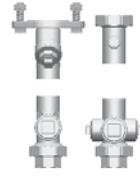
### FLOOR STANDING / SIDE MOUNT KIT 2



### FLOOR STANDING / SIDE MOUNT KIT 3



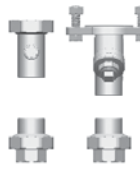
### FLOOR STANDING / TOP MOUNT KIT 1



### FLOOR STANDING / TOP MOUNT KIT 2



### FLOOR STANDING / TOP MOUNT KIT 3



### WALL HUNG KIT 1



### WALL HUNG KIT 2



### WALL HUNG KIT 3



## Floor Standing / Side Mount

| Part #                                   | Ctn/Case | Hydro-Core End Size | Tailpiece Connection |
|------------------------------------------|----------|---------------------|----------------------|
| <b>FLOOR STANDING / SIDE MOUNT KIT 1</b> |          |                     |                      |
| FS-144                                   | 1/6      | 1"                  | 1" FIP               |
| FS-184                                   | 1/6      | 1"                  | 1" MIP               |
| FS-145                                   | 1/6      | 1 1/4"              | 1 1/4" FIP           |
| FS-185                                   | 1/6      | 1 1/4"              | 1 1/4" MIP           |
| <b>FLOOR STANDING / SIDE MOUNT KIT 2</b> |          |                     |                      |
| FS-245                                   | 1/6      | 1 1/4"              | 1 1/4" FIP           |
| <b>FLOOR STANDING / SIDE MOUNT KIT 3</b> |          |                     |                      |
| FS-345                                   | 1/6      | 1 1/4"              | 1 1/4" FIP           |

## Floor Standing / Top Mount

| Part #                                  | Ctn/Case | Hydro-Core End Size | Tailpiece Connection |
|-----------------------------------------|----------|---------------------|----------------------|
| <b>FLOOR STANDING / TOP MOUNT KIT 1</b> |          |                     |                      |
| FT-144                                  | 1/6      | 1"                  | 1" FIP               |
| <b>FLOOR STANDING / TOP MOUNT KIT 2</b> |          |                     |                      |
| FT-245                                  | 1/6      | 1 1/4"              | 1 1/4" FIP           |
| FT-2R45                                 | 1/6      | 1 1/4"              | 1" FIP               |
| <b>FLOOR STANDING / TOP MOUNT KIT 3</b> |          |                     |                      |
| FT-344                                  | 1/6      | 1"                  | 1" FIP               |

## Wall Hung

| Part #                 | Ctn/Case | Hydro-Core End Size | Tailpiece Connection |
|------------------------|----------|---------------------|----------------------|
| <b>WALL HUNG KIT 1</b> |          |                     |                      |
| WH-144                 | 1/6      | 1"                  | 1" FIP               |
| WH-154                 | 1/6      | 1"                  | 1" SWT               |
| WH-1R44                | 1/6      | 1"                  | 3/4" FIP             |
| <b>WALL HUNG KIT 2</b> |          |                     |                      |
| WH-245                 | 1/6      | 1 1/4"              | 1 1/4" FIP           |
| WH-255                 | 1/6      | 1 1/4"              | 1 1/4" SWT           |
| <b>WALL HUNG KIT 3</b> |          |                     |                      |
| WH-345                 | 1/6      | 1 1/4"              | 1 1/4" FIP           |

Specifications: Designed for residential, commercial or industrial use with water or a glycol mixture in a closed loop Hydronic system. This approved Webstone valve assembly design can be used in both near boiler piping applications as well as secondary circuit loops and is actuated by blowout proof stems and feature adjustable packing glands. Threaded ends comply with ANSI B1.20.1. Solder joint temperature ratings are per ASME B16.18 Annex A for 95-5 solder. Other solder materials have lower pressure/temperature limits. Do not silver braze or overheat valves when soldering.

## THIS SPACE FOR DESIGNER / ENGINEER APPROVAL

|                         |            |                        |
|-------------------------|------------|------------------------|
| Job/Customer _____      | Date _____ | Contractor _____       |
| Model Specified _____   | Qty _____  | Approved By _____      |
| Designer/Engineer _____ | Date _____ | Contractor's PO# _____ |
| Submitted by _____      | Date _____ | Other _____            |

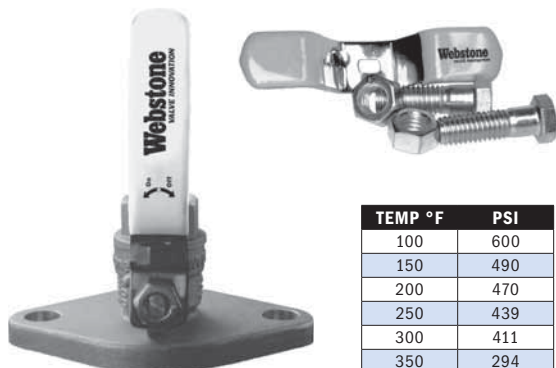
# The Isolator®

Full Port Forged Brass Uni-Flange Ball Valves  
w/ Bonus Wing Style "T" Handle, Nuts & Bolts

**600 WOG  
ISO 9001**



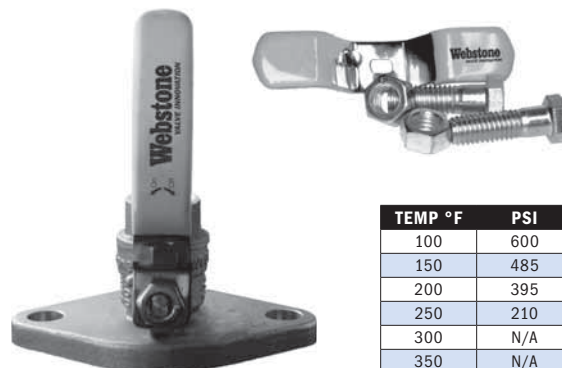
## 4040 Series - IPS x Flange



| TEMP °F | PSI |
|---------|-----|
| 100     | 600 |
| 150     | 490 |
| 200     | 470 |
| 250     | 439 |
| 300     | 411 |
| 350     | 294 |
| 366     | N/A |



## 5040 Series - SWT x Flange



| TEMP °F | PSI |
|---------|-----|
| 100     | 600 |
| 150     | 485 |
| 200     | 395 |
| 250     | 210 |
| 300     | N/A |
| 350     | N/A |
| 366     | N/A |

### 4040 Series - IPS x Flange

| ITEM #  | SIZE   | CTN/CASE | A     | B       | C       | D      | E   | F   | G       | H       | I     |
|---------|--------|----------|-------|---------|---------|--------|-----|-----|---------|---------|-------|
| 40402   | 1/2"   | 2/20     | 1/2   | 2 1/4   | 1 7/8   | 3 7/8  | 3/8 | 1/2 | 3/4     | 2 11/16 | 4 1/8 |
| 40403   | 3/4"   | 2/20     | 3/4   | 2 3/8   | 2 1/16  | 3 7/8  | 3/8 | 1/2 | 1       | 2 11/16 | 4 1/8 |
| 40404   | 1"     | 2/20     | 1     | 2 11/16 | 2 1/2   | 4 5/8  | 3/8 | 1/2 | 1 1/4   | 2 11/16 | 4 1/8 |
| 40405   | 1 1/4" | 2/20     | 1 1/4 | 2 7/8   | 2 3/8   | 4 5/8  | 3/8 | 1/2 | 1 9/16  | 2 11/16 | 4 1/8 |
| 40406   | 1 1/2" | 2/20     | 1 1/2 | 4       | 3 3/8   | 5 9/16 | 3/8 | 1/2 | 1 15/16 | 2 11/16 | 4 1/8 |
| 40404HV | 1"     | 2/20     | 1     | 2 11/16 | 2 1/2   | 4 5/8  | 3/8 | 5/8 | 1 1/4   | 2 11/16 | 4 1/8 |
| 40405HV | 1 1/4" | 2/20     | 1 1/4 | 2 7/8   | 2 13/16 | 4 5/8  | 3/8 | 5/8 | 1 9/16  | 2 11/16 | 4 1/8 |
| 40406HV | 1 1/2" | 2/20     | 1 1/2 | 4       | 3 3/8   | 5 9/16 | 3/8 | 5/8 | 1 15/16 | 2 11/16 | 4 1/8 |
| 40407HV | 2"     | 2/10     | 2     | 4 7/16  | 3 3/4   | 5 9/16 | 3/8 | 5/8 | 1 15/16 | 2 11/16 | 4 1/8 |

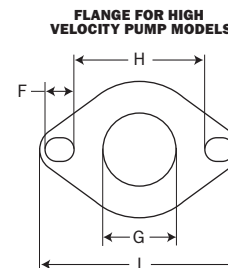
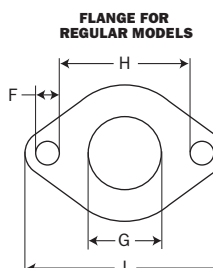
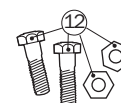
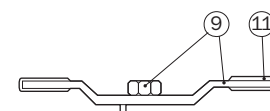
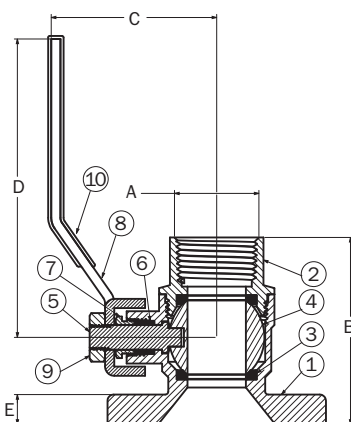
HV MODELS FIT BOTH STANDARD & HIGH VELOCITY PUMPS.

### 5040 Series - SWT x Flange

| ITEM #  | SIZE   | CTN/CASE | A     | B       | C       | D      | E   | F   | G       | H       | I     |
|---------|--------|----------|-------|---------|---------|--------|-----|-----|---------|---------|-------|
| 50402   | 1/2"   | 2/20     | 1/2   | 2 1/8   | 1 7/8   | 3 7/8  | 3/8 | 1/2 | 3/4     | 2 11/16 | 4 1/8 |
| 50403   | 3/4"   | 2/20     | 3/4   | 2 9/16  | 2 1/16  | 3 7/8  | 3/8 | 1/2 | 1       | 2 11/16 | 4 1/8 |
| 50404   | 1"     | 2/20     | 1     | 2 15/16 | 2 1/2   | 4 5/8  | 3/8 | 1/2 | 1 1/4   | 2 11/16 | 4 1/8 |
| 50405   | 1 1/4" | 2/20     | 1 1/4 | 3 1/8   | 2 13/16 | 4 5/8  | 3/8 | 1/2 | 1 9/16  | 2 11/16 | 4 1/8 |
| 50406   | 1 1/2" | 2/20     | 1 1/2 | 4 3/8   | 3 3/8   | 5 9/16 | 3/8 | 1/2 | 1 15/16 | 2 11/16 | 4 1/8 |
| 50404HV | 1"     | 2/20     | 1     | 2 15/16 | 2 1/2   | 4 5/8  | 3/8 | 5/8 | 1 1/4   | 2 11/16 | 4 1/8 |
| 50405HV | 1 1/4" | 2/20     | 1 1/4 | 3 1/8   | 2 13/16 | 4 5/8  | 3/8 | 5/8 | 1 9/16  | 2 11/16 | 4 1/8 |
| 50406HV | 1 1/2" | 2/20     | 1 1/2 | 4 3/8   | 3 3/8   | 5 9/16 | 3/8 | 5/8 | 1 15/16 | 2 11/16 | 4 1/8 |
| 50407HV | 2"     | 2/10     | 2     | 5 1/16  | 3 3/4   | 5 9/16 | 3/8 | 5/8 | 1 15/16 | 2 11/16 | 4 1/8 |

HV MODELS FIT BOTH STANDARD & HIGH VELOCITY PUMPS.

| NO. | DESCRIPTION           | MATERIAL                |
|-----|-----------------------|-------------------------|
| 1   | FLANGED BODY          | BRASS                   |
| 2   | END CAP               | BRASS                   |
| 3   | SEATS                 | PTFE                    |
| 4   | BALL                  | BRASS HCP               |
| 5   | STEM                  | BRASS                   |
| 6   | STEM SEAL             | PTFE                    |
| 7   | PACKING GLAND         | BRASS                   |
| 8   | LEVER HANDLE          | STEEL CP                |
| 9   | HANDLE NUT            | STAINLESS STEEL         |
| 10  | HANDLE JACKET         | VINYL                   |
| 11  | WING STYLE "T" HANDLE | STEEL CP W/ VINYL GRIPS |
| 12  | FLANGE BOLTS & NUTS   | STEEL ZP                |



Specifications: Designed for residential, commercial or industrial use with water or a glycol mixture This approved Webstone valve is actuated by a blowout proof stem and features an adjustable packing gland. Flange features a conical inlet to minimize turbulence. Threaded ends comply with ANSI B1.20.1. Solder joint temperature ratings are per ASME B16.18 Annex A for 95-5 solder. Other solder materials have lower pressure/temperature limits. Do not silver braze or overheat valves when soldering.

### THIS SPACE FOR DESIGNER / ENGINEER APPROVAL

|                         |            |                        |
|-------------------------|------------|------------------------|
| Job/Customer _____      | Date _____ | Contractor _____       |
| Model Specified _____   | Qty _____  | Approved By _____      |
| Designer/Engineer _____ | Date _____ | Contractor's PO# _____ |
| Submitted by _____      | Date _____ | Other _____            |

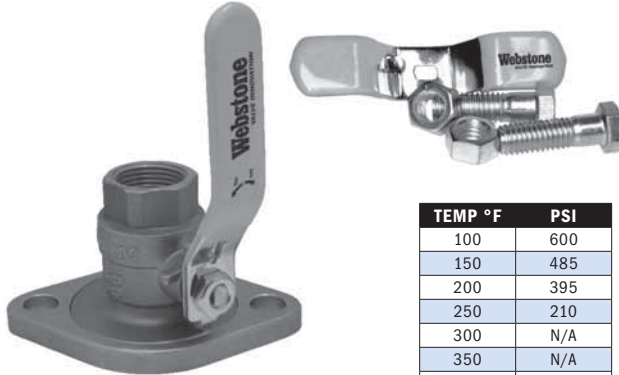
# The Isolator® w/ Rotating Flange

Full Port Forged Brass Uni-Flange Ball Valves  
w/ Detachable Rotating Flange & Bonus Wing Style "T" Handle, Nuts & Bolts

**600 WOG**  
**ISO 9001**  
**Patent Pending**



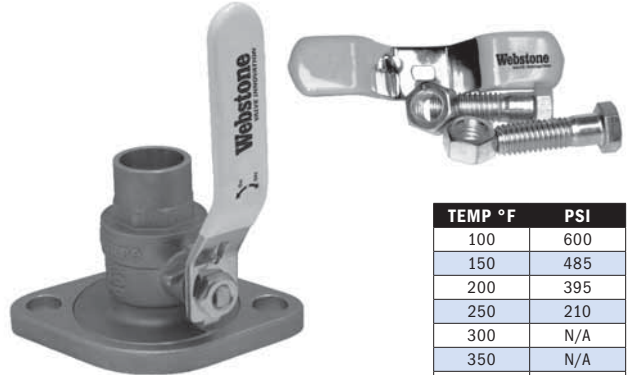
## 4140 Series - IPS x Rotating Flange



| TEMP °F | PSI |
|---------|-----|
| 100     | 600 |
| 150     | 485 |
| 200     | 395 |
| 250     | 210 |
| 300     | N/A |
| 350     | N/A |
| 366     | N/A |



## 5140 Series - SWT x Rotating Flange



| TEMP °F | PSI |
|---------|-----|
| 100     | 600 |
| 150     | 485 |
| 200     | 395 |
| 250     | 210 |
| 300     | N/A |
| 350     | N/A |
| 366     | N/A |

### 4140 Series - IPS x Rotating Flange

| ITEM #  | SIZE   | CTN/CASE | A     | B      | C       | D (LEVER) | E    | F   | G     | H       | I     |
|---------|--------|----------|-------|--------|---------|-----------|------|-----|-------|---------|-------|
| 41403   | 3/4"   | 2/20     | 3/4   | 2 3/8  | 2 13/16 | 3 7/8     | 7/16 | 1/2 | 1 1/2 | 2 11/16 | 4 1/8 |
| 41404   | 1"     | 2/20     | 1     | 3 1/16 | 2 5/8   | 4 11/16   | 7/16 | 1/2 | 1 1/2 | 2 11/16 | 4 1/8 |
| 41405   | 1 1/4" | 2/20     | 1 1/4 | 3 1/4  | 2 15/16 | 4 11/16   | 7/16 | 1/2 | 1 1/2 | 2 11/16 | 4 1/8 |
| 41406   | 1 1/2" | 2/20     | 1 1/2 | 4      | 3 1/2   | 5 5/8     | 7/16 | 1/2 | 1 1/2 | 2 11/16 | 4 1/8 |
| 41404HV | 1"     | 2/20     | 1     | 3 1/16 | 2 5/8   | 4 11/16   | 7/16 | 5/8 | 1 1/2 | 2 11/16 | 4 1/8 |
| 41405HV | 1 1/4" | 2/20     | 1 1/4 | 3 1/4  | 2 15/16 | 4 11/16   | 7/16 | 5/8 | 1 1/2 | 2 11/16 | 4 1/8 |
| 41406HV | 1 1/2" | 2/20     | 1 1/2 | 4      | 3 1/2   | 5 5/8     | 7/16 | 5/8 | 1 1/2 | 2 11/16 | 4 1/8 |

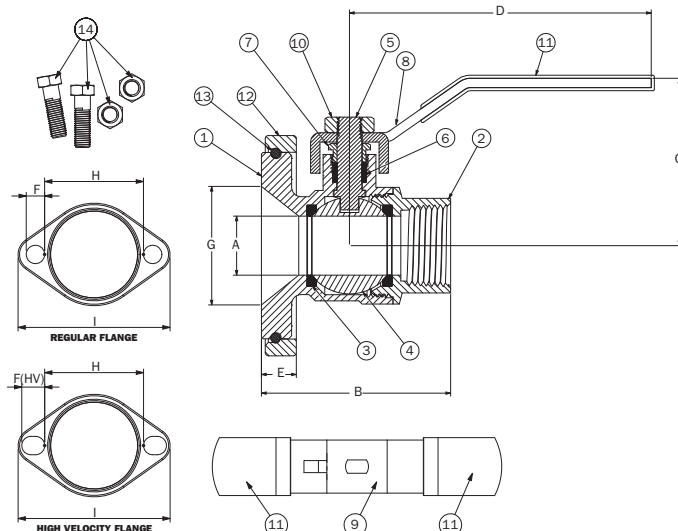
HV MODELS FIT BOTH STANDARD & HIGH VELOCITY PUMPS.

### 5140 Series - SWT x Rotating Flange

| ITEM #  | SIZE   | CTN/CASE | A     | B      | C       | D (LEVER) | E    | F   | G     | H       | I     |
|---------|--------|----------|-------|--------|---------|-----------|------|-----|-------|---------|-------|
| 51403   | 3/4"   | 2/20     | 3/4   | 2 9/16 | 2 3/16  | 3 7/8     | 7/16 | 1/2 | 1 1/2 | 2 11/16 | 4 1/8 |
| 51404   | 1"     | 2/20     | 1     | 3 5/16 | 2 5/8   | 4 11/16   | 7/16 | 1/2 | 1 1/2 | 2 11/16 | 4 1/8 |
| 51405   | 1 1/4" | 2/20     | 1 1/4 | 3 7/16 | 2 15/16 | 4 11/16   | 7/16 | 1/2 | 1 1/2 | 2 11/16 | 4 1/8 |
| 51406   | 1 1/2" | 2/20     | 1 1/2 | 4 6/16 | 3 8/16  | 5 5/8     | 7/16 | 1/2 | 1 1/2 | 2 11/16 | 4 1/8 |
| 51404HV | 1"     | 2/20     | 1     | 3 5/16 | 2 5/8   | 4 11/16   | 7/16 | 5/8 | 1 1/2 | 2 11/16 | 4 1/8 |
| 51405HV | 1 1/4" | 2/20     | 1 1/4 | 3 7/16 | 2 15/16 | 4 11/16   | 7/16 | 5/8 | 1 1/2 | 2 11/16 | 4 1/8 |
| 51406HV | 1 1/2" | 2/20     | 1 1/2 | 4 3/8  | 3 1/2   | 5 5/8     | 7/16 | 5/8 | 1 1/2 | 2 11/16 | 4 1/8 |

HV MODELS FIT BOTH STANDARD & HIGH VELOCITY PUMPS.

| NO. | DESCRIPTION           | MATERIAL        |
|-----|-----------------------|-----------------|
| 1   | FLANGED BODY          | BRASS           |
| 2   | END CAP               | BRASS           |
| 3   | SEATS                 | PTFE            |
| 4   | BALL                  | BRASS HCP       |
| 5   | STEM                  | BRASS           |
| 6   | STEM SEAL             | PTFE            |
| 7   | PACKING GLAND         | BRASS           |
| 8   | LEVER HANDLE          | STEEL CP        |
| 9   | WING STYLE "T" HANDLE | STEEL CP        |
| 10  | HANDLE NUT            | STAINLESS STEEL |
| 11  | HANDLE JACKET         | VINYL           |
| 12  | ROTATING FLANGE       | BRASS           |
| 13  | ROTATING FLANGE RING  | STAINLESS STEEL |
| 14  | FLANGE BOLTS & NUTS   | STEEL ZP        |



Specifications: Designed for residential, commercial or industrial use with water or a glycol mixture. This approved Webstone valve is actuated by a blowout proof stem and features an adjustable packing gland. Flange features a conical inlet to minimize turbulence. The rotating flange is secured by a snug-fit snapping that provides greater control over positioning during installation. Threaded ends comply with ANSI B1.20.1. Solder joint temperature ratings are per ASME B16.18 Annex A for 95-5 solder. Other solder materials have lower pressure/temperature limits. Do not silver braze or overheat valves when soldering.

### THIS SPACE FOR DESIGNER / ENGINEER APPROVAL

|                         |            |                        |
|-------------------------|------------|------------------------|
| Job/Customer _____      | Date _____ | Contractor _____       |
| Model Specified _____   | Qty _____  | Approved By _____      |
| Designer/Engineer _____ | Date _____ | Contractor's PO# _____ |
| Submitted by _____      | Date _____ | Other _____            |

# The Isolator® w/ Drain

Full Port Forged Brass Uni-Flange Ball Valves  
w/ Hi-Flow Hose Drain & Bonus Wing Style "T" Handle, Nuts & Bolts

**600 WOG  
ISO 9001  
Patented Technology**



## 4041 Series - IPS x Flange

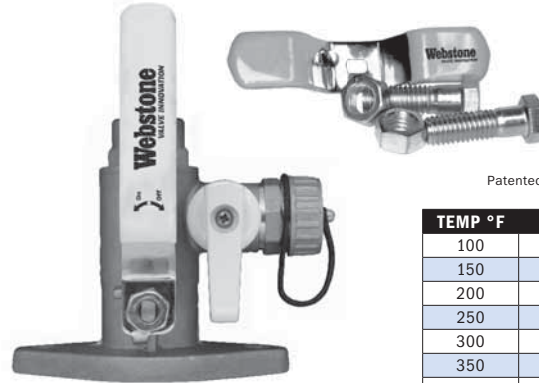


Patented Technology

| TEMP °F | PSI |
|---------|-----|
| 100     | 600 |
| 150     | 490 |
| 200     | 470 |
| 250     | 439 |
| 300     | 411 |
| 350     | 294 |
| 366     | N/A |



## 5041 Series - SWT x Flange



Patented Technology

| TEMP °F | PSI |
|---------|-----|
| 100     | 600 |
| 150     | 485 |
| 200     | 395 |
| 250     | 210 |
| 300     | N/A |
| 350     | N/A |
| 366     | N/A |

### 4041 Series - IPS x Flange

| ITEM #  | SIZE   | CTN/CASE | A     | B      | C     | D     | E   | F   | G       | H       | I     | J   |
|---------|--------|----------|-------|--------|-------|-------|-----|-----|---------|---------|-------|-----|
| 40413   | 3/4"   | 2/20     | 3/4   | 3 9/16 | 2 1/4 | 4     | 3/8 | 1/2 | 1       | 2 11/16 | 4 1/8 | 1/2 |
| 40414   | 1"     | 2/20     | 1     | 3 5/8  | 2 3/8 | 4 5/8 | 3/8 | 1/2 | 1 1/4   | 2 11/16 | 4 1/8 | 1/2 |
| 40415   | 1 1/4" | 2/20     | 1 1/4 | 4 1/16 | 2 7/8 | 4 5/8 | 3/8 | 1/2 | 1 9/16  | 2 11/16 | 4 1/8 | 3/4 |
| 40416   | 1 1/2" | 2/10     | 1 1/2 | 5 1/8  | 3 1/4 | 5 1/2 | 3/8 | 1/2 | 1 15/16 | 2 11/16 | 4 1/8 | 3/4 |
| 40414HV | 1"     | 2/20     | 1     | 3 5/8  | 2 3/8 | 4 5/8 | 3/8 | 5/8 | 1 1/4   | 2 11/16 | 4 1/8 | 1/2 |
| 40415HV | 1 1/4" | 2/20     | 1 1/4 | 4 1/16 | 2 7/8 | 4 5/8 | 3/8 | 5/8 | 1 9/16  | 2 11/16 | 4 1/8 | 3/4 |
| 40416HV | 1 1/2" | 2/10     | 1 1/2 | 5 1/8  | 3 1/4 | 5 1/2 | 3/8 | 5/8 | 1 15/16 | 2 11/16 | 4 1/8 | 3/4 |
| 40417HV | 2"     | 1/10     | 2     | 6 1/8  | 3 1/4 | 5 1/2 | 3/8 | 5/8 | 1 15/16 | 2 11/16 | 4 1/8 | 3/4 |

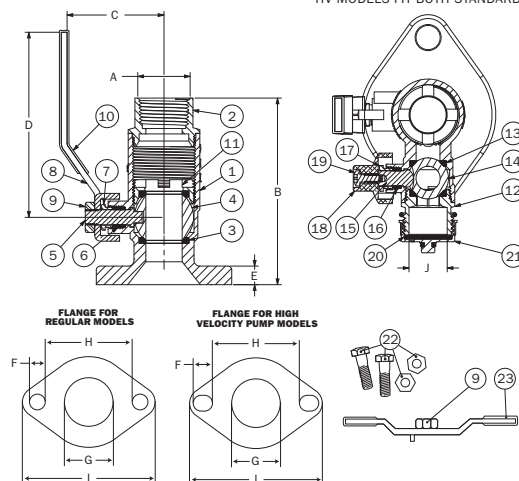
HV MODELS FIT BOTH STANDARD & HIGH VELOCITY PUMPS.

### 5041 Series - SWT x Flange

| ITEM #  | SIZE   | CTN/CASE | A     | B       | C     | D     | E   | F   | G       | H       | I     | J   |
|---------|--------|----------|-------|---------|-------|-------|-----|-----|---------|---------|-------|-----|
| 50413   | 3/4"   | 2/20     | 3/4   | 3 3/4   | 2 1/4 | 4     | 3/8 | 1/2 | 1       | 2 11/16 | 4 1/8 | 1/2 |
| 50414   | 1"     | 2/20     | 1     | 3 15/16 | 2 5/8 | 4 5/8 | 3/8 | 1/2 | 1 1/4   | 2 11/16 | 4 1/8 | 1/2 |
| 50415   | 1 1/4" | 2/20     | 1 1/4 | 4 1/4   | 3     | 4 5/8 | 3/8 | 1/2 | 1 9/16  | 2 11/16 | 4 1/8 | 3/4 |
| 50416   | 1 1/2" | 2/10     | 1 1/2 | 5 1/2   | 3 1/4 | 5 1/2 | 3/8 | 1/2 | 1 15/16 | 2 11/16 | 4 1/8 | 3/4 |
| 50414HV | 1"     | 2/20     | 1     | 3 15/16 | 2 5/8 | 4 5/8 | 3/8 | 5/8 | 1 1/4   | 2 11/16 | 4 1/8 | 1/2 |
| 50415HV | 1 1/4" | 2/20     | 1 1/4 | 4 1/4   | 3     | 4 5/8 | 3/8 | 5/8 | 1 9/16  | 2 11/16 | 4 1/8 | 3/4 |
| 50416HV | 1 1/2" | 2/10     | 1 1/2 | 5 1/2   | 3 1/4 | 5 1/2 | 3/8 | 5/8 | 1 15/16 | 2 11/16 | 4 1/8 | 3/4 |
| 50417HV | 2"     | 1/10     | 2     | 5 1/2   | 3 1/4 | 5 1/2 | 3/8 | 5/8 | 1 15/16 | 2 11/16 | 4 1/8 | 3/4 |

HV MODELS FIT BOTH STANDARD & HIGH VELOCITY PUMPS.

| NO. | DESCRIPTION           | MATERIAL               |
|-----|-----------------------|------------------------|
| 1   | BODY                  | BRASS                  |
| 2   | END CAP               | BRASS                  |
| 3   | SEATS                 | PTFE                   |
| 4   | BALL                  | BRASS HCP              |
| 5   | STEM                  | BRASS                  |
| 6   | STEM SEAL             | PTFE                   |
| 7   | PACKING GLAND         | BRASS                  |
| 8   | LEVER HANDLE          | STEEL CP               |
| 9   | HANDLE NUT            | STAINLESS STEEL        |
| 10  | HANDLE JACKET         | VINYL                  |
| 11  | SEAT RETAINER         | BRASS                  |
| 12  | DRAIN END CAP         | BRASS                  |
| 13  | DRAIN SEATS           | PTFE                   |
| 14  | DRAIN BALL            | BRASS HCP              |
| 15  | DRAIN STEM            | BRASS                  |
| 16  | DRAIN STEM SEAL       | PTFE                   |
| 17  | DRAIN PACKING GLAND   | BRASS                  |
| 18  | DRAIN HANDLE          | ENAMEL COATED ALUMINUM |
| 19  | DRAIN HANDLE SCREW    | BRASS                  |
| 20  | WASHER                | EPDM                   |
| 21  | CAP AND STRAP         | BRASS W/ EPDM STRAP    |
| 22  | FLANGE BOLTS AND NUTS | STEEL ZP               |
| 23  | WING STYLE "T" HANDLE | STEEL CP               |



Specifications: Designed for residential, commercial or industrial use with water or a glycol mixture. This approved Webstone valve is actuated by a blowout proof stem and features an adjustable packing gland. Flange features a conical inlet to minimize turbulence. Threaded ends comply with ANSI B1.20.1. Solder joint temperature ratings are per ASME B16.18 Annex A for 95-5 solder. Other solder materials have lower pressure/temperature limits. Do not silver braze or overheat valves when soldering.

### THIS SPACE FOR DESIGNER / ENGINEER APPROVAL

|                         |            |                        |
|-------------------------|------------|------------------------|
| Job/Customer _____      | Date _____ | Contractor _____       |
| Model Specified _____   | Qty _____  | Approved By _____      |
| Designer/Engineer _____ | Date _____ | Contractor's PO# _____ |
| Submitted by _____      | Date _____ | Other _____            |

# The Isolator® w/ Rotating Flange & Drain

Full Port Forged Brass Uni-Flange Ball Valves  
w/ Detachable Rotating Flange & Multi-Function Hi-Flow Hose Drain, Nuts & Bolts

**600 WOG  
ISO 9001  
Patented Technology**



## 4141 Series - IPS x Rotating Flange

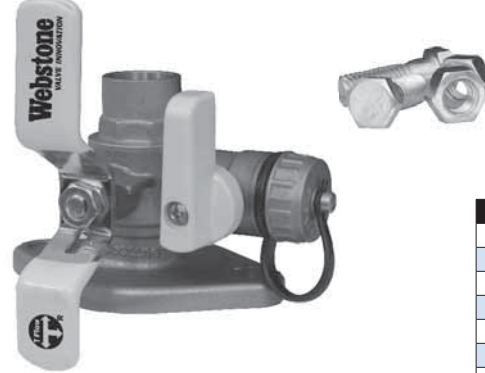


Patented Technology

| TEMP °F | PSI |
|---------|-----|
| 100     | 600 |
| 150     | 490 |
| 200     | 470 |
| 250     | 439 |
| 300     | 411 |
| 350     | 294 |
| 366     | N/A |



## 5141 Series - SWT x Rotating Flange



Patented Technology

| TEMP °F | PSI |
|---------|-----|
| 100     | 600 |
| 150     | 485 |
| 200     | 395 |
| 250     | 210 |
| 300     | N/A |
| 350     | N/A |
| 366     | N/A |

### 4141 Series - IPS x Rotating Flange

| ITEM #  | SIZE   | CTN/CASE | A     | B       | C      | D       | E   | F   | G       | H       | I      | J     |
|---------|--------|----------|-------|---------|--------|---------|-----|-----|---------|---------|--------|-------|
| 41413   | 3/4"   | 2/20     | 3/4   | 2 3/8   | 2 3/8  | 2 1/2   | 3/8 | 1/2 | 1       | 2 11/16 | 4 3/16 | 2 3/4 |
| 41414   | 1"     | 2/20     | 1     | 2 15/16 | 2 5/8  | 2 1/2   | 3/8 | 1/2 | 1 1/4   | 2 11/16 | 4 3/16 | 2 3/4 |
| 41415   | 1 1/4" | 2/20     | 1 1/4 | 3 5/16  | 3 3/16 | 3 3/16  | 3/8 | 1/2 | 1 9/16  | 2 11/16 | 4 3/16 | 3 1/4 |
| 41416   | 1 1/2" | 2/10     | 1 1/2 | 4       | 3 3/8  | 3 13/16 | 3/8 | 1/2 | 1 15/16 | 2 11/16 | 4 3/16 | 3 1/2 |
| 41414HV | 1"     | 2/20     | 1     | 2 15/16 | 2 5/8  | 2 1/2   | 3/8 | 5/8 | 1 1/4   | 2 11/16 | 4 3/16 | 2 3/4 |
| 41415HV | 1 1/4" | 2/20     | 1 1/4 | 3 5/16  | 3 3/16 | 3 3/16  | 3/8 | 5/8 | 1 9/16  | 2 11/16 | 4 3/16 | 3 1/4 |
| 41416HV | 1 1/2" | 2/10     | 1 1/2 | 4       | 3 3/8  | 3 13/16 | 3/8 | 5/8 | 1 15/16 | 2 11/16 | 4 3/16 | 3 1/2 |

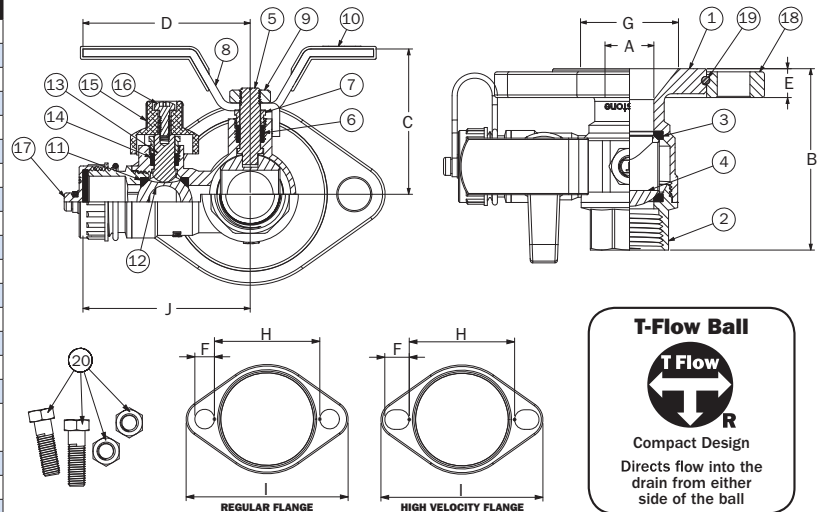
### 5141 Series - SWT x Rotating Flange

HV MODELS FIT BOTH STANDARD & HIGH VELOCITY PUMPS.

| ITEM #  | SIZE   | CTN/CASE | A     | B     | C      | D       | E   | F   | G       | H       | I      | J     |
|---------|--------|----------|-------|-------|--------|---------|-----|-----|---------|---------|--------|-------|
| 51413   | 3/4"   | 2/20     | 3/4   | 3     | 2 7/16 | 2 1/2   | 3/8 | 1/2 | 1       | 2 11/16 | 4 3/16 | 2 3/4 |
| 51414   | 1"     | 2/20     | 1     | 3 1/4 | 2 5/8  | 2 1/2   | 3/8 | 1/2 | 1 1/4   | 2 11/16 | 4 3/16 | 2 3/4 |
| 51415   | 1 1/4" | 2/20     | 1 1/4 | 3 1/2 | 3 1/6  | 3 3/16  | 3/8 | 1/2 | 1 9/16  | 2 11/16 | 4 3/16 | 3 1/4 |
| 51416   | 1 1/2" | 2/10     | 1 1/2 | 4 3/8 | 3 3/8  | 3 13/16 | 3/8 | 1/2 | 1 15/16 | 2 11/16 | 4 3/16 | 3/12  |
| 51414HV | 1"     | 2/20     | 1     | 3 1/4 | 2 5/8  | 2 1/2   | 3/8 | 5/8 | 1 1/4   | 2 11/16 | 4 3/16 | 2 3/4 |
| 51415HV | 1 1/4" | 2/20     | 1 1/4 | 3 1/2 | 3 1/6  | 3 3/16  | 3/8 | 5/8 | 1 9/16  | 2 11/16 | 4 3/16 | 3 1/4 |
| 51416HV | 1 1/2" | 2/10     | 1 1/2 | 4 3/8 | 3 3/8  | 3 13/16 | 3/8 | 5/8 | 1 15/16 | 2 11/16 | 4 3/16 | 3/12  |

HV MODELS FIT BOTH STANDARD & HIGH VELOCITY PUMPS.

| NO. | DESCRIPTION                     | MATERIAL                     |
|-----|---------------------------------|------------------------------|
| 1   | FLANGED BODY                    | BRASS                        |
| 2   | END CAP                         | BRASS                        |
| 3   | SEATS                           | PTFE                         |
| 4   | BALL                            | BRASS HCP                    |
| 5   | STEM                            | BRASS                        |
| 6   | STEM SEAL                       | PTFE                         |
| 7   | PACKING GLAND                   | BRASS                        |
| 8   | HANDLE                          | STEEL CP                     |
| 9   | HANDLE NUT                      | STAINLESS STEEL              |
| 10  | HANDLE JACKET                   | VINYL                        |
| 11  | DRAIN VALVE SEATS               | PTFE                         |
| 12  | DRAIN VALVE BALL                | BRASS HCP                    |
| 13  | DRAIN VALVE STEM                | BRASS                        |
| 14  | DRAIN VALVE STEM SEAL           | PTFE                         |
| 15  | DRAIN VALVE HANDLE              | ENAMEL COATED ALUMINUM       |
| 16  | DRAIN VALVE HANDLE SCREW        | BRASS                        |
| 17  | DRAIN VALVE CAP, WASHER & STRAP | BRASS W/ EPDM WASHER & STRAP |
| 18  | ROTATING FLANGE                 | BRASS                        |
| 19  | ROTATING FLANGE RING            | STAINLESS STEEL              |
| 20  | FLANGE BOLTS & NUTS             | STEEL ZP                     |



Specifications: Designed for residential, commercial or industrial use with water or a glycol mixture. This approved Webstone valve is actuated by a blowout proof stem and features an adjustable packing nut. Flange features a conical inlet to minimize turbulence. The rotating flange is secured by a snug-fit snap-ring that provides greater control over positioning during installation. Multi-directional main valve allows for draining from either side of the pump. Threaded ends comply with ANSI B1.20.1. Solder joint temperature ratings are per ASME B16.18 Annex A for 95-5 solder. Other solder materials have lower pressure/temperature limits. Do not silver braze or overheat valves when soldering.

### THIS SPACE FOR DESIGNER / ENGINEER APPROVAL

|                         |            |                        |
|-------------------------|------------|------------------------|
| Job/Customer _____      | Date _____ | Contractor _____       |
| Model Specified _____   | Qty _____  | Approved By _____      |
| Designer/Engineer _____ | Date _____ | Contractor's PO# _____ |
| Submitted by _____      | Date _____ | Other _____            |

# The Isolator® Check Valve

Full Port Forged Brass Uni-Flange Ball Valves w/ Replaceable Integral Spring Check  
Bonus Wing Style "T" Handle, Nuts & Bolts

**600 WOG**  
**150 PSI @ 200°F**  
**ISO 9001**



## 4240 Series - IPS x Flange



| TEMP °F | PSI |
|---------|-----|
| 100     | 150 |
| 150     | 150 |
| 200     | 150 |
| 250     | N/A |
| 300     | N/A |
| 350     | N/A |
| 366     | N/A |



## 5240 Series - SWT x Flange



| TEMP °F | PSI |
|---------|-----|
| 100     | 150 |
| 150     | 150 |
| 200     | 150 |
| 250     | N/A |
| 300     | N/A |
| 350     | N/A |
| 366     | N/A |

### 4240 Series - IPS x Flange

| ITEM #  | SIZE   | CTN/CASE | A     | B       | C       | D     | E   | F   | G       | H       | I     |
|---------|--------|----------|-------|---------|---------|-------|-----|-----|---------|---------|-------|
| 42403   | 3/4"   | 1/10     | 3/4   | 3 1/4   | 2 1/4   | 4     | 3/8 | 1/2 | 1       | 2 11/16 | 4 1/8 |
| 42404   | 1"     | 1/10     | 1     | 4 1/16  | 2 1/2   | 4 5/8 | 3/8 | 1/2 | 1 1/4   | 2 11/16 | 4 1/8 |
| 42405   | 1 1/4" | 1/10     | 1 1/4 | 4 15/16 | 2 15/16 | 4 5/8 | 3/8 | 1/2 | 1 9/16  | 2 11/16 | 4 1/8 |
| 42406   | 1 1/2" | 1/10     | 1 1/2 | 4 15/16 | 3 3/8   | 5 1/2 | 3/8 | 1/2 | 1 15/16 | 2 11/16 | 4 1/8 |
| 42404HV | 1"     | 1/10     | 1     | 4 1/16  | 2 1/2   | 4 5/8 | 3/8 | 5/8 | 1 1/4   | 2 11/16 | 4 1/8 |
| 42405HV | 1 1/4" | 1/10     | 1 1/4 | 4 15/16 | 2 15/16 | 4 5/8 | 3/8 | 5/8 | 1 9/16  | 2 11/16 | 4 1/8 |
| 42406HV | 1 1/2" | 1/10     | 1 1/2 | 4 15/16 | 3 3/8   | 5 1/2 | 3/8 | 5/8 | 1 15/16 | 2 11/16 | 4 1/8 |

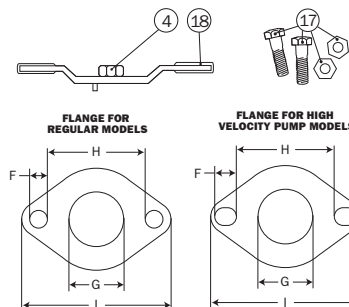
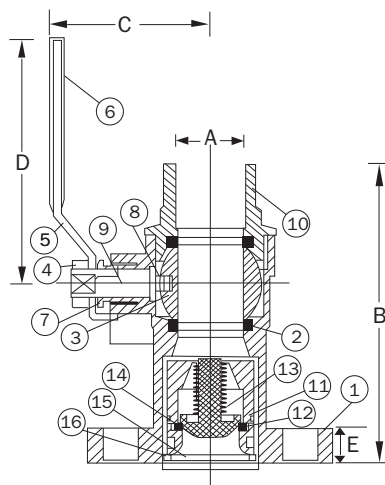
HV MODELS FIT BOTH STANDARD & HIGH VELOCITY PUMPS.

### 5240 Series - SWT x Flange

| ITEM #  | SIZE   | CTN/CASE | A     | B       | C       | D     | E   | F   | G       | H       | I     |
|---------|--------|----------|-------|---------|---------|-------|-----|-----|---------|---------|-------|
| 52403   | 3/4"   | 1/10     | 3/4   | 3 7/16  | 2 5/16  | 4     | 3/8 | 1/2 | 1       | 2 11/16 | 4 1/8 |
| 52404   | 1"     | 1/10     | 1     | 4 7/16  | 2 1/2   | 4 5/8 | 3/8 | 1/2 | 1 1/4   | 2 11/16 | 4 1/8 |
| 52405   | 1 1/4" | 1/10     | 1 1/4 | 5 13/16 | 2 15/16 | 4 5/8 | 3/8 | 1/2 | 1 9/16  | 2 11/16 | 4 1/8 |
| 52406   | 1 1/2" | 1/10     | 1 1/2 | 5 13/16 | 3 3/8   | 5 1/2 | 3/8 | 1/2 | 1 15/16 | 2 11/16 | 4 1/8 |
| 52404HV | 1"     | 1/10     | 1     | 4 7/16  | 2 1/2   | 4 5/8 | 3/8 | 5/8 | 1 1/4   | 2 11/16 | 4 1/8 |
| 52405HV | 1 1/4" | 1/10     | 1 1/4 | 5 13/16 | 2 15/16 | 4 5/8 | 3/8 | 5/8 | 1 9/16  | 2 11/16 | 4 1/8 |
| 52406HV | 1 1/2" | 1/10     | 1 1/2 | 5 13/16 | 3 3/8   | 5 1/2 | 3/8 | 5/8 | 1 15/16 | 2 11/16 | 4 1/8 |

HV MODELS FIT BOTH STANDARD & HIGH VELOCITY PUMPS.

| NO. | DESCRIPTION           | MATERIAL                |
|-----|-----------------------|-------------------------|
| 1   | FLANGED BODY          | BRASS                   |
| 2   | SEATS                 | PTFE                    |
| 3   | BALL                  | BRASS HCP               |
| 4   | HANDLE NUT            | BRASS                   |
| 5   | LEVER HANDLE          | STEEL CP                |
| 6   | HANDLE JACKET         | VINYL                   |
| 7   | PACKING GLAND         | BRASS                   |
| 8   | STEM SEAL             | PTFE                    |
| 9   | STEM                  | BRASS                   |
| 10  | END CAP               | BRASS                   |
| 11  | CHECK VALVE BODY      | ABS                     |
| 12  | O-RING - INNER SEAL   | NBR                     |
| 13  | SPRING                | STAINLESS STEEL 316     |
| 14  | POPPET                | ABS                     |
| 15  | O-RING - OUTER SEAL   | ABS                     |
| 16  | RETAINING RING        | STAINLESS STEEL 316     |
| 17  | FLANGE BOLTS & NUTS   | STEEL ZP                |
| 18  | WING STYLE "T" HANDLE | STEEL CP W/ VINYL GRIPS |



| SIZE   | C <sub>v</sub> | CRACKING PRESSURE (PSI) | RECOMMENDED FLOW RANGE (GPM) |
|--------|----------------|-------------------------|------------------------------|
| 3/4"   | 15.6           | 0.22                    | 9-30                         |
| 1"     | 27.4           | 0.15                    | 16-50                        |
| 1 1/4" | 42.4           | 0.16                    | 23-80                        |
| 1 1/2" | 66.6           | 0.17                    | 55-120                       |
| 2"     | 66.6           | 0.17                    | 55-120                       |

Specifications: Designed for residential, commercial or industrial use with water or a glycol mixture in conjunction with circulator pumps without integral checks. The valve operates in a horizontal or vertical position. This approved Webstone valve is actuated by a blowout proof stem and features an adjustable packing gland. Threaded ends comply with ANSI B1.20.1 Solder joint temperature ratings are per ASME B16.18 Annex A for 95-5 solder. Other solder materials have lower pressure/temperature limits. Do not silver braze or overheat valves when soldering.

### THIS SPACE FOR DESIGNER / ENGINEER APPROVAL

|                         |            |                        |
|-------------------------|------------|------------------------|
| Job/Customer _____      | Date _____ | Contractor _____       |
| Model Specified _____   | Qty _____  | Approved By _____      |
| Designer/Engineer _____ | Date _____ | Contractor's PO# _____ |
| Submitted by _____      | Date _____ | Other _____            |

# The Isolator® Check Valve w/ Rotating Flange

Full Port Forged Brass Uni-Flange Ball Valves w/ Replaceable Integral Spring Check  
& Detachable Rotating Flange • Bonus Wing Style "T" Handle, Nuts & Bolts

**600 WOG**  
**150 PSI @ 200°F**  
**ISO 9001**



## 4340 Series - IPS × Rotating Flange



| TEMP °F | PSI |
|---------|-----|
| 100     | 150 |
| 150     | 150 |
| 200     | 150 |
| 250     | N/A |
| 300     | N/A |
| 350     | N/A |
| 366     | N/A |



## 5340 Series - SWT × Rotating Flange



| TEMP °F | PSI |
|---------|-----|
| 100     | 150 |
| 150     | 150 |
| 200     | 150 |
| 250     | N/A |
| 300     | N/A |
| 350     | N/A |
| 366     | N/A |

## 4340 Series - IPS × Rotating Flange

| ITEM #  | SIZE   | CTN/CASE | A     | B       | C       | D     | E   | F   | G       | H       | I     |
|---------|--------|----------|-------|---------|---------|-------|-----|-----|---------|---------|-------|
| 43403   | 3/4"   | 1/10     | 3/4   | 3 1/4   | 2 1/4   | 4     | 3/8 | 1/2 | 1       | 2 11/16 | 4 1/8 |
| 43404   | 1"     | 1/10     | 1     | 4 1/16  | 2 1/2   | 4 5/8 | 3/8 | 1/2 | 1 1/4   | 2 11/16 | 4 1/8 |
| 43405   | 1 1/4" | 1/10     | 1 1/4 | 4 15/16 | 2 15/16 | 4 5/8 | 3/8 | 1/2 | 1 9/16  | 2 11/16 | 4 1/8 |
| 43406   | 1 1/2" | 1/10     | 1 1/4 | 4 15/16 | 3 3/8   | 5 1/2 | 3/8 | 1/2 | 1 15/16 | 2 11/16 | 4 1/8 |
| 43403HV | 3/4"   | 1/10     | 3/4   | 3 1/4   | 2 1/4   | 4     | 3/8 | 5/8 | 1       | 2 11/16 | 4 1/8 |
| 43404HV | 1"     | 1/10     | 1     | 4 1/16  | 2 1/2   | 4 5/8 | 3/8 | 5/8 | 1 1/4   | 2 11/16 | 4 1/8 |
| 43405HV | 1 1/4" | 1/10     | 1 1/4 | 4 15/16 | 2 15/16 | 4 5/8 | 3/8 | 5/8 | 1 9/16  | 2 11/16 | 4 1/8 |
| 43406HV | 1 1/2" | 1/10     | 1 1/4 | 4 15/16 | 3 3/8   | 5 1/2 | 3/8 | 5/8 | 1 15/16 | 2 11/16 | 4 1/8 |

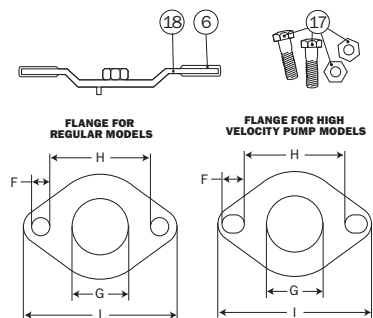
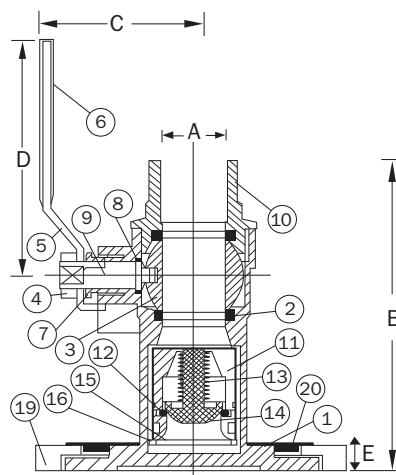
HV MODELS FIT BOTH STANDARD & HIGH VELOCITY PUMPS.

## 5340 Series - SWT × Rotating Flange

| ITEM #  | SIZE   | CTN/CASE | A     | B      | C       | D     | E   | F   | G       | H       | I     |
|---------|--------|----------|-------|--------|---------|-------|-----|-----|---------|---------|-------|
| 53403   | 3/4"   | 1/10     | 3/4   | 3 7/16 | 2 1/4   | 4     | 3/8 | 1/2 | 1       | 2 11/16 | 4 1/8 |
| 53404   | 1"     | 1/10     | 1     | 4 7/16 | 2 1/2   | 4 5/8 | 3/8 | 1/2 | 1 1/4   | 2 11/16 | 4 1/8 |
| 53405   | 1 1/4" | 1/10     | 1 1/4 | 5 3/16 | 2 15/16 | 4 5/8 | 3/8 | 1/2 | 1 9/16  | 2 11/16 | 4 1/8 |
| 53406   | 1 1/2" | 1/10     | 1 1/4 | 5 3/16 | 3 3/8   | 5 1/2 | 3/8 | 1/2 | 1 15/16 | 2 11/16 | 4 1/8 |
| 53403HV | 3/4"   | 1/10     | 3/4   | 3 7/16 | 2 1/4   | 4     | 3/8 | 5/8 | 1       | 2 11/16 | 4 1/8 |
| 53404HV | 1"     | 1/10     | 1     | 4 7/16 | 2 1/2   | 4 5/8 | 3/8 | 5/8 | 1 1/4   | 2 11/16 | 4 1/8 |
| 53405HV | 1 1/4" | 1/10     | 1 1/4 | 5 3/16 | 2 15/16 | 4 5/8 | 3/8 | 5/8 | 1 9/16  | 2 11/16 | 4 1/8 |
| 53406HV | 1 1/2" | 1/10     | 1 1/4 | 5 3/16 | 3 3/8   | 5 1/2 | 3/8 | 5/8 | 1 15/16 | 2 11/16 | 4 1/8 |

HV MODELS FIT BOTH STANDARD & HIGH VELOCITY PUMPS.

| NO. | DESCRIPTION           | MATERIAL                |
|-----|-----------------------|-------------------------|
| 1   | FLANGED BODY          | BRASS                   |
| 2   | SEATS                 | PTFE                    |
| 3   | BALL                  | BRASS HCP               |
| 4   | HANDLE NUT            | BRASS                   |
| 5   | LEVER HANDLE          | STEEL CP                |
| 6   | HANDLE JACKET         | VINYL                   |
| 7   | PACKING GLAND         | BRASS                   |
| 8   | STEM SEAL             | PTFE                    |
| 9   | STEM                  | BRASS                   |
| 10  | END CAP               | BRASS                   |
| 11  | CHECK VALVE BODY      | ABS                     |
| 12  | O-RING - INNER SEAL   | NBR                     |
| 13  | SPRING                | STAINLESS STEEL 316     |
| 14  | POPPET                | ABS                     |
| 15  | O-RING - OUTER SEAL   | ABS                     |
| 16  | RETAINING RING        | STAINLESS STEEL 316     |
| 17  | FLANGE BOLTS & NUTS   | STEEL ZP                |
| 18  | WING STYLE "T" HANDLE | STEEL CP W/ VINYL GRIPS |
| 19  | ROTATING FLANGE       | BRASS                   |
| 20  | FLANGE RING           | ABS                     |



| SIZE   | C <sub>v</sub> | CRACKING PRESSURE (PSI) | RECOMMENDED FLOW RANGE (GPM) |
|--------|----------------|-------------------------|------------------------------|
| 3/4"   | 15.6           | 0.22                    | 9-30                         |
| 1"     | 27.4           | 0.15                    | 16-50                        |
| 1 1/4" | 42.4           | 0.16                    | 23-80                        |
| 1 1/2" | 42.4           | 0.16                    | 23-80                        |

Specifications: Designed for residential, commercial or industrial use with water or a glycol mixture in conjunction with circulator pumps without integral checks. The valve operates in a horizontal or vertical position. This approved Webstone valve is actuated by a blowout proof stem and features an adjustable packing gland. Threaded ends comply with ANSI B1.20.1. Solder joint temperature ratings are per ASME B16.18 Annex A for 95-5 solder. Other solder materials have lower pressure/temperature limits. Do not silver braze or overheat valves when soldering.

## THIS SPACE FOR DESIGNER / ENGINEER APPROVAL

|                         |            |                        |
|-------------------------|------------|------------------------|
| Job/Customer _____      | Date _____ | Contractor _____       |
| Model Specified _____   | Qty _____  | Approved By _____      |
| Designer/Engineer _____ | Date _____ | Contractor's PO# _____ |
| Submitted by _____      | Date _____ | Other _____            |

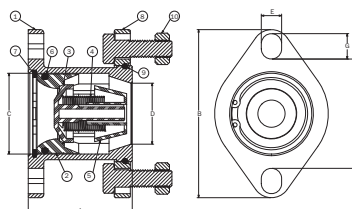
## The Isolator® Double Flanged Check

Forged Brass Check Valve w/ Rotating Flange  
Includes one set of Mounting Bolts & Full Faced Flange Gasket

**150 PSI @ 200°F**  
**ISO 9001**  
**Patent Pending**



### 1370 Series



| NO. | DESCRIPTION          | MATERIAL        |
|-----|----------------------|-----------------|
| 1   | FLANGE BODY          | BRASS           |
| 2   | CHECK VALVE BODY     | ABS             |
| 3   | O-RING INNER SEAL    | NBR             |
| 4   | SPRING               | STAINLESS STEEL |
| 5   | POPPET               | ABS             |
| 6   | O-RING OUTER SEAL    | NBR             |
| 7   | RETAINING RING       | STAINLESS STEEL |
| 8   | ROTATING FLANGE      | BRASS           |
| 9   | ROTATING FLANGE RING | STAINLESS STEEL |
| 10  | FLANGE NUTS & BOLTS  | STEEL ZP        |

| TEMP °F | PSI |
|---------|-----|
| 100     | 150 |
| 150     | 150 |
| 200     | 150 |
| 250     | N/A |
| 300     | N/A |
| 350     | N/A |
| 366     | N/A |

### 1370 Series - Flange x Rotating Flange

| ITEM #  | SIZE       | CTN/CASE | A      | B      | C | D     | E   | F       | G   |
|---------|------------|----------|--------|--------|---|-------|-----|---------|-----|
| 13706HV | 1/2" or 2" | 1/10     | 2 9/16 | 4 3/16 | 2 | 1 1/2 | 3/8 | 2 11/16 | 5/8 |

Specifications: Designed for residential, commercial or industrial use with water or a glycol mixture in conjunction with circulator pumps without integral checks. The valve operates in a horizontal or vertical position. The rotating flange is secured by a snug-fit snap-ring that provides greater control over positioning during installation.

### THIS SPACE FOR DESIGNER / ENGINEER APPROVAL

|                         |            |                        |
|-------------------------|------------|------------------------|
| Job/Customer _____      | Date _____ | Contractor _____       |
| Model Specified _____   | Qty _____  | Approved By _____      |
| Designer/Engineer _____ | Date _____ | Contractor's PO# _____ |
| Submitted by _____      | Date _____ | Other _____            |



## CIRCULATOR PUMP INSTALLATION KITS



### THE ISOLATOR® CIRCULATOR PUMP INSTALLATION KIT

| ITEM #              | SIZE   | CTN/CASE | WT/CASE |
|---------------------|--------|----------|---------|
| <b>IPS x FLANGE</b> |        |          |         |
| 40413KIT            | 3/4"   | 1/10     | 40      |
| 40414KIT            | 1"     | 1/10     | 47      |
| 40415KIT            | 1 1/4" | 1/10     | 57      |
| <b>SWT x FLANGE</b> |        |          |         |
| 50413KIT            | 3/4"   | 1/10     | 40      |
| 50414KIT            | 1"     | 1/10     | 48      |
| 50415KIT            | 1 1/4" | 1/10     | 59      |

1" - 1 1/4" also available for High Velocity Pumps.  
To order, add HV onto the end of the part # before "KIT".

### THE ISOLATOR® W/ ROTATING FLANGE CIRCULATOR PUMP INSTALLATION KIT

| ITEM #                       | SIZE   | CTN/CASE | WT/CASE |
|------------------------------|--------|----------|---------|
| <b>IPS x ROTATING FLANGE</b> |        |          |         |
| 41413KIT                     | 3/4"   | 1/10     | 38      |
| 41414KIT                     | 1"     | 1/10     | 39      |
| 41415KIT                     | 1 1/4" | 1/10     | 60      |
| <b>SWT x ROTATING FLANGE</b> |        |          |         |
| 51413KIT                     | 3/4"   | 1/10     | 37      |
| 51414KIT                     | 1"     | 1/10     | 47      |
| 51415KIT                     | 1 1/4" | 1/10     | 60      |

Also available for High Velocity Pumps. To order, add HV onto the end of the part # before "KIT".



## EVERYTHING BUT THE PUMP!

1 ISOLATOR®  
1 ISOLATOR® W/DRAIN  
2 FULL-FACED FLANGE GASKETS  
2 SETS OF NUTS & BOLTS  
& BONUS WING STYLE "T" HANDLES

# Pro-Pal® T-Drain™

Full Port Forged Brass Fitting  
w/ Hi-Flow Hose Drain

**600 WOG  
ISO 9001**



## 4067 Series - IPS



| TEMP °F | PSI |
|---------|-----|
| 100     | 600 |
| 150     | 490 |
| 200     | 470 |
| 250     | 439 |
| 300     | 411 |
| 350     | 294 |
| 366     | N/A |

## 4067 Series - IPS

| ITEM # | SIZE   | CTN/CASE | A     | B       | C   | D       |
|--------|--------|----------|-------|---------|-----|---------|
| 40672  | 1/2"   | 10/80    | 1/2   | 1 15/16 | 1/2 | 2 15/16 |
| 40673  | 3/4"   | 8/48     | 3/4   | 2 5/16  | 1/2 | 3 7/16  |
| 40674  | 1"     | 8/48     | 1     | 2 5/16  | 1/2 | 3 13/16 |
| 40675  | 1 1/4" | 6/24     | 1 1/4 | 2 7/8   | 3/4 | 4 1/4   |
| 40676  | 1 1/2" | 4/24     | 1 1/2 | 2 7/8   | 3/4 | 4 5/8   |
| 40677  | 2"     | 2/20     | 2     | 3       | 3/4 | 5 3/16  |



## 5067 Series - SWT

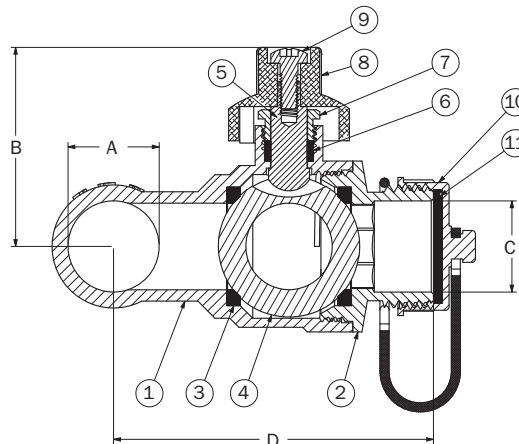


| TEMP °F | PSI |
|---------|-----|
| 100     | 600 |
| 150     | 485 |
| 200     | 395 |
| 250     | 210 |
| 300     | N/A |
| 350     | N/A |
| 366     | N/A |

## 5067 Series - SWT

| ITEM # | SIZE   | CTN/CASE | A     | B       | C   | D       |
|--------|--------|----------|-------|---------|-----|---------|
| 50672  | 1/2"   | 10/80    | 1/2   | 1 3/4   | 1/2 | 2 3/16  |
| 50673  | 3/4"   | 8/48     | 3/4   | 2 3/8   | 1/2 | 2 13/16 |
| 50674  | 1"     | 8/48     | 1     | 2 13/16 | 1/2 | 2 13/16 |
| 50675  | 1 1/4" | 6/24     | 1 1/4 | 3 3/16  | 3/4 | 2 13/16 |
| 50676  | 1 1/2" | 4/24     | 1 1/2 | 3 3/8   | 3/4 | 2 13/16 |
| 50677  | 2"     | 2/20     | 2     | 3 5/8   | 3/4 | 3 1/16  |

| NO. | DESCRIPTION   | MATERIAL               |
|-----|---------------|------------------------|
| 1   | BODY          | BRASS                  |
| 2   | END CAP       | BRASS                  |
| 3   | SEAT          | PTFE                   |
| 4   | BALL          | BRASS HCP              |
| 5   | STEM          | BRASS                  |
| 6   | STEM SEAL     | PTFE                   |
| 7   | PACKING GLAND | BRASS                  |
| 8   | HANDLE        | ENAMEL COATED ALUMINUM |
| 9   | HANDLE SCREW  | BRASS                  |
| 10  | CAP & STRAP   | BRASS W/ EPDM STRAP    |
| 11  | WASHER        | EPDM                   |



Specifications: Designed for residential, commercial or industrial use with water, oil or gas. This approved Webstone valve is actuated by a blowout proof stem and features an adjustable packing gland. Threaded ends comply with ANSI B1.20.1. Solder joint temperature ratings are per ASME B16.18 Annex A for 95-5 solder. Other solder materials have lower pressure/temperature limits. Do not silver braze or overheat valves when soldering.

### THIS SPACE FOR DESIGNER / ENGINEER APPROVAL

|                         |            |                        |
|-------------------------|------------|------------------------|
| Job/Customer _____      | Date _____ | Contractor _____       |
| Model Specified _____   | Qty _____  | Approved By _____      |
| Designer/Engineer _____ | Date _____ | Contractor's P0# _____ |
| Submitted by _____      | Date _____ | Other _____            |

# Pro-Pal® Ball Drain

Full Port Forged Brass Ball Valves  
w/ Hi-Flow Hose Drain & Reversible Handle

**600 WOG  
ISO 9001**

**PRO-PAL  
SERIES**

**BALL DRAIN**

## 4061 Series - IPS



| TEMP °F | PSI |
|---------|-----|
| 100     | 600 |
| 150     | 490 |
| 200     | 470 |
| 250     | 439 |
| 300     | 411 |
| 350     | 294 |
| 366     | N/A |

**PRO-PAL  
SERIES**

**BALL DRAIN**

## 5061 Series - SWT



| TEMP °F | PSI |
|---------|-----|
| 100     | 600 |
| 150     | 485 |
| 200     | 395 |
| 250     | 210 |
| 300     | N/A |
| 350     | N/A |
| 366     | N/A |

**PRO-PAL  
SERIES**

**BALL DRAIN**

## 5461 Series - SWT x IPS



| TEMP °F | PSI |
|---------|-----|
| 100     | 600 |
| 150     | 485 |
| 200     | 395 |
| 250     | 210 |
| 300     | N/A |
| 350     | N/A |
| 366     | N/A |

### 4061 Series - IPS

| ITEM# | SIZE   | CTN/CASE | A     | B     | C      | D     | E      | F   |
|-------|--------|----------|-------|-------|--------|-------|--------|-----|
| 40612 | 1/2"   | 6/36     | 1/2   | 2 1/2 | 2      | 3 7/8 | 2 1/2  | 1/2 |
| 40613 | 3/4"   | 6/36     | 3/4   | 2 5/8 | 2 1/16 | 3 7/8 | 2 3/8  | 1/2 |
| 40614 | 1"     | 4/24     | 1     | 3 1/4 | 2 5/8  | 4 5/8 | 2 1/2  | 1/2 |
| 40615 | 1 1/4" | 2/12     | 1 1/4 | 3 1/2 | 3      | 4 5/8 | 3      | 3/4 |
| 40616 | 1 1/2" | 2/12     | 1 1/2 | 3 7/8 | 3 1/2  | 5 5/8 | 3 1/16 | 3/4 |
| 40617 | 2"     | 1/6      | 2     | 4 3/8 | 4      | 5 5/8 | 4      | 3/4 |

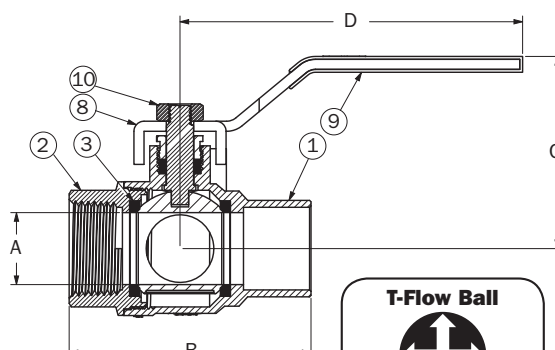
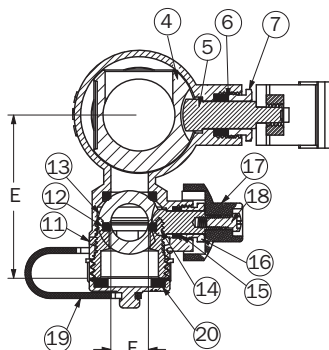
### 5061 Series - SWT

| ITEM # | SIZE   | CTN/CASE | A     | B      | C      | D     | E      | F   |
|--------|--------|----------|-------|--------|--------|-------|--------|-----|
| 50612  | 1/2"   | 6/36     | 1/2   | 2      | 2      | 3 7/8 | 2 1/2  | 1/2 |
| 50613  | 3/4"   | 6/36     | 3/4   | 2 7/8  | 2 1/16 | 3 7/8 | 2 3/8  | 1/2 |
| 50614  | 1"     | 4/24     | 1     | 3 9/16 | 2 5/8  | 4 5/8 | 2 1/2  | 1/2 |
| 50615  | 1 1/4" | 2/12     | 1 1/4 | 3 7/8  | 3      | 4 5/8 | 3      | 3/4 |
| 50616  | 1 1/2" | 2/12     | 1 1/2 | 4 5/8  | 3 1/2  | 5 5/8 | 3 1/16 | 3/4 |
| 50617  | 2"     | 1/6      | 2     | 5 1/2  | 4      | 5 5/8 | 4      | 3/4 |

### 5461 Series - SWT x IPS

| ITEM # | SIZE | CTN/CASE | A   | B      | C      | D     | E     | F   |
|--------|------|----------|-----|--------|--------|-------|-------|-----|
| 54612  | 1/2" | 6/36     | 1/2 | 2 1/16 | 2      | 3 7/8 | 2 1/2 | 1/2 |
| 54613  | 3/4" | 6/36     | 3/4 | 2 3/4  | 2 1/16 | 3 7/8 | 2 3/8 | 1/2 |
| 54614  | 1"   | 4/24     | 1   | 3 3/8  | 2 5/8  | 4 5/8 | 2 1/2 | 1/2 |

| NO. | DESCRIPTION   | MATERIAL               |
|-----|---------------|------------------------|
| 1   | BODY          | BRASS                  |
| 2   | END CAP       | BRASS                  |
| 3   | SEAT          | PTFE                   |
| 4   | BALL          | BRASS HCP              |
| 5   | STEM          | BRASS                  |
| 6   | STEM SEAL     | PTFE                   |
| 7   | PACKING GLAND | BRASS                  |
| 8   | LEVER HANDLE  | STEEL CP               |
| 9   | HANDLE JACKET | VINYL                  |
| 10  | HANDLE NUT    | STAINLESS STEEL        |
| 11  | END CAP       | BRASS                  |
| 12  | SEAT          | PTFE                   |
| 13  | BALL          | BRASS HCP              |
| 14  | STEM          | BRASS                  |
| 15  | STEM SEAL     | PTFE                   |
| 16  | PACKING GLAND | BRASS                  |
| 17  | HANDLE        | ENAMEL COATED ALUMINUM |
| 18  | HANDLE SCREW  | BRASS                  |
| 19  | CAP & STRAP   | BRASS W/ EPDM STRAP    |
| 20  | WASHER        | EPDM                   |



**T-Flow Ball**



Compact Design  
Reversible handle directs  
flow into the drain from  
either side of the ball

Specifications: Designed for residential, commercial or industrial use with water, oil or gas. This approved Webstone valve is actuated by a blowout proof stem and features an adjustable packing gland. Threaded ends comply with ANSI B1.20.1. Solder joint temperature ratings are per ASME B16.18 Annex A for 95-5 solder. Other solder materials have lower pressure/temperature limits. Do not silver braze or overheat valves when soldering.

### THIS SPACE FOR DESIGNER / ENGINEER APPROVAL

|                         |            |                        |
|-------------------------|------------|------------------------|
| Job/Customer _____      | Date _____ | Contractor _____       |
| Model Specified _____   | Qty _____  | Approved By _____      |
| Designer/Engineer _____ | Date _____ | Contractor's PO# _____ |
| Submitted by _____      | Date _____ | Other _____            |

# Pro-Pal® Union Ball Drain

Full Port Forged Brass Ball Valves  
w/ Hi-Flow Hose Drain & Reversible Handle

**600 WOG  
ISO 9001**



## 4043 Series - IPS Union x IPS



| TEMP °F | PSI |
|---------|-----|
| 100     | 600 |
| 150     | 490 |
| 200     | 470 |
| 250     | 439 |
| 300     | 411 |
| 350     | 294 |
| 366     | N/A |

### 4043 Series - IPS Union x IPS

| ITEM # | SIZE   | CTN/CASE | A     | B       | C      | D      | E       | F   |
|--------|--------|----------|-------|---------|--------|--------|---------|-----|
| 40433  | 3/4"   | 6/24     | 3/4   | 4 3/8   | 2 1/16 | 4      | 2 7/16  | 1/2 |
| 40434  | 1"     | 4/16     | 1     | 4 11/16 | 2 5/8  | 4 1/16 | 2 1/2   | 1/2 |
| 40435  | 1 1/4" | 2/12     | 1 1/4 | 4 11/16 | 3      | 4 5/16 | 2 15/16 | 3/4 |
| 40436  | 1 1/2" | 2/12     | 1 1/2 | 5 5/8   | 3 1/2  | 5 3/16 | 3 1/8   | 3/4 |



## 5043 Series - IPS Union x SWT

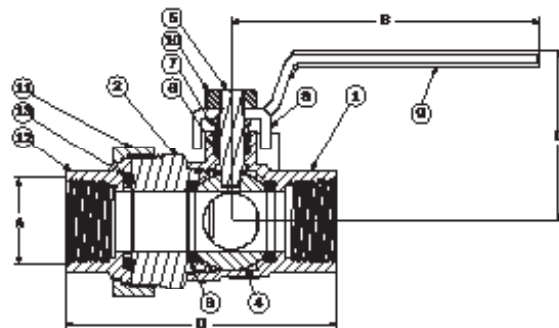
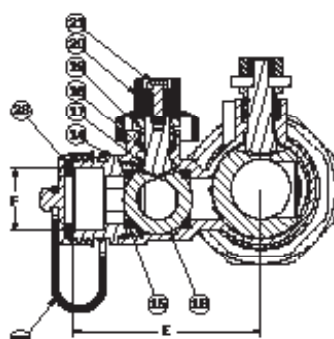


| TEMP °F | PSI |
|---------|-----|
| 100     | 600 |
| 150     | 485 |
| 200     | 395 |
| 250     | 210 |
| 300     | N/A |
| 350     | N/A |
| 366     | N/A |

### 5043 Series - IPS Union x SWT

| ITEM # | SIZE   | CTN/CASE | A     | B       | C     | D      | E      | F   |
|--------|--------|----------|-------|---------|-------|--------|--------|-----|
| 50433  | 3/4"   | 6/24     | 3/4   | 4 5/8   | 2     | 3 5/8  | 2 5/16 | 1/2 |
| 50434  | 1"     | 4/16     | 1     | 4 11/16 | 2 5/8 | 4 3/16 | 2 1/2  | 1/2 |
| 50435  | 1 1/4" | 2/12     | 1 1/4 | 4 11/16 | 3     | 4 1/2  | 2 5/16 | 3/4 |
| 50436  | 1 1/2" | 2/12     | 1 1/2 | 5 3/8   | 3 1/2 | 5 1/2  | 3 1/8  | 3/4 |

| NO. | DESCRIPTION   | MATERIAL               |
|-----|---------------|------------------------|
| 1   | BODY          | BRASS                  |
| 2   | END CAP       | BRASS                  |
| 3   | SEAT          | PTFE                   |
| 4   | BALL          | BRASS HCP              |
| 5   | STEM          | BRASS                  |
| 6   | STEM SEAL     | PTFE                   |
| 7   | PACKING GLAND | BRASS                  |
| 8   | LEVER HANDLE  | STEEL CP               |
| 9   | HANDLE JACKET | VINYL                  |
| 10  | HANDLE NUT    | STAINLESS STEEL        |
| 11  | UNION NUT     | BRASS                  |
| 12  | FITTING       | BRASS                  |
| 13  | O-RING        | EPDM                   |
| 14  | END CAP       | BRASS                  |
| 15  | SEAT          | PTFE                   |
| 16  | BALL          | BRASS HCP              |
| 17  | STEM          | BRASS                  |
| 18  | STEM SEAL     | PTFE                   |
| 19  | PACKING GLAND | BRASS                  |
| 20  | HANDLE        | ENAMEL COATED ALUMINUM |
| 21  | HANDLE SCREW  | BRASS                  |
| 22  | CAP & STRAP   | BRASS W/ EPDM STRAP    |
| 23  | WASHER        | EPDM                   |



#### T-Flow Ball



Compact Design  
Reversible handle directs  
flow into the drain from  
either side of the ball

Specifications: Designed for residential, commercial or industrial use with water, oil or gas. This approved Webstone valve is actuated by a blowout proof stem and features an adjustable packing gland. Threaded ends comply with ANSI B1.20.1. Solder joint temperature ratings are per ASME B16.18 Annex A for 95-5 solder. Other solder materials have lower pressure/temperature limits. Do not silver braze or overheat valves when soldering.

### THIS SPACE FOR DESIGNER / ENGINEER APPROVAL

|                         |            |                        |
|-------------------------|------------|------------------------|
| Job/Customer _____      | Date _____ | Contractor _____       |
| Model Specified _____   | Qty _____  | Approved By _____      |
| Designer/Engineer _____ | Date _____ | Contractor's PO# _____ |
| Submitted by _____      | Date _____ | Other _____            |

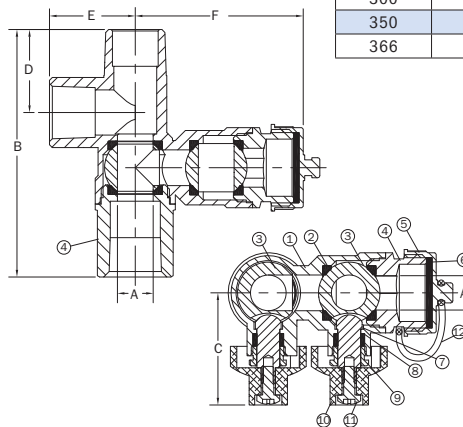
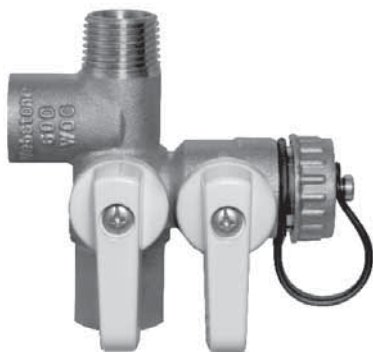
# Pro-Pal® Expansion Tank Pro Service Valve

Full Port Forged Brass Ball Valves  
w/ Hi-Flow Hose Drain

**600 WOG  
ISO 9001**



## 41672 - FIP x MIP x FIP x HOSE



| TEMP °F | PSI |
|---------|-----|
| 100     | 600 |
| 150     | 490 |
| 200     | 470 |
| 250     | 439 |
| 300     | 411 |
| 350     | 294 |
| 366     | N/A |

| NO. | DESCRIPTION   | MATERIAL               |
|-----|---------------|------------------------|
| 1   | BODY          | BRASS                  |
| 2   | SEAT          | PTFE                   |
| 3   | BALL          | BRASS HCP              |
| 4   | END CAP       | BRASS                  |
| 5   | CAP           | BRASS                  |
| 6   | WASHER        | EPDM                   |
| 7   | STEM          | BRASS                  |
| 8   | PACKING       | PTFE                   |
| 9   | PACKING GLAND | BRASS                  |
| 10  | HANDLE        | ENAMEL COATED ALUMINUM |
| 11  | HANDLE SCREW  | BRASS                  |
| 12  | STRAP         | PLASTIC                |

Specifications: Designed for residential or light commercial use with water or oil. This approved Webstone valve allows for isolation and draining of an expansion tank in a closed loop hydronic heating system. It is actuated by a blowout proof stem and features an adjustable packing gland. Threaded ends comply with ANSI B1.20.1.

## 41672 - FIP x MIP x FIP x HOSE

| ITEM# | SIZE | CTN/CASE | A   | B     | C      | D     | E      | F      |
|-------|------|----------|-----|-------|--------|-------|--------|--------|
| 41672 | 1/2" | 1/30     | 1/2 | 3 3/8 | 1 9/16 | 1 1/8 | 1 3/16 | 2 5/16 |

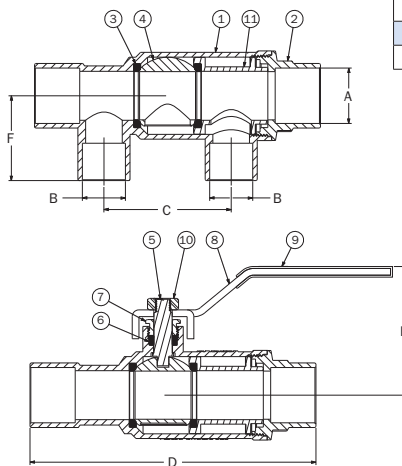
# Pro-Pal® Purge Tee

Full Port Forged Brass Ball Valves • Primary/Secondary Loop Purge Tee  
Reversible Handle

**600 WOG  
ISO 9001  
Patents Pending**



## 5864-5866 Series - CxC



| TEMP °F | PSI |
|---------|-----|
| 100     | 600 |
| 150     | 485 |
| 200     | 395 |
| 250     | 210 |
| 300     | N/A |
| 350     | N/A |
| 366     | N/A |

| NO. | DESCRIPTION   | MATERIAL        |
|-----|---------------|-----------------|
| 1   | BODY          | BRASS           |
| 2   | END CAP       | BRASS           |
| 3   | SEAT          | PTFE            |
| 4   | BALL          | BRASS HCP       |
| 5   | STEM          | BRASS           |
| 6   | STEM SEAL     | PTFE            |
| 7   | PACKING GLAND | BRASS           |
| 8   | HANDLE        | STEEL CP        |
| 9   | HANDLE JACKET | VINYL           |
| 10  | HANDLE NUT*   | STAINLESS STEEL |
| 11  | SEAT RETAINER | BRASS           |

\*CP STEEL NUTS FOR MODELS 58652, 58662, 58663, & 58664.

Specifications: Designed for residential, commercial or industrial use with water, oil or gas. This approved Webstone valve is specifically designed for power purging individual loops in a hydronic heating system and ensures the critical distance between tees is within tolerance for hydronic separation. Actuated by a blowout proof stem and features an adjustable packing gland. Solder joint temperature ratings are per ASME B16.18 Annex A for 95-5 solder. Other solder materials have lower pressure/temperature limits. Do not silver braze or overheat valves when soldering.

## 5864-5866 Series - CxC

| ITEM # | RUN SIZE | BRANCH SIZE | CTN/CASE | A     | B     | C       | D       | E       | F       |
|--------|----------|-------------|----------|-------|-------|---------|---------|---------|---------|
| 58643  | 1"       | 3/4"        | 1/12     | 1     | 3/4   | 2 11/16 | 5 13/16 | 2 3/8   | 1 11/16 |
| 58644  | 1"       | 1"          | 1/12     | 1     | 1     | 2 7/8   | 6 1/4   | 2 7/16  | 1 7/8   |
| 58652  | 1 1/4"   | 1/2"        | 1/12     | 1 1/4 | 1/2   | 2 5/8   | 5 3/4   | 2 9/16  | 1 11/16 |
| 58653  | 1 1/4"   | 3/4"        | 1/12     | 1 1/4 | 3/4   | 3 1/4   | 6 5/16  | 2 1/4   | 2 1/8   |
| 58654  | 1 1/4"   | 1"          | 1/12     | 1 1/4 | 1     | 3 1/4   | 7       | 2 9/16  | 2 3/16  |
| 58655  | 1 1/4"   | 1 1/4"      | 1/12     | 1 1/4 | 1 1/4 | 3 1/4   | 7 3/16  | 2 5/8   | 2 1/8   |
| 58662  | 1 1/2"   | 1/2"        | 1/12     | 1 1/2 | 1/2   | 2 15/16 | 6 5/8   | 2 15/16 | 1 11/16 |
| 58663  | 1 1/2"   | 3/4"        | 1/12     | 1 1/2 | 3/4   | 3 1/8   | 7 7/8   | 2 15/16 | 2 1/8   |
| 58664  | 1 1/2"   | 1"          | 1/12     | 1 1/2 | 1     | 3 3/8   | 7 7/8   | 2 15/16 | 2 1/4   |

## THIS SPACE FOR DESIGNER / ENGINEER APPROVAL

|                         |            |                        |
|-------------------------|------------|------------------------|
| Job/Customer _____      | Date _____ | Contractor _____       |
| Model Specified _____   | Qty _____  | Approved By _____      |
| Designer/Engineer _____ | Date _____ | Contractor's PO# _____ |
| Submitted by _____      | Date _____ | Other _____            |

# Pro-Pal® Purge & Fill

Full Port Forged Brass Ball Valves  
w/ (2) Hi-Flow Hose Drains

**600 WOG**  
**ISO 9001**  
**Patents Pending**



## 4861 Series - IPS



| TEMP °F | PSI |
|---------|-----|
| 100     | 600 |
| 150     | 490 |
| 200     | 470 |
| 250     | 439 |
| 300     | 411 |
| 350     | 294 |
| 366     | N/A |

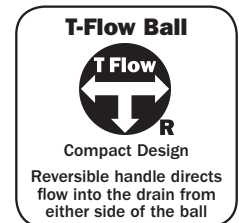
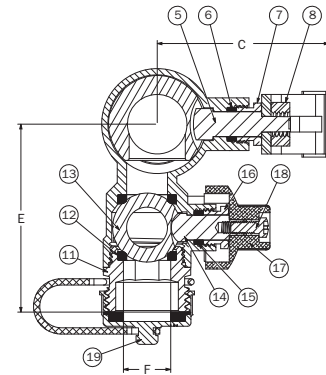
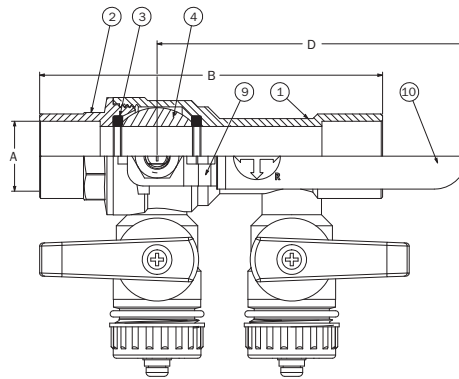
## 4861 Series - IPS

| ITEM# | SIZE   | CTN/CASE | A     | B       | C      | D      | E       | F   |
|-------|--------|----------|-------|---------|--------|--------|---------|-----|
| 48613 | 3/4"   | 1/12     | 3/4   | 3 15/16 | 2 1/8  | 3 7/8  | 2 3/8   | 1/2 |
| 48614 | 1"     | 1/12     | 1     | 4 5/16  | 2 9/16 | 4 5/8  | 2 9/16  | 1/2 |
| 48615 | 1 1/4" | 1/12     | 1 1/4 | 4 7/8   | 2 7/8  | 4 5/8  | 2 15/16 | 3/4 |
| 48616 | 1 1/2" | 1/12     | 1 1/2 | 5 1/16  | 3 7/16 | 5 9/16 | 3 1/6   | 3/4 |

## 5861 Series - SWT

| ITEM# | SIZE   | CTN/CASE | A     | B      | C      | D      | E     | F   |
|-------|--------|----------|-------|--------|--------|--------|-------|-----|
| 58613 | 3/4"   | 1/12     | 3/4   | 4 5/16 | 2 1/8  | 3 7/8  | 2 3/8 | 1/2 |
| 58614 | 1"     | 1/12     | 1     | 4 3/4  | 2 9/16 | 4 5/8  | 2 5/8 | 1/2 |
| 58615 | 1 1/4" | 1/12     | 1 1/4 | 5 1/2  | 2 7/8  | 4 5/8  | 3     | 3/4 |
| 58616 | 1 1/2" | 1/12     | 1 1/2 | 6      | 3 7/16 | 5 9/16 | 3 1/2 | 3/4 |

| NO. | DESCRIPTION              | MATERIAL               |
|-----|--------------------------|------------------------|
| 1   | BODY                     | BRASS                  |
| 2   | END CAP                  | BRASS                  |
| 3   | SEAT                     | PTFE                   |
| 4   | BALL                     | BRASS HCP              |
| 5   | STEM                     | BRASS                  |
| 6   | STEM SEAL                | PTFE                   |
| 7   | PACKING GLAND            | BRASS                  |
| 8   | HANDLE NUT               | STAINLESS STEEL        |
| 9   | HANDLE                   | STEEL CP               |
| 10  | HANDLE JACKET            | VINYL                  |
| 11  | DRAIN END CAP            | BRASS                  |
| 12  | DRAIN SEAT               | PTFE                   |
| 13  | DRAIN BALL               | BRASS HCP              |
| 14  | DRAIN STEM               | BRASS                  |
| 15  | DRAIN STEM SEAL          | PTFE                   |
| 16  | DRAIN PACKING            | BRASS                  |
| 17  | DRAIN VALVE HANDLE       | ENAMEL COATED ALUMINUM |
| 18  | DRAIN VALVE HANDLE SCREW | BRASS                  |
| 19  | CAP & STRAP              | BRASS W/ EPDM STRAP    |

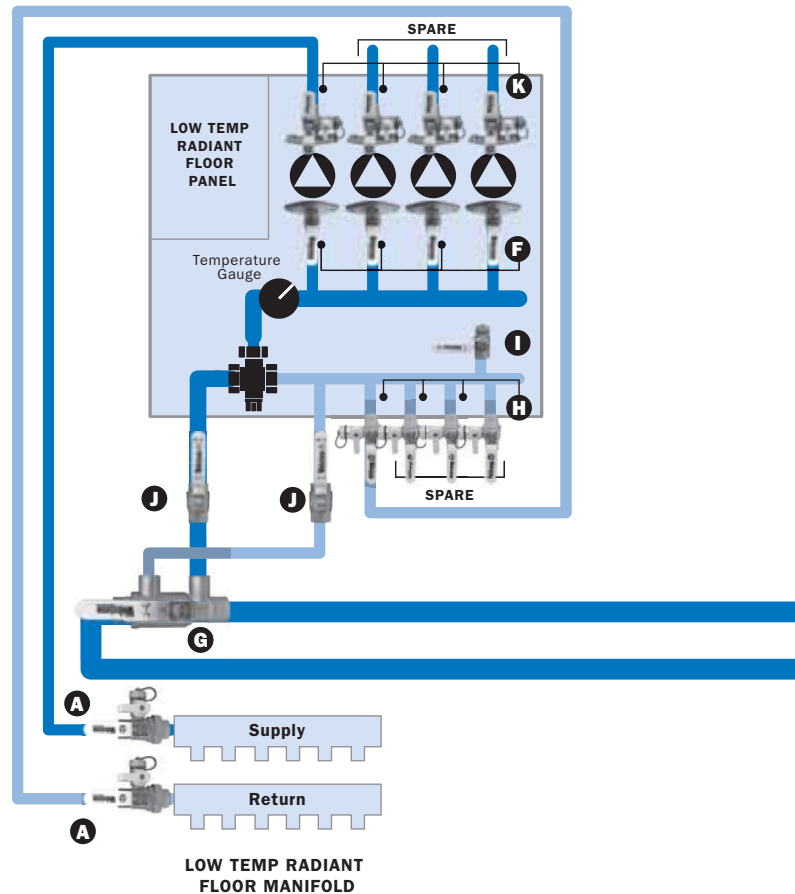


Specifications: Suitable for residential, commercial or industrial use with water or oil, this valve was specifically designed for filling and draining glycol/antifreeze from any point in a hydronic system. This approved Webstone valve is actuated by a blowout proof stem and features an adjustable packing gland. Threaded ends comply with ANSI B1.20.1. Solder joint temperature ratings are per ASME B16.18 Annex A for 95-5 solder. Other solder materials have lower pressure/temperature limits. Do not silver braze or overheat valves when soldering.

## THIS SPACE FOR DESIGNER / ENGINEER APPROVAL

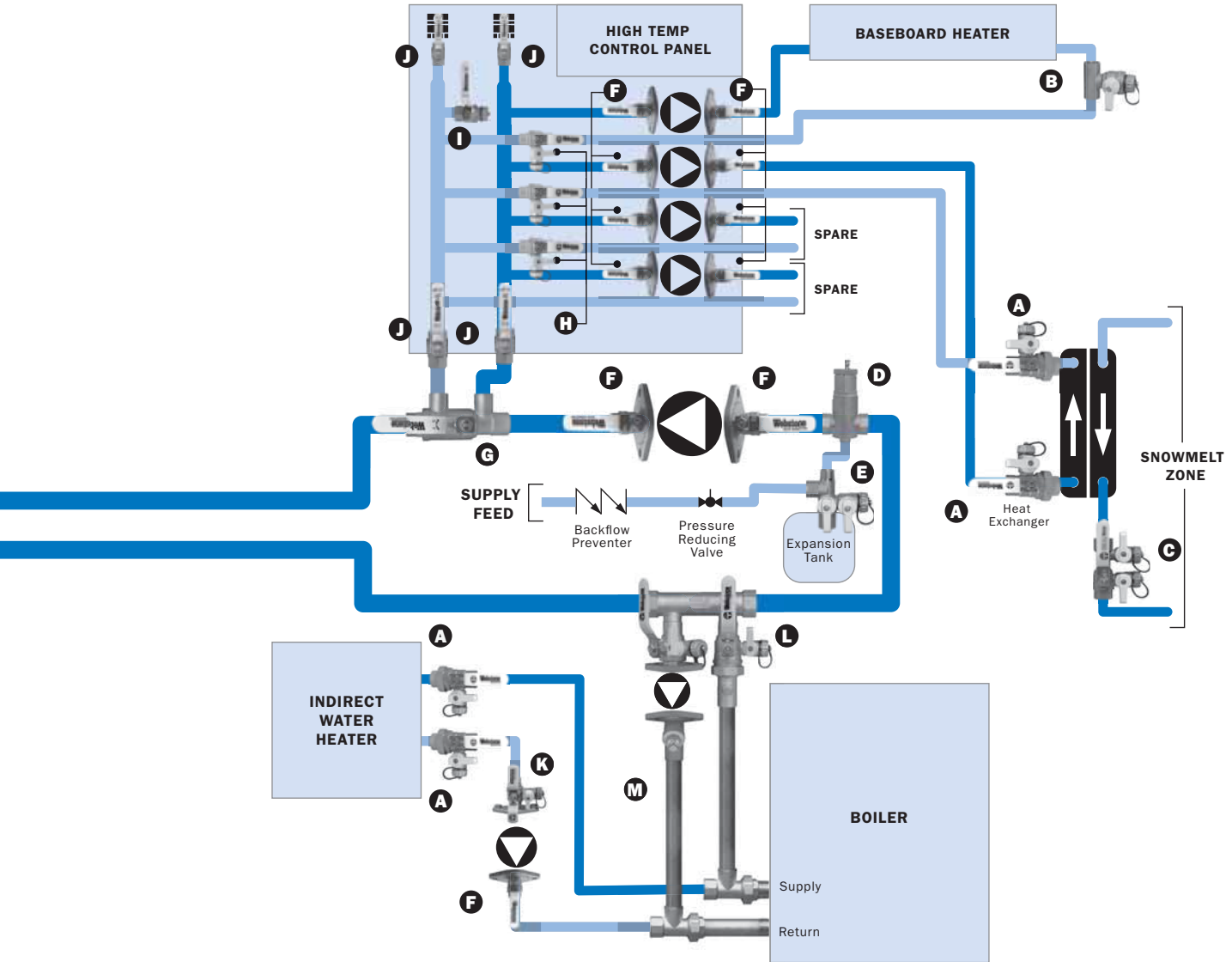
|                         |            |                        |
|-------------------------|------------|------------------------|
| Job/Customer _____      | Date _____ | Contractor _____       |
| Model Specified _____   | Qty _____  | Approved By _____      |
| Designer/Engineer _____ | Date _____ | Contractor's PO# _____ |
| Submitted by _____      | Date _____ | Other _____            |

# WHERE WOULD YOU USE **Webstone** VALVE INNOVATION TO WORK SMARTER?



|          |                                                                                     |                                                                                             | LEAK<br>PATHS<br>AVOIDED | ESTIMATED LABOR<br>SAVINGS PER VALVE | VALVES<br>USED |             |
|----------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|--------------------------|--------------------------------------|----------------|-------------|
| <b>A</b> |  | • 6 in 1 alternative replaces a union + 2 nipples + ball valve + tee fitting + boiler drain | <b>5</b>                 | <b>45 minutes</b>                    | <b>6</b>       | Page 17     |
| <b>B</b> |  | • 2 in 1 alternative replaces a tee fitting + boiler drain                                  | <b>1</b>                 | <b>9 minutes</b>                     | <b>1</b>       | Page 15     |
| <b>C</b> |  | • 7 in 1 alternative replaces 2 boiler drains + 2 tees + 2 close nipples + ball valve       | <b>6</b>                 | <b>54 minutes</b>                    | <b>1</b>       | Page 19     |
| <b>D</b> | <b>Air Separator</b>                                                                |                                                                                             |                          |                                      | <b>1</b>       | Page 37     |
| <b>E</b> |  | • 4 in 1 alternative replaces a ball valve + 2 tee fittings + boiler drain                  | <b>5</b>                 | <b>45 minutes</b>                    | <b>1</b>       | Page 18     |
| <b>F</b> |  | • 3 in 1 alternative replaces a flange + a nipple + a ball valve                            | <b>2</b>                 | <b>18 minutes</b>                    | <b>15</b>      | Page 8 - 14 |
| <b>G</b> |  | • 5 in 1 alternative replaces a tee fitting + 2 nipples + a ball valve + a tee fitting      | <b>4</b>                 | <b>36 minutes</b>                    | <b>2</b>       | Page 18     |
| <b>H</b> |  | • 4 in 1 alternative replaces a ball valve + nipple + tee fitting + boiler drain            | <b>3</b>                 | <b>27 minutes</b>                    | <b>8</b>       | Page 16     |

**ADVANTAGES TO COMPLETE INSTALLATION:**



|          |                                                                                                                                              |                                                                                                                                          | LEAK PATHS AVOIDED | ESTIMATED LABOR SAVINGS PER VALVE | VALVES USED |             |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------------------|-------------|-------------|
| <b>I</b> | <b>Ball Valve w/ Hose End</b>                                                                                                                |                                                                                                                                          |                    |                                   | <b>2</b>    | Page 33     |
| <b>J</b> | <b>Brass Ball Valves</b>                                                                                                                     |                                                                                                                                          |                    |                                   | <b>7</b>    | Pages 29-36 |
| <b>K</b> |  <b>The ISOLATOR<sup>®</sup></b><br>UNI-FLANGE BALL VALVE | <ul style="list-style-type: none"> <li>7 in 1 alternative replaces a flange + 3 nipples + a tee + boiler drain + a ball valve</li> </ul> | <b>6</b>           | <b>54 minutes</b>                 | <b>5</b>    | Page 33     |
| <b>L</b> |  <b>HYDRO-CORE</b>                                        | <ul style="list-style-type: none"> <li>Replaces 13 individual components</li> </ul>                                                      | <b>13</b>          | <b>120 minutes</b>                | <b>1</b>    | Pages 4-6   |
| <b>M</b> |  <b>HYDRO-CORE</b><br>COMPLETE NEAR BOILER PIPING KIT     | <ul style="list-style-type: none"> <li>Replaces 13 individual components</li> </ul>                                                      | <b>12</b>          | <b>108 minutes</b>                | <b>1</b>    | Page 7      |

**159** LEAK PATHS AVOIDED

**24**

ESTIMATED HOURS OF LABOR SAVED

# The Isolator® E-X-P™ Tankless Water Heater Service Valve Kits

Hot & Cold Set of Full Port Forged Brass Ball Valves  
w/ Hi-Flow Hose Drains & Pressure Relief Valve Outlet

**600 WOG  
ISO 9001  
Patented Technology**

The ISOLATOR.  
**E-X-P**  
TWH SERVICE VALVES

**4044 Series  
IPS Union x IPS**

IDEAL FOR  
USE WITH  
COMBI  
BOILERS

The ISOLATOR.  
**E-X-P**  
TWH SERVICE VALVES

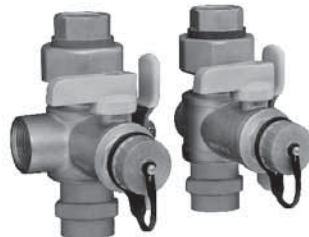
**5044 Series  
IPS Union x SWT**

The ISOLATOR.  
**E-X-P**  
TWH SERVICE VALVES

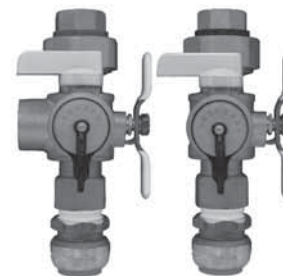
**6044 Series  
IPS Union x PUSH**



| TEMP °F | PSI |
|---------|-----|
| 100     | 600 |
| 150     | 490 |
| 180     | 478 |



| TEMP °F | PSI |
|---------|-----|
| 100     | 600 |
| 150     | 485 |
| 180     | 431 |



| TEMP °F | PSI |
|---------|-----|
| 100     | 200 |
| 150     | 200 |
| 180     | 200 |

Kits include 2 MIP x PUSH Fittings

## 4044 Series - IPS Union x IPS

| ITEM #                                                                       | SIZE | CTN/CASE | A   | B       | C     | D       | E     | F   | G   |
|------------------------------------------------------------------------------|------|----------|-----|---------|-------|---------|-------|-----|-----|
| 40443                                                                        | 3/4" | 1/8      | 3/4 | 4 15/16 | 1 1/2 | 1 13/16 | 2 7/8 | 3/4 | 3/4 |
| RESIDENTIAL PRESSURE RELIEF VALVE (150 PSI/200,000 BTU)                      |      |          |     |         |       |         |       |     |     |
| 40443PR                                                                      | 3/4" | 1/8      | 3/4 | 4 15/16 | 1 1/2 | 1 13/16 | 2 7/8 | 3/4 | 3/4 |
| COMMERCIAL PRESSURE RELIEF VALVE (150 PSI/2,703,000 BTU) & 3/4" CLOSE NIPPLE |      |          |     |         |       |         |       |     |     |
| 40443PR2                                                                     | 3/4" | 1/6      | 3/4 | 4 15/16 | 1 1/2 | 1 13/16 | 2 7/8 | 3/4 | 3/4 |

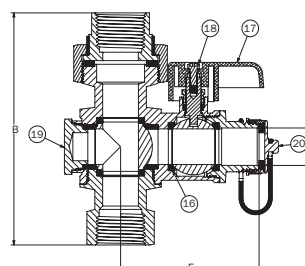
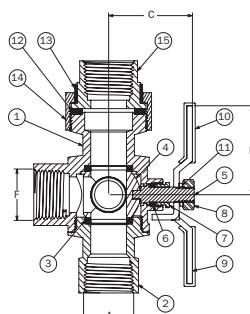
## 5044 Series - IPS Union x SWT

| ITEM #                                                                       | SIZE | CTN/CASE | A   | B       | C     | D       | E     | F   | G   |
|------------------------------------------------------------------------------|------|----------|-----|---------|-------|---------|-------|-----|-----|
| 50443                                                                        | 3/4" | 1/8      | 3/4 | 4 15/16 | 1 1/2 | 1 13/16 | 2 7/8 | 3/4 | 3/4 |
| RESIDENTIAL PRESSURE RELIEF VALVE (150 PSI/200,000 BTU)                      |      |          |     |         |       |         |       |     |     |
| 50443PR                                                                      | 3/4" | 1/8      | 3/4 | 4 15/16 | 1 1/2 | 1 13/16 | 2 7/8 | 3/4 | 3/4 |
| COMMERCIAL PRESSURE RELIEF VALVE (150 PSI/2,703,000 BTU) & 3/4" CLOSE NIPPLE |      |          |     |         |       |         |       |     |     |
| 50443PR2                                                                     | 3/4" | 1/6      | 3/4 | 4 15/16 | 1 1/2 | 1 13/16 | 2 7/8 | 3/4 | 3/4 |

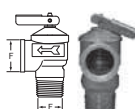
## 6044 Series - IPS Union x PUSH

| ITEM #                                                                       | SIZE | CTN/CASE | A   | B     | C     | D     | E     | F   | G   |
|------------------------------------------------------------------------------|------|----------|-----|-------|-------|-------|-------|-----|-----|
| 60443                                                                        | 3/4" | 1/8      | 3/4 | 6 1/8 | 1 3/4 | 1 7/8 | 2 7/8 | 3/4 | 3/4 |
| RESIDENTIAL PRESSURE RELIEF VALVE (150 PSI/200,000 BTU)                      |      |          |     |       |       |       |       |     |     |
| 60443PR                                                                      | 3/4" | 1/8      | 3/4 | 6 1/8 | 1 3/4 | 1 7/8 | 2 7/8 | 3/4 | 3/4 |
| COMMERCIAL PRESSURE RELIEF VALVE (150 PSI/2,703,000 BTU) & 3/4" CLOSE NIPPLE |      |          |     |       |       |       |       |     |     |
| 60443PR2                                                                     | 3/4" | 1/6      | 3/4 | 6 1/8 | 1 3/4 | 1 7/8 | 2 7/8 | 3/4 | 3/4 |

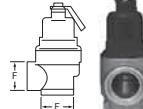
| NO. | DESCRIPTION              | MATERIAL                          |
|-----|--------------------------|-----------------------------------|
| 1   | BODY                     | BRASS                             |
| 2   | END CAP                  | BRASS                             |
| 3   | SEAT                     | PTFE                              |
| 4   | BALL                     | BRASS HCP                         |
| 5   | STEM                     | BRASS                             |
| 6   | STEM SEAL                | PTFE                              |
| 7   | PACKING GLAND            | BRASS                             |
| 8   | HANDLE NUT               | STAINLESS STEEL                   |
| 9   | HANDLE                   | STAINLESS STEEL                   |
| 10  | HANDLE JACKET            | VINYL                             |
| 11  | LOCK WASHER              | STAINLESS STEEL                   |
| 12  | UNION WASHER             | EPDM                              |
| 13  | COLOR INSULATOR RING     | ABS                               |
| 14  | UNION NUT                | BRASS                             |
| 15  | UNION FITTING            | BRASS                             |
| 16  | RETAINING SEATS          | PTFE                              |
| 17  | DRAIN VALVE HANDLE       | ENAMEL COATED ALUMINUM            |
| 18  | DRAIN VALVE HANDLE SCREW | BRASS                             |
| 19  | RETAINING NUT            | BRASS                             |
| 20  | CAP & STRAP              | BRASS W/ EPDM HOSE WASHER & STRAP |



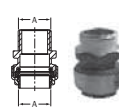
RESIDENTIAL PRESSURE  
RELIEF VALVE  
(150 PSI/200,000 BTU)



COMMERCIAL PRESSURE RELIEF VALVE  
(150 PSI/2,703,000 BTU)  
& 3/4" CLOSE NIPPLE



INCLUDED WITH 6044 SERIES  
(2) MIP x PUSH FITTINGS  
(200 WOG/200° MAX)



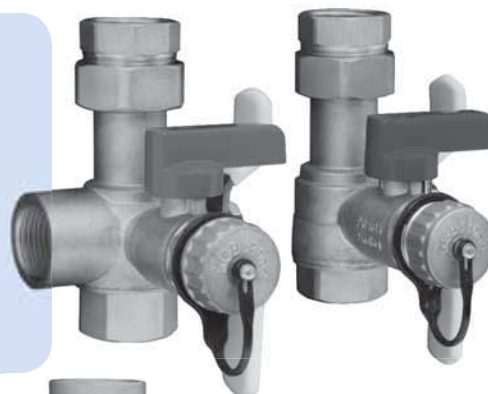
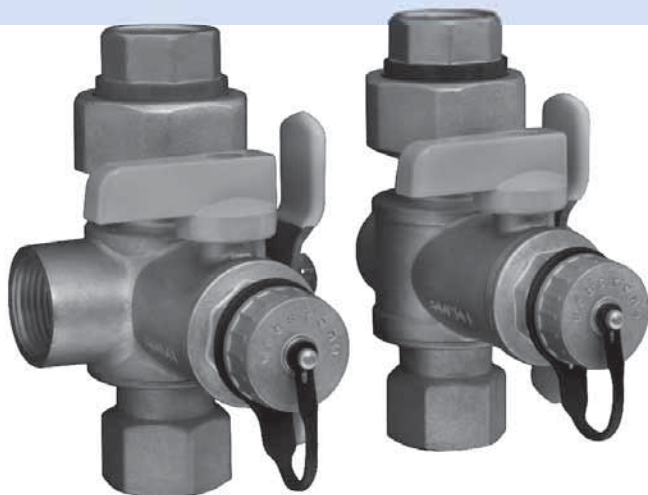
Specifications: Designed for residential or commercial use with potable water. This approved Webstone valve features an adjustable packing gland. Threaded ends comply with ANSI B1.20.1. Solder joint temperature ratings are per ASME B16.18 Annex A for 95-5 solder. Other solder materials have lower pressure/temperature limits. Do not silver braze or overheat valves when soldering.

## THIS SPACE FOR DESIGNER / ENGINEER APPROVAL

|                         |            |                        |
|-------------------------|------------|------------------------|
| Job/Customer _____      | Date _____ | Contractor _____       |
| Model Specified _____   | Qty _____  | Approved By _____      |
| Designer/Engineer _____ | Date _____ | Contractor's PO# _____ |
| Submitted by _____      | Date _____ | Other _____            |

The ISOLATOR®  
**E·X·P**  
TWH SERVICE VALVES  
COMPLETE

**THE VALVE OF  
YOUR CHOICE...**



IDEAL FOR  
USE WITH  
COMBI  
BOILERS



**WITH THE  
ACCESSORIES  
THAT YOU NEED**

- 200,000 BTU PRESSURE RELIEF VALVE
- 24" x 3/4" GAS FLEX LINE
- 3/4" CGA GAS BALL VALVE



| PART #   | DESCRIPTION                                                 |
|----------|-------------------------------------------------------------|
| 40443COM | IPS ISOLATOR® E-X-P™ Complete                               |
| 50443COM | SWT ISOLATOR® E-X-P™ Complete                               |
| 44443COM | IPS ISOLATOR® E-X-P™ E2 Complete                            |
| 54443COM | SWT ISOLATOR® E-X-P™ E2 Complete                            |
| 44043COM | IPS ISOLATOR® E-X-P™ E2 Complete w/ CleanBrass Construction |
| 54043COM | SWT ISOLATOR® E-X-P™ E2 Complete w/ CleanBrass Construction |
| 45443COM | IPS ISOLATOR® E-X-P™ E3 Complete                            |
| 55443COM | SWT ISOLATOR® E-X-P™ E3 Complete                            |
| 45043COM | IPS ISOLATOR® E-X-P™ E3 Complete w/ CleanBrass Construction |
| 55043COM | SWT ISOLATOR® E-X-P™ E3 Complete w/ CleanBrass Construction |

- The highest level of service & protection
- Higher BTU gas connectors designed specifically for use with tankless water heaters
- An original Webstone CSA certified Gas Ball Valve
- The only service valves of their kind backed by a lifetime warranty

**NEED A  
CUSTOM KIT?**

**CALL OUR  
KNOWLEDGEABLE  
SALES  
PROFESSIONALS  
AT (800) 225-9529 TO  
DESIGN A KIT  
TO MEET YOUR  
SPECIFIC NEEDS.**

# The Isolator® E-X-P E2™ Tankless Water Heater Service Valve Kits

Hot & Cold Set of Full Port Forged Brass Ball Valves w/ Hi-Flow Hose Drains & Pressure Relief Valve Outlet  
Includes Residential or Commercial Pressure Relief Valve

**500 WOG  
Patented  
Technology**

The ISOLATOR®  
**E-X-P E2**  
TWH SERVICE VALVES

## 4444 Series IPS Union x IPS

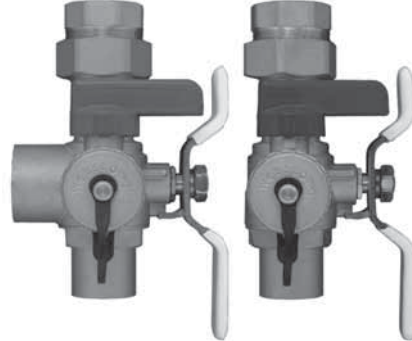
IDEAL FOR  
USE WITH  
COMBI  
BOILERS

The ISOLATOR®  
**E-X-P E2**  
TWH SERVICE VALVES

## 5444 Series IPS Union x SWT



| TEMP °F | PSI |
|---------|-----|
| 100     | 500 |
| 150     | 408 |
| 180     | 398 |



| TEMP °F | PSI |
|---------|-----|
| 100     | 500 |
| 150     | 408 |
| 180     | 398 |

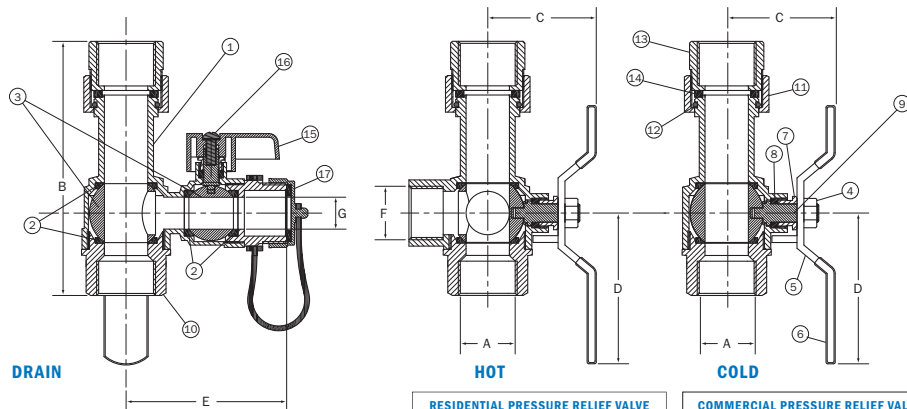
### 4444 Series - IPS Union x IPS

| ITEM #                                                                                  | SIZE | CTN/CASE | A   | B     | C     | D     | E     | F   | G   |
|-----------------------------------------------------------------------------------------|------|----------|-----|-------|-------|-------|-------|-----|-----|
| <b>RESIDENTIAL PRESSURE RELIEF VALVE (150 PSI/200,000 BTU)</b>                          |      |          |     |       |       |       |       |     |     |
| 44443PR                                                                                 | 3/4" | 1/10     | 3/4 | 4 1/4 | 1 5/8 | 2 5/8 | 2 3/4 | 3/4 | 1/2 |
| 44444PR                                                                                 | 1"   | 1/10     | 1   | 5     | 2 3/8 | 2 3/8 | 2 3/4 | 3/4 | 3/4 |
| <b>RESIDENTIAL PRESSURE RELIEF VALVE (30 PSI/200,000 BTU)</b>                           |      |          |     |       |       |       |       |     |     |
| 44443PR3                                                                                | 3/4" | 1/10     | 3/4 | 4 1/4 | 1 5/8 | 2 5/8 | 2 3/4 | 3/4 | 1/2 |
| 44444PR3                                                                                | 1"   | 1/10     | 1   | 5     | 2 3/8 | 2 3/8 | 2 3/4 | 3/4 | 3/4 |
| <b>COMMERCIAL PRESSURE RELIEF VALVE (150 PSI/2,703,000 BTU) &amp; 3/4" CLOSE NIPPLE</b> |      |          |     |       |       |       |       |     |     |
| 44443PR2                                                                                | 3/4" | 1/6      | 3/4 | 4 1/4 | 1 5/8 | 2 5/8 | 2 3/4 | 3/4 | 1/2 |
| 44444PR2                                                                                | 1"   | 1/6      | 1   | 5     | 2 3/8 | 2 3/8 | 2 3/4 | 3/4 | 3/4 |

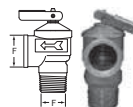
### 5444 Series - IPS Union x SWT

| ITEM #                                                                                  | SIZE | CTN/CASE | A   | B     | C     | D     | E     | F   | G   |
|-----------------------------------------------------------------------------------------|------|----------|-----|-------|-------|-------|-------|-----|-----|
| <b>RESIDENTIAL PRESSURE RELIEF VALVE (150 PSI/200,000 BTU)</b>                          |      |          |     |       |       |       |       |     |     |
| 54443PR                                                                                 | 3/4" | 1/10     | 3/4 | 4 3/4 | 1 5/8 | 2 5/8 | 2 3/4 | 3/4 | 1/2 |
| 54444PR                                                                                 | 1"   | 1/10     | 1   | 5 1/8 | 2 3/8 | 2 3/8 | 2 3/4 | 3/4 | 3/4 |
| <b>RESIDENTIAL PRESSURE RELIEF VALVE (30 PSI/200,000 BTU)</b>                           |      |          |     |       |       |       |       |     |     |
| 54443PR3                                                                                | 3/4" | 1/10     | 3/4 | 4 3/4 | 1 5/8 | 2 5/8 | 2 3/4 | 3/4 | 1/2 |
| 54444PR3                                                                                | 1"   | 1/10     | 1   | 5 1/8 | 2 3/8 | 2 3/8 | 2 3/4 | 3/4 | 3/4 |
| <b>COMMERCIAL PRESSURE RELIEF VALVE (150 PSI/2,703,000 BTU) &amp; 3/4" CLOSE NIPPLE</b> |      |          |     |       |       |       |       |     |     |
| 54443PR2                                                                                | 3/4" | 1/6      | 3/4 | 4 3/4 | 1 5/8 | 2 5/8 | 2 3/4 | 3/4 | 1/2 |
| 54444PR2                                                                                | 1"   | 1/6      | 1   | 5 1/8 | 2 3/8 | 2 3/8 | 2 3/4 | 3/4 | 3/4 |

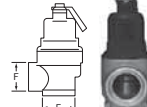
| NO. | DESCRIPTION              | MATERIAL                          |
|-----|--------------------------|-----------------------------------|
| 1   | BODY                     | BRASS                             |
| 2   | SEATS                    | PTFE                              |
| 3   | BALL                     | BRASS HCP                         |
| 4   | HANDLE NUT               | STAINLESS STEEL                   |
| 5   | HANDLE                   | STEEL CP                          |
| 6   | HANDLE JACKET            | VINYL                             |
| 7   | PACKING GLAND            | BRASS                             |
| 8   | STEM SEAL                | PTFE                              |
| 9   | STEM                     | BRASS                             |
| 10  | END CAP                  | BRASS                             |
| 11  | UNION NUT                | BRASS                             |
| 12  | RETAINING RING           | STAINLESS STEEL                   |
| 13  | UNION FITTING            | BRASS                             |
| 14  | WASHER                   | EPDM                              |
| 15  | DRAIN VALVE HANDLE       | ENAMEL COATED ALUMINUM            |
| 16  | DRAIN VALVE HANDLE SCREW | BRASS                             |
| 17  | CAP & STRAP              | BRASS W/ EPDM HOSE WASHER & STRAP |



RESIDENTIAL PRESSURE RELIEF VALVE  
AVAILABLE IN 30 PSI OR  
150 PSI 200,000 BTU



COMMERCIAL PRESSURE RELIEF VALVE  
(150 PSI/2,703,000 BTU)  
& 3/4" CLOSE NIPPLE



Specifications: Designed for residential or commercial use with potable water. This approved Webstone valve is actuated by a blowout proof stem and features an adjustable packing gland. Threaded ends comply with ANSI B1.20.1. Solder joint temperature ratings are per ASME B16.18 Annex A for 95-5 solder. Other solder materials have lower pressure/temperature limits. Do not silver braze or overheat valves when soldering.

### THIS SPACE FOR DESIGNER / ENGINEER APPROVAL

|                         |            |                        |
|-------------------------|------------|------------------------|
| Job/Customer _____      | Date _____ | Contractor _____       |
| Model Specified _____   | Qty _____  | Approved By _____      |
| Designer/Engineer _____ | Date _____ | Contractor's PO# _____ |
| Submitted by _____      | Date _____ | Other _____            |

# Isolator® E-X-P E2™ w/ CleanBrass Construction Tankless Water Heater Service Valve Kits

Hot & Cold Set of Full Port Forged Brass Ball Valves w/ Hi-Flow Hose Drains & Pressure Relief Valve Outlet  
Includes Residential or Commercial Pressure Relief Valve

**500 WOG  
Patented  
Technology**

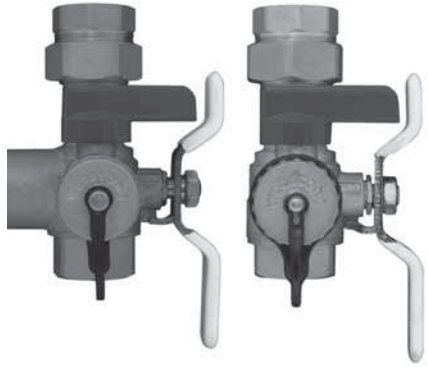
The **ISOLATOR®**  
**E-X-P E2™**  
TWH SERVICE VALVES

**4404 Series  
IPS Union x IPS**

IDEAL FOR  
USE WITH  
COMBI  
BOILERS

The **ISOLATOR®**  
**E-X-P E2™**  
TWH SERVICE VALVES

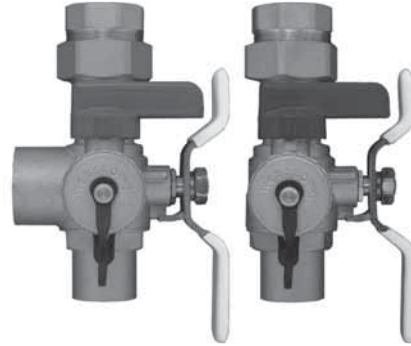
**5404 Series  
IPS Union x SWT**



LEAD FREE  
**CLEAN  
BRASS™**  
THE CLEAR CHOICE  
FOR THE PROFESSIONAL

The service valves in these kits  
are Certified to NSF/ANSI 61-G

| TEMP °F | PSI |
|---------|-----|
| 100     | 500 |
| 150     | 408 |
| 180     | 398 |



LEAD FREE  
**CLEAN  
BRASS™**  
THE CLEAR CHOICE  
FOR THE PROFESSIONAL

The service valves in these kits  
are Certified to NSF/ANSI 61-G

| TEMP °F | PSI |
|---------|-----|
| 100     | 500 |
| 150     | 408 |
| 180     | 398 |

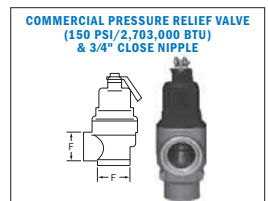
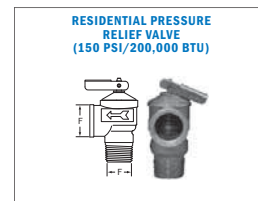
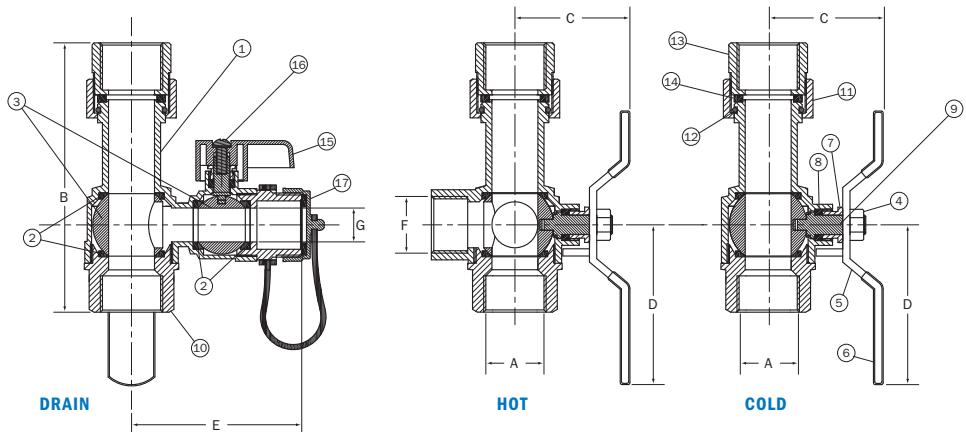
## 4404 Series - IPS Union x IPS

| ITEM #                                                                                  | SIZE        | CTN/CASE    | A   | B     | C     | D     | E     | F   | G   |
|-----------------------------------------------------------------------------------------|-------------|-------------|-----|-------|-------|-------|-------|-----|-----|
| <b>RESIDENTIAL PRESSURE RELIEF VALVE (150 PSI/200,000 BTU)</b>                          |             |             |     |       |       |       |       |     |     |
| <b>44043PR</b>                                                                          | <b>3/4"</b> | <b>1/10</b> | 3/4 | 4 1/4 | 1 5/8 | 2 5/8 | 2 3/4 | 3/4 | 1/2 |
| <b>44044PR</b>                                                                          | <b>1"</b>   | <b>1/10</b> | 1   | 5     | 2 3/8 | 2 3/8 | 2 3/4 | 3/4 | 3/4 |
| <b>COMMERCIAL PRESSURE RELIEF VALVE (150 PSI/2,703,000 BTU) &amp; 3/4" CLOSE NIPPLE</b> |             |             |     |       |       |       |       |     |     |
| <b>44043PR2</b>                                                                         | <b>3/4"</b> | <b>1/6</b>  | 3/4 | 4 1/4 | 1 5/8 | 2 5/8 | 2 3/4 | 3/4 | 1/2 |
| <b>44044PR2</b>                                                                         | <b>1"</b>   | <b>1/6</b>  | 1   | 5     | 2 3/8 | 2 3/8 | 2 3/4 | 3/4 | 3/4 |

## 5404 Series - IPS Union x SWT

| ITEM #                                                                                  | SIZE        | CTN/CASE    | A   | B     | C     | D     | E     | F   | G   |
|-----------------------------------------------------------------------------------------|-------------|-------------|-----|-------|-------|-------|-------|-----|-----|
| <b>RESIDENTIAL PRESSURE RELIEF VALVE (150 PSI/200,000 BTU)</b>                          |             |             |     |       |       |       |       |     |     |
| <b>54043PR</b>                                                                          | <b>3/4"</b> | <b>1/10</b> | 3/4 | 4 3/4 | 1 5/8 | 2 5/8 | 2 3/4 | 3/4 | 1/2 |
| <b>54044PR</b>                                                                          | <b>1"</b>   | <b>1/10</b> | 1   | 5 1/8 | 2 3/8 | 2 3/8 | 2 3/4 | 3/4 | 3/4 |
| <b>COMMERCIAL PRESSURE RELIEF VALVE (150 PSI/2,703,000 BTU) &amp; 3/4" CLOSE NIPPLE</b> |             |             |     |       |       |       |       |     |     |
| <b>54043PR2</b>                                                                         | <b>3/4"</b> | <b>1/6</b>  | 3/4 | 4 3/4 | 1 5/8 | 2 5/8 | 2 3/4 | 3/4 | 1/2 |
| <b>54044PR2</b>                                                                         | <b>1"</b>   | <b>1/6</b>  | 1   | 5 1/8 | 2 3/8 | 2 3/8 | 2 3/4 | 3/4 | 3/4 |

| NO. | DESCRIPTION              | MATERIAL                          |
|-----|--------------------------|-----------------------------------|
| 1   | BODY                     | BRASS                             |
| 2   | SEATS                    | PTFE                              |
| 3   | BALL                     | BRASS HCP                         |
| 4   | HANDLE NUT               | STAINLESS STEEL                   |
| 5   | HANDLE                   | STEEL CP                          |
| 6   | HANDLE JACKET            | VINYL                             |
| 7   | PACKING GLAND            | BRASS                             |
| 8   | STEM SEAL                | PTFE                              |
| 9   | STEM                     | BRASS                             |
| 10  | END CAP                  | BRASS                             |
| 11  | UNION NUT                | BRASS                             |
| 12  | RETAINING RING           | STAINLESS STEEL                   |
| 13  | UNION FITTING            | BRASS                             |
| 14  | WASHER                   | EPDM                              |
| 15  | DRAIN VALVE HANDLE       | ENAMEL COATED ALUMINUM            |
| 16  | DRAIN VALVE HANDLE SCREW | BRASS                             |
| 17  | CAP & STRAP              | BRASS W/ EPDM HOSE WASHER & STRAP |



Specifications: Designed for residential or commercial use with potable water. This approved Webstone valve is actuated by a blowout proof stem and features an adjustable packing gland. Threaded ends comply with ANSI B1.20.1. Solder joint temperature ratings are per ASME B16.18 Annex A for 95-5 solder. Other solder materials have lower pressure/temperature limits. Do not silver braze or overheat valves when soldering.

## THIS SPACE FOR DESIGNER / ENGINEER APPROVAL

|                         |            |                        |
|-------------------------|------------|------------------------|
| Job/Customer _____      | Date _____ | Contractor _____       |
| Model Specified _____   | Qty _____  | Approved By _____      |
| Designer/Engineer _____ | Date _____ | Contractor's P0# _____ |
| Submitted by _____      | Date _____ | Other _____            |

# Isolator® E-X-P E3™ Tankless Water Heater Service Valve Kits

Hot & Cold Set of Full Port Forged Brass Ball Valves w/ Hi-Flow Hose Drains & Pressure Relief Valve Outlet  
Includes Residential or Commercial Pressure Relief Valve & Adjustable Pressure Relief Valve Fitting

**500 WOG  
Patented  
Technology**

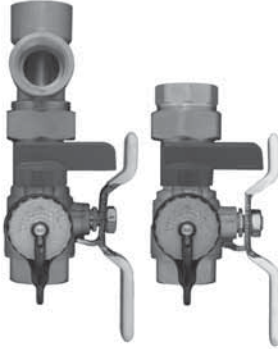
The ISOLATOR.  
**E-X-P E3**  
TWH SERVICE VALVES

**4544 Series  
IPS Union × IPS**

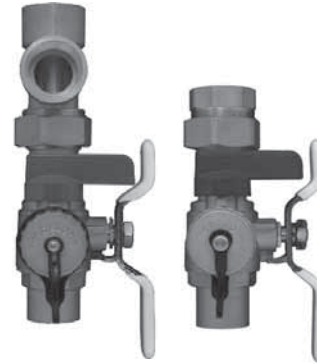
IDEAL FOR  
USE WITH  
COMBI  
BOILERS

The ISOLATOR.  
**E-X-P E3**  
TWH SERVICE VALVES

**5544 Series  
IPS Union × SWT**



| TEMP °F | PSI |
|---------|-----|
| 100     | 500 |
| 150     | 408 |
| 180     | 398 |



| TEMP °F | PSI |
|---------|-----|
| 100     | 500 |
| 150     | 408 |
| 180     | 398 |

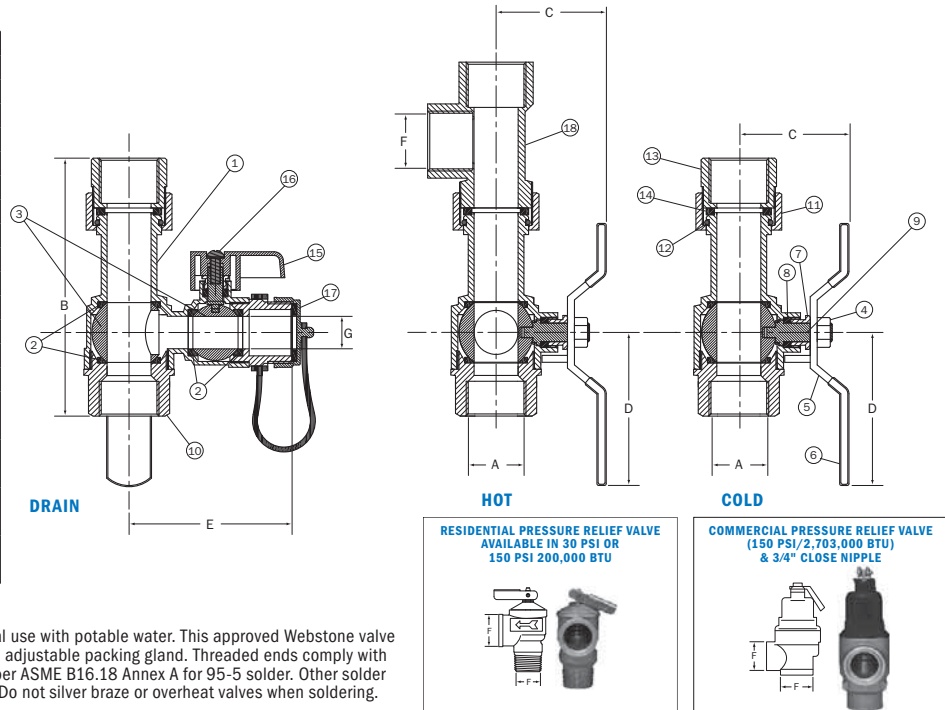
## 4544 Series - IPS Union × IPS

| ITEM #                                                                                  | SIZE        | CTN/CASE    | A   | B (COLD) | B (HOT) | C     | D     | E     | F   | G   |
|-----------------------------------------------------------------------------------------|-------------|-------------|-----|----------|---------|-------|-------|-------|-----|-----|
| <b>RESIDENTIAL PRESSURE RELIEF VALVE (150 PSI/200,000 BTU)</b>                          |             |             |     |          |         |       |       |       |     |     |
| <b>45443PR</b>                                                                          | <b>3/4"</b> | <b>1/10</b> | 3/4 | 4 1/4    | 5 7/8   | 1 5/8 | 2 5/8 | 2 3/4 | 3/4 | 1/2 |
| <b>RESIDENTIAL PRESSURE RELIEF VALVE (30 PSI/200,000 BTU)</b>                           |             |             |     |          |         |       |       |       |     |     |
| <b>45443PR3</b>                                                                         | <b>3/4"</b> | <b>1/10</b> | 3/4 | 4 1/4    | 5 7/8   | 1 5/8 | 2 5/8 | 2 3/4 | 3/4 | 1/2 |
| <b>COMMERCIAL PRESSURE RELIEF VALVE (150 PSI/2,703,000 BTU) &amp; 3/4" CLOSE NIPPLE</b> |             |             |     |          |         |       |       |       |     |     |
| <b>45443PR2</b>                                                                         | <b>3/4"</b> | <b>1/6</b>  | 3/4 | 4 1/4    | 5 7/8   | 1 5/8 | 2 5/8 | 2 3/4 | 3/4 | 1/2 |

## 5544 Series - IPS Union × SWT

| ITEM #                                                                                  | SIZE        | CTN/CASE    | A   | B (COLD) | B (HOT) | C     | D     | E     | F   | G   |
|-----------------------------------------------------------------------------------------|-------------|-------------|-----|----------|---------|-------|-------|-------|-----|-----|
| <b>RESIDENTIAL PRESSURE RELIEF VALVE (150 PSI/200,000 BTU)</b>                          |             |             |     |          |         |       |       |       |     |     |
| <b>55443PR</b>                                                                          | <b>3/4"</b> | <b>1/10</b> | 3/4 | 4 3/4    | 6 3/8   | 1 5/8 | 2 5/8 | 2 3/4 | 3/4 | 1/2 |
| <b>RESIDENTIAL PRESSURE RELIEF VALVE (30 PSI/200,000 BTU)</b>                           |             |             |     |          |         |       |       |       |     |     |
| <b>55443PR3</b>                                                                         | <b>3/4"</b> | <b>1/10</b> | 3/4 | 4 3/4    | 6 3/8   | 1 5/8 | 2 5/8 | 2 3/4 | 3/4 | 1/2 |
| <b>COMMERCIAL PRESSURE RELIEF VALVE (150 PSI/2,703,000 BTU) &amp; 3/4" CLOSE NIPPLE</b> |             |             |     |          |         |       |       |       |     |     |
| <b>55443PR2</b>                                                                         | <b>3/4"</b> | <b>1/6</b>  | 3/4 | 4 3/4    | 6 3/8   | 1 5/8 | 2 5/8 | 2 3/4 | 3/4 | 1/2 |

| NO. | DESCRIPTION              | MATERIAL                          |
|-----|--------------------------|-----------------------------------|
| 1   | BODY                     | BRASS                             |
| 2   | SEATS                    | PTFE                              |
| 3   | BALL                     | BRASS HCP                         |
| 4   | HANDLE NUT               | STAINLESS STEEL                   |
| 5   | HANDLE                   | STEEL CP                          |
| 6   | HANDLE JACKET            | VINYL                             |
| 7   | PACKING GLAND            | BRASS                             |
| 8   | STEM SEAL                | PTFE                              |
| 9   | STEM                     | BRASS                             |
| 10  | END CAP                  | BRASS                             |
| 11  | UNION NUT                | BRASS                             |
| 12  | RETAINING RING           | STAINLESS STEEL                   |
| 13  | UNION FITTING            | BRASS                             |
| 14  | WASHER                   | EPDM                              |
| 15  | DRAIN VALVE HANDLE       | ENAMEL COATED ALUMINUM            |
| 16  | DRAIN VALVE HANDLE SCREW | BRASS                             |
| 17  | CAP & STRAP              | BRASS W/ EPDM HOSE WASHER & STRAP |
| 18  | RELOCATION ADAPTER (HOT) | BRASS                             |



Specifications: Designed for residential or commercial use with potable water. This approved Webstone valve is actuated by a blowout proof stem and features an adjustable packing gland. Threaded ends comply with ANSI B1.20.1. Solder joint temperature ratings are per ASME B16.18 Annex A for 95-5 solder. Other solder materials have lower pressure/temperature limits. Do not silver braze or overheat valves when soldering.

## THIS SPACE FOR DESIGNER / ENGINEER APPROVAL

|                         |            |                        |
|-------------------------|------------|------------------------|
| Job/Customer _____      | Date _____ | Contractor _____       |
| Model Specified _____   | Qty _____  | Approved By _____      |
| Designer/Engineer _____ | Date _____ | Contractor's PO# _____ |
| Submitted by _____      | Date _____ | Other _____            |

## Isolator® E-X-P E3™ w/ CleanBrass Construction Tankless Water Heater Service Valve Kits

Hot & Cold Set of Full Port Forged Brass Ball Valves w/ Hi-Flow Hose Drains & Pressure Relief Valve Outlet  
Includes Residential or Commercial Pressure Relief Valve & Adjustable Pressure Relief Valve Fitting

**500 WOG  
Patented  
Technology**

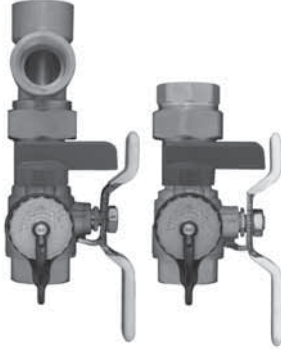
The ISOLATOR.  
**E-X-P E3**  
TWH SERVICE VALVES

### 4504 Series IPS Union × IPS

IDEAL FOR  
USE WITH  
COMBI  
BOILERS

The ISOLATOR.  
**E-X-P E3**  
TWH SERVICE VALVES

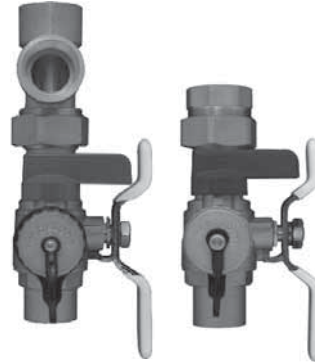
### 5504 Series IPS Union × SWT



LEAD FREE  
**CLEAN  
BRASS**  
THE CLEAR CHOICE  
FOR THE PROFESSIONAL

The service valves in these kits  
are Certified to NSF/ANSI 61-G

| TEMP °F | PSI |
|---------|-----|
| 100     | 500 |
| 150     | 408 |
| 180     | 398 |



LEAD FREE  
**CLEAN  
BRASS**  
THE CLEAR CHOICE  
FOR THE PROFESSIONAL

The service valves in these kits  
are Certified to NSF/ANSI 61-G

| TEMP °F | PSI |
|---------|-----|
| 100     | 500 |
| 150     | 408 |
| 180     | 398 |

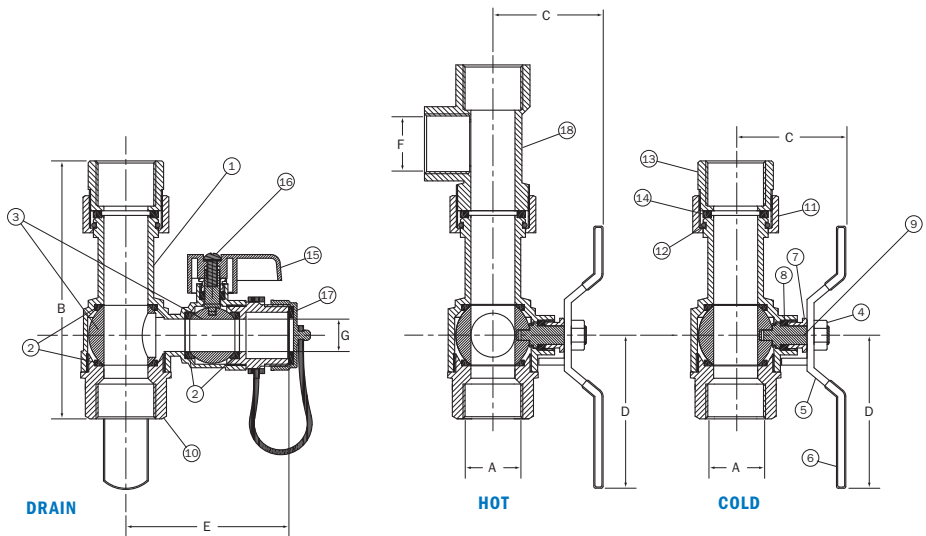
#### 4504 Series - IPS Union × IPS

| ITEM #                                                                                  | SIZE        | CTN/CASE    | A   | B (COLD) | B (HOT) | C     | D     | E     | F   | G   |
|-----------------------------------------------------------------------------------------|-------------|-------------|-----|----------|---------|-------|-------|-------|-----|-----|
| <b>RESIDENTIAL PRESSURE RELIEF VALVE (150 PSI/200,000 BTU)</b>                          |             |             |     |          |         |       |       |       |     |     |
| <b>45043PR</b>                                                                          | <b>3/4"</b> | <b>1/10</b> | 3/4 | 4 1/4    | 5 7/8   | 1 5/8 | 2 5/8 | 2 3/4 | 3/4 | 1/2 |
| <b>COMMERCIAL PRESSURE RELIEF VALVE (150 PSI/2,703,000 BTU) &amp; 3/4" CLOSE NIPPLE</b> |             |             |     |          |         |       |       |       |     |     |
| <b>45043PR2</b>                                                                         | <b>3/4"</b> | <b>1/6</b>  | 3/4 | 4 1/4    | 5 7/8   | 1 5/8 | 2 5/8 | 2 3/4 | 3/4 | 1/2 |

#### 5504 Series - IPS Union × SWT

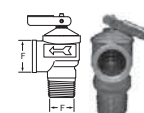
| ITEM #                                                                                  | SIZE        | CTN/CASE    | A   | B (COLD) | B (HOT) | C     | D     | E     | F   | G   |
|-----------------------------------------------------------------------------------------|-------------|-------------|-----|----------|---------|-------|-------|-------|-----|-----|
| <b>RESIDENTIAL PRESSURE RELIEF VALVE (150 PSI/200,000 BTU)</b>                          |             |             |     |          |         |       |       |       |     |     |
| <b>55043PR</b>                                                                          | <b>3/4"</b> | <b>1/10</b> | 3/4 | 4 3/4    | 6 3/8   | 1 5/8 | 2 5/8 | 2 3/4 | 3/4 | 1/2 |
| <b>COMMERCIAL PRESSURE RELIEF VALVE (150 PSI/2,703,000 BTU) &amp; 3/4" CLOSE NIPPLE</b> |             |             |     |          |         |       |       |       |     |     |
| <b>55043PR2</b>                                                                         | <b>3/4"</b> | <b>1/6</b>  | 3/4 | 4 3/4    | 6 3/8   | 1 5/8 | 2 5/8 | 2 3/4 | 3/4 | 1/2 |

| NO. | DESCRIPTION              | MATERIAL                          |
|-----|--------------------------|-----------------------------------|
| 1   | BODY                     | BRASS                             |
| 2   | SEATS                    | PTFE                              |
| 3   | BALL                     | BRASS HCP                         |
| 4   | HANDLE NUT               | STAINLESS STEEL                   |
| 5   | WING STYLE "T" HANDLE    | STEEL CP                          |
| 6   | HANDLE JACKET            | VINYL                             |
| 7   | PACKING GLAND            | BRASS                             |
| 8   | STEM SEAL                | PTFE                              |
| 9   | STEM                     | BRASS                             |
| 10  | END CAP                  | BRASS                             |
| 11  | UNION NUT                | BRASS                             |
| 12  | RETAINING RING           | STAINLESS STEEL                   |
| 13  | UNION FITTING            | BRASS                             |
| 14  | WASHER                   | EPDM                              |
| 15  | DRAIN VALVE HANDLE       | ENAMEL COATED ALUMINUM            |
| 16  | DRAIN VALVE HANDLE SCREW | BRASS                             |
| 17  | CAP & STRAP              | BRASS W/ EPDM HOSE WASHER & STRAP |
| 18  | RELOCATION ADAPTER (HOT) | BRASS                             |

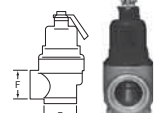


Specifications: Designed for residential or commercial use with potable water. This approved Webstone valve is actuated by a blowout proof stem and features an adjustable packing gland. Threaded ends comply with ANSI B1.20.1. Solder joint temperature ratings are per ASME B16.18 Annex A for 95-5 solder. Other solder materials have lower pressure/temperature limits. Do not silver braze or overheat valves when soldering.

**RESIDENTIAL PRESSURE  
RELIEF VALVE  
(150 PSI/200,000 BTU)**



**COMMERCIAL PRESSURE RELIEF VALVE  
(150 PSI/2,703,000 BTU)  
& 3/4" CLOSE NIPPLE**



### THIS SPACE FOR DESIGNER / ENGINEER APPROVAL

|                         |            |                        |
|-------------------------|------------|------------------------|
| Job/Customer _____      | Date _____ | Contractor _____       |
| Model Specified _____   | Qty _____  | Approved By _____      |
| Designer/Engineer _____ | Date _____ | Contractor's P0# _____ |
| Submitted by _____      | Date _____ | Other _____            |



## MAKE ANY 1/2" THRU 2" SWT VALVE INTO A PRO-CONNECT UNIVERSAL™

The PRO-CONNECT Universal™ series is a full line of heavy duty brass valves featuring 2" copper tube-sized male extensions ideal for soldering or use with any solder-less crimp systems or quick-connect fittings available on the market today. Any Webstone sweat ball valve, gate valve, check valve, or globe valve sized 1/2" to 2" can be converted to PRO-CONNECT Universal™ according to your needs.

- **Heavy Duty Valves with Pre-Assembled 2" Copper Extensions**
- **Available on Virtually Any Webstone SWT Valve**
- **A Universal Solution for Solder, Crimp, or Push Connections!**
- **100% Tested, Cleaned & Capped**

### COMMITMENT TO QUALITY

PRO-CONNECT Universal™ extensions are machine soldered, de-burred, cleaned, polished, and 100% tested assuring a perfect connection every time. Each extension is outfitted with plastic caps to preserve the integrity of the copper right up until installation.

All PRO-CONNECT Universal™ valves are soldered and packaged to order. In most cases, your order will ship within 24 hours, larger orders may take a day or two more.

### TO ORDER

Add an "X" and the number of extensions to the end of the part number of the valve you wish to purchase. See Webstone's current List Price Guide and add the appropriate list price per extension to the list price of the valve you wish to purchase.

### FOR EXAMPLE

51703X2 is a 3/4" Full Port Brass Ball Valve with extensions on 2 ends. 58644X4 is a 1 1/2" × 1 1/4" Primary/Secondary Purge Tee with extensions on 4 ends.



# Full Port Forged Brass Ball Valves

**600 WOG / 150 WSP**  
 (400 WOG / 125 WSP for 2½" - 4")  
**ISO 9001**

## 4170 Series - IPS



| TEMP °F | ¼" - 2" PSI | 2½" - 4" PSI |
|---------|-------------|--------------|
| 100     | 600         | 400          |
| 150     | 490         | 327          |
| 200     | 479         | 313          |
| 250     | 470         | 293          |
| 300     | 411         | 274          |
| 350     | 294         | 196          |
| 366     | N/A         | N/A          |

**4170**  
**4170SSL**



**4170T**  
**4170SSW**

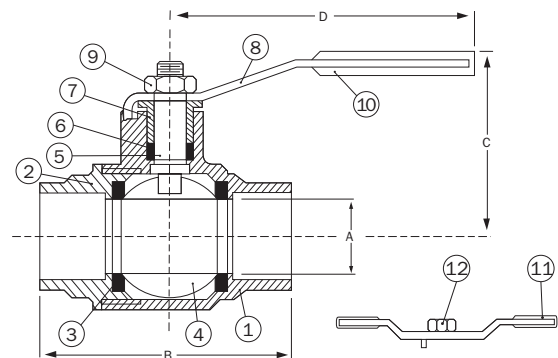


### 4170 Series - IPS

| ITEM #                                              | SIZE          | CTN/CASE      | A     | B       | C      | D     | C <sub>v</sub> |
|-----------------------------------------------------|---------------|---------------|-------|---------|--------|-------|----------------|
| <b>W/ CHROME PLATED LEVER HANDLE</b>                |               |               |       |         |        |       |                |
| <b>41700</b>                                        | <b>1/4"</b>   | <b>10/120</b> | 1/4   | 1 3/4   | 1 7/8  | 3 1/2 | 7.7            |
| <b>41701</b>                                        | <b>3/8"</b>   | <b>10/120</b> | 3/8   | 1 3/4   | 1 7/8  | 3 1/2 | 7.9            |
| <b>41702</b>                                        | <b>1/2"</b>   | <b>10/100</b> | 1/2   | 2 1/16  | 2 1/16 | 3 1/2 | 11.5           |
| <b>41703</b>                                        | <b>3/4"</b>   | <b>10/60</b>  | 3/4   | 2 5/8   | 2 5/8  | 3 3/4 | 27.0           |
| <b>41704</b>                                        | <b>1"</b>     | <b>6/48</b>   | 1     | 2 3/4   | 2 3/4  | 4 5/8 | 49.3           |
| <b>41705</b>                                        | <b>1 1/4"</b> | <b>4/32</b>   | 1 1/4 | 3 5/16  | 3      | 4 1/2 | 114.0          |
| <b>41706</b>                                        | <b>1 1/2"</b> | <b>2/24</b>   | 1 1/2 | 3 11/16 | 3 5/8  | 5 1/2 | 161.3          |
| <b>41707</b>                                        | <b>2"</b>     | <b>2/16</b>   | 2     | 4 3/16  | 4      | 5 1/2 | 248.6          |
| <b>41708</b>                                        | <b>2 1/2"</b> | <b>2/6</b>    | 2 1/2 | 5 5/16  | 4 7/8  | 9     | 262.3          |
| <b>41709</b>                                        | <b>3"</b>     | <b>1/3</b>    | 3     | 6       | 5 1/2  | 9     | 418.2          |
| <b>41710</b>                                        | <b>4"</b>     | <b>1/2</b>    | 4     | 7 1/8   | 6      | 9 3/4 | 567.8          |
| <b>W/ 304 STAINLESS STEEL HANDLE</b>                |               |               |       |         |        |       |                |
| <b>41702SSL</b>                                     | <b>1/2"</b>   | <b>10/100</b> | 1/2   | 2 1/16  | 2 1/16 | 3 1/2 | 11.5           |
| <b>41703SSL</b>                                     | <b>3/4"</b>   | <b>10/60</b>  | 3/4   | 2 5/8   | 2 5/8  | 3 3/4 | 27.0           |
| <b>41704SSL</b>                                     | <b>1"</b>     | <b>6/48</b>   | 1     | 2 3/4   | 2 3/4  | 4 5/8 | 49.3           |
| <b>41705SSL</b>                                     | <b>1 1/4"</b> | <b>4/32</b>   | 1 1/4 | 3 5/16  | 3      | 4 1/2 | 114.0          |
| <b>41706SSL</b>                                     | <b>1 1/2"</b> | <b>2/24</b>   | 1 1/2 | 3 11/16 | 3 5/8  | 5 1/2 | 161.3          |
| <b>41707SSL</b>                                     | <b>2"</b>     | <b>2/16</b>   | 2     | 4 3/16  | 4      | 5 1/2 | 248.6          |
| <b>W/ WING STYLE "T" HANDLE*</b>                    |               |               |       |         |        |       |                |
| <b>41702T</b>                                       | <b>1/2"</b>   | <b>10/100</b> | 1/2   | 2 1/16  | 2 1/16 | 1 3/4 | 11.5           |
| <b>41703T</b>                                       | <b>3/4"</b>   | <b>10/60</b>  | 3/4   | 2 5/8   | 2 5/8  | 1 3/4 | 27.0           |
| <b>41704T</b>                                       | <b>1"</b>     | <b>6/48</b>   | 1     | 2 3/4   | 2 3/4  | 1 3/4 | 49.3           |
| <b>W/ 304 STAINLESS STEEL WING STYLE "T" HANDLE</b> |               |               |       |         |        |       |                |
| <b>41702SSW</b>                                     | <b>1/2"</b>   | <b>10/100</b> | 1/2   | 2 1/16  | 2 1/16 | 1 3/4 | 11.5           |
| <b>41703SSW</b>                                     | <b>3/4"</b>   | <b>10/60</b>  | 3/4   | 2 5/8   | 2 5/8  | 1 3/4 | 27.5           |
| <b>41704SSW</b>                                     | <b>1"</b>     | <b>6/48</b>   | 1     | 2 3/4   | 2 3/4  | 1 3/4 | 49.3           |

| NO. | DESCRIPTION           | MATERIAL                                     |
|-----|-----------------------|----------------------------------------------|
| 1   | BODY                  | BRASS                                        |
| 2   | END CAP               | BRASS                                        |
| 3   | SEAT                  | PTFE                                         |
| 4   | BALL                  | BRASS HCP                                    |
| 5   | STEM                  | BRASS                                        |
| 6   | STEM SEAL             | PTFE                                         |
| 7   | PACKING GLAND         | BRASS                                        |
| 8   | LEVER HANDLE          | STEEL CP (4170) / STAINLESS STEEL (4170SSL)  |
| 9   | HANDLE NUT            | STEEL CP (4170) / STAINLESS STEEL (4170SSL)  |
| 10  | HANDLE JACKET         | VINYL                                        |
| 11  | WING STYLE "T" HANDLE | STAINLESS STEEL (4170SSW) / STEEL CP (4170T) |
| 12  | HANDLE NUT            | STAINLESS STEEL (4170SSW) / STEEL CP (4170T) |

Specifications: Designed for residential, commercial or industrial use with water, oil or gas. This approved Webstone valve is actuated by a blowout proof stem and features an adjustable packing gland. Threaded ends comply with ANSI B1.20.1. \*4170T valves are not manufactured in an ISO facility.



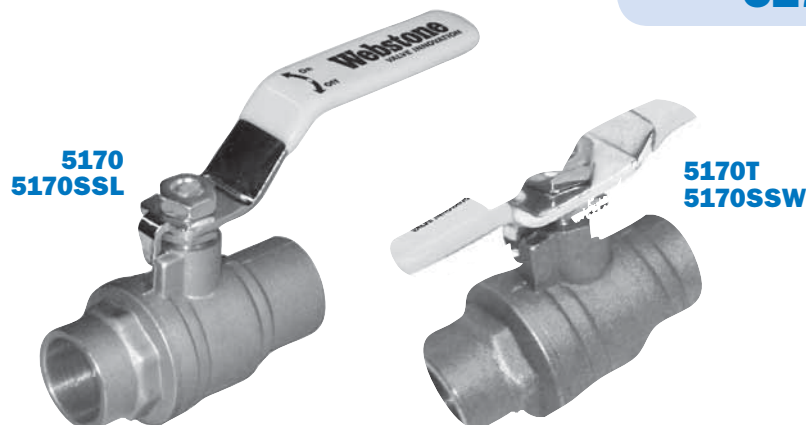
### THIS SPACE FOR DESIGNER / ENGINEER APPROVAL

|                         |            |                        |
|-------------------------|------------|------------------------|
| Job/Customer _____      | Date _____ | Contractor _____       |
| Model Specified _____   | Qty _____  | Approved By _____      |
| Designer/Engineer _____ | Date _____ | Contractor's PO# _____ |
| Submitted by _____      | Date _____ | Other _____            |

# Full Port Forged Brass Ball Valves

**600 WOG / 150 WSP**  
(400 WOG / 125 WSP for 2½" - 4")  
**ISO 9001**

## 5170 Series - CxC

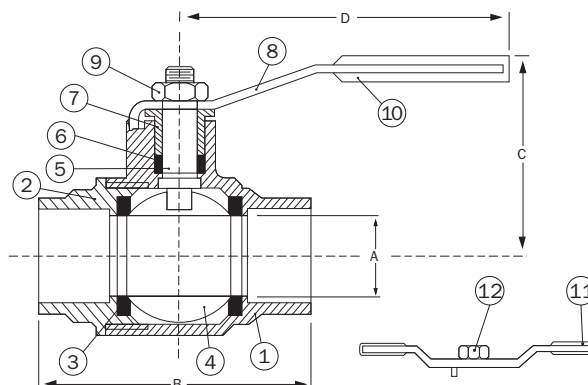


| TEMP °F | ½" - 2" PSI | 2½" - 4" PSI |
|---------|-------------|--------------|
| 100     | 600         | 400          |
| 150     | 490         | 327          |
| 200     | 479         | 313          |
| 250     | 470         | 293          |
| 300     | N/A         | N/A          |
| 350     | N/A         | N/A          |
| 366     | N/A         | N/A          |

### 5170 Series - CxC

| ITEM #                                              | SIZE   | CTN/CASE | A     | B      | C     | D     | C <sub>v</sub> |
|-----------------------------------------------------|--------|----------|-------|--------|-------|-------|----------------|
| <b>W/ CHROME PLATED LEVER HANDLE</b>                |        |          |       |        |       |       |                |
| 51702                                               | 1/2"   | 10/100   | 1/2   | 2 5/16 | 2 1/8 | 3 1/2 | 11.5           |
| 51703                                               | 3/4"   | 10/60    | 3/4   | 2 7/8  | 2 1/4 | 3 3/4 | 27.0           |
| 51704                                               | 1"     | 6/48     | 1     | 3 1/2  | 2 5/8 | 4 1/2 | 49.3           |
| 51705                                               | 1 1/4" | 4/32     | 1 1/4 | 4 1/4  | 3     | 4 1/2 | 114.0          |
| 51706                                               | 1 1/2" | 2/24     | 1 1/2 | 4 5/8  | 3 5/8 | 5 1/2 | 161.3          |
| 51707                                               | 2"     | 2/16     | 2     | 5 3/8  | 4     | 5 1/2 | 248.6          |
| 51708                                               | 2 1/2" | 2/6      | 2 1/2 | 6 1/4  | 5     | 9     | 262.3          |
| 51709                                               | 3"     | 1/3      | 3     | 7 1/4  | 5 1/2 | 9     | 418.2          |
| 51710                                               | 4"     | 1/2      | 4     | 9 1/4  | 6     | 9 1/2 | 567.8          |
| <b>W/ 304 STAINLESS STEEL HANDLE</b>                |        |          |       |        |       |       |                |
| 51702SSL                                            | 1/2"   | 10/100   | 1/2   | 2 5/16 | 2 1/8 | 3 1/2 | 11.5           |
| 51703SSL                                            | 3/4"   | 10/60    | 3/4   | 2 7/8  | 2 1/4 | 3 3/4 | 27.0           |
| 51704SSL                                            | 1"     | 6/48     | 1     | 3 1/2  | 2 5/8 | 4 1/2 | 49.3           |
| 51705SSL                                            | 1 1/4" | 4/32     | 1 1/4 | 4 1/4  | 3     | 4 1/2 | 114.0          |
| 51706SSL                                            | 1 1/2" | 2/24     | 1 1/2 | 4 5/8  | 3 5/8 | 5 1/2 | 161.3          |
| 51707SSL                                            | 2"     | 2/16     | 2     | 5 3/8  | 4     | 5 1/2 | 248.6          |
| <b>W/ WING STYLE "T" HANDLE*</b>                    |        |          |       |        |       |       |                |
| 51702T                                              | 1/2"   | 10/100   | 1/2   | 2 5/16 | 2 1/8 | 1 3/4 | 11.5           |
| 51703T                                              | 3/4"   | 10/60    | 3/4   | 2 7/8  | 2 1/4 | 1 3/4 | 27.0           |
| 51704T                                              | 1"     | 6/48     | 1     | 3 1/2  | 2 5/8 | 1 3/4 | 49.3           |
| <b>W/ 304 STAINLESS STEEL WING STYLE "T" HANDLE</b> |        |          |       |        |       |       |                |
| 51702SSW                                            | 1/2"   | 10/100   | 1/2   | 2 5/16 | 2 1/8 | 1 3/4 | 11.5           |
| 51703SSW                                            | 3/4"   | 10/60    | 3/4   | 2 7/8  | 2 1/4 | 1 3/4 | 27.5           |
| 51704SSW                                            | 1"     | 6/48     | 1     | 3 1/2  | 2 5/8 | 1 3/4 | 49.3           |

| NO. | DESCRIPTION           | MATERIAL                                     |
|-----|-----------------------|----------------------------------------------|
| 1   | BODY                  | BRASS                                        |
| 2   | END CAP               | BRASS                                        |
| 3   | SEAT                  | PTFE                                         |
| 4   | BALL                  | BRASS HCP                                    |
| 5   | STEM                  | BRASS                                        |
| 6   | STEM SEAL             | PTFE                                         |
| 7   | PACKING GLAND         | BRASS                                        |
| 8   | LEVER HANDLE          | STEEL CP (5170) / STAINLESS STEEL (5170SSL)  |
| 9   | HANDLE NUT            | STEEL CP (5170) / STAINLESS STEEL (5170SSL)  |
| 10  | HANDLE JACKET         | VINYL                                        |
| 11  | WING STYLE "T" HANDLE | STAINLESS STEEL (5170SSW) / STEEL CP (5170T) |
| 12  | HANDLE NUT            | STAINLESS STEEL (5170SSW) / STEEL CP (5170T) |



Specifications: Designed for residential, commercial or industrial use with water, oil or gas. This approved Webstone valve is actuated by a blowout proof stem and features an adjustable packing gland. Solder joint temperature ratings are per ASME B16.18 Annex A for 95-5 solder. Other solder materials have lower pressure/temperature limits. Do not silver braze or overheat valves when soldering. \*5170T valves are not manufactured in an ISO facility.

### THIS SPACE FOR DESIGNER / ENGINEER APPROVAL

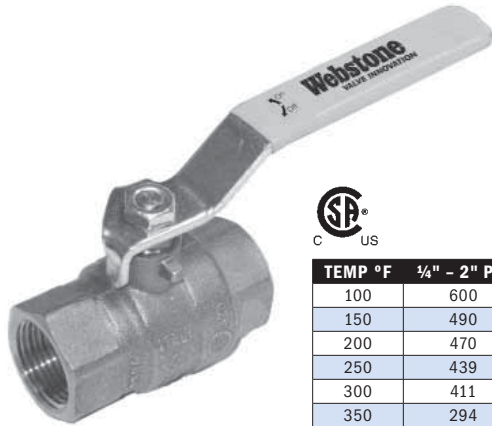
|                         |            |                        |
|-------------------------|------------|------------------------|
| Job/Customer _____      | Date _____ | Contractor _____       |
| Model Specified _____   | Qty _____  | Approved By _____      |
| Designer/Engineer _____ | Date _____ | Contractor's PO# _____ |
| Submitted by _____      | Date _____ | Other _____            |

# Full Port Forged Brass Ball Valves

w/ Reversible Handle

**600 WOG / 150 WSP**  
(400 WOG / 125 WSP for 2½" - 4")  
**ISO 9001**

## 4070 Series - IPS



| TEMP °F | ¼" - 2" PSI | 2½" - 4" PSI |
|---------|-------------|--------------|
| 100     | 600         | 400          |
| 150     | 490         | 327          |
| 200     | 470         | 313          |
| 250     | 439         | 293          |
| 300     | 411         | 274          |
| 350     | 294         | 196          |
| 366     | N/A         | N/A          |

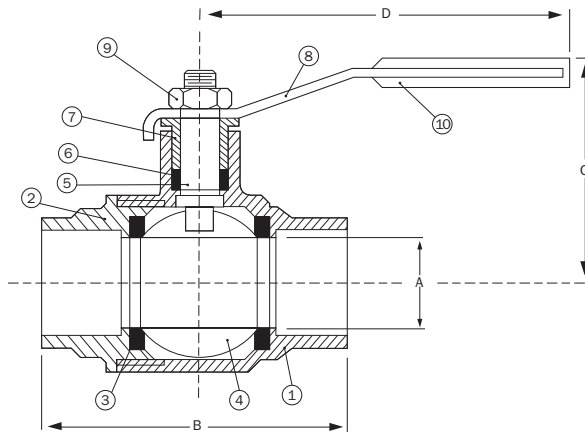
### 4070 Series - IPS

| ITEM # | SIZE   | CTN/CASE | A     | B      | C     | D      | C <sub>v</sub> |
|--------|--------|----------|-------|--------|-------|--------|----------------|
| 40702  | 1/2"   | 10/100   | 1/2   | 2 9/16 | 1 7/8 | 3 5/8  | 11.5           |
| 40703  | 3/4"   | 5/60     | 3/4   | 2 9/16 | 2 1/8 | 4 3/8  | 27.0           |
| 40705  | 1 1/4" | 4/28     | 1 1/4 | 3 1/2  | 2 3/4 | 5 1/2  | 127.7          |
| 40707  | 2"     | 2/12     | 2     | 4 9/16 | 3 1/2 | 6 5/16 | 286.1          |
| 40708  | 2 1/2" | 1/6      | 2 1/2 | 5 1/2  | 4 3/4 | 8      | 319.1          |
| 40710  | 4"     | 1/4      | 4     | 7      | 5 1/2 | 11 1/2 | 558.8          |

### 5070 Series - CxC

| ITEM # | SIZE   | CTN/CASE | A     | B     | C      | D     | C <sub>v</sub> |
|--------|--------|----------|-------|-------|--------|-------|----------------|
| 50703  | 3/4"   | 5/60     | 3/4   | 2 7/8 | 2 1/16 | 4 3/8 | 27.0           |
| 50704  | 1"     | 5/40     | 1     | 3 1/2 | 2 3/8  | 4 3/8 | 49.3           |
| 50705  | 1 1/4" | 4/28     | 1 1/4 | 3 7/8 | 2 3/4  | 5 5/8 | 114.0          |
| 50706  | 1 1/2" | 4/20     | 1 1/2 | 4 1/2 | 3      | 5 5/8 | 168.5          |
| 50707  | 2"     | 2/12     | 2     | 5 1/2 | 3 5/8  | 6 3/8 | 255.8          |

| NO. | DESCRIPTION   | MATERIAL  |
|-----|---------------|-----------|
| 1   | BODY          | BRASS     |
| 2   | END CAP       | BRASS     |
| 3   | SEAT          | PTFE      |
| 4   | BALL          | BRASS HCP |
| 5   | STEM          | BRASS     |
| 6   | STEM SEAL     | PTFE      |
| 7   | PACKING GLAND | BRASS     |
| 8   | HANDLE        | STEEL CP  |
| 9   | HANDLE NUT    | STEEL CP  |
| 10  | HANDLE JACKET | VINYL     |



Specifications: Designed for residential, commercial or industrial use with water, oil or gas. This approved Webstone valve is actuated by a blowout proof stem and features an adjustable packing gland. Threaded ends comply with ANSI B1.20.1. Solder joint temperature ratings are per ASME B16.18 Annex A for 95-5 solder. Other solder materials have lower pressure/temperature limits. Do not silver braze or overheat valves when soldering.

### THIS SPACE FOR DESIGNER / ENGINEER APPROVAL

|                         |            |                        |
|-------------------------|------------|------------------------|
| Job/Customer _____      | Date _____ | Contractor _____       |
| Model Specified _____   | Qty _____  | Approved By _____      |
| Designer/Engineer _____ | Date _____ | Contractor's PO# _____ |
| Submitted by _____      | Date _____ | Other _____            |

# Full Port Forged Brass Ball Valves

w/ 1/4" Threaded Gauge Hole (Plugged) & Reversible Handle

**600 WOG / 150 WSP**  
(400 WOG / 125 WSP for 2½" - 4")  
**ISO 9001**

## 4172 Series - IPS

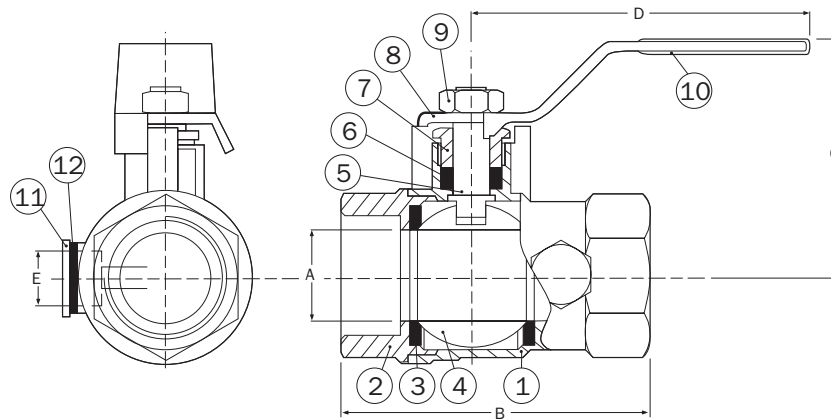


| TEMP °F | PSI |
|---------|-----|
| 100     | 600 |
| 150     | 490 |
| 200     | 470 |
| 250     | 439 |
| 300     | 411 |
| 350     | 294 |
| 366     | N/A |

| NO. | DESCRIPTION    | MATERIAL  |
|-----|----------------|-----------|
| 1   | BODY           | BRASS     |
| 2   | END CAP        | BRASS     |
| 3   | SEAT           | PTFE      |
| 4   | BALL           | BRASS HCP |
| 5   | STEM           | BRASS     |
| 6   | PACKING GLAND  | BRASS     |
| 7   | STEM SEAL      | PTFE      |
| 8   | HANDLE         | STEEL CP  |
| 9   | HANDLE NUT     | STEEL CP  |
| 10  | HANDLE JACKET  | VINYL     |
| 11  | GAUGE HOLE NUT | BRASS     |
| 12  | WASHER         | FIBER     |

## 4172 Series - IPS

| ITEM # | SIZE   | CTN/CASE | A     | B       | C       | D      | E   | C <sub>v</sub> |
|--------|--------|----------|-------|---------|---------|--------|-----|----------------|
| 41722  | 1/2"   | 10/80    | 1/2   | 2 5/16  | 2 1/16  | 3 7/16 | 1/4 | 11.5           |
| 41723  | 3/4"   | 10/60    | 3/4   | 2 11/16 | 2 5/16  | 3 1/2  | 1/4 | 27.1           |
| 41724  | 1"     | 6/48     | 1     | 3       | 2 1/2   | 4 5/16 | 1/4 | 49.3           |
| 41725  | 1 1/4" | 4/32     | 1 1/4 | 3 3/4   | 3 1/8   | 5 1/8  | 1/4 | 114.1          |
| 41726  | 1 1/2" | 2/24     | 1 1/2 | 4 1/8   | 3 11/16 | 5 3/8  | 1/4 | 161.3          |
| 41727  | 2"     | 2/16     | 2     | 4 5/8   | 4 1/8   | 6 1/2  | 1/4 | 248.7          |



Specifications: Designed for residential, commercial or industrial use with water, oil or gas. This approved Webstone valve is actuated by a blowout proof stem and features an adjustable packing gland. Threaded ends comply with ANSI B1.20.1

### THIS SPACE FOR DESIGNER / ENGINEER APPROVAL

|                         |            |                        |
|-------------------------|------------|------------------------|
| Job/Customer _____      | Date _____ | Contractor _____       |
| Model Specified _____   | Qty _____  | Approved By _____      |
| Designer/Engineer _____ | Date _____ | Contractor's PO# _____ |
| Submitted by _____      | Date _____ | Other _____            |

# Full Port Forged Brass Ball Valves

w/ Cap, Strap &amp; Reversible Handle

**600 WOG / 150 WSP**  
**ISO 9001**

## 4031 Series - FIP x Hose

## 5031 Series - SWT x Hose



| TEMP °F | PSI |
|---------|-----|
| 100     | 600 |
| 150     | 490 |
| 200     | 470 |
| 250     | 439 |
| 300     | 411 |
| 350     | 294 |
| 366     | N/A |



| TEMP °F | PSI |
|---------|-----|
| 100     | 600 |
| 150     | 485 |
| 200     | 395 |
| 250     | 210 |
| 300     | N/A |
| 350     | N/A |
| 366     | N/A |

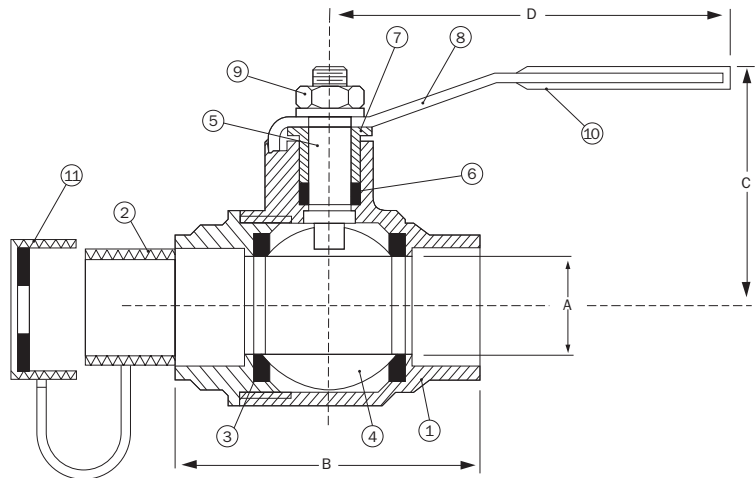
### 4031 Series - IPS

| ITEM # | SIZE        | CTN/CASE | A     | B      | C     | D      | C <sub>v</sub> |
|--------|-------------|----------|-------|--------|-------|--------|----------------|
| 40312  | 1/2" x 3/4" | 10/60    | 9/16  | 2 3/8  | 1 7/8 | 3 1/2  | 11.5           |
| 40313  | 3/4" x 3/4" | 10/60    | 11/16 | 2 9/16 | 1 7/8 | 4 1/16 | 27.0           |

### 5031 Series - C x C

| ITEM # | SIZE        | CTN/CASE | A   | B      | C     | D      | C <sub>v</sub> |
|--------|-------------|----------|-----|--------|-------|--------|----------------|
| 50312  | 1/2" x 3/4" | 10/100   | 1/2 | 2 1/2  | 1 7/8 | 3 9/16 | 11.5           |
| 50313  | 3/4" x 3/4" | 10/60    | 3/4 | 2 9/16 | 2 1/8 | 4 5/16 | 27.1           |

| NO. | DESCRIPTION   | MATERIAL           |
|-----|---------------|--------------------|
| 1   | BODY          | BRASS              |
| 2   | END CAP       | BRASS              |
| 3   | SEAT          | PTFE               |
| 4   | BALL          | BRASS HCP          |
| 5   | STEM          | BRASS              |
| 6   | STEM SEAL     | PTFE               |
| 7   | PACKING GLAND | BRASS              |
| 8   | HANDLE        | STEEL CP           |
| 9   | HANDLE NUT    | STEEL CP           |
| 10  | HANDLE JACKET | VINYL              |
| 11  | CAP & STRAP   | BRASS W/ NBR STRAP |



Specifications: Designed for residential, commercial or industrial use with water, oil or gas. This approved Webstone valve is actuated by a blowout proof stem and features an adjustable packing gland. Threaded ends comply with ANSI B1.20.1. Solder joint temperature ratings are per ASME B16.18 Annex A for 95-5 solder. Other solder materials have lower pressure/temperature limits. Do not silver braze or overheat valves when soldering. Hose ends comply with ANSI B1.20.7.

### THIS SPACE FOR DESIGNER / ENGINEER APPROVAL

|                         |            |                        |
|-------------------------|------------|------------------------|
| Job/Customer _____      | Date _____ | Contractor _____       |
| Model Specified _____   | Qty _____  | Approved By _____      |
| Designer/Engineer _____ | Date _____ | Contractor's PO# _____ |
| Submitted by _____      | Date _____ | Other _____            |

# Forged Brass Gas Ball Valves

 1/2 to 175 WOG  
 ISO 9001

## 2156 Series - IPS w/ Locking Device



| TEMP °F | PSI |
|---------|-----|
| 100     | 175 |
| 150     | 175 |
| 200     | 175 |
| 250     | 175 |
| 300     | 175 |
| 350     | 175 |
| 366     | 175 |



## 2153 Series - IPS



| TEMP °F | PSI |
|---------|-----|
| 100     | 175 |
| 150     | 175 |
| 200     | 175 |
| 250     | 175 |
| 300     | 175 |
| 350     | 175 |
| 366     | 175 |



## 2154 Series - IPS



| TEMP °F | PSI |
|---------|-----|
| 100     | 175 |
| 150     | 175 |
| 200     | 175 |
| 250     | 175 |
| 300     | 175 |
| 350     | 175 |
| 366     | 175 |



### 2156 Series - IPS

| ITEM # | SIZE | CTN/CASE | A   | B      | C     | D     |
|--------|------|----------|-----|--------|-------|-------|
| 21562  | 1/2" | 12/144   | 1/2 | 2 3/16 | 1 3/8 | 1 3/4 |
| 21563  | 3/4" | 12/96    | 3/4 | 2 3/8  | 1 3/4 | 1 3/4 |
| 21564  | 1"   | 6/60     | 1   | 2 7/8  | 1 3/4 | 1 3/4 |

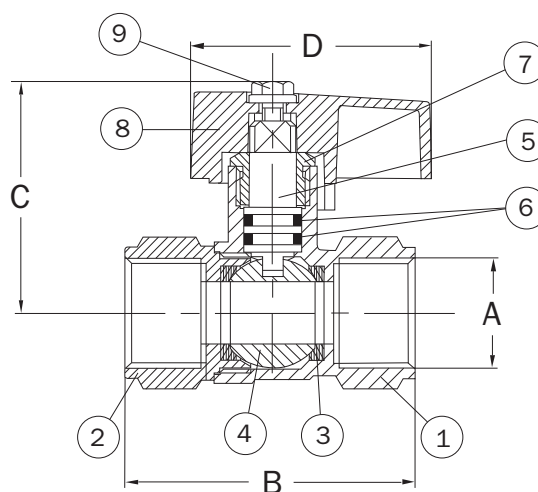
### 2153 Series - IPS

| ITEM # | SIZE | CTN/CASE | A   | B     | C       | D |
|--------|------|----------|-----|-------|---------|---|
| 21532  | 1/2" | 12/144   | 1/2 | 2 1/4 | 1 3/8   | 1 |
| 21533  | 3/4" | 12/96    | 3/4 | 2 3/8 | 1 11/16 | 1 |
| 21534  | 1"   | 6/60     | 1   | 2 7/8 | 1 3/4   | 1 |

### 2154 Series - IPS

| ITEM # | SIZE | CTN/CASE | A   | B     | C       | D   |
|--------|------|----------|-----|-------|---------|-----|
| 21542  | 1/2" | 12/144   | 1/2 | 2 1/4 | 1 1/2   | 1/2 |
| 21543  | 3/4" | 12/96    | 3/4 | 2 1/2 | 1 11/16 | 3/4 |
| 21544  | 1"   | 6/60     | 1   | 2 7/8 | 1 15/16 | 7/8 |

| NO. | DESCRIPTION   | MATERIAL  |
|-----|---------------|-----------|
| 1   | BODY          | BRASS     |
| 2   | END CAP       | BRASS     |
| 3   | SEATS         | PTFE      |
| 4   | BALL          | BRASS HCP |
| 5   | STEM          | BRASS     |
| 6   | O-RING        | FKM       |
| 7   | PACKING GLAND | BRASS     |
| 8   | HANDLE        | ALUMINUM  |
| 9   | SCREW         | BRASS     |



Specifications: Designed for use with natural, manufactured, mixed liquefied petroleum and LP gas/air mixtures. These valves comply with ANSI 2.21.15 for use as a gas appliance connector valve for a 1/2 lb system. Threaded ends comply with ANSI B1.20.1. Valves in the 2153 and 2154 series are actuated by blowout proof stems.

### THIS SPACE FOR DESIGNER / ENGINEER APPROVAL

|                         |            |                        |
|-------------------------|------------|------------------------|
| Job/Customer _____      | Date _____ | Contractor _____       |
| Model Specified _____   | Qty _____  | Approved By _____      |
| Designer/Engineer _____ | Date _____ | Contractor's PO# _____ |
| Submitted by _____      | Date _____ | Other _____            |

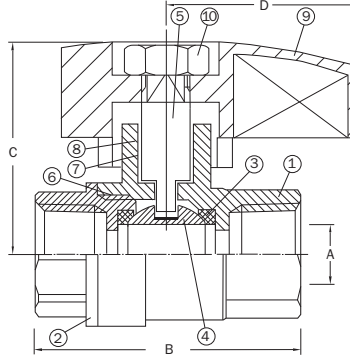
## Forged Brass Gas Ball Valves

**Non CSA Applications 600 WOG  
ISO 9001**

### 2256 Series - IPS



| TEMP °F | PSI |
|---------|-----|
| 100     | 600 |
| 150     | 490 |
| 200     | 470 |
| 250     | 439 |
| 300     | 411 |
| 350     | 294 |
| 366     | N/A |



| NO. | DESCRIPTION   | MATERIAL              |
|-----|---------------|-----------------------|
| 1   | BODY          | BRASS                 |
| 2   | END CAP       | BRASS                 |
| 3   | SEATS         | PTFE                  |
| 4   | BALL          | BRASS HCP             |
| 5   | STEM          | BRASS                 |
| 6   | THRUST WASHER | PTFE                  |
| 7   | STEM SEAL     | PTFE                  |
| 8   | PACKING GLAND | BRASS                 |
| 9   | LEVER HANDLE  | ZINC W/ EPOXY COATING |
| 10  | SCREW         | BRASS                 |



CSA Approved Class 3371-12  
5 PSIG Maximum for Gas  
Appliance Inlet Connection

CSA Approved Class 3371-88  
1/2 PSIG Maximum for Gas  
Appliance Pilot Shutoff

Specifications: Designed for use with natural, manufactured, mixed liquefied petroleum and LP gas/air mixtures. This approved Webstone valve is actuated by a blowout proof stem. This valve complies with ANSI 2.21.15 for use as a gas appliance connector valve for a 1/2 lb system. Threaded ends comply with ANSI B1.20.1.

### 2256 Series - IPS

| ITEM # | SIZE | CTN/CASE | A   | B     | C     | D     |
|--------|------|----------|-----|-------|-------|-------|
| 22561  | 3/8" | 12/144   | 1/8 | 1 3/4 | 1 3/8 | 1 3/8 |
| 22562  | 1/2" | 12/144   | 1/8 | 2 1/4 | 1 3/8 | 1 3/8 |
| 22563  | 3/4" | 12/144   | 1/4 | 2 3/8 | 1 3/8 | 1 3/8 |

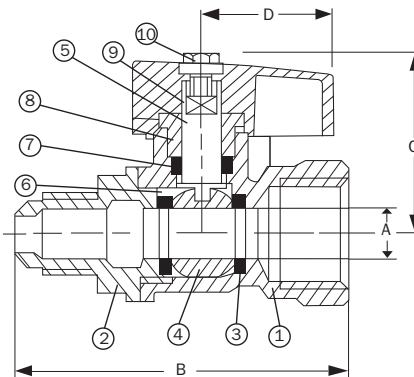
## Forged Brass Gas Ball Valves

**1/2 to 175 WOG  
ISO 9001**

### 2252 & 2152 Series - Flare x FIP



| TEMP °F | PSI |
|---------|-----|
| 100     | 175 |
| 150     | 175 |
| 200     | 175 |
| 250     | 175 |
| 300     | 175 |
| 350     | 175 |
| 366     | 175 |



| NO. | DESCRIPTION   | MATERIAL              |
|-----|---------------|-----------------------|
| 1   | BODY          | BRASS                 |
| 2   | END CAP       | BRASS                 |
| 3   | SEATS         | PTFE                  |
| 4   | BALL          | BRASS HCP             |
| 5   | STEM          | BRASS                 |
| 6   | STEM SEAL     | PTFE                  |
| 7   | PACKING GLAND | BRASS                 |
| 8   | LEVER HANDLE  | ZINC W/ EPOXY COATING |
| 9   | SCREW         | BRASS                 |



Specifications: Designed for use with natural, manufactured, mixed liquefied petroleum and LP gas/air mixtures. The 22521 and 22522 are each actuated by a blowout proof stem. This valve complies with ANSI 2.21.15 for use as a gas appliance connector valve for a 1/2 lb system. Threaded ends comply with ANSI B1.20.1.

### 2252 & 2152 Series - Flare x FIP

| ITEM # | SIZE        | CTN/CASE | A   | B     | C     | D     |
|--------|-------------|----------|-----|-------|-------|-------|
| 22521  | 3/8" x 1/2" | 10/120   | 3/4 | 2 3/4 | 1 3/4 | 1 3/4 |
| 22522  | 1/2" x 1/2" | 10/100   | 1/2 | 2 5/8 | 1 1/8 | 1 1/3 |
| 21526  | 5/8" x 3/4" | 6/96     | 1/2 | 2 5/8 | 1 1/4 | 1 1/8 |

### THIS SPACE FOR DESIGNER / ENGINEER APPROVAL

|                         |            |                        |
|-------------------------|------------|------------------------|
| Job/Customer _____      | Date _____ | Contractor _____       |
| Model Specified _____   | Qty _____  | Approved By _____      |
| Designer/Engineer _____ | Date _____ | Contractor's P0# _____ |
| Submitted by _____      | Date _____ | Other _____            |

# Forged Brass Gas Ball Valves

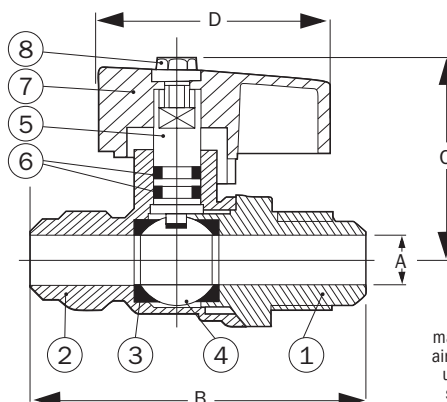
**1/2 to 175 WOG  
ISO 9001**

## 2155 Series-Flare x Flare



| TEMP °F | PSI |
|---------|-----|
| 100     | 175 |
| 150     | 175 |
| 200     | 175 |
| 250     | 175 |
| 300     | 175 |
| 350     | 175 |
| 366     | 175 |

| NO. | DESCRIPTION | MATERIAL  |
|-----|-------------|-----------|
| 1   | BODY        | BRASS     |
| 2   | END CAP     | BRASS     |
| 3   | SEATS       | PTFE      |
| 4   | BALL        | BRASS HCP |
| 5   | STEM        | BRASS     |
| 6   | O-RING      | FKM       |
| 7   | HANDLE      | ALUMINUM  |
| 8   | SCREW       | BRASS     |



Specifications: Designed for use with natural, manufactured, mixed liquefied petroleum and LP gas/air mixtures. This valve complies with ANSI 2.21.15 for use as a gas appliance connector valve for a 1/2 lb system. Threaded ends comply with ANSI B1.20.1.

### 2155 Series-Flare x Flare

| ITEM # | SIZE        | CTN/CASE | A   | B      | C     | D      |
|--------|-------------|----------|-----|--------|-------|--------|
| 21550  | 3/8" x 3/8" | 12/144   | 1/4 | 2 1/2  | 1 1/2 | 1 3/16 |
| 21551  | 1/2" x 1/2" | 12/144   | 3/8 | 2 9/16 | 1 1/2 | 1 3/16 |

# Forged Brass Gas Ball Valves

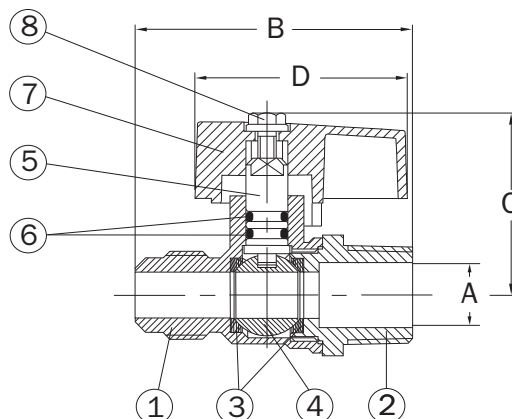
**1/2 to 175 WOG  
ISO 9001**

## 2157 Series - Flare x MIP



| TEMP °F | PSI |
|---------|-----|
| 100     | 175 |
| 150     | 175 |
| 200     | 175 |
| 250     | 175 |
| 300     | 175 |
| 350     | 175 |
| 366     | 175 |

| NO. | DESCRIPTION | MATERIAL  |
|-----|-------------|-----------|
| 1   | BODY        | BRASS     |
| 2   | END CAP     | BRASS     |
| 3   | SEATS       | PTFE      |
| 4   | BALL        | BRASS HCP |
| 5   | STEM        | BRASS     |
| 6   | O-RINGS     | VITON     |
| 7   | HANDLE      | ALUMINUM  |
| 8   | SCREW       | BRASS     |



Specifications: Designed for use with natural, manufactured, mixed liquefied petroleum and LP gas/air mixtures. This approved Webstone valves is actuated by a blowout proof stem. This valve complies with ANSI 2.21.15 for use as a gas appliance connector valve for a 1/2 lb system. Threaded ends comply with ANSI B1.20.1.

### 2157 Series - Flare x MIP

| ITEM # | SIZE        | CTN/CASE | A   | B      | C     | D     |
|--------|-------------|----------|-----|--------|-------|-------|
| 21571  | 3/8" x 1/2" | 12/144   | 1/4 | 2 7/16 | 1 1/2 | 1 3/4 |
| 21572  | 1/2" x 1/2" | 12/144   | 3/8 | 2 7/16 | 1 1/2 | 1 3/4 |

### THIS SPACE FOR DESIGNER / ENGINEER APPROVAL

|                         |            |                        |
|-------------------------|------------|------------------------|
| Job/Customer _____      | Date _____ | Contractor _____       |
| Model Specified _____   | Qty _____  | Approved By _____      |
| Designer/Engineer _____ | Date _____ | Contractor's PO# _____ |
| Submitted by _____      | Date _____ | Other _____            |

# Forged Brass Air Separator

w/ Removable Vent Head & Coalescing Medium

**150 PSI**  
**ISO 9001**

## 7400 Series - IPS



## 7500 Series - CxC

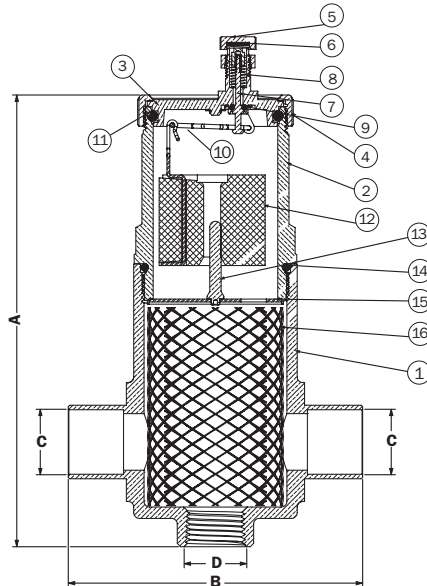


### 7400 Series - IPS

| ITEM # | SIZE   | CTN/CASE | A     | B     | C     | D   | Max GPM |
|--------|--------|----------|-------|-------|-------|-----|---------|
| 74003  | 3/4"   | 1        | 6 1/4 | 3 5/8 | 3/4   | 1/2 | 6       |
| 74004  | 1"     | 1        | 6 1/4 | 3 3/4 | 1     | 1/2 | 10      |
| 74005  | 1 1/4" | 1        | 6 1/4 | 3 7/8 | 1 1/4 | 1/2 | 15      |
| 74006  | 1 1/2" | 1        | 9 1/8 | 5     | 1 1/2 | 1/2 | 30      |
| 74007  | 2"     | 1        | 9 1/8 | 5 1/8 | 2     | 1/2 | 40      |

### 7500 Series - CxC

| ITEM # | SIZE   | CTN/CASE | A     | B     | C     | D   | Max GPM |
|--------|--------|----------|-------|-------|-------|-----|---------|
| 75003  | 3/4"   | 1        | 6 1/4 | 4     | 3/4   | 1/2 | 6       |
| 75004  | 1"     | 1        | 6 1/4 | 4 1/2 | 1     | 1/2 | 10      |
| 75005  | 1 1/4" | 1        | 6 1/4 | 4 1/2 | 1 1/4 | 1/2 | 15      |
| 75006  | 1 1/2" | 1        | 9 1/8 | 5 5/8 | 1 1/2 | 1/2 | 30      |
| 75007  | 2"     | 1        | 9 1/8 | 6 1/8 | 2     | 1/2 | 40      |



| NO | DESCRIPTION             | MATERIAL        |
|----|-------------------------|-----------------|
| 1  | LOWER BODY              | BRASS           |
| 2  | UPPER BODY              | BRASS           |
| 3  | BODY CAP                | BRASS           |
| 4  | BODY CAP RING           | BRASS           |
| 5  | VENT CAP                | BRASS           |
| 6  | VENT CAP WASHER         | BRASS           |
| 7  | VENT PIN ASSEMBLY       | BRASS           |
| 8  | VENT SPRING             | STAINLESS STEEL |
| 9  | VENT O-RING             | EPDM            |
| 10 | VENT/FLOAT ARM ASSEMBLY | STAINLESS STEEL |
| 11 | BODY CAP O-RING         | EPDM            |
| 12 | FLOAT                   | PLASTIC         |
| 13 | FLOAT ALIGNMENT PIN     | BRASS           |
| 14 | BODY O-RING             | EPDM            |
| 15 | BAFFEL                  | STAINLESS STEEL |
| 16 | MESH                    | STAINLESS STEEL |

Specifications: Designed for residential, commercial or industrial use to quickly extract micro bubbles and static air from a hydronic heating system. The Air Separator must be installed in a straight run of horizontal piping and positioned precisely upright. Designated lengths of straight piping before and after the unit are not required. Neither side is designated as an inlet or outlet; the flow may be directed in either direction. Threaded ends comply with ANSI B1.20.1. Solder joint temperature ratings are per ASME B16.18 Annex A for 95-5 solder. Other solder materials have lower pressure/temperature limits. Do not silver braze or overheat valves when soldering.

### THIS SPACE FOR DESIGNER / ENGINEER APPROVAL

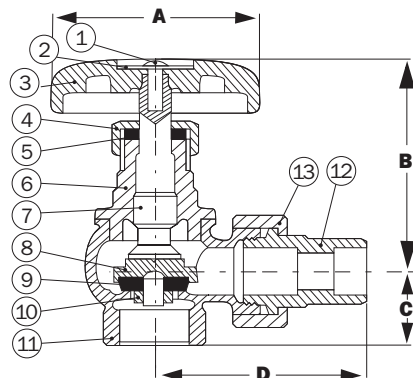
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| Job/Customer _____      | Date _____ | Contractor _____       |
| Model Specified _____   | Qty _____  | Approved By _____      |
| Designer/Engineer _____ | Date _____ | Contractor's P0# _____ |
| Submitted by _____      | Date _____ | Other _____            |

# Brass Hot Water Radiator Globe Valves

Angled w/ Ground Joint Union Tailpiece &amp; Nut

**60 PSI**  
**ISO 9001**

## 1155 Series - IPS



| NO. | DESCRIPTION   | MATERIAL         |
|-----|---------------|------------------|
| 1   | HANDLE BOLT   | HOT ROLLED STEEL |
| 2   | NAME PLATE    | ALUMINUM         |
| 3   | HAND WHEEL    | PHENOLIC         |
| 4   | PACKING NUT   | BRASS            |
| 5   | PACKING GLAND | PTFE             |
| 6   | BONNET        | BRASS            |
| 7   | STEM          | BRASS            |
| 8   | SEAT HOLDER   | BRASS            |
| 9   | SEAT PACKING  | RUBBER           |
| 10  | SEAT NUT      | BRASS            |
| 11  | BODY          | BRASS            |
| 12  | NIPPLE        | BRASS            |
| 13  | NIPPLE NUT    | BRASS            |

Specifications: Designed for residential and commercial use in hydronic applications. Not recommended for use with steam. Seepage feature in seat helps prevent freezing when valve is in the off position. Threaded ends comply with ANSI B1.20.1.

### 1155 Series - IPS

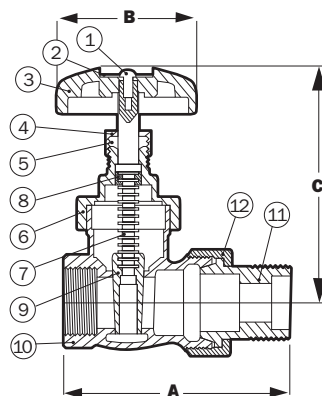
| ITEM # | SIZE   | CTN/CASE | A      | B      | C      | D       |
|--------|--------|----------|--------|--------|--------|---------|
| 11553  | 3/4"   | 6/48     | 2 3/8  | 2 5/16 | 1 1/4  | 2 5/8   |
| 11554  | 1"     | 4/36     | 3 1/16 | 2 3/4  | 1 1/4  | 2 13/16 |
| 11555  | 1 1/4" | 2/24     | 3 5/16 | 3 7/16 | 1 7/16 | 3 3/16  |
| 11556  | 1 1/2" | 2/16     | 3 5/8  | 3 5/8  | 1 7/16 | 3 11/16 |

# Brass Radiator Gate Valves

w/ Ground Joint Union Tailpiece &amp; Nut

**125 PSI / 15 WSP**  
**ISO 9001**

## 1152 Series - IPS



| NO. | DESCRIPTION   | MATERIAL         |
|-----|---------------|------------------|
| 1   | WHEEL BOLT    | HOT ROLLED STEEL |
| 2   | NAME PLATE    | ALUMINUM         |
| 3   | HAND WHEEL    | PHENOLIC         |
| 4   | PACKING NUT   | BRASS            |
| 5   | PACKING GLAND | PTFE             |
| 6   | BONNET        | BRASS            |
| 7   | STEM          | BRASS            |
| 8   | LOCK NUT      | BRASS            |
| 9   | DISC          | BRASS            |
| 10  | BODY          | BRASS            |
| 11  | NIPPLE        | BRASS            |
| 12  | NIPPLE NUT    | BRASS            |

Specifications: Designed for residential and commercial use in hydronic applications. Threaded ends comply with ANSI B1.20.1.

### 1152 Series - IPS

| ITEM # | SIZE   | CTN/CASE | A       | B      | C     |
|--------|--------|----------|---------|--------|-------|
| 11523  | 3/4"   | 6/60     | 3 1/2   | 3 9/16 | 3 3/8 |
| 11524  | 1"     | 4/36     | 4       | 4 1/16 | 3 7/8 |
| 11525  | 1 1/4" | 2/24     | 4 7/16  | 4 3/4  | 4 3/8 |
| 11526  | 1 1/2" | 2/16     | 4 13/16 | 5 1/2  | 5 1/4 |

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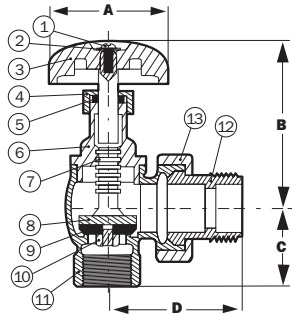
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|-------------------------|------------|------------------------|
| Job/Customer _____      | Date _____ | Contractor _____       |
| Model Specified _____   | Qty _____  | Approved By _____      |
| Designer/Engineer _____ | Date _____ | Contractor's PO# _____ |
| Submitted by _____      | Date _____ | Other _____            |

# Brass Steam Radiator Gate Valves

Angles w/ Ground Joint Union Tailpiece &amp; Nut

**60 PSI / 15 WSP**  
**ISO 9001**

## 1153 Series - IPS



| NO. | DESCRIPTION   | MATERIAL         |
|-----|---------------|------------------|
| 1   | HANDLE BOLT   | HOT ROLLED STEEL |
| 2   | NAME PLATE    | ALUMINUM         |
| 3   | HAND WHEEL    | PHENOLIC         |
| 4   | PACKING NUT   | BRASS            |
| 5   | PACKING GLAND | PTFE             |
| 6   | BONNET        | BRASS            |
| 7   | STEM          | BRASS            |
| 8   | SEAT HOLDER   | BRASS            |
| 9   | SEAT PACKING  | RUBBER           |
| 10  | SEAT NUT      | BRASS            |
| 11  | BODY          | BRASS            |
| 12  | NIPPLE        | BRASS            |
| 13  | NIPPLE NUT    | BRASS            |

Specifications: Designed for residential and commercial use for steam heating systems. May also be used on hot water systems in some applications. Threaded ends comply with ANSI B1.20.1.

### 1153 Series - IPS

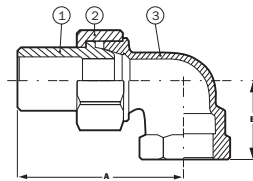
| ITEM # | SIZE   | CTN/CASE | A      | B      | C       | D       |
|--------|--------|----------|--------|--------|---------|---------|
| 11533  | 3/4"   | 6/48     | 2 5/16 | 2 3/4  | 1 1/8   | 2 9/16  |
| 11534  | 1"     | 4/36     | 2 5/16 | 3 1/16 | 1 1/4   | 2 13/16 |
| 11535  | 1 1/4" | 2/24     | 2 5/16 | 3 5/16 | 1 7/16  | 3 3/16  |
| 11536  | 1 1/2" | 2/16     | 2 5/16 | 3 7/16 | 1 11/16 | 3 9/16  |

# Brass Steam Radiator Gate Valves

Brass Union Elbows &amp; Nuts for Radiator Valves /w Ground Joint Connection

**60 PSI / 15 WSP**  
**ISO 9001**

## 1153-E Series - FIP x MIP



| NO. | DESCRIPTION | MATERIAL |
|-----|-------------|----------|
| 1   | NIPPLE      | BRASS    |
| 2   | NIPPLE NUT  | BRASS    |
| 3   | BODY        | BRASS    |

Specifications: Designed for residential or commercial use with approved brass radiator valves in steam and hot water heating systems. Allows for easy removal or relocation of hydronic radiators. Threaded ends comply with ANSI B1.20.1.

### 1153-E Series - FIP x MIP

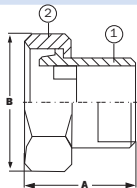
| ITEM #  | SIZE   | CTN/CASE | A     | B      |
|---------|--------|----------|-------|--------|
| 11533-E | 3/4"   | 10/100   | 2 1/2 | 1 5/16 |
| 11534-E | 1"     | 7/70     | 2 7/8 | 1 3/8  |
| 11535-E | 1 1/4" | 5/50     | 3 3/8 | 1 3/4  |

# Brass Steam Radiator Gate Valves

Brass Union Tailpiece &amp; Nuts for Radiator Valves w/ Ground Joint Connection

**60 PSI / 15 WSP**  
**ISO 9001**

## 1153-T Series - FIP x MIP



| NO. | DESCRIPTION | MATERIAL |
|-----|-------------|----------|
| 1   | NIPPLE      | BRASS    |
| 2   | NIPPLE NUT  | BRASS    |

Specifications: Designed for residential and commercial use with approved brass radiator valves in hydronic heating systems. Allows for easy removal or relocation of hydronic radiators. Threaded ends comply with ANSI B1.20.1.

### 1153-T Series - FIP x MIP

| ITEM #  | SIZE   | CTN/CASE | A       | B       |
|---------|--------|----------|---------|---------|
| 11533-T | 3/4"   | 22/220   | 1 5/8   | 1 11/16 |
| 11534-T | 1"     | 16/160   | 1 3/4   | 1 15/16 |
| 11535-T | 1 1/4" | 10/100   | 1 15/16 | 2       |

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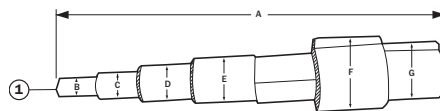
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| Job/Customer _____      | Date _____ | Contractor _____       |
| Model Specified _____   | Qty _____  | Approved By _____      |
| Designer/Engineer _____ | Date _____ | Contractor's PO# _____ |
| Submitted by _____      | Date _____ | Other _____            |

# Radiator Valve Spud Wrench

ISO 9001

**25011**

| NO. | DESCRIPTION | MATERIAL |
|-----|-------------|----------|
| 1   | BODY        | ZINC     |



Specifications: Designed for use with a radiator valve union tailpiece connection. This heavy duty tool is used internally to securely tighten any union tailpiece to a radiator and fits valve sizes 1/2" to 2".

**25011**

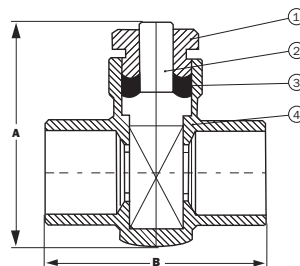
| ITEM # | SIZE                       | CTN/CASE | A      | B   | C   | D | E     | F | G     |
|--------|----------------------------|----------|--------|-----|-----|---|-------|---|-------|
| 25011  | 1/2"-2"<br>RADIATOR VALVES | 10/20    | 10 1/2 | 1/2 | 3/4 | 1 | 1 1/4 | 2 | 1 1/2 |

# Brass Balancing Valves

w/ Butterfly Action & Screwdriver Slot

125 PSI  
ISO 9001

**20103 - CxC**



| NO. | DESCRIPTION   | MATERIAL |
|-----|---------------|----------|
| 1   | PACKING GLAND | BRASS    |
| 2   | STEM          | BRASS    |
| 3   | STEM SEAL     | NBR      |
| 4   | BODY          | BRASS    |

Specifications: Designed for residential and commercial use to regulate flow. Ideal for use in hydronic closed loop heating systems. Regulates flow in multiple or single zone applications. Butterfly action diminishes noise and chatter in the system often encountered with gate valves use. Slotted actuation minimizes unintended adjustments. For use in 3/4" copper piping lines. Solder joint temperature ratings are per ASME B16.18 Annex A for 95-5 solder. Other solder materials have lower pressure/temperature limits. Do not silver braze or overheat valves when soldering.

**20103 - CxC**

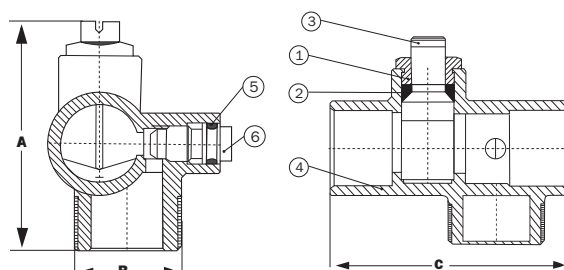
| ITEM # | SIZE | CTN/CASE | A      | B     |
|--------|------|----------|--------|-------|
| 20103  | 3/4" | 12/72    | 2 5/16 | 2 1/4 |

# Brass Purge & Balancing Valves

w/ Butterfly Action & Screwdriver Slot

125 PSI  
ISO 9001

**11603 - CxC**



| NO. | DESCRIPTION   | MATERIAL |
|-----|---------------|----------|
| 1   | PACKING GLAND | BRASS    |
| 2   | STEM SEAL     | NBR      |
| 3   | STEM          | BRASS    |
| 4   | BODY          | BRASS    |
| 5   | O-RING        | NBR      |
| 6   | DRAIN STEM    | BRASS    |

Specifications: Designed for residential and commercial use to regulate flow. Ideal for use in hydronic closed loop heating systems. Regulates flow in multiple or single zone applications. Butterfly action diminishes noise and chatter in the system often encountered with gate valves use. Purge feature easily eliminates air from the system which frequently causes poor water circulation, noise and undue wear and tear on the hydronic system. Slotted actuation minimizes unintended adjustments. For use in 3/4" copper piping lines. Solder joint temperature ratings are per ASME B16.18 Annex A for 95-5 solder. Other solder materials have lower pressure/temperature limits. Do not silver braze or overheat valves when soldering.

**11603 - CxC**

| ITEM # | SIZE | CTN/CASE | A     | B     | C     |
|--------|------|----------|-------|-------|-------|
| 11603  | 3/4" | 12/72    | 2 3/8 | 1 7/8 | 2 3/4 |

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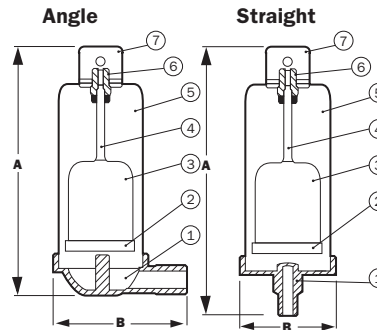
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| Job/Customer _____      | Date _____ | Contractor _____       |
| Model Specified _____   | Qty _____  | Approved By _____      |
| Designer/Engineer _____ | Date _____ | Contractor's PO# _____ |
| Submitted by _____      | Date _____ | Other _____            |

# Brass Steam Radiator Air Vent Valves

Chrome Plated Float Type, Non Vacuum

**10 PSI**  
**ISO 9001**

## 1151 Series



| NO. | DESCRIPTION      | MATERIAL       |
|-----|------------------|----------------|
| 1   | THREADED INLET   | BRASS CP       |
| 2   | FLOAT CAP        | BRONZE         |
| 3   | FLOATER          | BRASS SHEET    |
| 4   | PISTON           | BRASS SHEET    |
| 5   | BODY             | BRASS SHEET CP |
| 6   | ADJUSTABLE SCREW | BRASS          |
| 7   | VENT COLLAR      | BRASS SHEET CP |

Specifications: Designed for residential, commercial or industrial use. These valves are used on steam radiators, convectors, and steam mains. Model 11515-A provides for rapid venting.

### 1151 Series

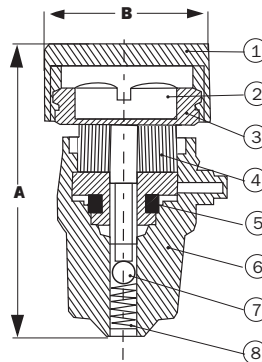
| ITEM #                  | SIZE        | CTN/CASE | A      | B       |
|-------------------------|-------------|----------|--------|---------|
| <b>ANGLE</b>            |             |          |        |         |
| 11511                   | 1/8"        | 12/72    | 3 1/8  | 1 11/16 |
| <b>STRAIGHT</b>         |             |          |        |         |
| 11512                   | 1/8"        | 12/72    | 3 1/2  | 1 1/4   |
| 11513                   | 1/4"        | 12/72    | 3 9/16 | 1 1/8   |
| 11514                   | 1/2" x 3/4" | 12/72    | 3 1/2  | 1 1/4   |
| <b>ADJUSTABLE ANGLE</b> |             |          |        |         |
| 11515-A                 | 1/8"        | 12/72    | 3 1/4  | 1 3/4   |

# Forged Brass Auto Steam Vent Valves

Stainless Steel Check Ball &amp; Spring

**125 PSI**  
**ISO 9001**

## 11516 & 11517 - IPS



| NO. | DESCRIPTION        | MATERIAL |
|-----|--------------------|----------|
| 1   | HAND WHEEL         | ABS      |
| 2   | DISC BEARING COVER | BRASS    |
| 3   | DISC HOLDER        | BRASS    |
| 4   | DISC               | FIBER    |
| 5   | O-RING             | NPRN     |
| 6   | BODY               | BRASS    |
| 7   | CHECK BALL         | STEEL    |
| 8   | SPRING             | STEEL    |

Specifications: Designed for residential and commercial heating applications for use in hot water baseboard. Allows bleeding of air from the system and protects the system from damage due to thermal expansion because of the spring loaded ball design. These valves provide manual or automatic air venting in radiators, convectors, baseboards or high points in piping systems. Ideal for hot water and low pressure steam systems.

### 11516 & 11517 - IPS

| ITEM # | SIZE | CTN/CASE | A      | B     |
|--------|------|----------|--------|-------|
| 11516  | 1/8" | 50/500   | 1 5/16 | 11/16 |
| 11517  | 1/4" | 50/500   | 1 5/16 | 11/16 |

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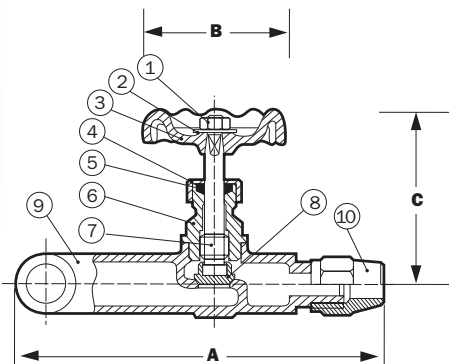
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| Model Specified _____   | Qty _____  | Approved By _____      |
| Designer/Engineer _____ | Date _____ | Contractor's PO# _____ |
| Submitted by _____      | Date _____ | Other _____            |

# Brass Tank Valve (Globe)

Hard Seat

**125 PSI**  
**ISO 9001**

## 1140 Series



| NO. | DESCRIPTION | MATERIAL         |
|-----|-------------|------------------|
| 1   | HANDLE NUT  | HOT ROLLED STEEL |
| 2   | NAME PLATE  | ALUMINUM         |
| 3   | HAND WHEEL  | CAST IRON        |
| 4   | PACKING NUT | BRASS            |
| 5   | PACKING     | PTFE             |
| 6   | BONNET      | BRASS            |
| 7   | STEM        | BRASS            |
| 8   | DISC        | BRASS            |
| 9   | BODY        | BRASS            |
| 10  | FLARE NUT   | BRASS            |

Specifications: Designed for residential or commercial use with oil, on tanks delivering gravity fed heating fuel to oil fired boilers. Threaded ends comply with ANSI B1.20.1.

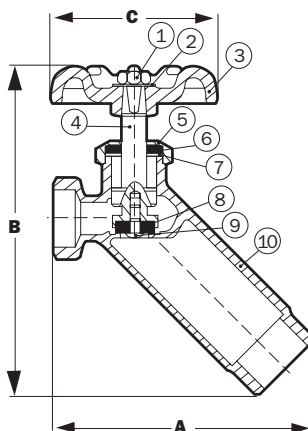
### 1140 Series

| ITEM #           | SIZE               | CTN/CASE    | A      | B      | C     |
|------------------|--------------------|-------------|--------|--------|-------|
| <b>MIP x MIP</b> |                    |             |        |        |       |
| <b>11401</b>     | <b>1/2" x 3/8"</b> | <b>6/72</b> | 2 5/16 | 2 3/4  | 1 1/8 |
| <b>MIP x FLR</b> |                    |             |        |        |       |
| <b>11403</b>     | <b>1/2" x 3/8"</b> | <b>6/72</b> | 2 5/16 | 3 1/16 | 1 1/4 |

# Brass Water Heater Drain Valve

**125 PSI**  
**ISO 9001**

## 11710 - MIP x Hose



| NO. | DESCRIPTION  | MATERIAL        |
|-----|--------------|-----------------|
| 1   | HANDLE NUT   | BRASS           |
| 2   | NAME PLATE   | ALUMINUM        |
| 3   | HANDLE       | CAST IRON       |
| 4   | STEM         | BRASS           |
| 5   | BONNET       | BRASS           |
| 6   | PACKING      | RUBBER          |
| 7   | WASHER       | STAINLESS STEEL |
| 8   | SEAT PACKING | RUBBER          |
| 9   | SEAT SCREW   | BRASS           |
| 10  | BODY         | BRASS           |

Specifications: Designed for residential, commercial or industrial use in hydronic heating systems. Threaded ends comply with ANSI B1.20.1.

### 1170 Series - MIP x Hose

| ITEM #       | SIZE        | CTN/CASE     | A      | B     | C      |
|--------------|-------------|--------------|--------|-------|--------|
| <b>11710</b> | <b>3/4"</b> | <b>12/72</b> | 3 5/16 | 4 1/4 | 2 1/16 |

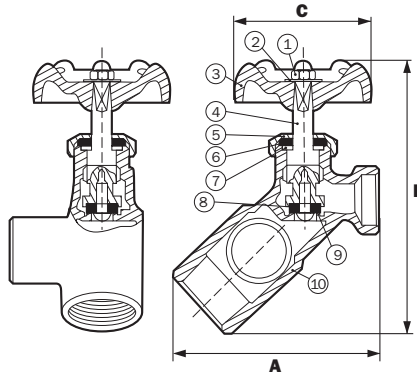
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| Model Specified _____   | Qty _____  | Approved By _____      |
| Designer/Engineer _____ | Date _____ | Contractor's PO# _____ |
| Submitted by _____      | Date _____ | Other _____            |

# Brass Water Heater Drain Valve

w/ Recirculating Elbow

## 11711-T - FIP x FIP x Hose



| NO. | DESCRIPTION  | MATERIAL        |
|-----|--------------|-----------------|
| 1   | HANDLE NUT   | BRASS           |
| 2   | NAME PLATE   | ALUMINUM        |
| 3   | HANDLE       | CAST IRON       |
| 4   | STEM         | BRASS           |
| 5   | BONNET       | BRASS           |
| 6   | PACKING      | RUBBER          |
| 7   | WASHER       | STAINLESS STEEL |
| 8   | SEAT PACKING | RUBBER          |
| 9   | SEAT SCREW   | BRASS           |
| 10  | BODY         | BRASS           |

Specifications: Designed for residential, commercial or industrial use in hydronic heating systems. Threaded ends comply with ANSI B1.20.1.

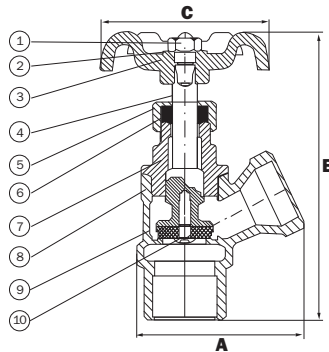
### 1170 Series - FIP x FIP x Hose

| ITEM #  | SIZE | CTN/CASE | A     | B       | C      |
|---------|------|----------|-------|---------|--------|
| 11711-T | 3/4" | 12/72    | 3 1/4 | 3 13/16 | 2 1/16 |

## Brass Boiler Drains

**200 PSI  
ISO 9001**

## 11702, 11703, 11707, 11708



| NO. | DESCRIPTION  | MATERIAL             |
|-----|--------------|----------------------|
| 1   | WHEEL NUT    | HOT ROLLED WIRE RODS |
| 2   | NAME PLATE   | ALUMINUM             |
| 3   | HANDLE WHEEL | ROD CARBON STEEL     |
| 4   | STEM         | BRASS                |
| 5   | PACKING NUT  | BRASS                |
| 6   | PACKING      | GRAPHITE             |
| 7   | BONNET       | BRASS                |
| 8   | BODY         | BRASS                |
| 9   | SEAT PACKING | EPDM                 |
| 10  | SEAT SCREW   | BRASS                |

Specifications: Designed for residential, commercial or industrial use in hydronic heating systems. Threaded ends comply with ANSI B1.20.1.

| ITEM #            | SIZE | CTN/CASE | A     | B     | C      |
|-------------------|------|----------|-------|-------|--------|
| <b>MIP x Hose</b> |      |          |       |       |        |
| 11702             | 1/2" | 12/72    | 1 7/8 | 3 1/8 | 2 1/16 |
| 11703             | 3/4" | 12/144   | 1 7/8 | 3 1/8 | 2 1/16 |
| <b>FIP x Hose</b> |      |          |       |       |        |
| 11707             | 1/2" | 12/72    | 2     | 3     | 2 1/16 |
| 11708             | 3/4" | 12/72    | 2     | 3     | 2 1/16 |

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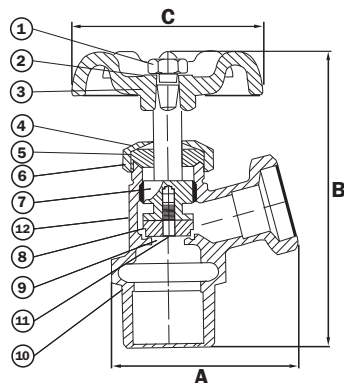
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| Model Specified _____   | Qty _____  | Approved By _____      |
| Designer/Engineer _____ | Date _____ | Contractor's P0# _____ |
| Submitted by _____      | Date _____ | Other _____            |

## Brass Boiler Drains

w/ Stuffing Box

**200 PSI**  
**ISO 9001**

**11704, 11705, 11709, 11712**



| NO. | DESCRIPTION  | MATERIAL             |
|-----|--------------|----------------------|
| 1   | WHEEL NUT    | HOT ROLLED WIRE RODS |
| 2   | NAME PLATE   | ALUMINUM             |
| 3   | HANDLE WHEEL | ROD CARBON STEEL     |
| 4   | STEM         | BRASS                |
| 5   | PACKING NUT  | BRASS                |
| 6   | PACKING      | EPDM                 |
| 7   | BONNET       | BRASS                |
| 8   | PACKING      | EPDM                 |
| 9   | WASHER       | STAINLESS STEEL      |
| 10  | SEAT PACKING | EPDM                 |
| 11  | SEAT SCREW   | BRASS                |
| 12  | BODY         | BRASS                |

Specifications: Designed for residential, commercial or industrial use in hydronic heating systems.  
Threaded ends comply with ANSI B1.20.1.

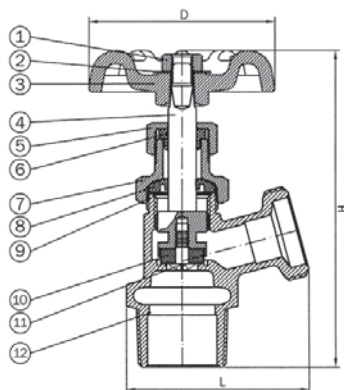
| ITEM #            | SIZE        | CTN/CASE     | A | B     | C      |
|-------------------|-------------|--------------|---|-------|--------|
| <b>MIP x Hose</b> |             |              |   |       |        |
| <b>11704</b>      | <b>1/2"</b> | <b>12/72</b> | 2 | 3 1/8 | 2 1/16 |
| <b>11705</b>      | <b>3/4"</b> | <b>12/72</b> | 2 | 3 1/8 | 2 1/16 |
| <b>FIP x Hose</b> |             |              |   |       |        |
| <b>11709</b>      | <b>1/2"</b> | <b>12/72</b> | 2 | 3     | 2 1/16 |
| <b>11712</b>      | <b>3/4"</b> | <b>12/72</b> | 2 | 3     | 2 1/16 |

## Brass Boiler Drains

(Hi- Flow) w/ Stuffing Box

**200 PSI**  
**ISO 9001**

**11700, 11701**



| NO. | DESCRIPTION  | MATERIAL             |
|-----|--------------|----------------------|
| 1   | WHEEL NUT    | HOT ROLLED WIRE RODS |
| 2   | NAME PLATE   | ALUMINUM             |
| 3   | HANDLE WHEEL | ROD CARBON STEEL     |
| 4   | STEM         | BRASS                |
| 5   | PACKING NUT  | BRASS                |
| 6   | PACKING      | EPDM                 |
| 7   | BONNET       | BRASS                |
| 8   | PACKING      | EPDM                 |
| 9   | WASHER       | STAINLESS STEEL      |
| 10  | SEAT PACKING | EPDM                 |
| 11  | SEAT SCREW   | BRASS                |
| 12  | BODY         | BRASS                |

Specifications: Designed for residential, commercial or industrial use in hydronic heating systems.  
Threaded ends comply with ANSI B1.20.1.

| ITEM #            | SIZE        | CTN/CASE     | A     | B     | C      |
|-------------------|-------------|--------------|-------|-------|--------|
| <b>MIP x Hose</b> |             |              |       |       |        |
| <b>11700</b>      | <b>1/2"</b> | <b>12/72</b> | 1 7/8 | 3 1/2 | 2 1/16 |
| <b>11701</b>      | <b>3/4"</b> | <b>12/72</b> | 1 7/8 | 3 1/2 | 2 1/16 |

### THIS SPACE FOR DESIGNER / ENGINEER APPROVAL

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| 13706HV | 14 | 40673    | 15 | 42404    | 12 | 50414HV  | 10 | 51704SSL | 30 | 58663    | 18 | NBP4-WBN | 7  |
| 20103   | 40 | 40674    | 15 | 42404HV  | 12 | 50414KIT | 14 | 51704SSW | 30 | 58664    | 18 | NBP4-WHN | 7  |
| 21526   | 35 | 40675    | 15 | 42405    | 12 | 50415    | 10 | 51704T   | 30 | 58754-0  | 4  | WH-1R44  | 7  |
| 21532   | 34 | 40676    | 15 | 42405HV  | 12 | 50415HV  | 10 | 51705    | 30 | 58755-0  | 4  | WH-144   | 7  |
| 21533   | 34 | 40677    | 15 | 42406    | 12 | 50415KIT | 14 | 51705SSL | 30 | 58764-0  | 4  | WH-154   | 7  |
| 21534   | 34 | 40702    | 31 | 42406HV  | 12 | 50416    | 10 | 51706    | 30 | 58765-0  | 4  | WH-245   | 7  |
| 21542   | 34 | 40703    | 31 | 43403    | 13 | 50416HV  | 10 | 51706SSL | 30 | 58766-0  | 4  | WH-255   | 7  |
| 21543   | 34 | 40705    | 31 | 43403HV  | 13 | 50417HV  | 10 | 51707    | 30 | 58774-0  | 4  | WH-345   | 7  |
| 21544   | 34 | 40707    | 31 | 43404    | 13 | 50433    | 17 | 51707SSL | 30 | 58775-0  | 4  |          |    |
| 21550   | 36 | 40708    | 31 | 43404HV  | 13 | 50434    | 17 | 51708    | 30 | 58776-0  | 4  |          |    |
| 21551   | 36 | 40710    | 31 | 43405    | 13 | 50435    | 17 | 51709    | 30 | 58854-0  | 5  |          |    |
| 21562   | 34 | 41403    | 9  | 43405HV  | 13 | 50436    | 17 | 51710    | 30 | 58855-0  | 5  |          |    |
| 21563   | 34 | 41404    | 9  | 43406    | 13 | 50443    | 22 | 52403    | 12 | 58864-0  | 5  |          |    |
| 21564   | 34 | 41404HV  | 9  | 43406HV  | 13 | 50443COM | 23 | 52404    | 12 | 58865-0  | 5  |          |    |
| 21571   | 36 | 41405    | 9  | 44043PR  | 25 | 50443PR  | 22 | 52404HV  | 12 | 60443    | 22 |          |    |
| 21572   | 36 | 41405HV  | 9  | 44043PR2 | 25 | 50443PR2 | 22 | 52405    | 12 | 60443PR  | 22 |          |    |
| 22521   | 35 | 41406    | 9  | 44044PR  | 25 | 50612    | 16 | 52405HV  | 12 | 60443PR2 | 22 |          |    |
| 22522   | 35 | 41406HV  | 9  | 44044PR2 | 25 | 50613    | 16 | 52406    | 12 | 74003    | 37 |          |    |
| 22561   | 35 | 41413    | 11 | 44443COM | 23 | 50614    | 16 | 52406HV  | 12 | 74004    | 37 |          |    |

## THE WEB WARRANTY • PRODUCTS BUILT TO LAST A LIFETIME

Webstone Company, Inc. warrants all of its products to be free from manufacturer defects in material and/or workmanship for the life of the product, provided they are professionally installed and operated under normal conditions. Webstone will replace, **FREE OF CHARGE**, any product or part thereof that proves defective in material and/or workmanship under normal installation, use, and service.

**FOR FULL DETAILS CONTACT WEBSTONE COMPANY, INC. (800) 225-9529**

## WEB TRACK SYSTEM SAME DAY SHIPPING AND MORE

All orders placed with Webstone are now processed by our automated Web Track System. Upon receipt of your order, the Web Track System processes it for shipment **THE SAME DAY** (if received by 1:00 PM EST). Upon shipment, Web Track information is transmitted to you via your preference of fax or email. It serves as your invoice and shipping confirmation. This confirmation invoice includes the carrier name, pro or tracking number, quantities shipped, quantities backordered (if any), and your costs. That means:

**NO MORE LONG LEAD TIMES  
FOR ORDER SHIPMENT**

**NO MORE CALLING TO CHECK  
ON YOUR ORDER STATUS**

**NO MORE WONDERING IF IT  
WILL SHIP COMPLETE OR PARTIAL**

And it doesn't stop there, through our website  
[WWW.WEBSTONEVALVES.COM](http://WWW.WEBSTONEVALVES.COM)  
 you can do MUCH MORE!

**PLACE NEW ORDERS**

**FIND PART NUMBERS**

**PRINT SPECIFICATION/SUBMITTAL SHEETS**

**TRACK YOUR SHIPMENT**

**UPDATE ACCOUNT INFORMATION**

**PRINT INVOICES**

**DOWNLOAD CURRENT BROCHURES & CATALOGS**

**AND CONTACT US FOR ANY SPECIAL  
ASSISTANCE YOU MAY NEED!**

## TERMS OF SERVICE

**TERMS OF PAYMENT** 2% 10th of the following month. Cash discount is calculated on the total amount of the invoice before additions for freight. A 1 1/2% per month service charge will be added to any past due balances.

**FREIGHT ALLOWANCE** Prepaid freight on orders of \$1500 net or greater to all contiguous US States & Canada or to the nearest Continental US port for all other locations.

**MINIMUM ORDER** Webstone has no minimum order.

**CLAIMS OF SHORTAGE OR VARIANCE** Claims of any character must be made within 10 days after receipt of goods. Settlements of any claims are at the discretion of Webstone Company, Inc.

**RETURNS** An RMA number must be obtained from our Inside Sales office when goods are returned for credit. An RMA form must accompany the goods returned. Webstone reserves the right to charge a 15% restocking fee on any returned merchandise.

**ORDER CONFIRMATIONS** All orders are subject to acceptance by Webstone Company, Inc. Prices are subject to change without notice.

**STANDARD PACKAGING** Typically, shipments are made in case and carton quantities. However, Webstone will ship any quantities ordered.

**UPC BARCODING** 100% of products will be shipped with barcodes if customer specifies the need.

## Third Party Approvals and Standards Organizations



**The Canadian Standards Association**  
[www.cga.ca](http://www.cga.ca)



**Universal Plumbing Code** Certified by the  
**International Association of Plumbing & Mechanical Officials**  
[www.iapmo.org](http://www.iapmo.org)



**American Society of Sanitary Engineering**  
[www.asse-plumbing.org](http://www.asse-plumbing.org)



**FM Global (Factory Mutual)**  
[www.fmglobal.com](http://www.fmglobal.com)



**Underwriters Laboratory Inc**  
[www.ul.com](http://www.ul.com)

**NSF/ANSI 61** Drinking Water System Components Health Effects - a standard for "chemical contaminants and impurities that are indirectly imparted to drinking water from products, components, and materials used in drinking water systems".

**CleanBrass™** Webstone Brass that contains less than 0.25% surface lead in the wetted areas.

### Note:

Third Party Approval Agencies often can approve products to a wide variety of standards; some of the standards may be under the responsibility of another agency. For example, IAPMO can issue approvals to NSF/ANSI 61 standard, as can UL, CSA, etc.

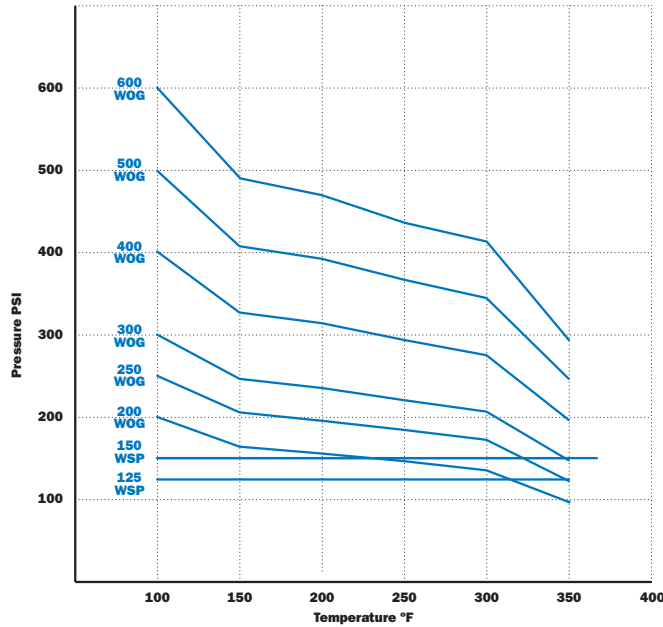
## Pressure Ratings

**WOG: Water, Oil & Gaseous service.** Indicates the maximum pressure of the valve body. Pressure of the valve may be limited by temperature or other features.

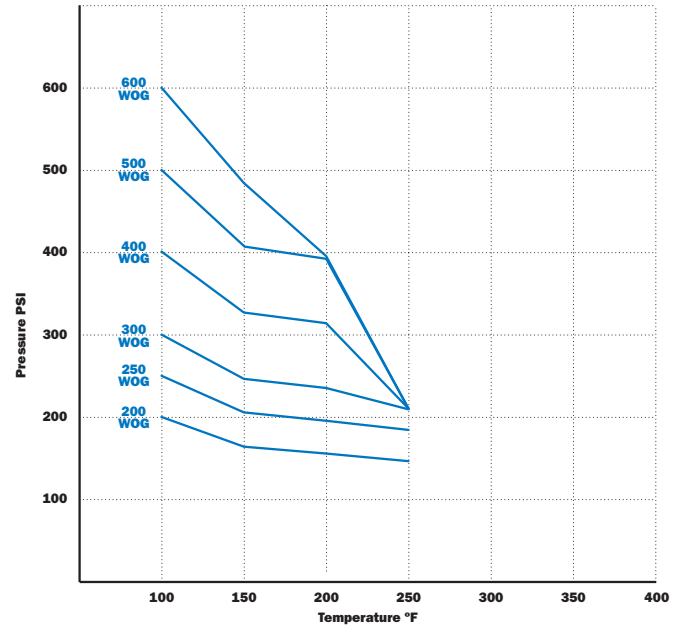
**WSP: Working Steam Pressure.** Indicates the maximum steam pressure of a valve body. This rating is independent from the WOG rating. Typically the WSP rating is lower than the WOG rating.

# PRESSURE AND TEMPERATURE CHARTS

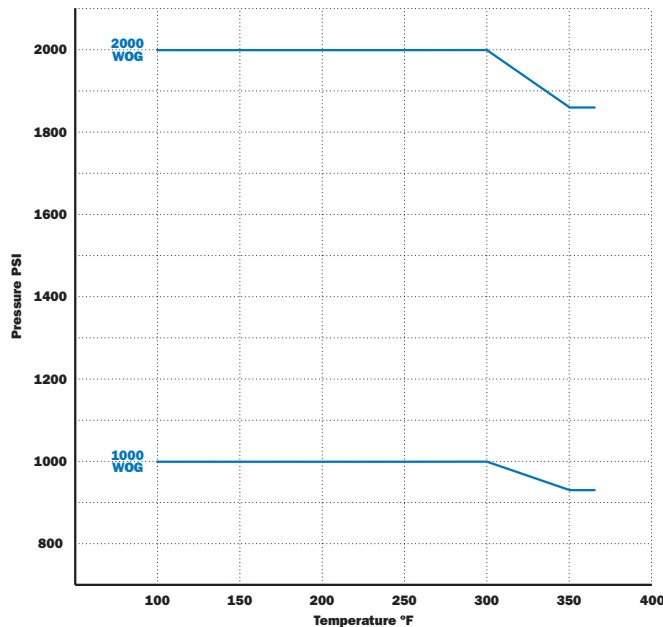
**Forged Brass Ball Valves with PTFE Seats - IPS**



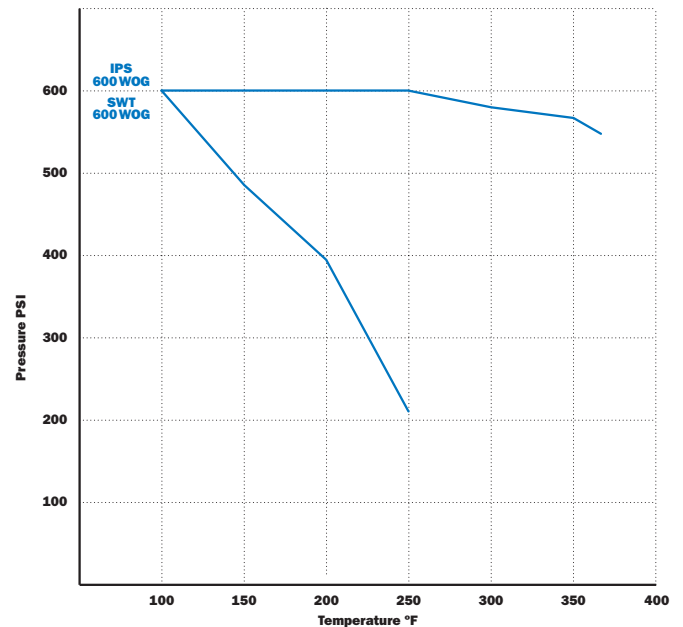
**Forged Brass Ball Valves with PTFE Seats - SWT**



**Cast 316 Stainless Steel Ball Valves with PTFE Seats**



**B62 Bronze with PTFE Seats**



Lower temperature tolerance on SWT products can be attributed to the solder connection. Solder joint temperature ratings provided are per ASME B16.18 Annex A for 95-5 Solder. Other solder materials have lower pressure/temperature limits.



## COPPER BALL VALVE INSTALLATION INSTRUCTIONS:

When a ball valve requires connection to a copper tube, it is important that heat is applied only after the ball is secured in a half open/half closed position. This will allow expansion from the heat applied to exit the ball cavity without seat damage. Apply adequate flux to both the valve and the tube. Apply the torch flame to the copper tube and allow the heat to transfer to the brass valve until the solder flows. Do not apply heat from torch directly on the brass valve. Following this method of installation will prevent excessive heat on the Teflon® seats that could cause leaks, damage to the valve and void all warranties.

**ONE APPIAN WAY WORCESTER, MA 01610**

**P.O. BOX 59 WORCESTER, MA 01613**

**Phone:** (800) 225-9529

**Fax:** (800) 336-5133

**email:** [sales@webstonevalves.com](mailto:sales@webstonevalves.com)

**[www.webstonevalves.com](http://www.webstonevalves.com)**

**DISTRIBUTION FACILITIES  
THROUGHOUT NORTH AMERICA**

# **Webstone**

## ***VALVE INNOVATION***

### **QUALITY AND COMMITMENT SINCE 1954**

Founded in 1954, Webstone is one of the oldest companies of its kind in the United States. We design, manufacture and distribute domestic and imported plumbing products for residential, commercial and industrial use.