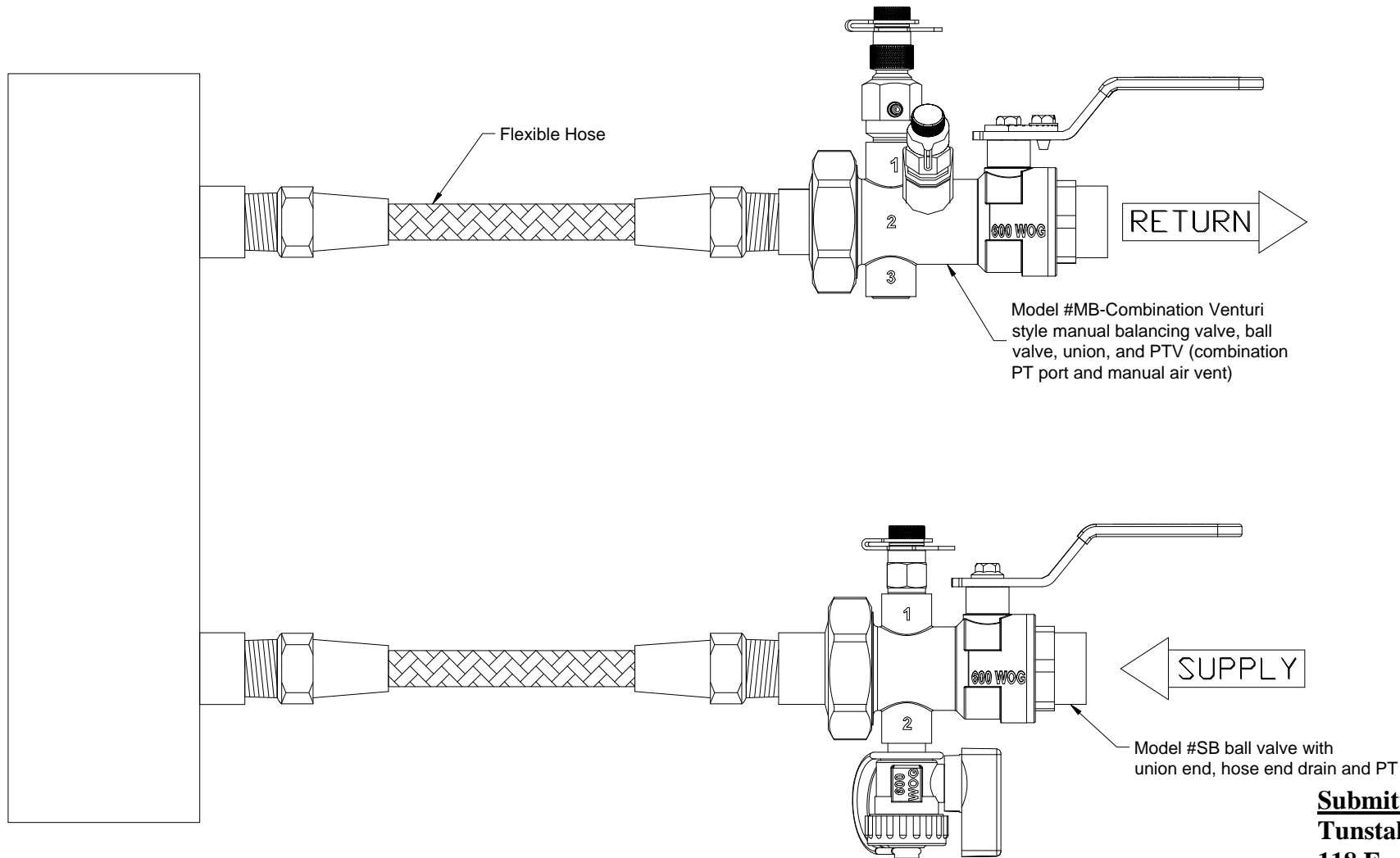


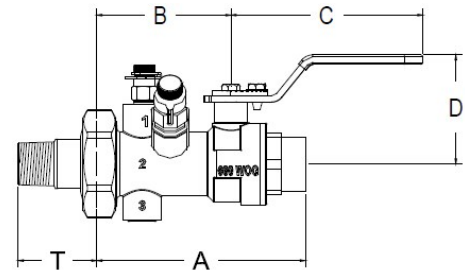
# Valve Package (Model # XXD-MV-FLEX)

Typical For:



**Submitted By:**  
**Tunstall Corporation**  
**118 Exchange Street**  
**Chicopee, MA 01013**  
**Phone: 413-594-8695**  
**Fax: 413-598-8109**

Model MB is a venturi style manual balancing valve with 100% positive shut-off full port plated ball. Permanently installed venturi section, Teflon seats, double o-ring shaft seals, Pressure/Temperature readout ports, adjustable memory stop with position indicator and union end with o-ring seal. Available with multiple combinations of end connection types and sizes.



## SPECIFICATIONS

|                      |  |
|----------------------|--|
| Pressure Ratings:    | 600 PSI (4140 kPa)   |
| Temperature Ratings: | 250°F (121°C)  |
| Accuracy:            | ± 3% of flow rate  |
| Body Material:       | Forged Brass   |
| End Connections:     | Brass - Fixed End: SWT, FNPT & Press End<br>Union End: SWT, FNPT, MNPT & Press End |
| Flow Element:        | Brass Venturi, Permanently installed   |
| Seals:               | EPDM   |
| Seats:               | Teflon   |
| Ball:                | Chrome Plated Brass. <i>Optional 316 Stainless Steel.</i>                          |
| Stem:                | Brass. <i>Optional 316 Stainless Steel.</i>  |
| Handle:              | Full size Zinc Plated lever w/Vinyl Grip   |
| Memory Stop:         | Zinc Plated Steel  |
| Available Options:   | "PTV" combination PT & Air Vent, DV hose end Drain Valve & Extensions.             |



## NOMINAL DIMENSIONS & WEIGHTS

| MODEL                    | SIZE   |    | Flow Range<br>GPM (10"-100")    |          | A              |                | B              | C              | D             | *T<br>SWT     | WEIGHT |      |
|--------------------------|--------|----|---------------------------------|----------|----------------|----------------|----------------|----------------|---------------|---------------|--------|------|
|                          | in     | mm |                                 |          | FNPT           | SWT            |                |                |               |               | lbs    | kg   |
| MB1A-050-L<br>MB1B-050-H | 0.50"  | 15 | (L) 0.4 - 1.3<br>(H) 1.5 - 5.0  | in<br>mm | 4.14<br>105.14 | 4.50<br>114.30 | 2.45<br>62.23  | 2.33<br>59.18  | 1.64<br>41.65 | 1.50<br>38.09 | 1.37   | 0.62 |
| MB1A-075-L<br>MB1B-075-H | 0.75"R | 20 | (L) 0.4 - 1.3<br>(H) 1.5 - 5.0  | in<br>mm | 4.26<br>108.20 | 4.79<br>121.66 | 2.45<br>62.23  | 2.33<br>59.18  | 1.64<br>41.65 | 1.55<br>39.37 | 1.45   | 0.66 |
| MB1A-100-L<br>MB1A-100-H | 1.00"R | 25 | (L) 0.4 - 1.3<br>(H) 1.5 - 5.0  | in<br>mm | 4.59<br>116.58 | 5.04<br>128.01 | 2.45<br>62.23  | 2.33<br>59.18  | 1.64<br>41.65 | 1.75<br>44.45 | 1.52   | 0.69 |
| MB2A-075-L<br>MB2B-075-H | 0.75"  | 20 | (L) 1.6 - 5.0<br>(H) 4.0 - 13.0 | in<br>mm | 4.36<br>110.74 | 4.93<br>125.22 | 2.46<br>62.69  | 3.66<br>92.99  | 2.08<br>52.83 | 1.56<br>39.62 | 1.97   | 0.89 |
| MB2A-100-L<br>MB2B-100-H | 1.00"  | 25 | (L) 1.6 - 5.0<br>(H) 4.0 - 13.0 | in<br>mm | 4.57<br>116.07 | 5.22<br>132.58 | 2.46<br>62.69  | 3.66<br>92.99  | 2.08<br>52.83 | 1.75<br>44.45 | 2.06   | 0.93 |
| MB2A-125-L<br>MB2B-125-H | 1.25"R | 32 | (L) 1.6 - 5.0<br>(H) 4.0 - 13.0 | in<br>mm | 4.75<br>120.64 | 5.30<br>134.61 | 2.46<br>62.69  | 3.66<br>92.99  | 2.08<br>52.83 | 1.80<br>45.72 | 2.25   | 1.02 |
| MB3A-125                 | 1.25"  | 32 | 6.7 - 21.0                      | in<br>mm | 6.51<br>165.35 | 7.49<br>190.24 | 3.48<br>88.39  | 5.03<br>127.76 | 2.26<br>57.40 | 1.80<br>45.72 | 4.16   | 1.89 |
| MB3A-150                 | 1.50"  | 40 | 6.7 - 21.0                      | in<br>mm | 6.51<br>165.35 | 7.76<br>190.24 | 3.48<br>88.39  | 5.03<br>127.76 | 2.26<br>57.40 | 1.80<br>45.72 | 4.23   | 1.92 |
| MB4A-200                 | 2"     | 50 | 15.0 - 50.0                     | in<br>mm | 6.57<br>166.90 | 7.36<br>187.00 | 4.45<br>113.00 | 5.66<br>143.60 | 2.83<br>71.90 | 1.98<br>50.29 | 7.10   | 3.22 |

\* Please reference the tailpiece data sheet #Bulletin-MB-TP for other sizes and connections.

**Dimensions not for construction purposes unless certified by factory.**

## STANDARD COMPONENTS

|   |    |  |
|---|----|--|
|   | PT | Pressure / Temperature test port with brass body, dual durometer EPDM core, brass cap with O-ring seal and neoprene retainer strap. Accepts standard 1/8" (4mm) gauge adapter or thermometer stem. Rated to 500 PSI (3450 kPa) and 275°F (135°C) |
|   | MS | Memory stop with position indicator, zinc coated steel.  |

Please reference data sheet #Bulletin-MB-Accessories for optional accessories.

Optional features and accessories available for this Macon product are an extra charge, and not included in the standard model price.

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Section: Components  
Bulletin-MB-MB-1216.02

## Differential Pressure Table - Model MB - 0.50" to 2.00"

### Model MB Venturi Type Balancing Valve 0.50" - 2.00"

Differential Pressure: Inches W.C.

| Flow<br>GPM | MB1A-           | MB1B-           | MB2A-                   | MB2B-                   | MB3A-      | Flow<br>GPM | MB3A-      | MB4A-  |
|-------------|-----------------|-----------------|-------------------------|-------------------------|------------|-------------|------------|--------|
|             | 050-L<br>075R-L | 050-H<br>075R-H | 075-L<br>100-L<br>125-L | 075-H<br>100-H<br>125-H | 125<br>150 |             | 125<br>150 | 200    |
| 0.10        | 1               |                 |                         |                         |            | 18.00       | 71         | 14     |
| 0.20        | 2               |                 |                         |                         |            | 19.00       | 79         | 15     |
| 0.30        | 5               |                 |                         |                         |            | 20.00       | 87         | 17     |
| 0.42        | 10              | 0.8             |                         |                         |            | 21.00       | 96         | 19     |
| 0.50        | 14              | 1.1             | 1                       |                         |            | 22.00       | 106        | 21     |
| 0.75        | 31              | 2.3             | 2                       |                         |            | 23.00       | 116        | 23     |
| 1.00        | 55              | 4.4             | 4                       |                         |            | 24.00       | 126        | 25     |
| 1.25        | 86              | 6.8             | 6                       |                         |            | 25.00       | 137        | 27     |
| 1.35        | 101             | 7.9             | 7                       | 1                       |            | 26.00       | 148        | 29     |
| 1.50        | 124             | 10              | 9                       | 1.4                     |            | 27.00       | 159        | 31     |
| 2.00        | 221             | 17              | 16                      | 2.5                     |            | 28.00       | 171        | 34     |
| 2.25        |                 | 22              | 21                      | 3                       | 1.1        | 29.00       | 184        | 36     |
| 2.50        |                 | 27              | 25                      | 4                       | 1.4        | 30.00       | 197        | 39     |
| 3.00        |                 | 39              | 36                      | 6                       | 2.0        | 31.00       | 210        | 41     |
| 3.50        |                 | 53              | 50                      | 8                       | 2.7        | 32.00       | 224        | 44     |
| 4.00        |                 | 70              | 65                      | 10                      | 3.5        | 33.00       | 238        | 47     |
| 4.50        |                 | 88              | 82                      | 13                      | 4.4        | 34.00       | 253        | 50     |
| 5.00        |                 | 109             | 101                     | 15                      | 5.5        | 35.00       | 268        | 53     |
| 5.50        |                 | 132             | 123                     | 19                      | 6.6        | 36.00       |            | 56     |
| 6.00        |                 | 157             | 146                     | 22                      | 7.9        | 37.00       |            | 59     |
| 6.50        |                 | 184             | 171                     | 26                      | 9.2        | 39.00       |            | 65     |
| 7.25        |                 | 229             | 213                     | 33                      | 11.5       | 40.00       |            | 69     |
| 7.50        |                 | 245             | 228                     | 35                      | 12.3       | 41.00       |            | 72     |
| 8.00        |                 |                 |                         | 40                      | 14.0       | 42.00       |            | 76     |
| 8.50        |                 |                 |                         | 45                      | 15.8       | 43.00       |            | 79     |
| 9.00        |                 |                 |                         | 50                      | 17.7       | 44.00       |            | 83     |
| 9.50        |                 |                 |                         | 56                      | 19.7       | 45.00       |            | 87     |
| 10.00       |                 |                 |                         | 62                      | 21.9       | 48.50       |            | 101    |
| 10.50       |                 |                 |                         | 68                      | 24.1       | 55.00       |            | 130    |
| 11.00       |                 |                 |                         | 75                      | 26.4       | 60.00       |            | 154    |
| 11.50       |                 |                 |                         | 82                      | 28.9       | 65.00       |            | 181    |
| 12.00       |                 |                 |                         | 89                      | 31.5       | 70.00       |            | 210    |
| 12.50       |                 |                 |                         | 97                      | 34.2       | 75.00       |            | 241    |
| 13.00       |                 |                 |                         | 105                     | 36.9       |             |            |        |
| 14.00       |                 |                 |                         | 121                     | 42.8       |             |            |        |
| 15.00       |                 |                 |                         | 139                     | 49.2       |             |            |        |
| 16.00       |                 |                 |                         | 159                     | 56.0       |             |            |        |
| 17.00       |                 |                 |                         | 179                     | 63.2       |             |            |        |
| FF          | 0.1346          | 0.479           | 0.4967                  | 1.2704                  | 2.139      | FF          | 2.139      | 4.8274 |

#### Flow Formulas

$$\text{GPM} = \text{FF} \times (\sqrt{\text{DP}})$$

$$\text{DP} = (\text{GPM}/\text{FF})^2$$

$$\text{PPL} = \text{DP} \times 0.12$$

#### Notes:

- 1) Accuracy  $\pm$  3% of flow rate.
- 2) Repeatability  $\pm$  0.25% of rate.
- 3) Values in **BOLD** type represents traditional 10" to 100" sizing range.
- 4) All valves will function above and below ranges shown. Pressure drop and readability should be taken into account.

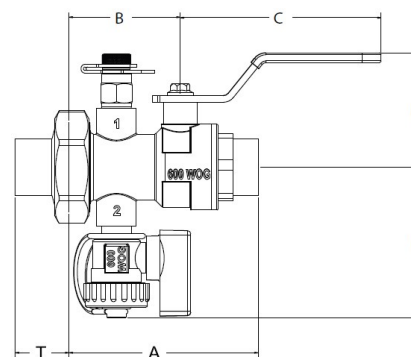
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Model SB Union End Ball Valve offers positive shut-off, pressure/temperature measurement and drain. The ball valve has a chrome plated ball with Teflon seats, blowout proof stem with double EPDM O-ring seals. The union has an EPDM O-ring seal and tailpiece available in MNPT, FNPT, SWT and Press End connections. Standard features include Pressure/Temperature Port and Hose End Drain Valve.





| SPECIFICATIONS       |  |
|----------------------|--|
| Pressure Ratings:    | 600 PSI (4140 kPa)   |
| Temperature Ratings: | 250°F (121°C)  |
| Body Material:       | Forged Brass   |
| End Connections:     | Brass -<br>Fixed End: SWT, FNPT & Press End<br>Union End: SWT, FNPT, MNPT & Press End        |
| Seals:               | EPDM   |
| Ball:                | Chrome Plated Brass, full port, 100% positive shut-off. <i>Optional 316 Stainless Steel.</i> |
| Stem:                | Brass. <i>Optional 316 Stainless Steel.</i>  |
| Handle:              | Full size Zinc Plated lever with Vinyl Grip  |
| Available Options:   | "PTV" combination PT & Air Vent  |

| NOMINAL DIMENSIONS & WEIGHTS |         |    |    |       |       |      |       |      |      |           |        |      |
|------------------------------|---------|----|----|-------|-------|------|-------|------|------|-----------|--------|------|
| MODEL                        | SIZE    |    |    | A     |       | B    | C     | D    | E    | *T<br>MPT | WEIGHT |      |
|                              | in      | mm |    | FNPT  | SWT   |      |       |      |      |           | lbs    | kg   |
| SB1E-050                     | 0.50”   | 15 | in | 3.72  | 4.08  | 2.03 | 3.66  | 1.61 | 2.53 | 1.50      | 1.51   | 0.68 |
|                              |         |    | mm | 94.5  | 103.6 | 51.6 | 93.0  | 40.9 | 64.3 | 38.1      |        |      |
| SB1E-075                     | 0.75” R | 20 | in | 3.84  | 4.37  | 2.03 | 3.66  | 1.61 | 2.53 | 1.50      | 1.55   | 0.70 |
|                              |         |    | mm | 97.5  | 111.0 | 51.6 | 93.0  | 40.9 | 64.3 | 38.1      |        |      |
| SB2E-075                     | 0.75”   | 20 | in | 3.92  | 4.49  | 2.03 | 3.66  | 2.08 | 2.74 | 1.56      | 1.58   | 0.72 |
|                              |         |    | mm | 99.6  | 114.0 | 51.6 | 93.0  | 52.8 | 69.6 | 39.7      |        |      |
| SBBE-100                     | 1.00”   | 25 | in | 4.13  | 4.53  | 2.03 | 3.66  | 2.08 | 2.74 | 1.75      | 2.06   | 0.93 |
|                              |         |    | mm | 105.0 | 115.1 | 51.6 | 93.0  | 52.8 | 69.6 | 44.5      |        |      |
| SB3-125                      | 1.25”   | 32 | in | 5.42  | 6.41  | 2.37 | 5.03  | 2.26 | 3.12 | 1.80      | 4.33   | 1.96 |
|                              |         |    | mm | 137.7 | 162.8 | 60.3 | 127.8 | 57.4 | 79.3 | 45.7      |        |      |
| SB3-150                      | 1.50”   | 40 | in | 5.42  | 6.67  | 2.52 | 5.65  | 2.26 | 3.12 | 1.80      | 4.48   | 2.03 |
|                              |         |    | mm | 137.7 | 169.3 | 64.0 | 143.6 | 57.4 | 79.3 | 45.7      |        |      |
| SB4-200                      | 2.00”   | 50 | in | 5.03  | 5.82  | 2.90 | 5.66  | 2.83 | 3.51 | 1.98      | 6.04   | 2.74 |
|                              |         |    | mm | 127.8 | 148.8 | 73.7 | 143.8 | 71.9 | 89.2 | 50.2      |        |      |

\* Please reference the tailpiece data sheet #Bulletin-MB-TP for other sizes and connections.

**Dimensions not for construction purposes unless certified by factory.**

| STANDARD COMPONENTS   |    |   |
|---|----|---|
|  | PT | Pressure/Temperature test port with brass body, dual durometer EPDM core, threaded brass cap with O-ring seal and neoprene retainer strap. Accepts standard 1/8" (4mm) gauge adapter or thermometer stem. Rated to 500 PSI (3450 kPa) and 275°F (135°C) |
|  | DV | Drain valve with forged brass body, chrome plated ball, Teflon seats, double EPDM O-ring stem seals, aluminum handle, 3/4" hose connection with cap and plastic retainer strap. Rated to 600 PSI (4140 kPa) WOG and 250°F (121°C)                       |

Please reference data sheet #Bulletin-MB-Accessories for optional accessories.

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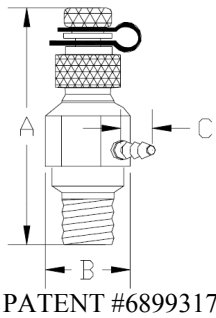


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SHUT OFF  
VALVES

### PTV - PRESSURE / TEMPERATURE VENT

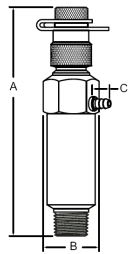
Installed in Port #1 of MB Valve



Combination manual air vent and pressure/temperature test port with brass body, dual durometer EPDM core, blowout-proof stem, side discharge vent with 1/8" (4mm) hose barb, threaded brass cap with O-ring seal and neoprene retainer strap. Accepts standard 1/8" (4mm) gauge adapter or thermometer stem. Rated to 250 PSI (1725 kPa) and 250°F (120°C).

| MODEL   | NPT CONN |    | A    | B    | C    | WRENCH SIZE | WEIGHT |      |
|---------|----------|----|------|------|------|-------------|--------|------|
|         |          |    |      |      |      |             | lbs    | kg   |
| PTV-025 | 1/4"     | in | 1.50 | 0.84 | 0.32 | 3/4"        | 0.154  | 0.07 |
|         |          | mm | 40   | 21   | 9    |             |        |      |
| PTV-050 | 1/2"     | in | 1.50 | 0.98 | 0.32 | 3/4"        | 0.225  | 0.10 |
|         |          | mm | 0.98 | 25   | 9    |             |        |      |

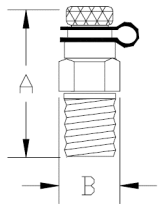
### EPTV - EXTENDED PRESSURE / TEMPERATURE VENT



Extended combination manual air vent and pressure/temperature test port with brass body, dual durometer EPDM core, blowout-proof stem, side discharge vent with 1/8" (4mm) hose barb, threaded brass cap with O-ring seal and neoprene retainer strap. Accepts standard 1/8" (4mm) gauge adapter or thermometer stem. Rated to 250 PSI (1725 kPa) and 250°F (120°C).

| MODEL    | NPT CONN |    | A    | B    | C    | WRENCH SIZE | WEIGHT |      |
|----------|----------|----|------|------|------|-------------|--------|------|
|          |          |    |      |      |      |             | lbs    | kg   |
| EPTV-025 | 1/4"     | in | 3.60 | 0.87 | 0.31 | 3/4"        | 0.28   | 0.12 |
|          |          | mm | 91   | 21   | 8    |             |        |      |

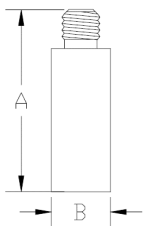
### PT - PRESSURE / TEMPERATURE PORT



Pressure/Temperature test port with brass body, dual durometer EPDM core, brass cap with O-ring seal and neoprene retainer strap. Accepts standard 1/8" (4mm) gauge adapter or thermometer stem. Rated to 500 PSI (3450 kPa) and 275°F (135°C).

| MODEL  | NPT CONN |    | A    | B    | WRENCH SIZE | WEIGHT |      |
|--------|----------|----|------|------|-------------|--------|------|
|        |          |    |      |      |             | lbs    | kg   |
| PT-025 | 1/4"     | in | 1.36 | 0.65 | 9/16"       | 0.06   | 0.03 |
|        |          | mm | 34   | 16   |             |        |      |
| PT-050 | 1/2"     | in | 1.36 | 1.01 | 7/8"        | 0.18   | 0.08 |
|        |          | mm | 34   | 25   |             |        |      |

### PTE - PTV / PT EXTENDER



Single and Dual Extender for PTV and PT models, used on insulated piping systems or where extended length is desired. The PTE is installed above the PTV or PT core with an O-ring seal. The PTE can be installed in the field without removing the PTV or PT from the piping system. Brass body with EPDM O-ring seal. Rated to 500 PSI (3450 kPa) and 250 ° F (120 ° C).

| MODEL       |    | A    | B    | WEIGHT |      |
|-------------|----|------|------|--------|------|
|             |    |      |      | lbs    | kg   |
| PTE-025 One | in | 1.59 | 0.54 | 0.90   | 0.04 |
|             | mm | 41   | 14   |        |      |
| PTE-025 Two | in | 1.59 | 0.54 | 0.90   | 0.04 |
|             | mm | 41   | 14   |        |      |

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Section: Components Bulletin-MB-Accessories-0915.02



These hoses have been specially designed for operating conditions in heating and air conditioning, the elastomer is not sensitive to Glycol or water treatment products.

Each hose is made up of several quality components and the special crimping on the ferrule under strict quality control gives this hose security against any leakage.

The special EPDM core meets a fully defined specification: Shore hardness, resistance to ageing, mechanical resistance (elasticity, tensile fracture, stretching), ability to accept chemical agents in contact with the elastomer and non-toxic. ASTM Fire rated hoses meet 25/50 flammability and smoke development classification requirements of codes and specifications when tested by ASTM E 84 method.

**HOSES ARE DESIGNED FOR HYDRONIC HEATING/COOLING,  
NOT FOR GAS.**

### SPECIFICATIONS



Temperature Ratings:

External Braiding:

Crimping Ferrules:

Core:

End Connections:

Adaptor Connections:

Union Nut:

Tailpiece:

Gasket (1-1/4" & 2"):

All Sizes: 5°F to 230°F

Less than 41°F with use of

Glycol additive

304 Stainless Steel

304 Stainless Steel

EPDM

Brass - CW614N

• 1/2" - 1" MNPT x Male Cone x  
Hose Adaptor

(Gasket Less Connection)

• 1-1/4" - 2" MNPT x BA-U

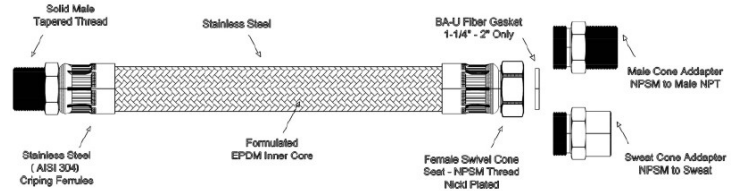
Gasket & Hose Adaptor

Male NPT, Copper SWT

Nickel Plated Brass - CW614N

Brass - CW614N

BA-U Fiber



### Specs for Application and Installation

• ON INSTALLATION : Avoid absolutely any tension due to stretching, twisting or torsion during the course of tightening the connectors.

A. Install and tighten the fixed male connector (if applicable)

B. Install and tighten the union adaptor (if applicable)

C. Install and tighten the swivel nut

• Use two spanners in order to screw in the union: One to hold the hexagon of the adaptor. The other to tighten the nut at the same time.

**IMPORTANT** - Do not re-screw the fixed connector or adaptor after tightening of the swivel nut; this will cause torsion on the flexible hose, with a risk of rapid deterioration. On removal, take the same precautions. If the flexible incorporates two fixed connectors, at least one must be installed on a counter-part fitted with a screw connector.

**\*BEFORE INSTALLING REFER TO THE INSTALLATION & OPERATION INSTRUCTIONS FOR COMPLETE DETAILS. WARNING: FAILURE TO FOLLOW THE INSTALLATION & OPERATION INSTRUCTIONS COULD RESULT IN IMPROPER INSTALLATION.**

### NOMINAL DIMENSIONS

| SIZE       | MODEL # |      |     |        |        |     |
|------------|---------|------|-----|--------|--------|-----|
|            | HCA     | HCB  | HCC | HCD    | HCE    | HCF |
| 12" LENGTH | 1/2"    | 3/4" | 1"  | N/A    | N/A    | N/A |
| 18" LENGTH | 1/2"    | 3/4" | 1"  | 1-1/4" | 1-1/2" | N/A |
| 24" LENGTH | 1/2"    | 3/4" | 1"  | 1-1/4" | 1-1/2" | 2"  |
| 36" LENGTH | 1/2"    | 3/4" | 1"  | 1-1/4" | 1-1/2" | 2"  |

| Cv *       |      |      |      |        |        |       |
|------------|------|------|------|--------|--------|-------|
| SIZE       | 1/2" | 3/4" | 1"   | 1-1/4" | 1-1/2" | 2"    |
| 12" LENGTH | 3.3  | 11.0 | 20.9 | N/A    | N/A    | N/A   |
| 18" LENGTH | 3.2  | 10.7 | 20.3 | 37.9   | 64.4   | N/A   |
| 24" LENGTH | 3.1  | 9.9  | 19.5 | 36.9   | 61.0   | 110.7 |
| 36" LENGTH | 3.0  | 9.3  | 18.2 | 34.7   | 55.0   | 100.8 |

\* Note the Cv factor is the flow rate, in GPM, through the hose at 1 PSID.

### Max. Operating & Burst Pressure Rating

| Size   | Operating (PSI) | Burst (PSI) |
|--------|-----------------|-------------|
| 1/2"   | 375             | 1500        |
| 3/4"   | 300             | 1200        |
| 1"     | 225             | 900         |
| 1-1/4" | 200             | 800         |
| 1-1/2" | 175             | 600         |
| 2"     | 150             | 500         |

### Typical Specifications:

Furnish and install where indicated on plans **Flexible Connectors** as provided by **Macon Balancing**. Hoses shall be temperature rated: 5°F to 230°F. Pressure rated from 375 PSI to 150 PSI based on hose diameter. Constructed specifically for operating conditions in heating and air conditioning with solid brass connectors, stainless steel ferrules, AISI 304 stainless steel braid, and formulated EPDM inner core design to not be sensitive to Glycol or water treatment products. Hoses shall meet 25/50 flammability and smoke development classification requirements of codes and specifications when tested by ASTM E 84 method.

JOB:

REP:

ENGINEER:

CONTRACTOR:

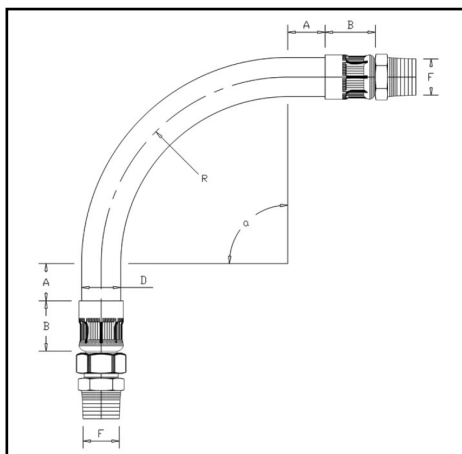
Optional features and accessories available for this Macon product are an extra charge, and not included in the standard model price.

www.maconbalancing.com



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Section: *Components* Bulletin-MB-FH-0915\_2

## Accessories - Model FH



| NOMINAL DIMENSIONS |        |                  |                  |    |    |                   |
|--------------------|--------|------------------|------------------|----|----|-------------------|
| F                  | LENGTH | R <sub>min</sub> | A <sub>min</sub> | B  | D  | CX <sub>max</sub> |
|                    | in     | mm               | mm               | mm | mm |                   |
| 1/2"               | 12"    | 60               | 40               | 23 | 17 | 89°               |
|                    | 18"    | 60               | 40               | 23 | 17 | 180°              |
|                    | 24"    | 60               | 40               | 23 | 17 | 180°              |
|                    | 36"    | 60               | 40               | 23 | 17 | 180°              |
| 3/4"               | 12"    | 80               | 55               | 35 | 26 | 32°               |
|                    | 18"    | 80               | 55               | 35 | 26 | 126°              |
|                    | 24"    | 80               | 55               | 35 | 26 | 180°              |
|                    | 36"    | 80               | 55               | 35 | 26 | 180°              |
| 1"                 | 12"    | 110              | 65               | 35 | 35 | 5°                |
|                    | 18"    | 110              | 65               | 35 | 35 | 75°               |
|                    | 24"    | 110              | 65               | 35 | 35 | 142°              |
|                    | 36"    | 110              | 65               | 35 | 35 | 180°              |
| 1-1/4"             | 18"    | 120              | 100              | 46 | 42 | 30°               |
|                    | 24"    | 120              | 100              | 46 | 42 | 92°               |
|                    | 36"    | 120              | 100              | 46 | 42 | 180°              |
| 1-1/2"             | 18"    | 200              | 140              | 62 | 53 | 5°                |
|                    | 24"    | 200              | 140              | 62 | 53 | 27°               |
|                    | 36"    | 200              | 140              | 62 | 53 | 104°              |
| 2"                 | 24"    | 280              | 230              | 57 | 63 | 5°                |
|                    | 36"    | 280              | 203              | 57 | 63 | 42°               |

**IMPORTANT:** Do not re-tighten the fixed end or adaptor after tightening the swivel nut. This will cause tension or torsion and can result in rapid deterioration.

**INSPECTION:** We recommend a good maintenance practice and periodic inspections, typically when servicing other components at the unit or at the installation site. Check all hoses for small water leaks, residue, or discoloration on the exterior braid and fittings. If a leak is detected, stop service to the unit and replace hose immediately. Do not attempt to repair the hose.

**Caution:** Introduction of chemicals into the system or unit may cause damage of the inner core of the hose. Consult a water treatment specialist for chemical compatibility before using any chemical additives.

**Warning:** Hoses are designed for Hydronic heating and cooling service only; not for gas.