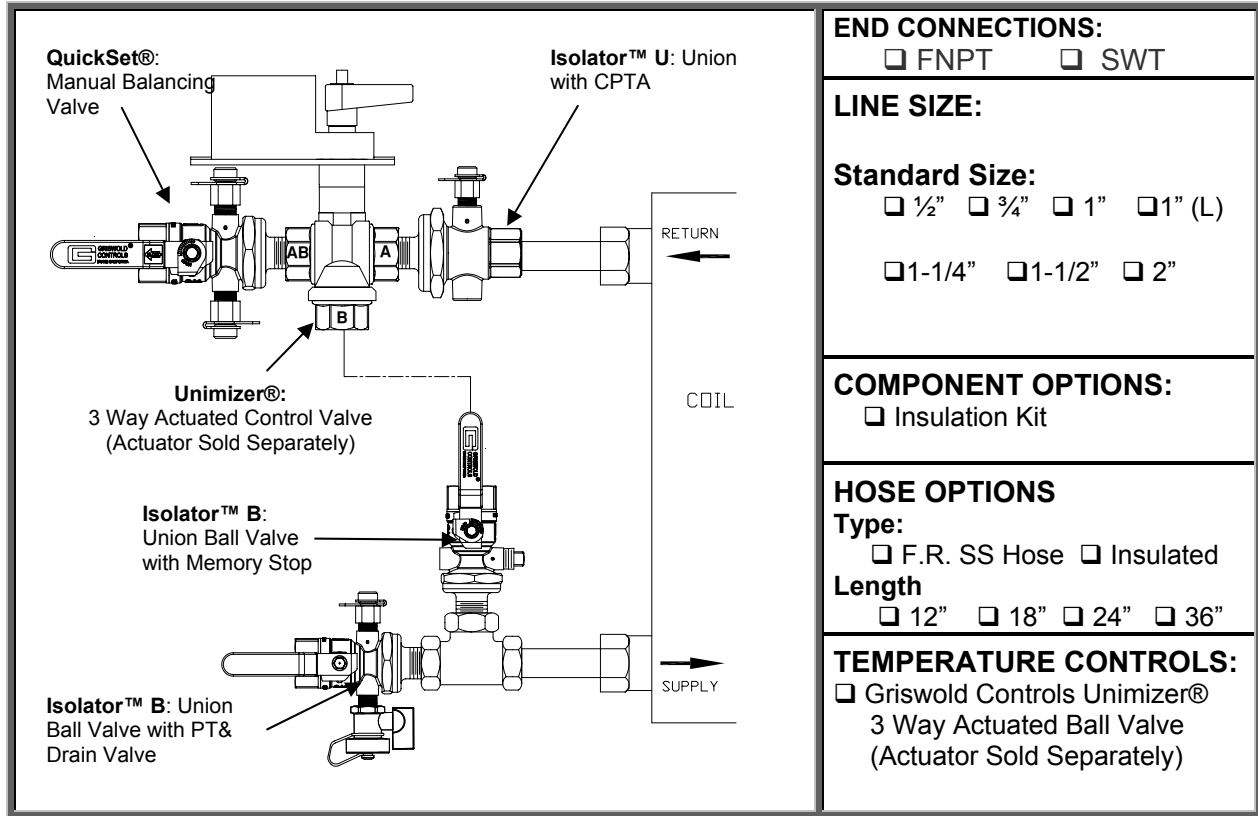


ALL CONNECTIONS ARE LINE SIZE – UNIMIZER® CONNECTIONS ARE LINE SIZE



Specifications

Unimizer® Actuated Ball Valve: Forged brass (ASTM B283) housing. Valve includes three FNPT fixed ends. Housing assembly includes reinforced Teflon, and EPDM o-ring seals, nickel plated ball, and blow out proof brass stem. Assembly also includes Universal Mounting Plate, shaft, and mounting hardware. PSI/Temperature Rating: 360 PSI / -22°F to 250°F. **Note: Actuator is sold separately, either through Griswold Controls or others.**

QuickSet®: Forged brass (ASTM B283) manual balancing valve with brass venturi insert and graduated memory stop. Valve housing includes Teflon seals and Nickel plated full port ball. Valve includes one fixed end (FNPT) connection and one union (MNPT) connection. Union end includes union nut and EPDM o-ring. Valve body has two 1/4" tapped ports with two pressure/temperature test valves. Valve is fully assembled. PSI/Temperature Rating: 400 PSI / 250°F.

Isolator™ B: Forged brass (ASTM B283) union ball valve. Valve housing includes Teflon seals and Nickel plated full port ball. Valve includes one fixed end (FNPT or SWT) connection and one union (FNPT or SWT) connection. Union end includes union nut and EPDM o-ring. Vertically mounted valve body has two 1/4" tapped ports with one combination Pressure/Temperature Test Valve and Manual Air Vent (CPTA) and one Drain Valve. Valves are fully assembled. PSI/Temperature Rating: 400 PSI / 250°F.

Union: Forged brass (ASTM B283) union. Union includes one fixed end (FNPT or SWT) connection and one union (MNPT) connection. Union end includes union nut and EPDM o-ring. Union body has one 1/4" tap with one combination Pressure/Temperature Test Valves & Manual Air Vent (CPTA). PSI/Temperature Rating: 400 PSI / 250°F.

Drain Valve: Rated 275 PSI / 250°F. Brass housing, Nickel plated ball. 3/4" NPSH hose connection.

Pressure/Temperature Test Valve: Rated 1000 PSI / 350°F. Brass Housing, Nordel Seal.

Combination Pressure/Test Valve & Manual Air Vent (CPTA): Pressure/Temperature Test Valve works in conjunction with valve body feature to function as Manual Air Vent. Requires both components to operate.

Brass Tee: Cast brass body with female threaded connections (Small Size Configurations Only – 1/2" & 3/4" for bypass).

CPP-3QIBU PACKAGES

Model Number Selection:

| Size | Model Number- FNPT | Model Number- SWT | Add ATC Size to Model Number |
|------------|--------------------|-------------------|--------------------------------|
| 1/2" | 1E.CPP3QBQS0E | 1E.CPP3QBQS0L | 1/2"=H |
| 3/4" | 1E.CPP3QBQS0F | 1E.CPP3QBQS0M | 1/2"=H, 3/4"=I |
| 3/4" Large | 1E.CPP3QBQS1F | 1E.CPP3QBQS1M | 1/2"=H, 3/4"=I |
| 1" | 1E.CPP3QBQS1G | 1E.CPP3QBQS1N | 1/2"=H, 3/4"=I, 1"=J |
| 1-1/4" | 1E.CPP3QBQS2P | 1E.CPP3QBQS2K | 1/2"=H, 3/4"=I, 1"=J, 1-1/4"=S |
| 1-1/2" | 1E.CPP3QBQS2Q | 1E.CPP3QBQS2W | 1"=J, 1-1/4"=S, 1-1/2"=T |
| 2" | 1E.CPP3QBQS3R | 1E.CPP3QBQS3Y | 1-1/2"=T, 2"=U |

* Some ATC sizes have Cv limitations. 1/2" ATC is not compatible with Cv of 12.2, 21.8, 22.1, 54.7; 3/4" ATC is not compatible with Cv of 21.8, 22.1, 54.7; 1" ATC is not compatible with Cv of 54.7 or 105.2; 1-1/4" ATC is not compatible with Cv of 105.2.

| Unimizer® Size | Unimizer® Model# | Cv's Available |
|----------------|------------------|---|
| 1/2" | UR3A | 0.33, 0.59, 1.0, 2.4, 4.3, 8.0 |
| 3/4" | UR3B | 0.40, 0.66, 1.3, 2.4, 3.8, 11.0 |
| 1" | UR3C | 0.40, 0.65, 1.3, 2.3, 3.5, 4.5, 8.6, 10.0, 14.9, 22.3, 30.8 |
| 1-1/4" | UR3D | 4.1, 8.7, 12.7, 19.4, 26.8, 34.1 |
| 1-1/2" | UR3E | 4.0, 8.3, 13.4, 23.5, 32.0, 61.1 |
| 2" | UR3F | 23.9, 38.2, 56.7, 82.6, 108.5 |

NOTES:

1. Unimizer® connections are line size MNPT.
2. All inlet and outlet connections (including coil) are FNPT or SWT throughout package (no mixing of end connection types).
3. Optional Insulation Kit- includes cap and tube for insulation around handle, and appropriate number of extensions for PT/CPTA included in package.

QuickSet® Flow Rates (+/- 3%)

| OUTLET SIZE | MODEL NO. | FLOW GPM ⁽¹⁾ AT 4 FT/SEC | Cv ⁽²⁾ | GPM RANGE FOR 5"-100" W.C. ΔP (SET W/100" GAUGE) | GPM RANGE FOR 5"-300" W.C. ΔP (SET W/300" GAUGE) |
|-------------|-----------|-------------------------------------|-------------------|--|--|
| 1/2", 3/4" | QS0 | 3.8 | 0.39 | 0.15 – 0.67 | 0.15 – 1.16 |
| | | | 1.1 | 0.3 – 1.4 | 0.3 – 2.4 |
| | | | 2.5 | 0.6 – 2.8 | 0.6 – 4.6 |
| | | | 4.2 | 1.2 – 5.4 | 1.2 – 9.4 |
| 3/4"L | QS1 | 6.7 | 0.9 | 0.3 – 1.4 | 0.3 – 2.5 |
| | | | 1.9 | 0.6 – 2.8 | 0.6 – 4.9 |
| | | | 3.9 | 1.3 – 5.6 | 1.3 – 9.7 |
| | | | 7.0 | 2.6 – 11.5 | 2.6 – 19.9 |
| 1" | QS1 | 10.8 | 1.8 | 0.6 – 2.8 | 0.6 – 5.0 |
| | | | 3.8 | 1.3 – 5.6 | 1.3 – 9.7 |
| | | | 7.6 | 2.6 – 11.5 | 2.6 – 19.9 |
| | | | 12.2 | 3.9 – 17.3 | 3.9 – 30.0 |
| 1-1/4" | QS2 | 18.7 | 10.0 | 3.4 – 15.0 | 3.4 – 26.2 |
| | | | 21.8 | 7.2 – 32.3 | 7.2 – 55.9 |
| 1-1/2" | QS2 | 25.4 | 22.1 | 7.4 – 33.0 | 7.4 – 57.2 |
| | | | 54.7 | 13.9 – 62.0 | 13.9 – 107.4 |
| 2" | QS3 | 41.9 | 105.2 | 21.6 – 96.5 | 21.6 – 167.1 |

NOTES

¹ The generally accepted upper limit as recommended by ASHRAE to prevent pipe noise is 4 ft/sec.

² Cv's are used to calculate the permanent pressure drop. $PSID=(Flow/Cv)^2$. Use the Flow Curve for flow measurement.