



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 field repairable dual Teflon and EPDM o-ring seal stem, with Nickel plated full port ball. Valve includes one fixed end (FNPT or SWT) connection and one union (MNPT) connection. Union end includes union nut and EPDM o-ring. Valve body has two ports with (1) combination Pressure/Temperature Test Valves and manual air vent (CPTA), and (1) Pressure/Temperature Test Valve. Valve is fully assembled. PSI/Temperature Rating: 400 PSI / 250°F.

Isolator™S: Ball valve and integrated strainer. Valve housing is forged brass with field repairable dual Teflon and EPDM o-ring seal stem, with Nickel plated full port ball. Strainer is 20 mesh stainless steel and can be removed from housing without disturbing pipe connections for inspection or replacement. Valve includes one fixed (FNPT or SWT) connection and one union (FNPT or SWT) connection. Union end includes union nut and EPDM o-ring. Body has one port with one combination Pressure/Temperature Test Valves and manual air vent (CPTA). 1/2"L to 1-1/2" body also includes 1/2" NPT bypass port. Assembly includes drain valve with 3/4" hose connection with cap. Valve is 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 port with combination Pressure/Temperature Test Valves and 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 as manual air vent.

Brass Tee (2" only): Cast brass body with FxFxF threaded connections. Tee is line size and not ATC sizeF.

CPP-3QISU PACKAGES

Model Number Selection:

Size	Model Number- FNPT	Model Number- SWT	Add ATC Size to Model Number*
1/2"	1F.CPP3QSQS0E	1F.CPP3QSQS0L	1/2"=H
3/4"	1F.CPP3QSQS0F	1F.CPP3QSQS0M	1/2"=H, 3/4"=I
3/4" Large	1F.CPP3QSQS1F	1F.CPP3QSQS1M	1/2"=H, 3/4"=I
1"	1F.CPP3QSQS1G	1F.CPP3QSQS1N	1/2"=H, 3/4"=I, 1"=J
1-1/4"	1F.CPP3QSQS2P	1F.CPP3QSQS2K	1/2"=H, 3/4"=I, 1"=J, 1-1/4"=S
1-1/2"	1F.CPP3QSQS2Q	1F.CPP3QSQS2W	1"=J, 1-1/4"=S, 1-1/2"=T
2"	1F.CPP3QSQS3R	1F.CPP3QSQS3Y	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:

- Connections to Unimizer are MNPT.
- All inlet and outlet connections (including coil) are FNPT or SWT throughout package (no mixing of end connection types).
- Optional Insulation Kit- includes cap and tube for insulation around handle, and appropriate number of extensions for PT/CPTA included in packageF. Add a "1" to the end of the model number to designate 1-1/2" insulation option and a "2" to the end of the model number to designate 2" insulation option.

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.