

 <p>QuickSet®: Manual Balancing Valve</p> <p>Isolator S: Combination Y-Strainer and Ball Valve with CPTA &amp; Drain Valve</p>	<p><b>END CONNECTIONS:</b></p> <p><input type="checkbox"/> FNPT <input type="checkbox"/> SWT <input type="checkbox"/> ProPress<sup>1</sup> <input type="checkbox"/> FNPT x MNPT</p> <p><b>LINE SIZE:</b></p> <p><input type="checkbox"/> 1/2" - 3/4" <input type="checkbox"/> 3/4"L - 1" <input type="checkbox"/> 1-1/4" - 1-1/2" <input type="checkbox"/> 2"</p> <p><b>BALL &amp; STEM:</b></p> <p><input type="checkbox"/> Nickel-plated brass ball &amp; brass stem <input type="checkbox"/> Stainless Steel ball &amp; stem</p> <p><b>COMPONENT OPTIONS:</b></p> <p><input type="checkbox"/> Extension Kit</p> <p><b>HOSE OPTIONS</b></p> <p><b>Type:</b></p> <p><input type="checkbox"/> F.R. SS Hose <input type="checkbox"/> Insulated</p> <p><b>Length</b></p> <p><input type="checkbox"/> 12" <input type="checkbox"/> 18" <input type="checkbox"/> 24" <input type="checkbox"/> 36"</p> <p><b>TEMPERATURE CONTROLS:</b></p> <p>Not Applicable</p>
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## Specifications

**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. 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 & Manual Air Vent (CPTA). Assembly includes drain valve with 3/4" hose connection with cap. Valve is fully assembled. 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.

## NOTES

<sup>1</sup> ProPress option is MNPT x ProPress adapters.

## CPP-1QIS PACKAGES

## Model Number Selection:

Size	Model Number- FNPT	Model Number- SWT	Model Number- PROGRESS	Model Number- FNPT x MNPT
1/2"	E.CPP1QSQS0E	E.CPP1QSQS0L	E.CPP1QSQS07	E.CPP1QSQS0H
3/4"	E.CPP1QSQS0F	E.CPP1QSQS0M	E.CPP1QSQS08	E.CPP1QSQS0I
3/4" Large	E.CPP1QSQS1F	E.CPP1QSQS1M	E.CPP1QSQS18	E.CPP1QSQS1I
1"	E.CPP1QSQS1G	E.CPP1QSQS1N	E.CPP1QSQS19	E.CPP1QSQS1J
1-1/4"	E.CPP1QSQS2P	E.CPP1QSQS2K	n/a	E.CPP1QSQS2S
1-1/2"	E.CPP1QSQS2Q	E.CPP1QSQS2W	n/a	E.CPP1QSQS2T
2"	E.CPP1QSQS3R	E.CPP1QSQS3Y	n/a	E.CPP1QSQS3U

**NOTES:**

1. All inlet and outlet connections (including coil) are FNPT or SWT throughout package (no mixing of end connection types).
2. Optional Extension Kit- includes cap and tube for insulation around handle, and appropriate number of extensions for PT/CPTA included in package. 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.
3. Standard CPPs include nickel-plated brass ball and brass stem. For optional stainless steel ball and stem change "CPP" to "CPS" in model number.

## QuickSet Flow Rates (+/- 3%)

OUTLET SIZE	MODEL NO.	FLOW GPM <sup>(2)</sup> AT 4 FT/SEC	Cv <sup>(3)</sup>	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 <sup>4</sup>	13.9 – 62.0	13.9 – 107.4
2"	QS3	41.9	105.2 <sup>4</sup>	21.6 – 96.5	21.6 – 167.1

**NOTES**

<sup>2</sup> The generally accepted upper limit as recommended by ASHRAE to prevent pipe noise is 4 ft/sec.

<sup>3</sup> Cv's are used to calculate the permanent pressure drop.  $PSID = (\text{Flow}/Cv)^2$ . Use the Flow Curve for flow measurement.