

<p>QuickSet®: Manual Balance Valve</p> <p>Isolator S: Combination Y-Strainer and Ball Valve with CPTA &amp; Drain Valve</p> <p>RETURN</p> <p>COIL</p> <p>SUPPLY</p>	<b>END CONNECTIONS:</b> <input type="checkbox"/> FNPT <input type="checkbox"/> SWT <input type="checkbox"/> QuickPress <sup>1</sup> <input type="checkbox"/> FNPT x MNPT
	<b>LINE SIZE:</b> <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"
	<b>BALL &amp; STEM:</b> <input type="checkbox"/> Nickel-plated brass ball & brass stem <input type="checkbox"/> Stainless Steel ball & stem
	<b>COMPONENT OPTIONS:</b> <input type="checkbox"/> Extension Kit
	<b>HOSE OPTIONS</b> <b>Type:</b> <input type="checkbox"/> F.R. SS Hose <input type="checkbox"/> Insulated <b>Length</b> <input type="checkbox"/> 12" <input type="checkbox"/> 18" <input type="checkbox"/> 24" <input type="checkbox"/> 36"
<b>CONTROL VALVE (CV):</b>  Not Applicable	

### Specifications

**QuickSet:** Forged brass (ASTM B283) manual balance 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: 600 WOG 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: 600 WOG 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> QuickPress is available on 1/2" to 1" valves. Connections are compatible with popular press tools and are rated for maximum 200 PSI.

## CPP-1QIS PACKAGES

## Model Number Selection:

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

**NOTES:**

- 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" extension option and a "2" to the end of the model number to designate 2" extension option.<sup>2</sup>
- 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>(3)</sup> AT 4 FT/SEC	Cv <sup>(4)</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	13.9 – 62.0	13.9 – 107.4
2"	QS3	41.9	65.2 <sup>5</sup>	21.6 – 96.5	21.6 – 167.1
			105.2	21.6 – 96.5	21.6 – 167.1

**NOTES**

<sup>2</sup> Extension Option includes handle cover and accessory extensions for either 1-1/2" or 2" insulation.

<sup>3</sup> The generally accepted upper limit as recommended by ASHRAE to prevent pipe noise is 4 ft/sec.

<sup>4</sup> Cv's are used to calculate the permanent pressure drop.  $PSID = (\text{Flow}/Cv)^2$ . Use the Flow Curve for flow measurement.

<sup>5</sup> 65.2 Cv includes an optimizer insert in the ball.