

Isolator U: Union with CPTA (Optional CPTA and Coin-Op Airvent or CPTA and Drain Valve)

Control Valve (CV): Supplied By Others

QuickSet®: Manual Balance Valve

Isolator S: Combination Y-Strainer and Ball Valve with CPTA & Drain Valve

END CONNECTIONS:

- FNPT SWT QuickPress¹
- FNPT (Line) & SWT (Coil)
- SWT (Line) & FNPT (Coil)

LINE SIZE:

- 1/2" - 3/4"
- 3/4"L - 1"
- 1-1/4" - 1-1/2"
- 2"

BALL & STEM:

- Nickel-plated brass ball & brass stem
- Stainless Steel ball & stem

COMPONENT OPTIONS:

- Extension Kit

HOSE OPTIONS (FNPT COIL)

Swivel Type:

- MNPT SWT

Length:

- 12" 18" 24" 36"

CONTROL VALVE (CV):

- Customer Supplied and Installed CV
- Customer Supplied CV- Installed By Griswold Controls

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. Includes 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 Valve 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 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: 600 WOG 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 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 as manual air vent.

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

NOTES

¹ QuickPress is available on 1/2" to 1" valves. Connections are compatible with popular press tools and are rated for maximum 200 PSI.

MODEL NUMBER SELECTION

Size	Model Number- FNPT	Model Number- SWT	Model Number- QUICKPRESS	Model Number- (Line: FNPT; Coil: SWT)	Model Number- (Line: SWT; Coil: FNPT)	Add ATC Size to Model Number*
1/2"	CPP3QSQS0E	CPP3QSQS0L	CPP3QSQS07	CPP3QSQS01	CPP3QSQS01Z	1/2"=H
3/4"	CPP3QSQS0F	CPP3QSQS0M	CPP3QSQS08	CPP3QSQS02	CPP3QSQS02Z	1/2"=H, 3/4"=I
3/4" L	CPP3QSQS1F	CPP3QSQS1M	CPP3QSQS18	CPP3QSQS12	CPP3QSQS12Z	1/2"=H, 3/4"=I
1"	CPP3QSQS1G	CPP3QSQS1N	CPP3QSQS19	CPP3QSQS13	CPP3QSQS13Z	1/2"=H, 3/4"=I, 1"=J
1-1/4"	CPP3QSQS2P	CPP3QSQS2K	n/a	CPP3QSQS24	CPP3QSQS24Z	1/2"=H, 3/4"=I, 1"=J, 1-1/4"=S
1-1/2"	CPP3QSQS2Q	CPP3QSQS2W	n/a	CPP3QSQS25	CPP3QSQS25Z	1"=J, 1-1/4"=S, 1-1/2"=T
2"	CPP3QSQS3R	CPP3QSQS3Y	n/a	CPP3QSQS36	CPP3QSQS36Z	1-1/2"=T, 2"=U

* Some Control Valve sizes have QuickSet Cv limitations. 1/2" Control Valve may not be compatible with Cv of 12.2, 21.8, 22.1, 54.7; 3/4" Control Valve may not be compatible with Cv of 21.8, 22.1, 54.7; 1" Control Valve may not be compatible with Cv of 54.7 or 105.2; 1-1/4" Control Valve may not be compatible with Cv of 105.2.

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.²
- Standard CPPs include nickel-plated brass ball and brass stem. For optional stainless steel ball and stem change "CPP" to "CPS" in model number.

FLOW RATES (+/-1%³)

OUTLET SIZE	QUICKSET MODEL NO.	FLOW GPM ⁽⁴⁾ AT 4 FT/SEC	Cv ⁽⁵⁾	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 ⁶	21.6 – 96.5	21.6 – 167.1
			105.2	21.6 – 96.5	21.6 – 167.1

NOTES

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

³ Accuracy is for venturi portion of valve only. Pressure readability is dependent on accuracy of gauge and system pressure stability.

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

⁵ Cv's are used to calculate the permanent pressure drop. $PSID=(Flow/Cv)^2$. Use the Flow Curve for flow measurement.

⁶ 65.2 Cv includes an optimizer insert in the ball.