

 <p>QuickSet®: Manual Balance Valve</p> <p>Select Supply Side Valve: Isolator B: Union Ball Valve with CPTA & Drain Valve Isolator S: Combination Y-Strainer & Ball Valve with CPTA & Drain Valve (Optional 2nd CPTA)</p>	<p>LINE TYPE:</p> <input type="checkbox"/> FNPT <input type="checkbox"/> SWT <input type="checkbox"/> QuickPress ¹	<p>COIL TYPE:</p> <input type="checkbox"/> FNPT <input type="checkbox"/> SWT <input type="checkbox"/> MNPT <input type="checkbox"/> QuickPress ¹
	<p>LINE SIZE:</p> <input type="checkbox"/> 1/2" <input type="checkbox"/> 3/4" <input type="checkbox"/> 1" <input type="checkbox"/> 1-1/4" <input type="checkbox"/> 1-1/2" <input type="checkbox"/> 2"	<p>COIL SIZE:</p> <input type="checkbox"/> 1/2" <input type="checkbox"/> 3/4" <input type="checkbox"/> 1" <input type="checkbox"/> 1-1/4" <input type="checkbox"/> 1-1/2" <input type="checkbox"/> 2"
	<p>BALL & STEM:</p> <input type="checkbox"/> Nickel-plated brass ball & brass stem <input type="checkbox"/> Stainless Steel ball & stem	
	<p>COMPONENT OPTIONS:</p> <input type="checkbox"/> 1-1/2" Ext Kit <input type="checkbox"/> 2" Ext Kit <input type="checkbox"/> Strainer 20 Mesh <input type="checkbox"/> Strainer 50 Mesh <input type="checkbox"/> Isolator S 2 nd CPTA <input type="checkbox"/> Isolator B in lieu IS	
<p>HOSE OPTIONS (FNPT COIL): Swivel Type: <input type="checkbox"/> MNPT <input type="checkbox"/> SWT Length: <input type="checkbox"/> 12" <input type="checkbox"/> 18" <input type="checkbox"/> 24" <input type="checkbox"/> 36"</p>		

SPECIFICATIONS

QuickSet®: Forged brass manual balance valve with brass venturi insert and graduated memory stop. Valve housing includes field repairable dual Teflon and EPDM o-ring seal stem. 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. PSI/Temp Rating: 600WOG-400PSI/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 Stainless Steel and can be removed from housing without disturbing pipe connections for inspection or replacement. Valve includes one fixed connection and one union connection. Union end includes union nut and EPDM o-ring. Body has one port with combination Pressure/Temperature Test Valves (CPTA). Assembly includes drain valve with 3/4" hose connection with cap. PSI/Temp Rating: 600WOG-400PSI/250°F

Isolator B: Forged brass union ball valve. Valve housing includes field repairable dual Teflon and EPDM o-ring seal stem. 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. Valve body has two ports with one combination Pressure/Temperature Test Valve and Manual Air Vent (CPTA), and one Drain Valve. PSI/Temp Rating: 600WOG-400PSI/250°F.

Drain Valve: Brass housing, Nickel plated ball. 1/2"-1":1/2"UNFx3/4"NPSH. 1-1/4"-2":3/4"UNFx3/4" NPSH. Rated 300PSI/250°F

Combination Pressure/Test Valve & Manual Air Vent (CPTA): Brass Housing, EPDM Seal. Rated 1000PSI/350°F 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

¹ QuickPress connections are compatible with popular press tools and are rated for maximum 200 PSI.

MODEL NUMBER SELECTION

Size	Model Number- FNPT Line	Model Number- SWT Line	Model Number- PRESS Line	Select Coil Size & Type ² for Model Number
1/2"	CP1Q0_E_X_0	CP1Q0_L_X_0	CP1Q0_2_X_0	FNPT:(E=1/2,F=3/4) MNPT:(H=1/2, I=3/4) SWT: (K=3/8",L=1/2,M=3/4) PRESS:(2=1/2,3=3/4)
3/4"	CP1Q0_F_X_0	CP1Q0_M_X_0	CP1Q0_3_X_0	
3/4"L	CP1Q1_F_X_0	CP1Q1_M_X_0	CP1Q1_3_X_0	FNPT:(E=1/2,F=3/4,G=1) MNPT:(H=1/2,I=3/4,J=1) SWT:(L=1/2,M=3/4,N=1) PRESS:(2=1/2,3=3/4,1=1)
1"	CP1Q1_G_X_0	CP1Q1_N_X_0	CP1Q1_1_X_0	
1-1/4"	CP1Q2_P_X_0	CP1Q2_K_X_0	CP1Q2_4_X_0	FNPT:(G=1,P=1-1/4,Q=1-1/2) MNPT:(J=1, S=1-1/4,T=1-1/2) SWT:(N=1,K=1-1/4,W=1-1/2) PRESS:(1=1, 4=1-1/4, 5=1-1/2)
1-1/2"	CP1Q2_Q_X_0	CP1Q2_W_X_0	CP1Q2_5_X_0	
2"	CP1Q3_R_X_0	CP1Q3_Y_X_0	CP1Q3_6_X_0	FNPT:(P=1-1/4,Q=1-1/2,R=2) MNPT:(S=1-1/4, T=1-1/2,U=2) SWT:(K=1-1/4,W=1-1/2,Y=2) PRESS:(4=1-1/4, 5=1-1/2, 6=2)

NOTES:

- Standard CPPs include nickel-plated brass ball and brass stem. For optional Stainless Steel ball and stem change "CP" to "CS" in model number.
- Insert Venturi Cv letter Code in 6th digit from flow table.
- Insert Coil Size & Type in 8th digit.
- Insert Supply Side Product Code in 10th digit: **Isolator S** ("B"=(1) CPTA/DV, 20 mesh screen, "D"=(2) CPTAs & (1) DV, 20 mesh screen, "G"=(1) CPTA/DV, 50 mesh screen, "J"=(2) CPTAs & (1) DV, 50 mesh screen) or **Isolator B** ("V"=(1) CPTA/DV)
- Optional Extension Kit- includes cap and tube for insulation around handle and appropriate number of extensions for PT/CPTA included in package. Change "0" to "1" for 1-1/2" extension option or "2" for 2" extension option.³

FLOW RATES (+/-1%⁴)

OUTLET SIZE	QUICKSET MODEL NO.	FLOW GPM ⁽⁵⁾ AT 4 FT/SEC	Cv ⁽⁶⁾	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	A=0.39	0.15 – 0.67	0.15 – 1.16
			B=1.1	0.3 – 1.4	0.3 – 2.4
			C=2.5	0.6 – 2.8	0.6 – 4.6
			D=4.2	1.2 – 5.4	1.2 – 9.4
3/4"L	QS1	6.7	B=0.9	0.3 – 1.4	0.3 – 2.5
			C=1.9	0.6 – 2.8	0.6 – 4.9
			D=3.9	1.3 – 5.6	1.3 – 9.7
			E=7.0	2.6 – 11.5	2.6 – 19.9
1"	QS1	10.8	C=1.8	0.6 – 2.8	0.6 – 5.0
			D=3.8	1.3 – 5.6	1.3 – 9.7
			F=7.6	2.6 – 11.5	2.6 – 19.9
			G=12.2	3.9 – 17.3	3.9 – 30.0
1-1/4"	QS2	18.7	H=10.0	3.4 – 15.0	3.4 – 26.2
			I=21.8	7.2 – 32.3	7.2 – 55.9
1-1/2"	QS2	25.4	J=22.1	7.4 – 33.0	7.4 – 57.2
			N=54.7	13.9 – 62.0	13.9 – 107.4
2"	QS3	41.9	M=65.2 ⁷	21.6 – 96.5	21.6 – 167.1
			P=105.2	21.6 – 96.5	21.6 – 167.1

NOTES

² Coil Type must be FNPT if hoses are required.

³ Extension Option includes handle cover and accessory extensions for either 1-1/2" or 2" Insulation.

⁴ Accuracy is for venturi portion of valve only. Pressure readability is dependent on accuracy of gauge and system pressure stability.

⁵ The generally accepted upper limit as recommended by ASHRAE to prevent pipe noise is 4 ft/sec.

⁶ Cv's are used to calculate the permanent pressure drop. $PSID=(Flow/Cv)^2$. Use the Flow Curve for flow measurement.

⁷ 65.2 Cv includes an optimizer insert in the ball.