

Unimizer®: 3 Way Actuated Control Valve
(Optional Actuator) Supplied By Others

QuickSet®: Manual Balance Valve

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

Select Optional Bypass Valve:
Isolator B: Union Ball Valve with Memory Stop

QuickSet®: Manual Balance Valve

Select Supply Side Valve:
Isolator B: Union Ball Valve with CPTA & Drain Valve

Isolator S: Combination Y-Strainer and Ball Valve with CPTA & Drain Valve (Optional 2nd CPTA &/OR Tee)

LINE TYPE:		COIL TYPE:	
<input type="checkbox"/> FNPT <input type="checkbox"/> SWT <input type="checkbox"/> QuickPress ¹		<input type="checkbox"/> FNPT <input type="checkbox"/> SWT <input type="checkbox"/> MNPT <input type="checkbox"/> QuickPress ¹	
LINE SIZE:	COIL SIZE:	UNMR SIZE:	
<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"	<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"	<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"	
BALL & STEM:			
<input type="checkbox"/> Nickel-plated brass ball & brass stem <input type="checkbox"/> Stainless Steel ball & stem			
COMPONENT OPTIONS:			
<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"/> Union Coin-Op&CPTA <input type="checkbox"/> Union CPTA&DV <input type="checkbox"/> Isolator S 2 nd CPTA <input type="checkbox"/> Isolator B in lieu IS <input type="checkbox"/> Bypass Isolator B <input type="checkbox"/> Bypass QuickSet			
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"			

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 / -4°F to 250°F.

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. Optional built-in 1/2" Bypass port available. 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.

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: 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.

Brass Tee: Standard when Isolator B is used on supply side or when optional tee is selected for Isolator S. Tee is line size.

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 for Model Number	Select Unimizer Size for Model Number
1/2"	CP3Q0_E__0_U	CP3Q0_L__0_U	CP3Q0_2__0_U	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)	MNPT:(H=1/2)
3/4"	CP3Q0_F__0_U	CP3Q0_M__0_U	CP3Q0_3__0_U		MNPT:(1/2=H,I=3/4)
3/4"L	CP3Q1_F__0_U	CP3Q1_M__0_U	CP3Q1_3__0_U	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)	MNPT:(1/2=H,I=3/4)
1"	CP3Q1_G__0_U	CP3Q1_N__0_U	CP3Q1_1__0_U		MNPT:(1/2=H,I=3/4,J=1)
1-1/4"	CP3Q2_P__0_U	CP3Q2_K__0_U	CP3Q2_4__0_U	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)	MNPT:(1/2=H,I=3/4,J=1,S=1-1/4)
1-1/2"	CP3Q2_Q__0_U	CP3Q2_W__0_U	CP3Q2_5__0_U		MNPT:(J=1,S=1-1/4,T=1-1/2)
2"	CP3Q3_R__0_U	CP3Q3_Y__0_U	CP3Q3_6__0_U	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)	MNPT:(T=1-1/2,U=2)

Some Control Valve sizes have QuickSet Cv limits. 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:

- 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 Control Valve (CV) Size in 9th digit.
- Insert Supply Side Product Code: **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.²
- Insert Bypass Option: **Line Size Isolator S with 1/2" Bypass:** A=Line Size QuickSet, C=Line Size IB, E=No Bypass Valve or **Line Size Tee:** B=Line Size QuickSet, D=Line Size IB, F=No Bypass Valve

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

FLOW RATES (+/-1%³)

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

NOTES

- Extension Option includes handle cover and accessory extensions for either 1-1/2" or 2" Insulation.
- Accuracy is for venturi portion of valve only. Pressure readability is dependent on accuracy of gauge and system pressure stability.
- Cv's are used to calculate the permanent pressure drop. $PSID=(Flow/Cv)^2$. Use the Flow Curve for flow measurement.
- 65.2 Cv includes an optimizer insert in the ball.

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