



**Isolator R:** Automatic Flow Limiting Valve

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

**Unimizer®:** 3 Way Actuated Control Valve (Actuator Sold Separately) Unimizer

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

<b>LINE TYPE:</b> <input type="checkbox"/> FNPT <input type="checkbox"/> SWT <input type="checkbox"/> QuickPress <sup>1</sup>		<b>COIL TYPE:</b> <input type="checkbox"/> FNPT <input type="checkbox"/> SWT <input type="checkbox"/> MNPT <input type="checkbox"/> QuickPress <sup>1</sup>	
<b>LINE SIZE:</b> <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"	<b>COIL SIZE:</b> <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"	<b>UNIMIZER SIZE:</b> <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"	
<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"/> 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 <sup>nd</sup> CPTA <input type="checkbox"/> Union Coin-Op			
<b>HOSE OPTIONS (FNPT COIL):</b> <b>Swivel Type:</b> <input type="checkbox"/> MNPT <input type="checkbox"/> SWT <b>Length:</b> <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 two 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.

**Isolator R:** Forged brass (ASTM B283) automatic flow control valve assembly includes integrated isolation ball valve and stainless steel flow control cartridge. Cartridge can be removed for inspection, or can be replaced without disturbing piping connections. Valve housing includes field repairable dual Teflon and EPDM o-ring seal stem, with Nickel plated ball. Valve includes one fixed end connection and one union connection. Union end includes union nut and EPDM o-ring. Valve body has two ports with (1) Pressure/Temperature Test Valves, and (1) combination Pressure/Temperature Test Valves and manual air vent (CPTA). PSI/Temp Rating: 1/2"–1-1/2": 600WOG-400PSI/250°F. 1-1/2"L–3": 400WOG-275PSI/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 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: 1/2"–1-1/2": 600WOG-400PSI/250°F. 1-1/2"L–3": 400WOG-275PSI/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/Temp Rating: 400PSI/250°F

**Drain Valve:** Brass housing, Nickel plated ball. 1/2"-1": 1/2"UNF x 3/4"NPSH. 1-1/4"-2": 3/4"UNF x 3/4"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:** Optional except std on 1-1/2"L to 2". Cast bronze body with FNPT connections. Tee is line size.

## NOTES

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

## MODEL NUMBER SELECTION (R.)

Size	Model Number- FNPT Line	Model Number- SWT Line	Model Number- PRESS Line	Select Coil Size & Type <sup>2</sup> for Model Number	Select Unimizer Size for Model Number
1/2"	CP3R0_E__B0	CP3R0_L__B0	CP3R0_2__B0	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"	CP3R0_F__B0	CP3R0_M__B0	CP3R0_3__B0		MNPT:(1/2=H,I=3/4)
1/2"L	CP3R1_E__B0	CP3R1_L__B0	CP3R1_2__B0	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:(H=1/2)
3/4"L	CP3R1_F__B0	CP3R1_M__B0	CP3R1_3__B0		MNPT:(1/2=H,I=3/4)
1"	CP3R1_G__B0	CP3R1_N__B0	CP3R1_1__B0	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)
1"L	CP3R2_G__B0	CP3R2_N__B0	CP3R2_1__B0		MNPT:(1/2=H,I=3/4,J=1)
1-1/4"	CP3R2_P__B0	CP3R2_K__B0	CP3R2_4__B0	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:(1/2=H,I=3/4,J=1,S=1-1/4)
1-1/2"	CP3R2_Q__B0	CP3R2_W__B0	CP3R2_5__B0		MNPT:(1/2=H,I=3/4,J=1,S=1-1/4,T=1-1/2)
1-1/2"L	CP3R3_Q__B0	CP3R3_W__B0	CP3R3_5__B0	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:(S=1-1/4,T=1-1/2)
2"	CP3R3_R__B0	CP3R3_Y__B0	CP3R3_6__B0		MNPT:(S=1-1/4,T=1-1/2,U=2)

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, 7.0, 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

## 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 PSID Code in 6<sup>th</sup> digit. Insert "0" for No-Cartridge option.
- Insert Coil Size & Type in 8<sup>th</sup> digit.
- Insert Control Valve (CV) Size in 9<sup>th</sup> digit.
- Standard CPPs include (1) CPTA in Isolator S with 20 mesh strainer. For optional 2<sup>nd</sup> CPTA change "B" to "D" (20 mesh) or "G" (1 CPTA – 50 mesh) or "J" (2 CPTA – 50 mesh). Isolator S with 2<sup>nd</sup> CPTA includes a Bypass Tee.
- 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.<sup>3</sup>
- If Control Valve (CV) is installed at the factory by Griswold Controls add an "A" to end of model number.

## FLOW RATES (+/-5%)

SIZE	IR MODEL NO. FOR REFERENCE	HEAD LOSS IN FEET <sup>4</sup>	PSID RANGE <sup>5</sup>	GPM
1/2", 3/4"	IR02	7.4	2-32	0.25, 0.33, 0.50, 0.60, 0.75, 0.85, 1.00, 1.25, 1.50, 2.00, 2.50, 3.00
	IR04	13.4	4-57	0.50, 1.00, 1.50, 2.00, 2.50, 3.00
1/2"L, 3/4", 1"	IR11	3.5	1-14	0.33, 0.50, 0.67, 1.00, 1.33, 1.67, 2.00, 2.33, 2.67, 3.33, 4.00, 4.67, 5.00
	IR12	7.4	2-32	0.55, 0.75, 1.00, 1.25, 1.50, 1.75, 2.00, 2.25, 2.50, 2.75, 3.00, 3.50, 4.0, 5.0, 6.0, 7.0, 8.0
	IR14	13.4	4-57	0.75, 1.00, 1.33, 2.00, 2.67, 3.33, 4.00, 4.67, 5.33, 6.67, 8.00, 9.33, 10.00, 11.00
	IR18	30.0	8-128	1.10, 1.50, 2.00, 3.00, 4.00, 5.00, 6.00, 7.00, 8.00, 10.0, 12.0, 14.0, 16.0
1"L, 1-1/4", 1-1/2"	IR21	3.5	1-14	5.33, 6.00, 6.67, 7.33, 8.00, 8.67, 9.33, 10.00, 10.67, 11.33, 12.00, 12.67, 13.33, 14.00, 14.67
	IR22	7.4	2-32	8.0, 9.0, 10.0, 11.0, 12.0, 13.0, 14.0, 15.0, 16.0, 17.0, 18.0, 19.0, 20.0, 21.0, 22.0
	IR24	13.4	4-57	10.67, 12.0, 13.33, 14.67, 16.0, 17.33, 18.67, 20.0, 21.33, 22.67, 24.0, 25.33, 26.67, 28.0, 29.33
	IR28	30.0	8-128	16.0, 18.0, 20.0, 22.0, 24.0, 26.0, 28.0, 30.0, 32.0, 34.0, 36.0, 38.0, 40.0, 42.0, 44.0
1-1/2"L - 2"	IR31	3.5	1-14	12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38
	IR32	7.4	2-32	18, 21, 24, 27, 30, 33, 36, 39, 42, 45, 48, 51, 54, 57
	IR34	13.4	4-57	24, 28, 32, 36, 40, 44, 48, 52, 56, 60, 64, 68, 72, 76
	IR38	30.0	8-128	36, 42, 48, 54, 60, 66, 72, 78, 84, 90, 96, 102, 108, 114

## NOTES

<sup>2</sup> Coil Type must be FNPT if hoses are required.

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

<sup>4</sup> Head Loss in Feet is provided for pump head calculations. (1 PSI = 2.307 Feet of Water)

<sup>5</sup> Systems with entrained air and fluid velocities less than 4FPS are susceptible to noise when using the 2-32 cartridge. If your system has entrained air and flowrates less than 2GPM please consider using the 4-57 cartridge.