

<p>Isolator R: Automatic Flow Controls Valve</p> <p>Isolator U: Union with CPTA</p> <p>Unimizer®: 2 Way Actuated Control Valve (Actuator Sold Separately)</p> <p>Isolator S: Combination Y-Strainer and Ball Valve with CPTA & Drain Valve</p>	END CONNECTIONS: <input type="checkbox"/> FNPT <input type="checkbox"/> SWT
	LINE SIZE: <input type="checkbox"/> 1/2" <input type="checkbox"/> 3/4" <input type="checkbox"/> 1/2"L <input type="checkbox"/> 3/4"L <input type="checkbox"/> 1" <input type="checkbox"/> 1" L <input type="checkbox"/> 1-1/4" <input type="checkbox"/> 1-1/2" <input type="checkbox"/> 1-1/2"L <input type="checkbox"/> 2"
	COMPONENT OPTIONS: <input type="checkbox"/> Extension Kit
	HOSE OPTIONS Type: <input type="checkbox"/> F.R. SS Hose <input type="checkbox"/> Insulated Length <input type="checkbox"/> 12" <input type="checkbox"/> 18" <input type="checkbox"/> 24" <input type="checkbox"/> 36"
	TEMPERATURE CONTROLS: <input type="checkbox"/> Griswold Controls Unimizer® 2 Way Actuated Ball Valve (Actuator Sold Separately)

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 / -22°F to 250°F.

Note: Actuator is sold separately, either through Griswold Controls or others.

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 (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) Pressure/Temperature Test Valves, and (1) combination Pressure/Temperature Test Valves and manual air vent (CPTA). Valve is fully assembled. PSI/Temperature Rating: 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, with Nickel plated ball. 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 combination Pressure/Temperature Test Valves and manual air vent (CPTA). Assembly includes drain valve with 3/4" hose connection with cap. Valve is fully assembled. PSI/Temperature Rating: 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 combination Pressure/Temperature Test Valves and 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.

CPP-2IRISU PACKAGES

Model Number Selection:

Size	Model Number- FNPT	Model Number- SWT	Add Unimizer® Size to Model Number
1/2"	1AA.CPP2IRIR0E_	1AA.CPP2IRIR0L_	1/2"=H
3/4"	1AA.CPP2IRIR0F_	1AA.CPP2IRIR0M_	½"=H, 3/4"=I
1/2" Large	1A.CPP2IRIR1E_	1A.CPP2IRIR1L_	1/2"=H
3/4" Large	1A.CPP2IRIR1F_	1A.CPP2IRIR1M_	½"=H, 3/4"=I
1"	1A.CPP2IRIR1G_	1A.CPP2IRIR1N_	1/2"=H, 3/4"=I, 1"=J
1" Large	1B.CPP2IRIR2G_	1B.CPP2IRIR2N_	1/2"=H, 3/4"=I, 1"=J
1-1/4"	1B.CPP2IRIR2P_	1B.CPP2IRIR2K_	1/2"=H, ¾"=I, 1"=J, 1-1/4"=S
1-1/2"	1B.CPP2IRIR2Q_	1B.CPP2IRIR2W_	1/2"=H, 3/4"=I, 1"=J, 1-1/4"=S, 1-1/2"=T
1-1/2" Large	1C.CPP2IRIR3Q_	1C.CPP2IRIR3W_	1-1/4"=S, 1-1/2"=T
2"	1C.CPP2IRIR3R_	1C.CPP2IRIR3Y_	1-1/4"=S, 1-1/2"=T, 2"=U

Unimizer® Size	Unimizer® Model#	Cv's Available
1/2"	UR2A	.38, .68, 1.3, 2.6, 4.7, 8.0, 11.7
3/4"	UR2B	.31, .63, 1.2, 2.5, 4.3, 10.1, 14.7, 28.6
1"	UR2C	4.4, 9.0, 15.3, 26.1, 28.4, 43.9, 54.2
1-1/4"	UR2D	4.4, 8.3, 14.9, 36.5, 41.1, 102.3
1-1/2"	UR2E	22.8, 41.3, 73.9, 171.7
2"	UR2F	41.7, 57.0, 71.1, 100.0, 108.0, 210, 266.0

NOTES:

1. CPP to Unimizer® connection is NPT.
2. All inlet and outlet connections (including coil) are FNPT or SWT throughout package (no mixing of end connection types).
3. 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" insulation option and a "2" to the end of the model number to designate 2" insulation option.

Isolator R Flow Rates (+/- 5%)

SIZE	MODEL NO.	HEAD LOSS IN FEET ¹	PSID RANGE	GPM
1/2", 3/4"	IR02_	7.4	2-32	0.25, 0.33, 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"L, 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, 1.50, 2.00, 2.50, 3.00, 3.50, 4.00, 5.00, 6.00, 7.00, 8.00
	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
	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, 12.00, 13.33, 14.67, 16.00, 17.33, 18.67, 20.00, 21.33, 22.67, 24.00, 25.33, 26.67, 28.00, 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

¹ Head Loss in Feet is provided for pump head calculations. (1 PSI = 2.307 Feet of Water)