

 <p>Isolator R: Automatic Flow Control Valve</p> <p>Isolator U: Union with CPTA</p> <p>Isolator S: Combination Y-Strainer and Ball Valve with PT, 1/2" Bypass port & Drain</p> <p>Control Valve: Supplied By Others</p> <p>RETURN</p> <p>COIL</p> <p>SUPPLY</p>	<p>END CONNECTIONS:</p> <p><input type="checkbox"/> FNPT <input type="checkbox"/> SWT <input type="checkbox"/> QuickPress¹</p> <p><input type="checkbox"/> FNPT (Line) & SWT (Coil)</p> <p><input type="checkbox"/> SWT (Line) & FNPT (Coil)</p> <hr/> <p>LINE SIZE:</p> <p><input type="checkbox"/> 1/2" - 3/4"</p> <p><input type="checkbox"/> 1/2"L - 1"</p> <p><input type="checkbox"/> 1" L - 1-1/2"</p> <p><input type="checkbox"/> 1-1/2"L - 2"</p> <hr/> <p>BALL & STEM:</p> <p><input type="checkbox"/> Nickel-plated brass ball & brass stem</p> <p><input type="checkbox"/> Stainless Steel ball & stem</p> <hr/> <p>COMPONENT OPTIONS:</p> <p><input type="checkbox"/> Extension Kit</p> <hr/> <p>HOSE OPTIONS (FNPT Option)</p> <p>Type:</p> <p><input type="checkbox"/> F.R. SS Hose <input type="checkbox"/> Insulated</p> <p>Length</p> <p><input type="checkbox"/> 12" <input type="checkbox"/> 18" <input type="checkbox"/> 24" <input type="checkbox"/> 36"</p> <hr/> <p>CONTROL VALVE (CV):</p> <p><input type="checkbox"/> Customer Supplied and Installed CV</p> <p><input type="checkbox"/> Customer Supplied CV - Installed By Griswold Controls</p>
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Specifications

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 & Manual Air Vent (**CPTA**). 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, 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 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 (1-1/2"L to 2" only): Cast brass body with FxFx threaded connections. Tee is line size and not CV size.

NOTES

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

CPP-3IRIS PACKAGES

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"	CPP3IRIR0E_	CPP3IRIR0L_	CPP3IRIR07_	CPP3IRIR01_	CPP3IRIR01Z_	1/2"=H
3/4"	CPP3IRIR0F_	CPP3IRIR0M_	CPP3IRIR08_	CPP3IRIR02_	CPP3IRIR02Z_	1/2"=H, 3/4"=I
1/2" L	CPP3IRIR1E_	CPP3IRIR1L_	CPP3IRIR17_	CPP3IRIR11_	CPP3IRIR11Z_	1/2"=H
3/4" L	CPP3IRIR1F_	CPP3IRIR1M_	CPP3IRIR18_	CPP3IRIR12_	CPP3IRIR12Z_	1/2"=H, 3/4"=I
1"	CPP3IRIR1G_	CPP3IRIR1N_	CPP3IRIR19_	CPP3IRIR13_	CPP3IRIR13Z_	1/2"=H, 3/4"=I, 1"=J
1" L	CPP3IRIR2G_	CPP3IRIR2N_	CPP3IRIR29_	CPP3IRIR23_	CPP3IRIR23Z_	1/2"=H, 3/4"=I, 1"=J
1-1/4"	CPP3IRIR2P_	CPP3IRIR2K_	n/a	CPP3IRIR24_	CPP3IRIR24Z_	1/2"=H, 3/4"=I, 1"=J, 1-1/4"=S
1-1/2"	CPP3IRIR2Q_	CPP3IRIR2W_	n/a	CPP3IRIR25_	CPP3IRIR25Z_	1/2"=H, 3/4"=I, 1"=J, 1-1/4"=S, 1-1/2"=T
1-1/2" L	CPP3IRIR3Q_	CPP3IRIR3W_	n/a	CPP3IRIR35_	CPP3IRIR35Z_	1-1/4"=S, 1-1/2"=T
2"	CPP3IRIR3R_	CPP3IRIR3Y_	n/a	CPP3IRIR36_	CPP3IRIR36Z_	1-1/4"=S, 1-1/2"=T, 2"=U

NOTES:

- Connections to Control Valve are MNPT.
- 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.

Isolator R Flow Rates (+/- 5%)

SIZE	IR MODEL NO.	HEAD LOSS IN FEET ³	PSID RANGE	GPM
1/2", 3/4"	IR02_	7.4	2-32 ⁴	0.25, 0.33, 0.50, 1.00, 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, 1.50, 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

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

³ Head Loss in Feet is provided for pump head calculations. (1 PSI = 2.307 Feet of Water)

⁴ Systems with entrained air and fluid velocities less than 4fps are susceptible to noise when using the 2-32 cartridge in the IR0 housing. If your system has entrained air and flowrates less than 2 gpm please use the 4-57 cartridge.