



**Isolator R:** Automatic Flow Control Valve

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

**Control Valve (CV):** Supplied By Others

**Isolator S:** Combination Y-Strainer and Ball Valve with CPTA & Drain Valve

**END CONNECTIONS:**

- FNPT  SWT  QuickPress<sup>1</sup>
- FNPT (Line) & SWT (Coil)
- SWT (Line) & FNPT (Coil)

**LINE & COIL SIZE:**

- 1/2" - 3/4"
- 1/2"L - 1"
- 1"L - 1-1/2"
- 1-1/2"L - 2"

**BALL & STEM:**

- Nickel-plated brass ball & brass stem
- Stainless Steel ball & stem

**COMPONENT OPTIONS:**

- Extension Kit

**HOSE OPTIONS (FNPT COIL)**

**Swivel Type:**

- MNPT  SWT

**Length:**

- 12"  18"  24"  36"

**CONTROL VALVE (CV):**

- Customer Supplied and Installed CV
- Customer Supplied CV - Installed By Griswold Controls

## 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 and 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. 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: 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 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.

## NOTES

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

## 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 CV Size to Model Number
1/2"	CPP2IRIR0E_	CPP2IRIR0L_	CPP2IRIR07_	CPP2IRIR01_	CPP2IRIR01Z_	1/2"=H
3/4"	CPP2IRIR0F_	CPP2IRIR0M_	CPP2IRIR08_	CPP2IRIR02_	CPP2IRIR02Z_	1/2"=H, 3/4"=I
1/2" L	CPP2IRIR1E_	CPP2IRIR1L_	CPP2IRIR17_	CPP2IRIR11_	CPP2IRIR11Z_	1/2"=H
3/4" L	CPP2IRIR1F_	CPP2IRIR1M_	CPP2IRIR18_	CPP2IRIR12_	CPP2IRIR12Z_	1/2"=H, 3/4"=I
1"	CPP2IRIR1G_	CPP2IRIR1N_	CPP2IRIR19_	CPP2IRIR13_	CPP2IRIR13Z_	1/2"=H, 3/4"=I, 1"=J
1" L	CPP2IRIR2G_	CPP2IRIR2N_	CPP2IRIR29_	CPP2IRIR23_	CPP2IRIR23Z_	1/2"=H, 3/4"=I, 1"=J
1-1/4"	CPP2IRIR2P_	CPP2IRIR2K_	n/a	CPP2IRIR24_	CPP2IRIR24Z_	1/2"=H, 3/4"=I, 1"=J, 1-1/4"=S
1-1/2"	CPP2IRIR2Q_	CPP2IRIR2W_	n/a	CPP2IRIR25_	CPP2IRIR25Z_	1/2"=H, 3/4"=I, 1"=J, 1-1/4"=S, 1-1/2"=T
1-1/2"L	CPP2IRIR3Q_	CPP2IRIR3W_	n/a	CPP2IRIR35_	CPP2IRIR35Z_	1-1/4"=S , 1-1/2"=T
2"	CPP2IRIR3R_	CPP2IRIR3Y_	n/a	CPP2IRIR36_	CPP2IRIR36Z_	1-1/4"=S , 1-1/2"=T, 2"=U

## NOTES:

- 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.<sup>2</sup>
- Standard CPPs include nickel-plated brass ball and brass stem. For optional stainless steel ball and stem change "CPP" to "CPS" in model number.

## FLOW RATES (+/-5%)

SIZE	IR MODEL NO.	HEAD LOSS IN FEET <sup>3</sup>	PSID RANGE	GPM
1/2", 3/4"	IR02	7.4	2-32 <sup>4</sup>	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

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

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

<sup>4</sup> 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.