

<p>Isolator R: Automatic Flow Limiting Valve</p> <p>Isolator S: Combination Y-Strainer and Ball Valve with CPTA & Drain Valve (Optional 2nd CPTA)</p>	LINE TYPE: <input type="checkbox"/> FNPT <input type="checkbox"/> SWT <input type="checkbox"/> QuickPress ¹	COIL TYPE: <input type="checkbox"/> FNPT <input type="checkbox"/> SWT <input type="checkbox"/> MNPT <input type="checkbox"/> QuickPress ¹	
	LINE 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"	COIL 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"	
	BALL & STEM: <input type="checkbox"/> Stainless Steel 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"/> Isolator S 2 nd CPTA		
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

Isolator R: Forged DZR brass 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 stainless steel 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 DZR 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

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.

NOTES

¹ 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 ² for Model Number
1/2"	CP1R0_E_XB0	CP1R0_L_XB0	CP1R0_2_XB0	FNPT:(E=1/2,F=3/4) MNPT:(H=1/2, I=3/4) SWT:(L=1/2,M=3/4) PRESS:(2=1/2,3=3/4)
3/4"	CP1R0_F_XB0	CP1R0_M_XB0	CP1R0_3_XB0	
1/2"L	CP1R1_E_XB0	CP1R1_L_XB0	CP1R1_2_XB0	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)
3/4"L	CP1R1_F_XB0	CP1R1_M_XB0	CP1R1_3_XB0	
1"	CP1R1_G_XB0	CP1R1_N_XB0	CP1R1_1_XB0	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)
1"L	CP1R2_G_XB0	CP1R2_N_XB0	CP1R2_1_XB0	
1-1/4"	CP1R2_P_XB0	CP1R2_K_XB0	CP1R2_4_XB0	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)
1-1/2"	CP1R2_Q_XB0	CP1R2_W_XB0	CP1R2_5_XB0	
1-1/2"L	CP1R3_Q_XB0	CP1R3_W_XB0	CP1R3_5_XB0	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)
2"	CP1R3_R_XB0	CP1R3_Y_XB0	CP1R3_6_XB0	

NOTES:

- Standard CPPs include stainless steel ball and brass stem. For optional stainless steel ball and stem change "CP" to "CS" in model number.
- Insert PSID Code in 6th digit. Insert "0" for No-Cartridge option.
- Insert Coil Size & Type in 8th digit.
- Standard CPPs include (1) CPTA in Isolator S with 20 mesh strainer. For optional 2nd CPTA change "B" to "D" (20 mesh) or "G" (1 CPTA – 50 mesh) or "J" (2 CPTA – 50 mesh).
- 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.³
- Add Swivel Type & Hose length to end of model number if applicable. For example -M24 for 24" long hoses with MNPT.

FLOW RATES (+/-5%)

SIZE	IR MODEL NO. FOR REFERENCE	HEAD LOSS IN FEET ⁴	PSID RANGE ⁵	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, 4.00, 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, 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, 12.00, 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 Coil Type must be FNPT if hoses are required.

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

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

⁵ While valve will control the flow through the high end of PSID range, there is a limit to the maximum PSID across the cartridge before cavitation occurs. A conservative guide is: Maximum Allowable Pressure Drop = 0.5 (Inlet Pressure - Water Vapor Pressure). Cavitation is an effect that occurs when the fluid vaporizes as it goes through a port opening. As the fluid exits the port the vapor bubbles collapse back into a liquid state. The vapor bubbles imploding cause noise and vibration in the valve and can eventually destroy valves. This phenomenon is amplified when entrained air is in the system. If cavitation is a concern, then selecting a stiffer spring like 4-57 or 8-128 can help reduce risk.