

<p>Control Valve(CV): Supplied By Others</p> <p>Isolator U: Union with CPTA (Optional CPTA and Coin-Op Airvent or CPTA and Drain Valve)</p> <p>SpeedSet: Manual Balance Valve</p> <p>Ball Valve (BV): Optional</p> <p>Isolator S: Combination Y-Strainer and Ball Valve with CPTA & Drain Valve (Bypass in Isolator S shown for 1/2" CPP. Tee used in larger CPPs)</p>	<p>END CONNECTIONS:</p> <p><input type="checkbox"/> FNPT <input type="checkbox"/> SWT¹</p> <p><input type="checkbox"/> FNPT (Line) & SWT (Coil)</p> <hr/> <p>LINE & COIL SIZE:</p> <p><input type="checkbox"/> 1/2"</p> <p><input type="checkbox"/> 3/4" L</p> <p><input type="checkbox"/> 1"</p> <p><input type="checkbox"/> 1-1/4"</p> <p><input type="checkbox"/> 1-1/2"</p> <p><input type="checkbox"/> 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 (IsolatorS)</p> <hr/> <p>HOSE OPTIONS (FNPT COIL)</p> <p>Swivel Type:</p> <p><input type="checkbox"/> MNPT <input type="checkbox"/> SWT</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

Ball Valve (Optional): Forged brass ball valve with nickel plated full port ball with Teflon seals and Teflon packing. Valve is fully assembled. PSI/Temperature Rating: 300 PSI / 250F.

SpeedSet™: Forged DZR Brass (CW602N) manual balance valve with orifice plate and 30% Glass Filled PA-66 handwheel with four full turns and built-in memory stop². Valve has FNPT connections. Valve body has two ports with Pressure/Temperature Test Valves. Valve is fully assembled. PSI/Temperature Rating: 362 PSI / 248°F.

IsolatorS: 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 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 (>1/2" only): Cast brass body with FxFxF threaded connections. Tee is line size and not ATC size.

NOTES

¹ Sweat Adapter used on supply side Tee, return side SpeedSet or optional Ball Valve

² S3 Allen Key or T15 Torx Bit tool required to set memory stop.

MODEL NUMBER SELECTION

Size	Model Number- FNPT	Model Number- SWT	Model Number- (Line: FNPT; Coil: SWT)	Model Number- Optional BV FNPT	Model Number- Optional BV SWT	Model Number- Optional BV (Line: FNPT; Coil: SWT)	Add ATC Size to Model Number ³
1/2"	CPP3SEE	CPP3SLL	CPP3SEL	CVP3SEE	CVP3SLL	CVP3SEL	1/2"=H
3/4" L	CPP3SFF	CPP3SMM	CPP3SFM	CVP3SFF	CVP3SMM	CVP3SFM	1/2"=H, 3/4"=I
1"	CPP3SHH	CPP3SNN	CPP3SHN	CVP3SHH	CVP3SNN	CVP3SHN	1/2"=H, 3/4"=I, 1"=J
1-1/4"	CPP3SJJ	CPP3SKK	CPP3SJK	CVP3SJJ	CVP3SKK	CVP3SJK	3/4"=I, 1"=J, 1-1/4"=S
1-1/2"	CPP3SKK	CPP3SWW	CPP3SKW	CVP3SKK	CVP3SWW	CVP3SKW	1"=J, 1-1/4"=S, 1-1/2"=T
2"	CPP3SRR	CPP3SYY	CPP3SRY	CVP3SRR	CVP3SYY	CVP3SRY	1-1/2"=T, 2"=U

NOTES:

- Standard CPPs include nickel-plated brass ball and brass stem in Isolator S. For optional stainless steel ball and stem change "CPP" to "CPS" or "CVP" to "CVS" in model number

FLOW RATES

SIZE	FLOW GPM ⁽⁴⁾ @4 FT/SEC	Cv ⁽⁵⁾							ORIFICE Vf ⁶	GPM RANGE FOR 1"-100" W.C. ΔP	GPM RANGE FOR 1"-300" W.C. ΔP
		1	1.5	2	2.5	3	3.5	4 ⁷			
1/2"	3.8	0.34	0.53	0.73	0.98	1.47	1.9	2.16	.483	0.48 – 4.9	0.48 – 8.4
3/4"	6.7	0.46	0.68	0.92	1.72	2.44	3.24	3.63	1.010	1.0 – 10.1	1.0 – 17.5
1"	10.8	1.06	1.55	2.05	2.65	3.95	5.57	6.46	1.867	1.9 – 18.7	1.9 – 32.5
1-1/4"	18.7	0.83	1.35	4.07	7.62	10.18	11.68	12.48	3.668	3.7 – 36.5	3.7 – 63.5
1-1/2"	25.4	1.48	2.54	5.78	11.43	16.76	19.42	20.92	5.733	5.7 – 57.5	5.7 – 99.4
2"	41.9	2.25	6.42	13.87	21.39	27.17	30.75	33.64	9.489	9.5 – 95.0	9.5 – 164.5

NOTES

³ SpeedSet includes bushing(s) and nipple when ATC is downsized.

⁴ The generally accepted upper limit as recommended by ASHRAE to prevent pipe noise is 4 ft/sec.

⁵ Cv is the GPM of water at 1 PSID drop through the valve at the specific setting. Cv's are used to calculate the permanent pressure drop across valve for pump sizing. $PSID=(Flow/Cv)^2$.

⁶ Vf is used to set valve or for flow measurement. $INCHES H_2O=(Flow/Vf)^2$

⁷ Setting 4 is a full open valve