

## **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**<sup>™</sup>: 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 stop<sup>2</sup>. 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.

**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 & 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.

<u>Union</u>: 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.

<u>Combination Pressure/Test Valve & Manual Air Vent (CPTA):</u> 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> Sweat Adapter used on SpeedSet.or on optional Ball Valve on return side

 $^{\rm 2}$  S3 Allen Key or T15 Torx Bit tool required to set memory stop.

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# **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 <sup>3</sup>
1/2"	CPP2SEE	CPP2SLL	CPP2SEL	CVP2SEE	CVP2SLL	CVP2SEL	1/2"=H
3/4" L	CPP2SFF	CPP2SMM	CPP2SFM	CVP2SFF	CVP2SMM	CVP2SFM	1/2"=H, 3/4"=I
1"	CPP2SHH	CPP2SNN	CPP2SHN	CVP2SHH	CVP2SNN	CVP2SHN	1/2"=H, 3/4"=I, 1"=J
1-1/4"	CPP2SJJ	CPP2SKK	CPP2SJK	CVP2SJJ	CVP2SKK	CVP2SJK	3/4"=I, 1"=J, 1-1/4"=S
1-1/2"	CPP2SKK	CPP2SWW	CPP2SKW	CVP2SKK	CVP2SWW	CVP2SKW	1"=J, 1-1/4"=S, 1-1/2"=T
2"	CPP2SRR	CPP2SYY	CPP2SRY	CVP2SRR	CVP2SYY	CVP2SRY	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 <sup>(4)</sup> @4 FT/SEC	Cv <sup>(5)</sup>						ORIFICE	GPM RANGE	GPM RANGE	
		1	1.5	2	2.5	3	3.5	47	Vf <sup>6</sup>	FOR 1"–100" W.C. ∆P	FOR 1"–300" W.C. ∆P
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

<sup>3</sup> SpeedSet includes bushing(s) and nipple when ATC is downsized.

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

<sup>5</sup> 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)<sup>2</sup>.

<sup>6</sup> Vf is used to set valve or for flow measurement. INCHES H<sub>2</sub>O=(Flow/Vf)<sup>2</sup>

<sup>7</sup> Setting 4 is a full open valve

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