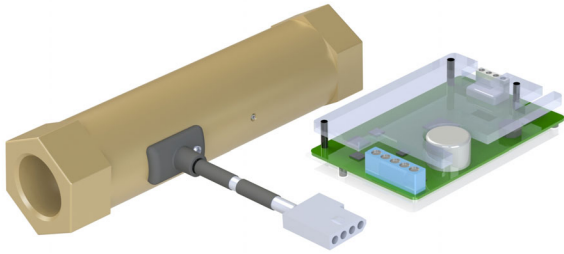


SPECIFICATIONS



PSI/Temperature Rating: 400 PSI / 200° F
Service: Chilled water, hot water, or water up to 50% Glycol
Flow Element: 2-Way Ceramic Disc
Cartridge: AISI Type 304 Stainless Steel
 AISI Type 17-7 PH Stainless Steel Spring
Body Material: Forged Brass (No Lead¹ Brass Available)
End Connections: Brass FNPT or SWT
Close Off ΔP: 250 PSI – ANSI Class 4
Cv: Electrically adjustable
Actuator Voltage: 22-35 Vac/Vdc
Actuator Cycle Time: 52 seconds

ACTUATED BALL Cv² AND FLOW RATE TABLE (GPM)

SIZE	STROKE	DIP SWITCH SETTINGS		FLOWRATE (GPM) @ DIFFERENTIAL PRESSURE (PSI)											
				2-Position HVAC Apps		HVAC Modulating Apps									
					Cv	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0
DIP1	DIP2	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	7.0	10.0		
1/2"	40%	On	Off	0.4	0.5	0.6	0.7	0.8	0.9	0.9	1.0	1.1	1.1	1.3	1.6
	60%	Off	On	1.0	1.4	1.7	2.0	2.2	2.4	2.6	2.8	3.0	3.1	3.7	4.4
	80%	On	On	1.7	2.4	2.9	3.4	3.8	4.2	4.5	4.8	5.1	5.4	6.3	7.6
	100%	Off	Off	2.5	3.5	4.3	4.9	5.5	6.1	6.5	7.0	7.4	7.8	9.3	11.1
3/4"	40%	On	Off	0.4	0.5	0.6	0.7	0.8	0.9	0.9	1.0	1.1	1.1	1.3	1.6
	60%	Off	On	1.1	1.5	1.8	2.1	2.4	2.6	2.8	3.0	3.2	3.4	4.0	4.7
	80%	On	On	1.8	2.5	3.1	3.5	4.0	4.3	4.7	5.0	5.3	5.6	6.6	7.9
	100%	Off	Off	3.5	5.0	6.1	7.1	7.9	8.7	9.4	10.0	10.6	11.2	13.2	15.8

CARTRIDGE FLOW RATES (+/-5%)

	MODEL NO.	HEAD LOSS IN FEET ³	PSID RANGE	GPM
1/2"	MAR2	7.4	2-32	0.25, 0.33, 0.50, 1.00, 1.50, 2.00, 2.50, 3.00
	MAR4	13.4	4-57	0.50, 1.00, 1.20, 1.50, 2.00, 2.50, 3.00
3/4"	MAR1	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
	MAR2	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
	MAR4	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
	MAR8	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

NOTES:

¹ No Lead brass contains less than 0.25% lead content by weight on wetted surfaces. 3rd party certification for CA AB1953 and NSF-61 Annex G was performed by ALS Labs. Certificate available on website. Certification label is applied to valve surface.

² The Cv is the gallons of water per minute (gpm) at 60°F that the valve will pass at 1 PSI pressure drop. Cv's are also used to calculate the pressure drop. PSID=(Flow/Cv)²

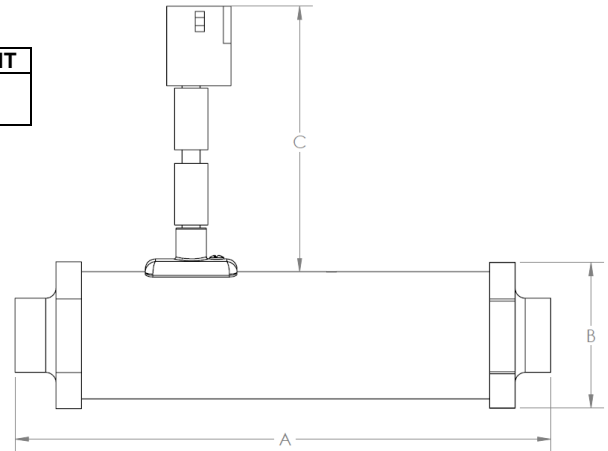
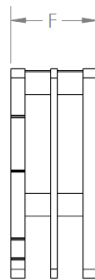
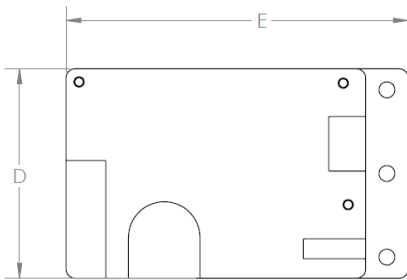
³ Head Loss in Feet is provided for pump head calculations. (1 PSI = 2.307 Feet of Water)

ACTUATED CONTROL VALVES 1/2"-3/4" STREAMLINE CONTROL

DIMENSIONS & WEIGHTS (NOMINAL) (measured in inches and lbs unless noted)

All dimensions are for planning purposes only and may change without notice.

SIZE	A	B	C	D	E	F	WEIGHT
1/2"	5.3	1.5	15.0	1.9	3.0	0.8	1.2
3/4"	6.0	1.5					



MODEL NUMBER SELECTION

Select a PSID control range: (1=1-14, 2=2-32, 4=4-57, 8=8-128)

Select Valve Size (E=1/2"FNPT, L=1/2"SWT, F=3/4"FNPT, M=3/4"SWT)

Select an Actuator (1=Fail-safe with 2-10V Modulating, On/Off OR 3-point floating, 2=Non-Fail-safe On/Off or Modulating)

Select a Housing Type (S=Standard Brass, L=No Lead¹ Brass)

