UltraMatic™ UMXS Submittal

Automatic Flow Control Valve – ½” thru 2”

The UltraMatic Stainless Steel is a precision-engineered automatic flow control valve designed for demanding environments like data centers. Available in sizes from ½" to 2", it offers versatility, durability, and consistent flow performance across a 2–45 PSID range.

Advantages:

- 304 or 316 stainless steel body options for corrosion resistance and durability
- Multiple connection options: female BSPP and Tri-Clamp
- Ideal vertical markets: Data Centers and other mission-critical applications

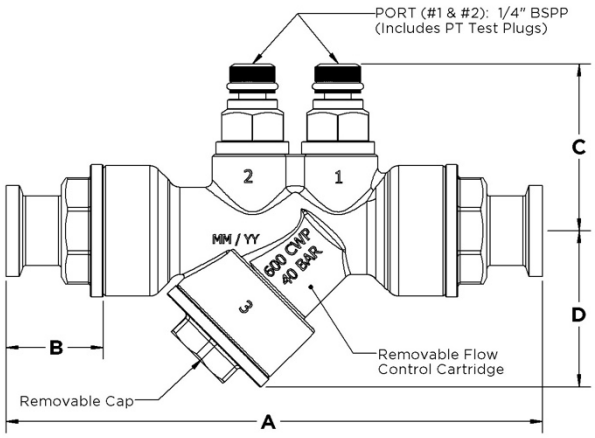
Materials & Design Data

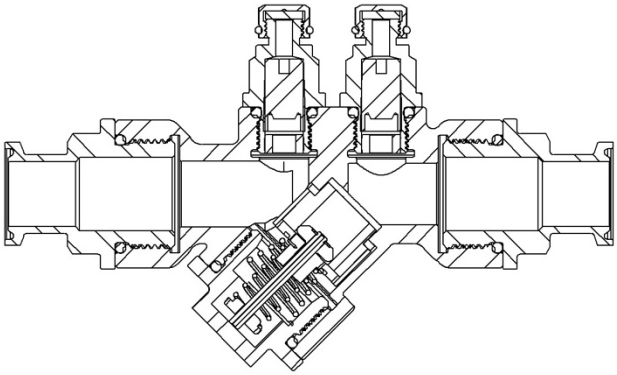
Body	Stainless Steel – 304L or 316L options (S31603)	Cast: ½”Rp, ¾”Rp, 1”Rp, 1 ¼”Rp, 1 ½”Rp, 2”Rp, 600psi CWP, 325°F
Fixed End	Stainless Steel – 304L or 316L options (S31603)	Female BSPP (Rp): 200 PSIG, 250°F Tri-Clamp: 200 PSIG, 250°F
Fixed End Seals	FKM O-rings	
Cap Seal	FKM O-rings	
Flow Cartridge	Stainless Steel – 316L (S31603), non-clog design	
Cartridge Seal	FKM	
Accuracy	5%	

Flow Rate Selections

Size	PSID Range	GPM ±5%
½, ¾ LO	2-45	0.33, 0.5, 1.0, 1.5, 1.75, 2.0, 2.25, 2.5, 2.75, 3.0, 3.5, 4.0, 5.0, 5.5, 6.0
¾, 1 LO, 1 ¼ LO	2-45	0.33, 0.5, 1.0, 1.5, 1.75, 2.0, 2.25, 2.5, 2.75, 3.0, 3.5, 4.0, 5.0, 5.5, 6.0, 7.0, 8.0, 9.0, 10.5
1 ¼, 1 ½	2-45	7.0, 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
2	2-45	25.0, 30.0, 35.0, 40.0, 45.0, 50.0, 55.0, 60.0, 65.0, 70.0, 75.0

Additional Imagery





Dimensions (inches)

Size	LO	STD	A		B		C	D	Cv		WT	
			Rp	TC	Rp	TC			Rp	TC	Rp	TC
½		+	3.3	5.1	n/a	0.9	1.8	1.7	9	9	0.96	1.30
¾	+		3.7	5.8	n/a	1.1	1.8	1.7	9	9	1.08	1.51
¾		+	3.7	5.8	n/a	1.1	2.0	2.7	14	14	1.78	2.21
1	+		5.5	5.2	0.9	0.8	2.0	2.7	14	14	2.75	2.94
1¼	+		5.7	n/a	1.0	n/a	2.0	2.7	14	n/a	2.69	n/a
1¼		+	7.0	n/a	1.0	n/a	2.1	3.8	32	n/a	4.19	n/a
1½		+	5.0	7.7	n/a	1.4	2.1	3.8	32	32	2.91	4.61
2		+	6.5	9.2	n/a	1.4	2.5	5.3	77	77	9.79	12.15

*Rp = Female BSPP

*TC = Tri-Clamp

*Cv based on valve body only

*WT = lbs.

Accessories

Description	Nexus P/N	Order Code
Hanging Tag: includes Model #, location, flow rate (maximum 7 characters)	HT	H