



nexusvalve.com

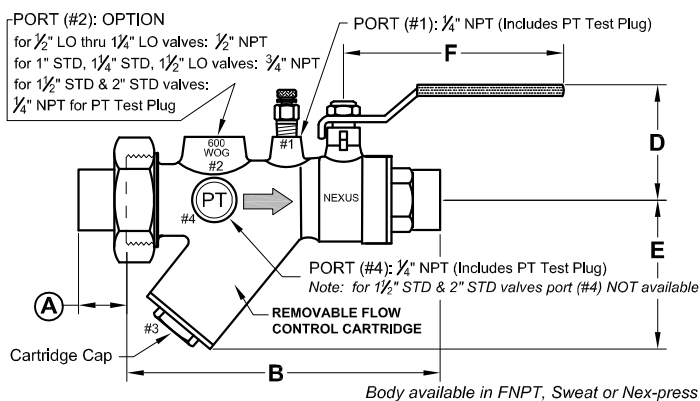
UltraMatic™ Model UM

Automatic Flow Control Valve,
Ball Valve and Union End, 600 WOG, 325°F

(½" thru 2")

DIMENSIONS [inches]												
SIZE [inches]	XLO	LO	STD	A	B			D	E	F	Cv ⁽¹⁾	WT [lbs] (Tail Pieces & Nuts not included)
					F (NPT)	S (sweat)	P (Nex-press)					
½		✓			3.9	4.1	4.5	1.7	1.6	1.9	9	1.2
½			✓		5.0	4.9	5.5	1.8	2.4	3.1	14	1.5
¾		✓			3.9	4.2	4.6	1.7	1.6	1.9	9	1.2
¾			✓		4.9	5.2	5.6	1.8	2.4	3.1	14	2.3
1	✓				4.3	4.4	4.6	1.7	1.6	1.9	9	1.2
1		✓			5.1	5.3	5.6	1.8	2.4	3.1	14	2.3
1			✓		6.8	6.9	7.1	2.5	3.5	4.3	32	3.9
1¼		✓			5.4	5.3	-	1.8	2.4	3.1	14	2.5
1¼			✓		6.6	6.8	-	2.5	3.5	4.3	32	4.4
1½		✓			6.6	7.0	-	2.5	3.5	4.3	32	4.5
1½			✓		9.1	9.7	-	3.4	5.1	5.5	77	7.8
2			✓		9.1	9.9	-	3.4	5.1	5.5	77	8.0

⁽¹⁾ Cv based on valve body only



TAIL PIECE OPTION	Nexus P/N	O.A.L. [Inches]	USE WITH VALVE SIZE	
MALE NPT	TP-075-050M	1.75	½ LO, ¾ LO, 1 XLO	
	TP-125-050M	1.75	½ STD, ¾ STD, 1 LO, 1¼ LO	
	TP-125-075M	1.75		
	TP-125-100M	1.75		
	TP-200-050M	1.69	1 STD, 1¼ STD, 1½ LO	
	TP-200-075M	1.73		
	TP-200-100M	1.85		
	TP-200-125M	1.85		
TP-200-150M	1.89			
FEMALE NPT	TP-250-100M	1.93	½ STD, 2 STD	
	TP-250-125M	1.93		
	TP-250-150M	1.97		
	TP-125-050F	1.00	½ STD, ¾ STD, 1 LO, 1¼ LO	
	TP-125-075F	1.00		
	TP-125-100F	1.20		
FEMALE SWEAT	TP-200-100F	1.61	1 STD, 1¼ STD, 1½ LO	
	TP-200-125F	1.57		
	TP-200-150F	1.18		
	TP-250-125F	1.77	1½ STD, 2 STD	
	TP-250-150F	1.97		
	FEMALE SWEAT	TP-075-050S	0.59	½ LO, ¾ LO, 1 XLO
		TP-125-050S	0.60	½ STD, ¾ STD, 1 LO, 1¼ LO
		TP-125-075S	0.85	
TP-125-100S		1.00		
TP-200-075S		1.85	1 STD, 1¼ STD, 1½ LO	
TP-200-100S		1.85		
TP-200-125S		1.85		
TP-200-150S		1.38		
TP-250-125S		1.69		
TP-250-150S		1.97	1½ STD, 2 STD	
TP-250-200S	1.65			

FLOW RATE SELECTIONS		
SIZE [inches]	PSID (range)	GPM (± 5.0%)
½ LO, ¾ LO, 1 XLO	2 - 45	0.5, 1.0, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0
	4 - 55	7.0, 8.0
½ STD, ¾ STD, 1 LO, 1¼ LO	2 - 45	0.5, 1.0, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0, 7.0, 8.0
	5 - 50	9.0, 10.5
1 STD, 1¼ STD, 1½ LO	2 - 45	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 - 45	25.0, 30.0, 35.0, 40.0, 45.0, 50.0, 55.0, 60.0, 65.0, 70.0

ACCESSORIES		
Order Code	Part No.	Description
<input type="checkbox"/>	C	.... CV-1, CV-2. CHECK VALVE CV-1 for ½" LO, ¾" LO, 1" XLO; CV-2 for ½" STD, ¾" STD, 1" LO, 1¼" LO; Center Guided, Non-Slam Check
<input type="checkbox"/>	E	.... ES-1, ES-2, ES-3. EXTENDED HANDLE Stationary housing for full-height vapor barrier
<input type="checkbox"/>	H	.... HT. HANGING TAG with Model No., Location, Flow Rate (Maximum 7 Characters)
<input type="checkbox"/>	L	.... SL. SHORT LEVER HANDLE
<input type="checkbox"/>	V	.... MV-025. MANUAL AIR VENT 325°F, 400 PSIG, ¼" MNPT, Side Discharge Note: Not available for 1½" STD and 2" STD.
<input type="checkbox"/>	X	.... MV-025L. MANUAL AIR VENT EXTENDED 325°F, 400 PSIG, ¼" MNPT, Side Discharge, 2¼" O.A.L. Note: Not available for 1½" STD and 2" STD. PTE. PRES / TEMP TEST PLUG EXTENSION 1¼" O.A.L.

MATERIALS	
BODY	.....FORGED BRASS ASTM B283
HANDLE & NUT	.....CAST BRASS (1½" STD, 2" STD)
BALL	.....ZINC PLATED
BALL SEALS	.....HARD CHROME PLATED
SHAFT SEALS	.....TEFLON
UNION SEALS	.....DUAL VITON O-RINGS
CAP SEAL	.....VITON O-RING
FLOW CARTRIDGE	.....VITON O-RING
TAIL PIECES, NUT	.....STAINLESS STEEL / BRASS
	.....BRASS

DESIGN DATA
HOT FORGED BRASS BODY (CAST BRASS: 1½" STD, 2" STD) O-RING SEALS, 600 WOG, 325°F INTERCHANGEABLE UNION END BLOWOUT-PROOF SHAFTS DOUBLE SHAFT SEALS REMOVABLE FLOW CARTRIDGE ACCURACY ±5%

VALVE SEAT RATING

Y-axis: PRESSURE (PSI) from 0 to 600
X-axis: TEMPERATURE (°F) from 0 to 400

For part numbers and ordering information please consult the "Ordering Guide" section in Nexus Catalog.

PROJECT _____

CONTRACTOR _____

PO/JOB NO. _____

ENGINEER _____

REPRESENTATIVE _____

DATE _____