

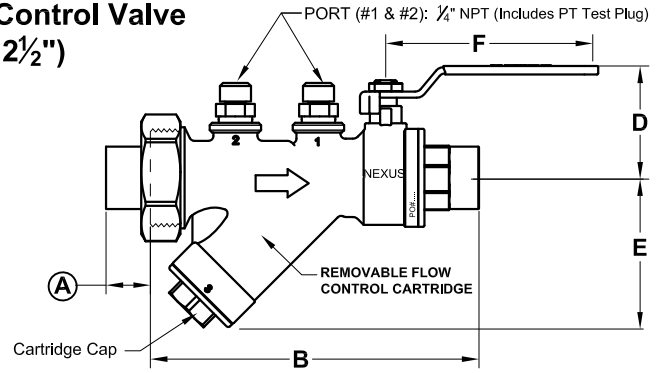


# UltraMatic™ Model UM

Automatic Flow Control Valve

(1/2" thru 2 1/2")

Valve Body available in FNPT, Sweat, NexPress or NexLok



DIMENSIONS [inches]													
SIZE [inches]	XLO	LO	STD	A	B				D	E	F	Cv <small>(based on valve body only)</small>	WT [lbs] <small>(Tail Pieces &amp; Nuts not included)</small>
					F (NPT)	S (sweat)	P (NexPress)	L (NexLok)					
1/2		✓			3.9	4.1	4.5	4.2	1.7	1.6	1.9	9	1.2
3/4			✓		5.0	4.9	5.5	5.3	1.8	2.4	3.1	14	1.5
1				✓	3.9	4.2	4.6	4.4	1.7	1.6	1.9	9	1.2
1 1/4					4.9	5.2	5.6	5.4	1.8	2.4	3.1	14	2.3
1 1/2	✓				4.3	4.4	4.6	4.9	1.7	1.6	1.9	9	1.2
2					5.1	5.3	5.6	5.9	1.8	2.4	3.1	14	2.3
2 1/2					6.5	6.6	6.8	-	2.5	3.5	4.3	32	3.9
					5.4	5.3	7.6	8.0	1.8	2.4	3.1	14	2.5
					6.3	6.5	8.6	9.3	2.5	3.5	4.3	32	4.4
					6.3	6.7	8.9	9.5	2.5	3.5	4.3	32	4.5
					9.1	9.7	11.7	12.0	3.4	5.1	5.5	77	7.8
					9.1	9.9	11.9	12.2	3.4	5.1	5.5	77	8.0
					9.8	10.6	-	-	3.4	5.1	5.5	77	8.5

TAIL PIECE OPTION	Nexus P/N	Lengths [inches]	Use with Valve Body size	
MNPT (Male NPT Thread)	TP075-050M	1.00	1/2 LO, 3/4 LO, 1 XLO	
	TP125-050M	1.04	1/2 STD, 3/4 STD, 1 LO, 1 1/4 LO	
	TP125-075M	1.16		
	TP125-100M	1.29		
	1 STD, 1 1/4 STD, 1 1/2 LO	TP200-050M	1.04	1 STD, 1 1/4 STD, 1 1/2 LO
		TP200-075M	1.16	
		TP200-100M	1.39	
		TP200-125M	1.85	
		TP200-150M	1.89	
		TP250-100M	1.93	
1 1/2 STD, 2, 2 1/2	TP250-125M	1.93	1 1/2 STD, 2, 2 1/2	
	TP250-150M	1.97		
	TP250-200M	2.00		
	TP250-250M	2.00		
FNPT (Female NPT Thread)	TP125-050F	1.00	1/2 STD, 3/4 STD, 1 LO, 1 1/4 LO	
	TP125-075F	1.16		
	TP125-100F	1.20		
	1 STD, 1 1/4 STD, 1 1/2 LO	TP200-100F	1.61	1 STD, 1 1/4 STD, 1 1/2 LO
		TP200-125F	1.57	
		TP200-150F	1.16	
TP250-125F		1.77		
1 1/2 STD, 2, 2 1/2	TP250-150F	1.97	1 1/2 STD, 2, 2 1/2	
	TP250-200F	1.36		
	TP250-250F	1.74		
	TP250-250F	1.74		
SWT (Female Sweat)	TP075-038S	0.58	1/2 LO, 3/4 LO, 1 XLO	
	TP075-050S	0.59		
	1/2 STD, 3/4 STD, 1 LO, 1 1/4 LO	TP125-050S	0.60	1/2 STD, 3/4 STD, 1 LO, 1 1/4 LO
		TP125-075S	0.85	
		TP125-100S	1.00	
		TP200-075S	1.85	
	1 STD, 1 1/4 STD, 1 1/2 LO	TP200-100S	1.85	1 STD, 1 1/4 STD, 1 1/2 LO
		TP200-125S	1.85	
		TP200-150S	1.38	
		TP250-125S	1.69	
1 1/2 STD, 2, 2 1/2	TP250-150S	1.97	1 1/2 STD, 2, 2 1/2	
	TP250-200S	1.65		
	TP250-200S	1.65		
NexPress	TP125-050P	1.46	1/2 STD, 3/4 STD, 1 LO, 1 1/4 LO	
	TP125-075P	1.54		
	TPA125-100P	3.85		
	1 STD, 1 1/4 STD, 1 1/2 LO	TP200-100P	1.58	1 STD, 1 1/4 STD, 1 1/2 LO
		TPA200-125P	3.70	
TPA200-150P		3.63		
1 1/2 STD, 2, 2 1/2	TPA250-150P	4.44	1 1/2 STD, 2, 2 1/2	
	TPA250-200P	4.07		
NexLok	TP125-050L	1.03	1/2 STD, 3/4 STD, 1 LO, 1 1/4 LO	
	TP125-075L	1.29		
	TP200-100L	1.66		
	1 STD, 1 1/4 STD, 1 1/2 LO	TPA200-125L	4.25	1 STD, 1 1/4 STD, 1 1/2 LO
		TPA200-150L	4.05	
		TPA250-125L	4.43	
		TPA250-150L	4.85	
	1 1/2 STD, 2, 2 1/2	TPA250-200L	4.40	1 1/2 STD, 2, 2 1/2
		TPA250-200L	4.40	

FLOW RATE SELECTIONS		
SIZE [inches]	PSID (range)	GPM (± 5.0%)
1/2 LO, 3/4 LO, 1 XLO	2 - 45	0.33, 0.5, 0.75, 1.0, 1.25, 1.5, 1.75, 2.0, 2.25, 2.5, 2.75, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0
	4 - 55	7.0, 8.0
1/2 STD, 3/4 STD, 1 LO, 1 1/4 LO	2 - 45	0.33, 0.5, 0.75, 1.0, 1.25, 1.5, 1.75, 2.0, 2.25, 2.5, 2.75, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0, 7.0, 8.0, 9.0, 10.5
	5 - 65	11.0, 12.0, 13.0, 14.0, 15.0
1 STD, 1 1/4 STD, 1 1/2 LO	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 - 60	24.0, 25.0, 30.0, 35.0
1 1/2 STD, 2, 2 1/2	4 - 70	40.0, 45.0
	2 - 45	25.0, 30.0, 35.0, 40.0, 45.0, 50.0, 55.0, 60.0, 65.0, 70.0, 75.0
5 - 50	80.0, 85.0, 90.0, 95.0, 100.0	

ACCESSORIES		
Order Code	Part No.	Description
<input type="checkbox"/>	C	CV-1, CV-2. CHECK VALVE CV-1 for 1/2" LO, 3/4" LO, 1" XLO; CV-2 for 1/2" STD, 3/4" STD, 1" LO, 1 1/4" 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"/>	X	PTE. PRES / TEMP TEST PLUG EXTENSION 1 1/8" O.A.L.

MATERIALS & DESIGN DATA	
BODY	.....HOT FORGED BRASS ASTM B283 (CAST BRASS: 1 1/2" STD, 2", 2 1/2"), 600 WOG, 325°F, INTERCHANGEABLE UNION ENDS
END PIECES	.....HOT FORGED BRASS ASTM B283 NexPress: 200 PSIG, 250°F / NexLok: 250 PSIG, 200°F / NexLok LD: 200 PSIG, 200°F
HANDLE & NUT	.....ZINC PLATED / PVC COATED
BALL	.....HARD CHROME PLATED BRASS / STAINLESS STEEL (optional)
BALL SEALS	.....TEFLON
SHAFT	.....BRASS / STAINLESS STEEL (optional), BLOWOUT-PROOF
SHAFT SEALS	.....DUAL FKM O-RINGS
UNION SEAL	.....FKM O-RING
CAP SEAL	.....FKM O-RING
FLOW CARTRIDGE	.....STAINLESS STEEL MOVING PARTS IN BRASS HOUSING, REMOVABLE, PAT # 8517051
CARTRIDGE SEAL	.....EPDM
ACCURACY	.....5%

ORDER DATA										
Sample Part #: <b>UM - 075 - S - 075 M - 04,0 - N</b>										
Model	Valve Trim	UltraUM Size	Fixed End	Union End	Flow Rate (GPM)	Accessory Cap Option	N = NO Optional 3rd Port	Option Order Codes (Accessories)		

PROJECT \_\_\_\_\_

CONTRACTOR \_\_\_\_\_

PO/JOB NO. \_\_\_\_\_

ENGINEER \_\_\_\_\_

REPRESENTATIVE \_\_\_\_\_

DATE \_\_\_\_\_

Please consult the "Ordering Guide" section in Nexus Valve Catalog for complete part number and ordering information.



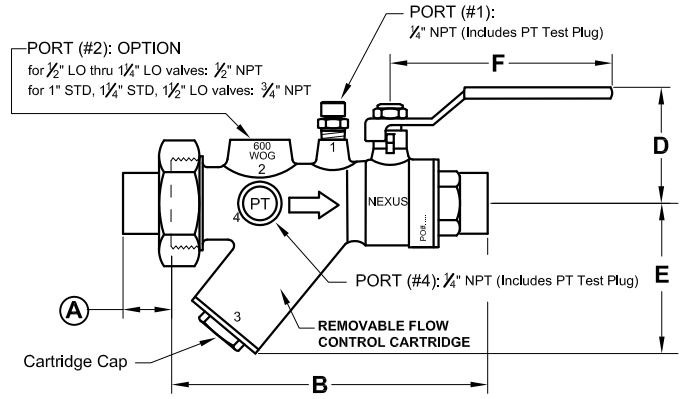
# UltraMatic™ Model UM

## Automatic Flow Control Valve w/ Accessory Port

(½" thru 1½" LO)

Valve Body available in FNPT, Sweat, NexPress or NexLok

DIMENSIONS [inches]													
SIZE [inches]	XLO	LO	STD	A	B				D	E	F	Cv (based on valve body only)	WT [lbs] (Tail Pieces & Nuts not included)
					F (NPT)	S (sweat)	P (NexPress)	L (NexLok)					
½		✓			3.9	4.1	4.5	4.2	1.7	1.6	1.9	9	1.2
½			✓		5.0	4.9	5.5	5.3	1.8	2.4	3.1	14	1.5
¾		✓			3.9	4.2	4.6	4.4	1.7	1.6	1.9	9	1.2
¾			✓		4.9	5.2	5.6	5.4	1.8	2.4	3.1	14	2.3
1	✓				4.3	4.4	4.6	4.9	1.7	1.6	1.9	9	1.2
1		✓			5.1	5.3	5.6	5.9	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	7.6	8.0	1.8	2.4	3.1	14	2.5
1¼			✓		6.6	6.8	8.9	9.0	2.5	3.5	4.3	32	4.4
1½		✓			6.6	7.0	9.2	9.2	2.5	3.5	4.3	32	4.5



TAIL PIECE OPTION	Nexus P/N	Lengths [inches]	Use with Valve Body size
 MNPT (Male NPT Thread)	TP075-050M	1.00	½ LO, ¾ LO, 1 XLO
	TP125-050M	1.04	
	TP125-075M	1.16	½ STD, ¾ STD, 1 LO, 1¼ LO
	TP125-100M	1.29	
	TP200-050M	1.04	
	TP200-075M	1.16	1 STD, 1¼ STD, 1½ LO
 FNPT (Female NPT Thread)	TP125-050F	1.00	½ STD, ¾ STD, 1 LO, 1¼ LO
	TP125-075F	1.00	
	TP125-100F	1.20	
	TP200-100F	1.61	1 STD, 1¼ STD, 1½ LO
 SWT (Female Sweat)	TP200-125F	1.57	
	TP200-150F	1.16	
	TP075-038S	0.58	½ LO, ¾ LO, 1 XLO
	TP075-050S	0.59	
	TP125-050S	0.60	½ STD, ¾ STD, 1 LO, 1¼ LO
	TP125-075S	0.85	
 NexPress	TP125-100S	1.00	
	TP200-075S	1.85	
	TP200-100S	1.85	1 STD, 1¼ STD, 1½ LO
	TP200-125S	1.85	
	TP200-150S	1.38	
	TP125-050P	1.46	½ STD, ¾ STD, 1 LO, 1¼ LO
 NexLok	TP125-075P	1.54	
	TPA125-100P	3.85	
	TP200-100P	1.58	1 STD, 1¼ STD, 1½ LO
	TPA200-125P	3.70	
 NexLok	TPA200-150P	3.63	
	TP125-050L	1.03	½ STD, ¾ STD, 1 LO, 1¼ LO
	TP125-075L	1.29	
	TP200-100L	1.66	1 STD, 1¼ STD, 1½ LO
 NexLok	TPA200-125L	4.25	
	TPA200-150L	4.05	

MATERIALS & DESIGN DATA	
BODY	.....HOT FORGED BRASS ASTM B283, 600 WOG, 325°F, INTERCHANGEABLE UNION ENDS
END PIECES	.....HOT FORGED BRASS ASTM B283 NexPress: 200 PSIG, 250°F / NexLok: 250 PSIG, 200°F / NexLok LD: 200 PSIG, 200°F
HANDLE & NUT	.....ZINC PLATED / PVC COATED
BALL	.....HARD CHROME PLATED BRASS / STAINLESS STEEL (optional)
BALL SEALS	.....TEFLON
SHAFT	.....BRASS / STAINLESS STEEL (optional), BLOWOUT-PROOF
SHAFT SEALS	.....DUAL FKM O-RINGS
UNION SEAL	.....FKM O-RING
CAP SEAL	.....FKM O-RING
FLOW CARTRIDGE	.....STAINLESS STEEL MOVING PARTS IN BRASS HOUSING, REMOVABLE, PAT # 8517051
CARTRIDGE SEAL	.....EPDM
ACCURACY	.....5%

ACCESSORIES	
Order Code	Part No. Description
<input type="checkbox"/> A	.... AV-025. AUTOMATIC AIR VENT 250°F, 150 PSIG, positive shut-off, ¼" MNPT (Not available for: ½"LO, ¾"LO, 1"XLO)
<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. 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
<input type="checkbox"/> X	.... MV-025L. MANUAL AIR VENT EXTENDED 325°F, 400 PSIG, ¼" MNPT, Side Discharge, 2¼" O.A.L. .... PTE. PRES / TEMP TEST PLUG EXTENSION 1½" O.A.L.

FLOW RATE SELECTIONS		
SIZE [inches]	PSID (range)	GPM (± 5.0%)
½ LO, ¾ LO, 1 XLO	2 - 45	0.33, 0.5, 0.75, 1.0, 1.25, 1.5, 1.75, 2.0, 2.25, 2.5, 2.75, 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	0.33, 0.5, 0.75, 1.0, 1.25, 1.5, 1.75, 2.0, 2.25, 2.5, 2.75, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0, 7.0, 8.0, 9.0, 10.5
	5 - 65	11.0, 12.0, 13.0, 14.0, 15.0
1 STD, 1¼ STD, 1½ LO	2 - 45	7.0, 8.0, 9.0, 10.0, 11.0, 12.0, 13.0, 14.0, 15.0
	2 - 60	16.0, 17.0, 18.0, 19.0, 20.0, 21.0, 22.0
	4 - 70	24.0, 25.0, 30.0, 35.0
		40.0, 45.0

ORDER DATA	
Sample Part #:	
UM	- 075 - S - 075M - 040 - V
Model	UltraUM Size
Valve Trim	Fixed End
UltraUM Size	Union End
Fixed End	Flow Rate (GPM)
Union End	Accessory Cap Option
Flow Rate (GPM)	Optional 3rd Port Accessory
Accessory Cap Option	Option Order Codes (Accessories)

PROJECT \_\_\_\_\_

CONTRACTOR \_\_\_\_\_

PO/JOB NO. \_\_\_\_\_

ENGINEER \_\_\_\_\_

REPRESENTATIVE \_\_\_\_\_

DATE \_\_\_\_\_

Please consult the "Ordering Guide" section in Nexus Valve Catalog for complete part number and ordering information.