

UltraMatic™ Model UM

Automatic Flow Control Valve (½" thru 2½")

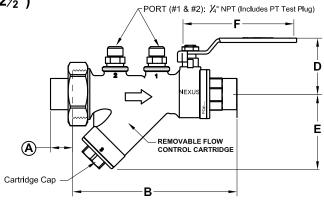
Valve Body available in FNPT, Sweat or NexPress

	DIMENSIONS [inches]											
SIZE [inches]	XLO	LO	STD	A	F (NPT)	S (sweat)	P (NexPress)	D	Е	F	Cv (based on valve body only)	WT [lbs] (Tall Pleces & Nuts not included)
1/2		√		1	3.9	4.1	4.5	1.7	1.6	1.9	9	1.2
1/2			~		5.0	4.9	5.5	1.8	2.4	3.1	14	1.5
3/4		7			3.9	4.2	4.6	1.7	1.6	1.9	9	1.2
3/4			√		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			√		6.5	6.6	6.8	2.5	3.5	4.3	32	3.9
11/4		√			5.4	5.3	7.6	1.8	2.4	3.1	14	2.5
11/4			~		6.3	6.5	8.6	2.5	3.5	4.3	32	4.4
11/2		7			6.3	6.7	8.9	2.5	3.5	4.3	32	4.5
11/2			√		9.1	9.7	11.7	3.4	5.1	5.5	77	7.8
2			√		9.1	9.9	11.9	3.4	5.1	5.5	77	8.0
21/2			√	l	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
	TP075-050M	1.00	½ LO, ¾ LO, 1 XLO
	TP125-050M TP125-075M TP125-100M	1.04 1.16 1.29	½ STD, ¾ STD, 1 LO, 1¼ LO
MNPT (Male NPT Thread)	TP200-050M TP200-075M TP200-100M TP200-125M TP200-150M	1.04 1.16 1.39 1.85 1.89	1 STD, 1¼ STD, 1½ LO
()	TP250-100M TP250-125M TP250-150M TP250-200M	1.93 1.93 1.97 2.00	1½ STD, 2, 2½
	TP125-050F TP125-075F TP125-100F	1.00 1.00 1.20	½ STD, ¾ STD, 1 LO, 1¼ LO
FNPT	TP200-100F TP200-125F TP200-150F	1.61 1.57 1.16	1 STD, 1¼ STD, 1½ LO
(Female NPT Thread)	TP250-125F TP250-150F TP250-200F TP250-250F	1.77 1.97 1.36 1.74	1½ STD, 2, 2½
	TP075-050S	0.59	½ LO, ¾ LO, 1 XLO
	TP125-050S TP125-075S TP125-100S	0.60 0.85 1.00	½ STD, ¾ STD, 1 LO, 1¼ LO
SWT (Female Sweat)	TP200-075S TP200-100S TP200-125S TP200-150S	1.85 1.85 1.85 1.38	1 STD, 11/4 STD, 11/2 LO
	TP250-125S TP250-150S TP250-200S	1.69 1.97 1.65	1½ STD, 2, 2½
	TP125-050P TP125-075P TPA125-100P TPA125-125P	1.46 1.54 3.85 4.23	½ STD, ¾ STD, 1 LO, 1¼ LO
NexPress (C)	TP200-100P TPA200-125P TPA200-150P	1.58 3.70 3.63	1 STD, 1¼ STD, 1½ LO
	TPA250-150P TPA250-200P	4.44 4.07	1½ STD, 2, 2½

ORDER DATA	ORDER DATA				
Sample Part #:					
U M - 0 7 5 - S - 0 7 5 M - 0 4 0 - N					
Model Valve Trim UltraUM Size Fixed End Union End Flow Rate (GPM) Accessory Cap Option N = NO Optional 3rd Port Option Order Codes (Accessories)					

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



FLOW RATE SELECTIONS						
SIZE [inches]	PSID (range)	GPM (± 5.0%)				
½LO, ¾LO, 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				
7 ₂ LO, 7 ₄ LO, 1 XLO	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				
72 310, 74 310, 120, 174 20	5 - 50	9.0, 10.5				
1 STD , 11/4 STD, 11/2 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				
1½ STD, 2, 2½	2 - 45	25.0, 30.0, 35.0, 40.0, 45.0, 50.0, 55.0, 60.0, 65.0, 70.0				

П	ACCES	SOF		
			Order Code	Part No. Description
			С	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
			Ε.	ES-1, ES-2, ES-3. EXTENDED HANDLE Stationary housing for full-height vapor barrier
	devotate		Н	HT. HANGING TAG with Model No., Location, Flow Rate (Maximum 7 Characters)
			L	SL. SHORT LEVER HANDLE
			Х	PTE. PRES / TEMP TEST PLUG EXTENSION $1\%_{\rm f}$ " O.A.L.

MATERIALS	& DESIGN DATA
BODY, END PCS	HOT FORGED BRASS ASTM B283 (CAST BRASS: 1½" STD, 2", 2½"), 600 WOG, 325°F (NexPress: 200 PSIG, 250°F), INTERCHANGEABLE UNION END
HANDLE & NUT BALL BALL SEALS	ZINC PLATEDHARD CHROME PLATED BRASS / STAINLESS STEEL (optional)TEFLON
SHAFT SHAFT SEALS UNION SEAL	BRASS / STAINLESS STEEL (optional), BLOWOUT-PROOFDUAL FKM O-RINGSFKM O-RING
CAP SEAL	SKM O-RINGSKM O-RINGSTAINLESS STEEL MOVING PARTS IN BRASS HOUSING,
CARTRIDGE SEAL ACCURACY	REMOVABLE, PAT # 8517051 EPDM 5%

PROJECT
CONTRACTOR
PO/JOB NO.
ENGINEER
REPRESENTATIVE
DATE



UltraMatic TM Model UM Automatic Flow Control Valve w/ Accessory Port

(½" thru 1½" LO)

Valve Body available in FNPT, Sweat or NexPress

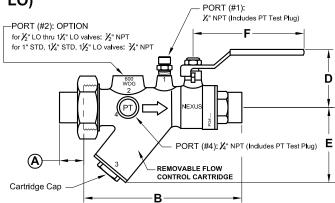
	DIMENSIONS [inches]											
SIZE [inches]	XLO	LO	STD	\bigcirc	F (NPT)	B S (sweat)	P (NexPress)	D	E	F	Cv (based on valve body only)	WT [lbs] (Tall Pleces & Nuts not Included)
1/2		√			3.9	4.1	4.5	1.7	1.6	1.9	9	1.2
1/2			√		5.0	4.9	5.5	1.8	2.4	3.1	14	1.5
3/4		√			3.9	4.2	4.6	1.7	1.6	1.9	9	1.2
3/4			√		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
11/4		√			5.4	5.3	7.6	1.8	2.4	3.1	14	2.5
11/4			√		6.6	6.8	8.9	2.5	3.5	4.3	32	4.4
11/2		√			6.6	7.0	9.2	2.5	3.5	4.3	32	4.5

TAIL PIECE OPTION	Nexus P/N	Lengths [inches]	Use with Valve Body size			
	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				
MNPT	TP200-050M	1.04 1.16				
(Male NPT Thread)	TP200-075M TP200-100M	1.16	1 STD, 11/4 STD, 11/2 LO			
(Male Will Tillead)	TP200-100M	1.85	1315, 174 315, 172 23			
	TP200-150M	1.89				
	TP125-050F	1.00				
	TP125-075F	1.00	½ STD, ¾ STD, 1 LO, 1¼ LO			
	TP125-100F	1.20				
FNPT	TP200-100F	1.61				
	TP200-125F	1.57	1 STD, 11/₄ STD, 11/₂ LO			
(Female NPT Thread)	TP200-150F	1.16	1310, 1/4310, 1/210			
	TP075-050S	0.59	½ LO, ¾ LO, 1 XLO			
	TP125-050S	0.60				
	TP125-075S	0.85	½ STD, ¾ STD, 1 LO, 1¼ LO			
	TP125-100S	1.00				
SWT	TP200-075S	1.85				
(Female Sweat)	TP200-100S	1.85	1 STD, 11/4 STD, 11/5 LO			
	TP200-125S	1.85	1015, 174 015, 172 20			
	TP200-150S	1.38				
	TP125-050P	1.46				
_	TP125-075P	1.54	½ STD, ¾ STD, 1 LO, 1¼ LO			
	TPA125-100P	3.85	72 31D, 74 31D, 1LO, 174 LO			
	TPA125-125P	4.23				
NexPress	TP200-100P	1.58				
1	TPA200-125P	3.70	1 STD, 1¼ STD, 1½ LO			
	TPA200-150P	3.63				

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			
7 ₂ LO, 7 ₄ LO, 1 XLO	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			
72310, 74310, 110, 17410	5 - 50	9.0, 10.5			
1 STD , 11/4 STD, 11/2 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			

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

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



MATERIALS	& DESIGN DATA
BODY, END PCS	HOT FORGED BRASS ASTM B283 600 WOG, 325°F (NexPress: 200 PSIG, 250°F), INTERCHANGEABLE UNION END
HANDLE & NUT	ZINC PLATED
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
	Α	AV-025. AUTOMATIC AIR VENT 250°F, 150 PSIG, positive shut-off, ¼" MNPT (Not available for: ½"LO, ¾"LO, 1"XLO)
	С	CV-1, CV-2. CHECK VALVE CV-1 for ½"LO, ¾"LO, 1" XLO; CV-2 for ½" STD, ½"STD, 1"LO, 1¼"LO; Center Guided, Non-Slam Check
	Е	ES-1, ES-2, ES-3. EXTENDED HANDLE Stationary housing for full-height vapor barrier
(tryslet)	Н	HT. HANGING TAG with Model No., Location, Flow Rate (Maximum 7 Characters)
	L	SL. SHORT LEVER HANDLE
	٧	MV-025. MANUAL AIR VENT 325°F, 400 PSIG, ¼" MNPT, Side Discharge
	x	MV-025L. MANUAL AIR VENT EXTENDED 325°F, 400 PSIG, ½" MNPT, Side Discharge, 2½" O.A.L PTE. PRES / TEMP TEST PLUG EXTENSION 1%s" O.A.L.

PROJECT
CONTRACTOR
PO/JOB NO.
ENGINEER
REPRESENTATIVE
DATE