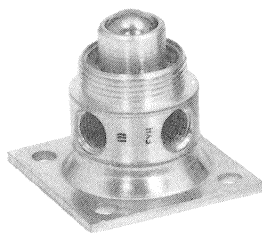


Humphrey Mechanical Valves

Humphrey mechanical valves are simple, reliable, compact, 2-way and 3-way valves providing high flow rates (full orifice throughout) and requiring no lubrication. A 125 Series valve has a full 0.125-inch orifice; a 250 Series valve has a full 0.250-inch orifice, providing nearly three times the flow of the 125 Series valves.



125B 125B-3-10-21
Model 125B is a 0.125-inch orifice, ball-operated valve that can be actuated from any angle. Its hardened steel ball is captive and free turning. The valve's short-stroke actuation is fully open at 0.031-inch; maximum stroke is 0.062-inch. The 125B can be mounted in-line, on mounting base, with panel mounting nuts, or with body threads.



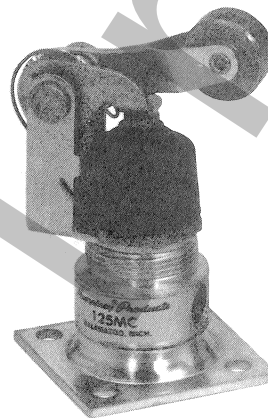
125B



125MP 125MP-3-10-20
Model 125MP is a 0.125-inch orifice valve actuated by a hardened plunger with spherical radius. The booted plunger may be actuated within $\pm 20^\circ$ of centerline. The valve's short-stroke actuation is fully open at 0.062-inch; maximum stroke is 0.187-inch. The 125MP can be mounted in-line, on mounting base, with panel mounting nuts, or with body threads.



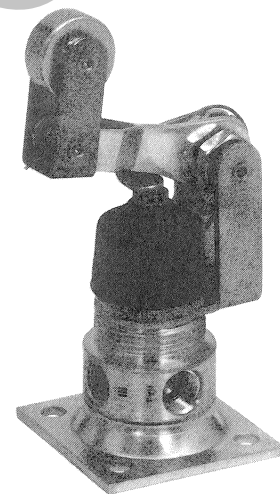
125MP MC MOC



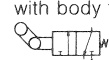
125MC 125MC-3-10-21
Model 125MC is a 0.125-inch orifice roller cam valve with steel roller. The valve has been dust booted for extra protection. The actuator can be positioned 360° and locked in place by a hex lock nut below boot. The actuator height is adjustable in increments of 0.18", 8", and 8.18" through a 270° range. The 125MC can be mounted in-line, on mounting base, or with body threads.



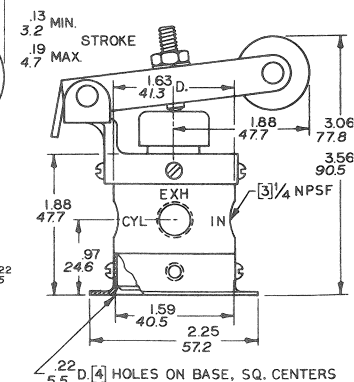
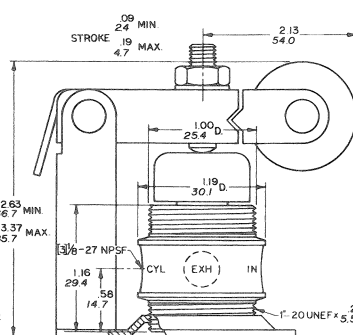
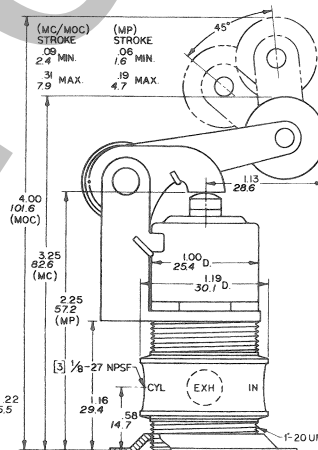
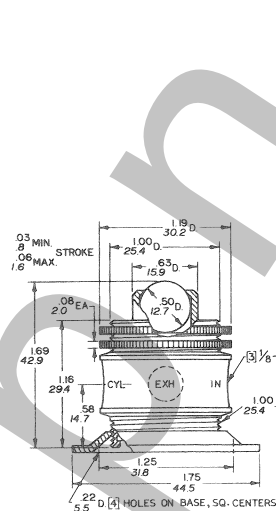
125C

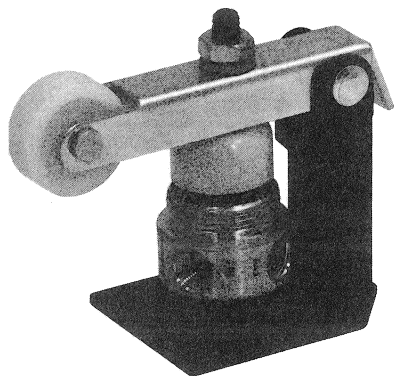


125MOC 125MOC-3-10-21
Model 125MOC is a 0.125-inch orifice valve actuated by a one-way roller cam with steel roller. The valve has been dust booted for extra protection. The actuator can be positioned 360° and locked in place by a hex lock nut below boot. The actuator height is adjustable in increments of 0.18", 8", and 8.18" through a 180° range. The 125MOC can be mounted in-line, on mounting base, or with body threads.



250C

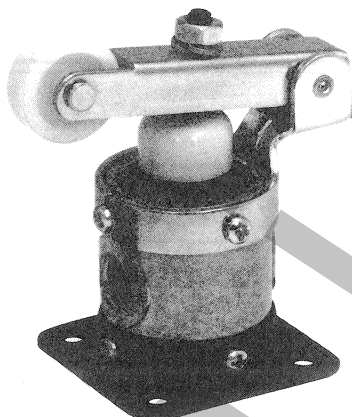




125C

125C-3-10-40

Model 125C is an economical 0.125-inch orifice roller cam valve. The roller (1" DIA x 3/8") and actuator button are fabricated of self-lubricating, non-sparking, high-impact nylon. Roller height is adjusted with screw and locknut. Furnished with mounting base. Do not exceed allowable stroke or strike adjusting-screw with cam.



250C

250C-3-10-21

Model 250C is an economical 0.250-inch orifice roller cam valve. The roller (1" DIA x 3/8") and actuator button are fabricated of self-lubricating, non-sparking, high-impact nylon. Roller height is adjusted with screw and locknut.

Both the actuator and the valve may be rotated on base in 90° increments. Do not exceed allowable stroke or strike adjusting-screw with cam.



Options for Humphrey Mechanical Valves

- Mounting Base, Code 21.
- Brass Body
- Fluoroelastomer diaphragms for resistance to mild chemicals and for sustained temperatures to 400°F (204.4°C) and intermittent temperatures to 600°F (315.5°C).
- Panel Mounting Nuts, Code 22. For 125B and 125MP only.
- Bottom inlet for normally closed models.

Specifications

MEDIA:

Compressed Air (Consult factory for others)

PRESSURE RANGE:

All 125s: 0 to 125 psig (0 to 8.6 bars)

All 250s: 0 to 125 psig (0 to 8.6 bars)

TEMPERATURE RANGE:

-20 to 225°F (-28.9 to 107.2°C)

MATERIALS:

All 125s: Zinc Die Cast, Zinc Plated Steel, Aluminum, Brass, Stainless Steel, Buna N, Nylon

All 250s: Zinc Die Cast, Zinc Plated Steel, Aluminum, Brass, Stainless Steel, Buna N

LUBRICATION Not required
FILTRATION Not required

Air Flow to Atmosphere

MODEL	25 PSIG CFM		(1.7 BARS) LPM		125 PSIG CFM		(8.6 BARS) LPM		Weight	
									ACTUAL LBS	KGS
125B	4.5		127.3		24.3		679.2		.21	.09
125MP									.28	.13
125MC									.41	.19
125MOC									.43	.20
125C									.43	.20
250C	25.0		707.5		75.0		2122.5		.80	.40

Fill/Exhaust Times (Seconds)

MODEL	SUPPLY PRESSURE							
	At 50 psig (3.5 bars)				At 100 psig (7.0 bars)			
	Chamber Fill 0-40 psig (0-2.8 bars)		Exhaust 50-10 psig (3.5-.7 bars)		Chamber Fill 0-80 psig (0-5.5 bars)		Exhaust 100-20 psig (7.0-1.4 bars)	
	10 Cubic Inches (164cc)		100 Cubic Inches (1640cc)		10 Cubic Inches (164cc)		100 Cubic Inches (1640cc)	
	FILL	EXHAUST	FILL	EXHAUST	FILL	EXHAUST	FILL	EXHAUST
All 125s	0.106	0.238	0.834	1.150	0.124	0.221	0.922	1.260
All 250s	0.032	0.044	0.312	0.433	0.033	0.059	0.324	0.565

Order Information

Manual/Mechanical

125/250/501 SERIES

1/8-, 1/4-, and 1/2-inch ports 2-way, 3-way, & 4-way

VALVES

	2 WAY	3 WAY	NORM. CLOSED	NORM. OPEN	W/OUT MOUNT. BASE	WITH MOUNT. BASE**	PANEL MOUNT. NUTS**	NYLON BUTTON	STEEL BUTTON	FKM*** Seals	BRASS BODY	BOTTOM INLET (N/C only)
OPTION CODE	2	3	10	11	20	21	22	40	41	VAI	BRB	BIN
MODEL												
125B	Specify	N/C	N/C	N/C	N/C	Specify	Specify	NA	NA	Specify	Specify	Specify
125C	Specify	N/C	N/C	N/C	NA	STD	NA	STD	NA	Specify	Specify	Specify
125HO	Specify	N/C	N/C	NA	N/C	Specify	Specify	NA	STD	Specify	Specify	Specify
125MC	Specify	N/C	N/C	N/C	N/C	Specify	NA	NA	STD	Specify	Specify	Specify
125MOC	Specify	N/C	N/C	N/C	N/C	Specify	NA	NA	STD	Specify	Specify	Specify
125MP	Specify	N/C	N/C	N/C	N/C	Specify	Specify	NA	STD	Specify	Specify	Specify
125P	Specify	N/C	N/C	N/C	N/C	Specify	Specify	STD	Specify	Specify	Specify	Specify
125PLG	NA	STD	STD	NA	NA	STD	STD	NA	NA	NA	Specify	Specify
125T	Specify	N/C	N/C	N/C	N/C	Specify	NA	NA	NA	Specify	Specify	Specify
125V	Specify	N/C	N/C	NA	N/C	Specify	Specify	NA	NA	Specify	Specify	Specify
250C	Specify	N/C	N/C	N/C	N/C	Specify	NA	STD	NA	Specify	Specify	Specify
250F*	Specify	N/C	N/C	N/C	NA	STD	NA	STD	NA	Specify	Specify	NA
250HO	NA	N/C	N/C	NA	N/C	Specify	NA	NA	NA	Specify	Specify	Specify
250P	Specify	N/C	N/C	N/C	N/C	Specify	NA	STD	NA	Specify	Specify	Specify
250PL	Specify	N/C	N/C	N/C	N/C	Specify	NA	NA	NA	Specify	Specify	Specify
250T	Specify	N/C	N/C	N/C	N/C	Specify	NA	NA	NA	Specify	Specify	Specify
250V	Specify	N/C	N/C	NA	N/C	Specify	NA	NA	NA	Specify	Specify	Specify
250-4F*	NA	NA	NA	NA	NA	STD	NA	STD	NA	Specify	NA	NA
250-4H	NA	NA	NA	NA	STD	Specify	NA	STD	NA	Specify	NA	NA
501V	Specify	N/C	NA	NA	N/C	Specify	NA	NA	NA	Specify	NA	NA

*Model 250F and -4F may be ordered without guard.

**Mounting accessories can be ordered separately. Contact your distributor.

***Fluoroelastomer

HOW TO ORDER

Starting with Model Number specify options in order from left to right.

Example: To order Model 250P:

3-Way Operation (250P-3);

Normally Open (250P-3-11);

Mounting Base (250P-3-11-21);

With Viton Seals (250P-3-11-21 w/VAI); this is the complete Model Number.

Remember: Option Codes marked STD, NA are not used as part of the Model Number when ordering. N/C indicates no charge but Option Code must be included in the Model Number.

N/C = No charge

STD = Standard

NA = Not available

Specify = Additional charge for this option