

These compact air valves provide economical cam, fingertip, palm, hand, and foot actuation. 3-way models are ideal for actuating single-acting cylinders and 4-way directional valves. 4-way models are suitable for the control of double-acting cylinders. Three types of spool designs are available.

**General Specifications**

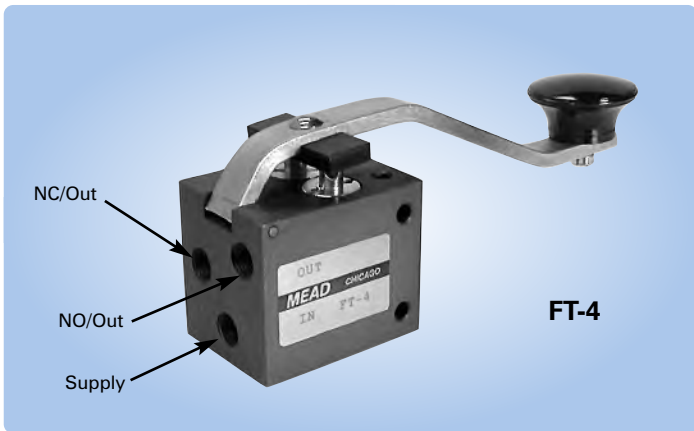
- Media:** Air to 150 PSI
- Temperature Range:** -40°F to +250°F
- Cam Buttons:** Hardened Steel
- Spring:** Stainless Steel
- Seals:** Buna
- Body:** Machined Aluminum
- Body (4B-1, 4W-1, 201 and 3C-1):** Die Cast Zinc



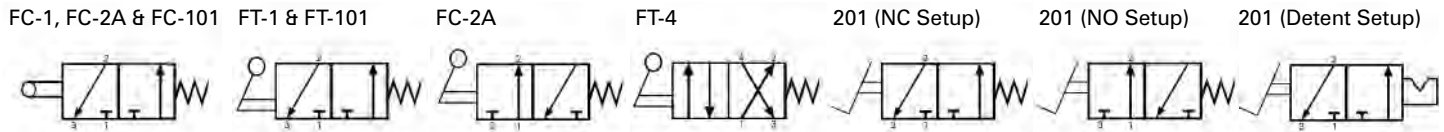
**Poppet Spool Type**

A high degree of reliability is achieved by these valves with the simple, yet efficient, poppet type design. A short operating stroke assures instantaneous response while minimizing operator fatigue.

Model Number	Actuator	Style	Port (NPT)	Flow (Cv)	Pre-Travel	Over Travel	Force Req. @ 100 PSI
FC-1	Cam Button	3-Way NC	1/8"	0.13	3/64"	None	17lbs.
FC-2A	Cam Button	3-Way NO	1/8"	0.32	1/8"	1/8"	11lbs.
FC-101	Cam Button	3-Way NC	3/8"	1.15	1/16"	None	30lbs.
FT-1	Fingertip Lever	3-Way NC	1/8"	0.13	1/4"	None	4lbs.
FT-2A	Fingertip Lever	3-Way NO	1/8"	0.32	7/8"	1/8"	2lbs.
FT-4	Fingertip Lever	4-Way	1/8"	0.16	7/8"	None	3lbs.
FT-101	Fingertip Lever	3-Way NC	3/8"	1.15	3/16"	None	8lbs.
201	Foot Treadle	3-Way	3/8"	1.15	5/8"	None	7 1/2 lbs.

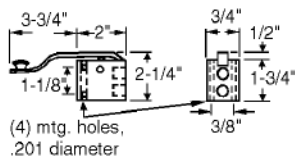


**Valve Symbols**

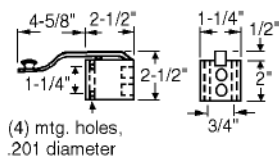


**Dimensions**

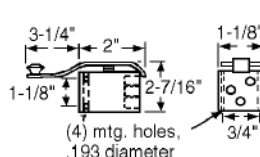
**Models FC-1, & FC-2A, FT-1, FT-2A**



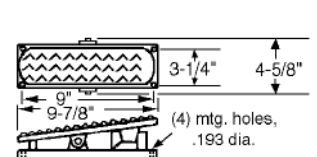
**Models FC-101 & FT-101**



**Model FT-4**

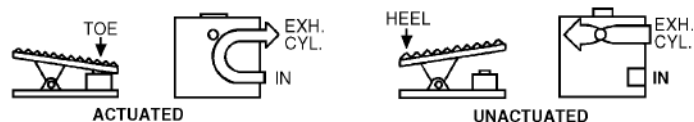


**Model 201**



**Flow Patterns**

**Model 201**



Model 201 may be adjusted in seconds during installation to be detented or spring return. The valve may be set up as either normally open or normally closed for spring return operation.



201

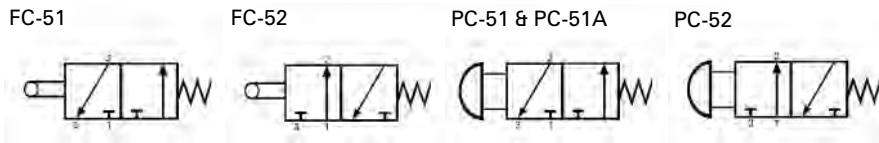


Balanced Spool Type

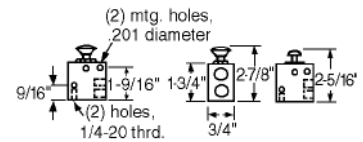
Actuating Force remains constant regardless of air pressure due to the balanced spool design. This series is particularly suited for use in situations where a high rate of flow is required through a 3-Way cam or palm button valve. Additionally the spool design eliminates the momentary loss of pressure due to valve shifting.

Model Number	Actuator	Style	Port (NPT)	Flow (Cv)	Pre-Travel	Over Travel	Force Req. @ 100 PSI
FC-51	Cam Button	3-Way NC	1/8"	0.81	1/8"	1/8"	7lbs.
FC-52	Cam Button	3-Way NO	1/8"	0.68	1/8"	1/8"	5lbs.
PC-51	Palm Button Spr. Ret.	3-Way NC	1/8"	0.81	1/8"	1/8"	7lbs.
PC-51A	Palm Button Detent	3-Way NC	1/8"	0.81	1/8"	1/8"	3lbs.
PC-52	Palm Button	3-Way NO	1/8"	0.68	1/8"	1/8"	5lbs.

Valve Symbols



Dimensions



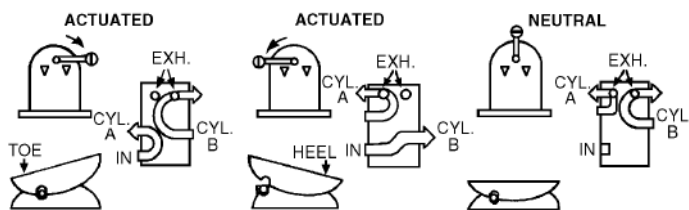
Spool Type - Rugged Conditions

Time-tested reliability is the trademark of these valves. Due to the unique design, performance is not greatly affected by the use of unclean air and operation in chip and dirt-ridden environments.

Model Number	Actuator	Style	Port (NPT)	Flow (Cv)	Pre-Travel	Over Travel	Force Req. @ 100 PSI
3C-1	Cam Button	3-Way NC	1/4"	0.48	1/16"	None	9lbs.
4B-1	Hand	4-Way	1/4"	0.48	5/8"	None	5lbs.
4W-1	Foot Treadle	4-Way	1/4"	0.48	5/16"	None	18lbs.

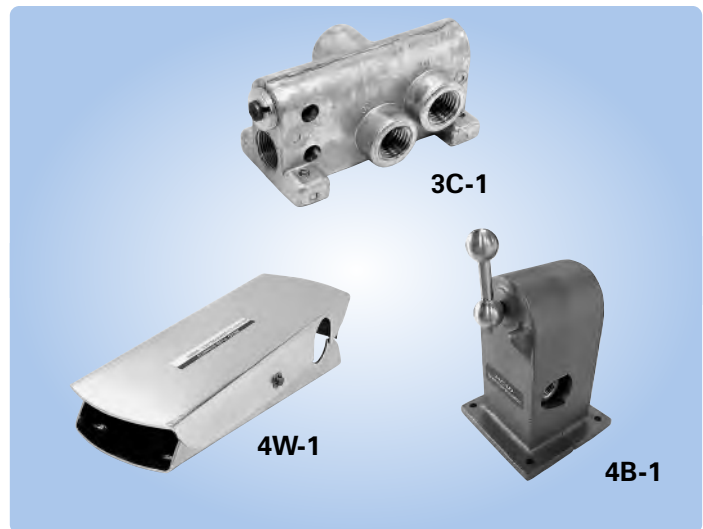
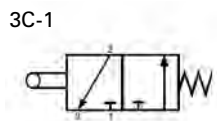
Flow Patterns

Models 4B-1 and 4W-1

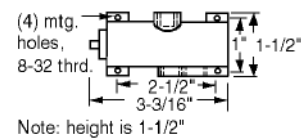


Note: In neutral, cylinder ports are dumped to atmosphere.

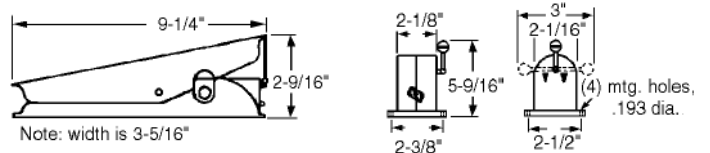
Valve Symbols



Dimensions



Note: height is 1-1/2"



Note: width is 3-5/16"