

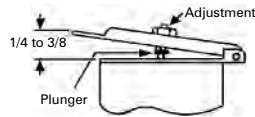


Light-Touch, Snap-Acting Control Valves

Mead's LTV valves are compact 1/8" ported 4-way valves that may be actuated by hand, remote air signal, electric signal or mechanically by a machine element. They are ideal for powering small or medium sized cylinders and for piloting larger valves. Some models require as little as 4 ounces of force and .010" of plunger travel to actuate. See the chart on the opposite page for individual valve specifications.

Micrometer Trip Position Adjustment Available On LTV-10, LTV-15 and LTV 20

An optional screw adjustment on the valve lever allows the user precision control of the valve actuator. Specify LTV-10A, LTV-15A, or LTV-20A.



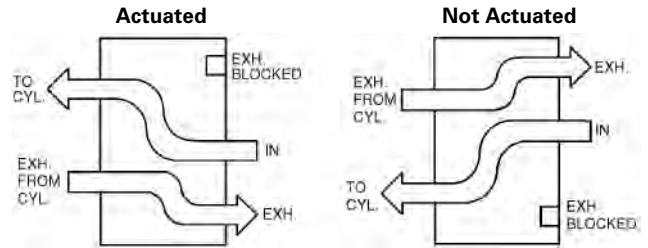
DIN Solenoid Connectors

Electrically actuated LTV valves utilize DIN type solenoids. DIN solenoids feature a totally encapsulated coil with 3 prongs, allowing fast and easy connections. DIN connectors are ordered separately. Mead offers 3 types of DIN connectors to facilitate connections to the solenoid. A full description of these connectors can be found on page 68.



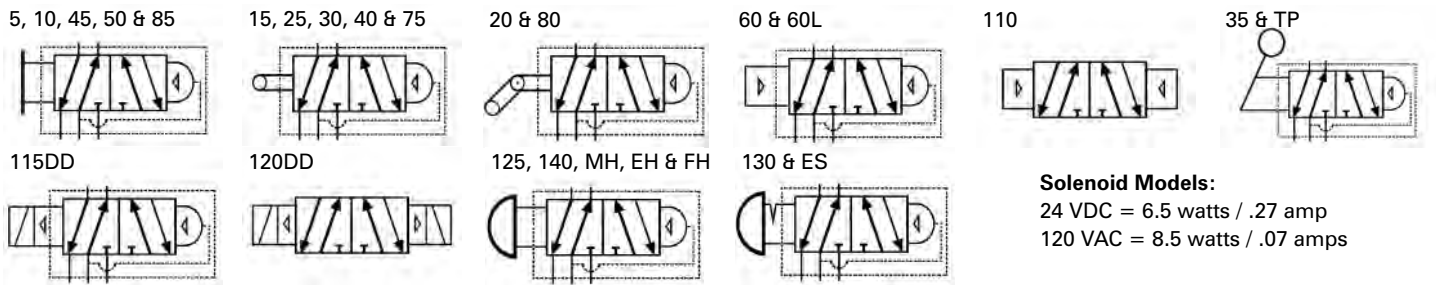
LTV Flow Patterns

For all models, except LTV-60, which is opposite.



General Specifications	
Pressure Range:	25 to 125 PSI (Solenoid models to 100 PSI)
Temperature:	0°F to 115°F
Flow:	0.24 C _v
Flow at 100 PSI:	14 SCFM
Ports:	1/8" NPT Standard; LTV-60 and LTV-110 pilot ports are 10-32
Lubrication:	Petroleum Base Oil
Filtration:	40 Micron Minimum
Body:	Cast Aluminum
Seals:	Buna N
Spool:	Aluminum
Response:	20-30 ms

Valve Symbols (Only Model Numbers are indicated.)



LTV-35*
Flip Toggle

LTV-40*
Ball Roller

LTV-45*
Straight Plunger

LTV-50
Fingertip Lever

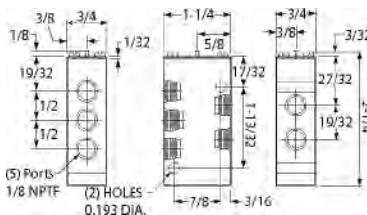
LTV-60, Single Pressure
LTV-110, Double Pressure

LTV-60L
Low Pressure



* For 15/32" panel openings;
15/32-32 UNS

Basic Dimensions



Note: Envelope dimensions of valves with actuators are shown in the chart on the right.

LTV Valve Stacks

Stacked valves reduce piping requirements by eliminating the need for a separate air supply to each valve. All LTV valves are stackable except LTV-75, 80, 85, 140, MH, TP, EH, FH & ES. When LTV-50, LTV-115DD or LTV-120DD valves are stacked 1/4" spacers are added between valves. To order, add "M" to the model number, specify number, type and position of valves.



Solenoids shown here with connector PVD1 (sold separately)

Model	Actuator	Return	Act. Force @ 80 PSI	Act. Stroke Distance (")	Leng. (")	Width (")	Hgt. (")	
				Full Open	Over Travel			
LTV-5	Pin Plunger	Air Spring	13 oz.	.016	.094	1 1/4	3/4	2 3/8
LTV-10	Straight Leaf	Air Spring	5.5 oz.	.016	.156	2 3/32	3/4	2 1/2
LTV-10A	Adjustable Leaf	Air Spring	5.5 oz.	.016	.156	2 3/32	3/4	2 5/8
LTV-15	Roller Leaf	Air Spring	5.5 oz.	.016	.156	2 5/32	3/4	2 7/8
LTV-15A	Adjustable Roller Leaf	Air Spring	5.5 oz.	.016	.156	2 5/32	3/4	3
LTV-20	1-Way Roller Leaf	Air Spring	5.5 oz.	.016	.156	2 3/32	3/4	3 11/32
LTV-20A	Adjustable Roller Leaf	Air Spring	5.5 oz.	.016	.156	2 3/32	3/4	3 15/32
LTV-25	Roller Plunger	Air Spring	13 oz.	.016	.094	1 1/4	3/4	3 5/8
LTV-30	Cross Plunger	Air Spring	13 oz.	.016	.094	1 1/4	3/4	3 5/8
LTV-35	Flip Toggle	Detent	9.25 oz.	30°	-	1 1/4	3/4	3 25/32
LTV-40	Ball Roller	Air Spring	13 oz.	.016	.094	1 1/4	3/4	3 1/32
LTV-45	Straight Plunger	Air Spring	13 oz.	.016	.094	1 1/4	3/4	3 11/32
LTV-50	Fingertip Lever	Air Spring	5.5 oz.	.016	.156	2 17/32	3/4	2 11/16
LTV-60+	Single Pressure~	Air Spring	-	-	-	1 1/4	3/4	2 11/32
LTV-60L*	Low Pressure	Air Spring	-	-	-	1 1/4	3/4	3 3/32
LTV-75	Heavy-Duty Roller	Air Spring	14 oz.	.031	.313	2 7/32	3/4	4 5/32
LTV-80	Heavy-Duty 1-Way Roller	Air Spring	14 oz.	.031	.313	2 13/32	3/4	4 15/32
LTV-85	Heavy-Duty Extended Rod	Air Spring	4 oz.	.125	.500	6 1/4	3/4	3 17/32
LTV-90	Adjustable Roller Leaf	Air Spring	5.5 oz.	.016	.156	2 5/32	3/4	3
LTV-110	Double Pressure~	Ext. Air Pilot	-	-	-	1 1/4	3/4	2 11/32
LTV-115DD**	Solenoid (DIN)	Air Spring	-	-	-	1 5/8	7/8	3 9/32
LTV-120DD**	Solenoid (DIN)	Solenoid	-	-	-	1 5/8	7/8	4 19/32
LTV-125	Knob	Air Spring	13 oz.	.016	-	1 1/4	5/8	3 19/32
LTV-130	Knob	Detent	2 lbs.	.094	.125	1 1/4	5/8	3 9/32
LTV-140	Palm	Air Spring	13 oz.	.016	.094	1 3/8	1 3/8	3 25/32
LTV-MH ^	Mushroom Head	Air Spring	1 lb.	.218	.047	1 5/8	1 5/8	4 3/16
LTV-TP	Two Position	Detent	-	-	-	1 5/8	1 5/8	4 5/16
LTV-EH ^	Extended Head	Air Spring	-	.218	.049	1 5/8	1 5/8	3 13/16
LTV-FH ^	Flush Head	Air Spring	-	.218	.049	1 5/8	1 5/8	3 3/4
LTV-ES	Emergency Stop (Red)	Detent	2 lbs.	.218	.125	2 1/2	2 1/2	4 9/32

* Minimum pilot pressure of 25 PSI required.

** Specify voltage: 12DC, 24DC, 24AC or 120AC

^ Specify actuator color: red, green or black

+ Pilot pressure must equal at least 60% of inlet pressure.

~ 10-32 pilot port

LTV-140*
Palm

LTV-MH**
Mushroom Head

LTV-TP**
Two Position
Detent

LTV-EH**, Extended Head
LTV-FH**, Flush Head

LTV-ES, Emergency Stop



* For 15/32" panel openings;
15/32-32 UNS ** For 1 3/16" panel openings