

Quality Design

The compact ES valve, like Clippard EV and ET valves, converts low voltage, low current signals into high pressure (0 to 7 bar) pneumatic outputs, utilizing a unique, patented, valving principle. Since there are no sliding parts, and complete poppet travel is only 0.18 mm, low power consumption and exceptionally long life are assured with this design. No flow is required for cooling because the compact ES is cool, as well as quiet, in operation.

The compact nature of design makes this valve well suited to a wide range of applications in biomedical, environmental test equipment, textile machines, packaging machinery, computerized industrial automation, and portable systems.

Nominal			Power	Working range
Voltage	Current (amps)	Resistance (ohms)	(watts)	(cont. duty)
12	0.083	144	1	90 to 120% of rated voltage
24	0.042	576	1	



Numbering System						
Base	Electrical Connection	Valve Type	Coil Connection	Voltage	Orifice Code = Pressure Max.	Air Flow
M	ES Blank - Normally-Closed	2 - 2/2	S - Side Pin	12 - VDC	Blank mm dia. = 7 bar (A0)	17 l/min.
	ESO - Normally-Open or Captivated Exhaust	3 - 3/2	T - Top Pin W - Wires B - Board Mount	24 - VDC	L mm dia. = 3.5 bar (50) H mm dia. = 1.8 bar (25)	15 l/min. 13 l/min.
M - ESO - 3 S - 24 - L						

Features:

- Medium: Air (40 micron filtration)
- Low power consumption - 1 watt at rated voltage
- Temperature Range: 0° to 66°C
- Response: 5 to 10 milliseconds at max rated pressure
- Close mounting - 22.5 mm on center
- Voltage Options: 12 or 24 VDC
- Overall height less than 28 mm
- Easy to mount on manifold with two M3 screws
- Geometric design
- Polymer housing - Zytel ST 801® super tough
- Pin connectors - AMP # 103959-2 or 1.2 m wire; leads: #26 wire
- Flow up to 17 l/min.

