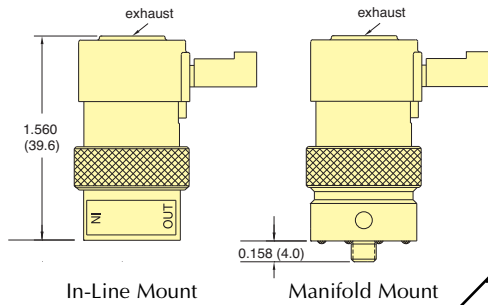
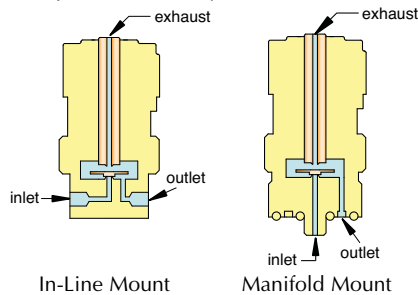


# 3-WAY NORMALLY-CLOSED VALVES, IN-LINE & MANIFOLD



		Pressure Range			Voltage		Part No.	
		Vac. to 105 psig +			Vac. to 50 psig		In-Line Mount	Manifold Mount
		Vac. to 25 psig			12 VDC			
		24 VDC						
 In-Line Mount	 0.025" Pin Connector	•			•		<u>*EC-3-12</u>	<u>*EC-3M-12</u>
		•			•	•	<u>*EC-3-24</u>	<u>*EC-3M-24</u>
			•			•	<u>*EC-3-12-L</u>	<u>*EC-3M-12-L</u>
			•			•	<u>*EC-3-24-L</u>	<u>*EC-3M-24-L</u>
				•		•	<u>*EC-3-12-H</u>	<u>*EC-3M-12-H</u>
			•			•	<u>*EC-3-24-H</u>	<u>*EC-3M-24-H</u>
 Spade Terminals	 Spade Terminals	•			•		<u>*ET-3-12</u>	<u>*ET-3M-12</u>
		•			•	•	<u>*ET-3-24</u>	<u>*ET-3M-24</u>
			•			•	<u>*ET-3-12-L</u>	<u>*ET-3M-12-L</u>
			•			•	<u>*ET-3-24-L</u>	<u>*ET-3M-24-L</u>
				•		•	<u>*ET-3-12-H</u>	<u>*ET-3M-12-H</u>
			•			•	<u>*ET-3-24-H</u>	<u>*ET-3M-24-H</u>
 Wire Leads Side (Radial)	 Wire Leads Side (Radial)	•			•		<u>*EV-3-12</u>	<u>*EV-3M-12</u>
		•			•	•	<u>*EV-3-24</u>	<u>*EV-3M-24</u>
			•			•	<u>*EV-3-12-L</u>	<u>*EV-3M-12-L</u>
			•			•	<u>*EV-3-24-L</u>	<u>*EV-3M-24-L</u>
				•		•	<u>*EV-3-12-H</u>	<u>*EV-3M-12-H</u>
			•			•	<u>*EV-3-24-H</u>	<u>*EV-3M-24-H</u>
 Wire Leads Top (Axial)	 Wire Leads Top (Axial)	•			•		<u>*EW-3-12</u>	<u>*EW-3M-12</u>
		•			•	•	<u>*EW-3-24</u>	<u>*EW-3M-24</u>
			•			•	<u>*EW-3-12-L</u>	<u>*EW-3M-12-L</u>
			•			•	<u>*EW-3-24-L</u>	<u>*EW-3M-24-L</u>
				•		•	<u>*EW-3-12-H</u>	<u>*EW-3M-12-H</u>
			•			•	<u>*EW-3-24-H</u>	<u>*EW-3M-24-H</u>

- Medium:** Clean, dry air (40 micron filter)
- Power Consumption:** 0.67 watt (CR Series: 1.2 watt)
- Temperature Range:** 32 to 180°F (0 to 82°C), CR Series: 32 to 150°F (0 to 64°C)
- Response:** 5 to 10 milliseconds (nominal)
- Operating Range:** 90 to 150% of rated voltage (CR Series: ±10%)
- Ports:** #10-32 (M5 optional), in-line only



Valve Series (*)	Standard	Non-Standard
Standard	(blank)	
Oxygen Clean	O-	See Pages 173 & 174 for further information
Analytical Series**	A-	
Corrosion-Resistant (not std. on "EW")	CR-	
Options (add to end of Part No.)		
FKM Seals	-V	
EPR Seals		-E
Silicone Seals		-S
Diode		-D
Metric Ports (in-line)	-M5	

Pressure Range	Orifice	Air Flow
28" Hg Vac. to 105 psig <i>*call for special configurations</i>	0.025"	0.6 scfm @ 100 psig (17 l/min @ 7 bar)
28" Hg Vac. to 50 psig	0.040" (-L)	0.5 scfm @ 50 psig (14 l/min @ 3.5 bar)
28" Hg Vac. to 25 psig	0.060" (-H)	0.45 scfm @ 25 psig (13 l/min @ 1.8 bar)

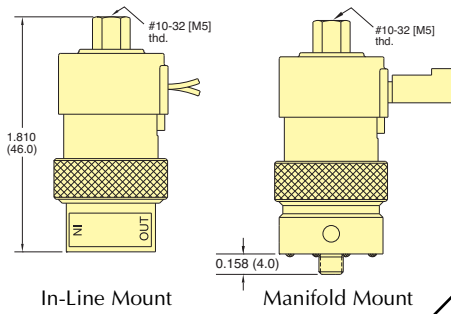
Example Part No's:  
ET-3-12-S  
O-EW-3-24

See Page 175 for mounting options

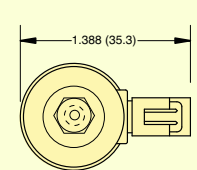

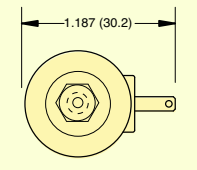
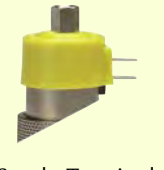
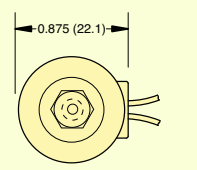

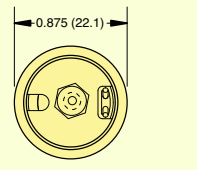
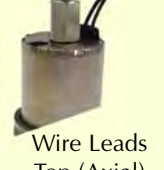
\*\* Available on manifold mount valves only



# 3-WAY FULLY-PORTED VALVES, IN-LINE & MANIFOLD



Part No.

		Pressure Range		Voltage		In-Line Mount	Manifold Mount	
		Vac. to 105 psig +	Vac. to 50 psig	Vac. to 25 psig	12 VDC	24 VDC		
 0.025" Pin Connector		•	•	•	•	•	*ECO-3-12 *ECO-3-24	*ECO-3M-12 *ECO-3M-24
		•	•	•	•	•	*ECO-3-12-L *ECO-3-24-L	*ECO-3M-12-L *ECO-3M-24-L
 Spade Terminals		•	•	•	•	•	*ETO-3-12 *ETO-3-24	*ETO-3M-12 *ETO-3M-24
		•	•	•	•	•	*ETO-3-12-L *ETO-3-24-L	*ETO-3M-12-L *ETO-3M-24-L
 Wire Leads Side (Radial)		•	•	•	•	•	*EVO-3-12 *EVO-3-24	*EVO-3M-12 *EVO-3M-24
		•	•	•	•	•	*EVO-3-12-L *EVO-3-24-L	*EVO-3M-12-L *EVO-3M-24-L
 Wire Leads Top (Axial)		•	•	•	•	•	*EWO-3-12 *EWO-3-24	*EWO-3M-12 *EWO-3M-24
		•	•	•	•	•	*EWO-3-12-L *EWO-3-24-L	*EWO-3M-12-L *EWO-3M-24-L
		•	•	•	•	•	*EWO-3-12-H *EWO-3-24-H	*EWO-3M-12-H *EWO-3M-24-H

**Medium:** Clean, dry air (40 micron filter)

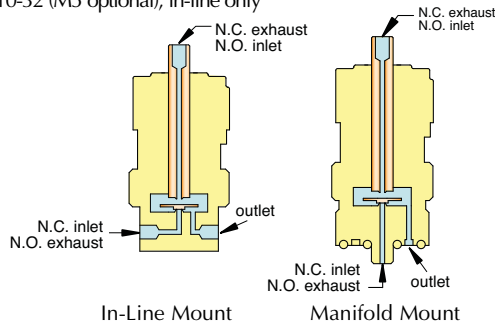
**Power Consumption:** 0.67 watt (CR Series: 1.2 watt)

**Temperature Range:** 32 to 180°F (0 to 82°C)  
CR Series: 32 to 150°F (0 to 64°C)

**Response:** 5 to 10 milliseconds (nominal)

**Operating Range:** 90 to 150% of rated voltage (CR Series: ±10%)

**Ports:** #10-32 (M5 optional), in-line only



Valve Series (*)	Standard	Non-Standard
Standard	(blank)	
Oxygen Clean	O-	See Pages 173 & 174 for further information
Analytical Series**	A-	
Corrosion-Resistant (not std. on "EWO")	CR-	
Options (add to end of Part No.)		
FKM Seals	-V	
EPR Seals		-E
Silicone Seals		-S
Diode		-D
Metric Ports (in-line)	-M5	

Example Part No's:  
ETO-3M-24-D  
CR-EVO-3-12

See Page 175 for mounting options

\*\* Available on manifold mount valves only

Pressure Range	Orifice	Air Flow
28" Hg Vac. to 105 psig +call for special configurations	0.025"	0.6 scfm @ 100 psig (17 l/min @ 7 bar)
28" Hg Vac. to 50 psig	0.040" (-L)	0.5 scfm @ 50 psig (14 l/min @ 3.5 bar)
28" Hg Vac. to 25 psig	0.060" (-H)	0.45 scfm @ 25 psig (13 l/min @ 1.8 bar)