E & EH Series – Subminiature Gas

- MOPD: 175 PSI (12 Bar)
- C_V Range: 0.018 to 0.070 (K_V Range: 0.015 to 0.060)
- 0.65 Watts or 2 Watts

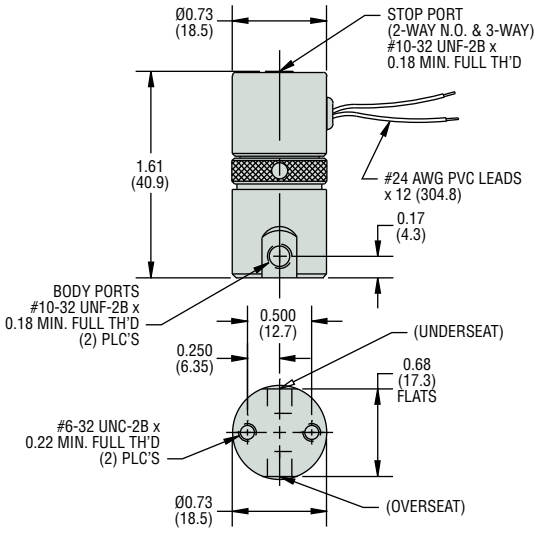
A 2- or 3-way sub-miniature solenoid valve that delivers faster response times—and higher flow rates, the E & EH Series is specifically engineered for air and dry gas applications. A nickel-plated body and coil housing construction produces a highly durable, corrosion resistant valve. With a wattage range of 0.65–2 the E & EH Series provides versatility for power conserving, high pressure, and high flow applications.

Typical Applications

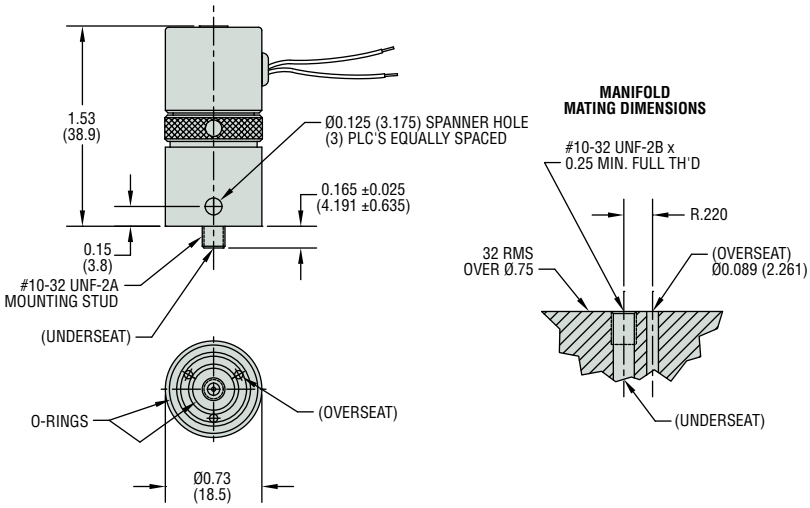
- Medical and Respiratory Healthcare
- Printing Machinery and Sorting Equipment
- Automated Packaging Equipment
- Air Monitoring Systems

Dimensions

Threaded Port Body



Manifold Mount Body



How To Order

Use the **Bold** characters from the choices listed on the following page to construct a product code.

E2010 - W24-1 - V - V0 - 24VDC - 0C

1	2	3	4	5	6	7	8
Primary Prefix	Coil Construction	Body Material*	Plunger Seal Material	O-Ring Material	Body Port Configuration*	Voltage	Additional Options

* Blank entry indicates a "Standard" selection (#10-32 straight thread ports, in this case).

Example:

E2010-W24-1-V-V0-24VDC-0C

E-Series 2-Way N.C. solenoid valve, with 24″ (61cm) lead-wires from an encapsulated coil, nickel-plated brass body, Viton® plunger seal, Viton® o-ring, #10-32 straight thread ports, operating at 24 VDC, and is cleaned for oxygen use.

Part Prefix Table ①

	Power Rating	Orifice				MOPD		C_v		K_v		① Primary Prefix
		Body		Stop								
		inches	mm	inches	mm	psig	bar	Body	Stop	Body	Stop	
2-WAY N.C.	0.65W	1/32	0.79	—	—	125	9	0.018	—	0.015	—	**E2010**
		3/64	1.19	—	—	70	5	0.023	—	0.020	—	**E2011**
		1/16	1.59	—	—	40	3	0.036	—	0.031	—	**E2012**
		5/64	1.98	—	—	20	1	0.070	—	0.060	—	**E2013**
	2W	1/32	0.79	—	—	175	12	0.018	—	0.015	—	**EH2010**
		3/64	1.19	—	—	150	10	0.023	—	0.020	—	**EH2011**
		1/16	1.59	—	—	100	7	0.036	—	0.031	—	**EH2012**
		5/64	1.98	—	—	50	3	0.070	—	0.060	—	**EH2013**
2-WAY N.O.	0.65W	—	—	1/32	0.79	125	9	—	0.018	—	0.015	**E2210**
		—	—	3/64	1.19	70	5	—	0.023	—	0.020	**E2211**
		—	—	1/16	1.59	40	3	—	0.032	—	0.027	**E2212**
	2W	—	—	1/32	0.79	175	12	—	0.018	—	0.015	**EH2210**
		—	—	3/64	1.19	150	10	—	0.023	—	0.020	**EH2211**
		—	—	1/16	1.59	100	7	—	0.032	—	0.027	**EH2212**
3-WAY N.C. Line Connection	0.65W	1/32	0.79	1/32	0.79	125	9	0.018	0.018	0.015	0.015	**E3110**
		3/64	1.19	3/64	1.19	70	5	0.023	0.023	0.020	0.020	**E3111**
		1/16	1.59	1/16	1.59	40	3	0.036	0.032	0.031	0.027	**E3112**
	2W	1/32	0.79	1/32	0.79	175	12	0.018	0.018	0.015	0.015	**EH3110**
		3/64	1.19	3/64	1.19	150	10	0.023	0.023	0.020	0.020	**EH3111**
		1/16	1.59	1/16	1.59	100	7	0.036	0.032	0.031	0.027	**EH3112**
3-WAY N.O.	0.65W	1/32	0.79	1/32	0.79	125	9	0.018	0.018	0.015	0.015	**E3210**
		3/64	1.19	3/64	1.19	70	5	0.023	0.023	0.020	0.020	**E3211**
		1/16	1.59	1/16	1.59	40	3	0.036	0.032	0.031	0.027	**E3212**
	2W	1/32	0.79	1/32	0.79	175	12	0.018	0.018	0.015	0.015	**EH3210**
		3/64	1.19	3/64	1.19	150	10	0.023	0.023	0.020	0.020	**EH3211**
		1/16	1.59	1/16	1.59	100	7	0.036	0.032	0.031	0.027	**EH3212**
3-WAY Multi Purpose	0.65W	1/32	0.79	1/32	0.79	80	6	0.018	0.018	0.015	0.015	**E3310**
		3/64	1.19	3/64	1.19	40	3	0.023	0.023	0.020	0.020	**E3311**
		1/16	1.59	1/16	1.59	20	1	0.036	0.032	0.031	0.027	**E3312**
	2W	1/32	0.79	1/32	0.79	150	10	0.018	0.018	0.015	0.015	**EH3310**
		3/64	1.19	3/64	1.19	100	7	0.023	0.023	0.020	0.020	**EH3311**
		1/16	1.59	1/16	1.59	50	3	0.036	0.032	0.031	0.027	**EH3312**
3-WAY Directional Control	0.65W	1/32	0.79	1/32	0.79	135	9	0.018	0.018	0.015	0.015	**E3410**
		3/64	1.19	3/64	1.19	80	6	0.023	0.023	0.020	0.020	**E3411**
		1/16	1.59	1/16	1.59	45	3	0.036	0.032	0.031	0.027	**E3412**
	2W	1/32	0.79	1/32	0.79	190	13	0.018	0.018	0.015	0.015	**EH3410**
		3/64	1.19	3/64	1.19	165	11	0.023	0.023	0.020	0.020	**EH3411**
		1/16	1.59	1/16	1.59	80	6	0.036	0.032	0.031	0.027	**EH3412**

Gems specializes in the design and manufacturing of custom solenoid valves and fluidic systems. If you don't see what you're looking for, or have a question, contact us at 800-378-1600 or info@gemssensors.com.

② Coil Construction
- **(blank)** = Tape-wrapped, Class B (130°C), with 12˝ (30.5cm) lead wires*
- **W__** = Lead-wires, non-standard length (specify in inches)
- **10** = Externally rectified coil for AC voltages (2 watt and lead wires only)
- **1** = Encapsulated coil, Class B (130°C), lead wires
- **5** = Encapsulated coil, Class B (130°C), .110˝ spade terminals

③ Body Material
- **(blank)** = Nickel-plated brass*

④ Plunger Seal Material
- **(blank)** = Nitrile*
- **V** = Viton®
- **E** = EPR
- **MQ** = Silicone

⑤ O-Ring Material
- **(blank)** = Nitrile*
- **VO** = Viton®
- **EO** = EPR
- **MQO** = Silicone

⑥ Body Port Configuration
- **(blank)** = #10-32 straight thread ports*
- **BM** = M5 x 0.8 ports
- **MM** = Manifold mount with #10-32 threaded stud†
- **MM2** = Manifold mount with M5 x 0.8 threaded stud†
- **BO** = Bottom under-seat port – max orifice = 1/16˝ (1.59mm)

⑦ Voltage
- **___VDC** = DC (specify voltage)
- **___VAC** = AC rectified 2-watt only (specify voltage)

⑧ Additional Options
- **OC** = Cleaned for oxygen use
- **QO** = Quiet operation (2-way N.C.)
- **VAC** = Vacuum application – 0 to 29.5˝ Hg (0 to 1000 mBar)

* Standard selection; will be used unless otherwise specified. Standard selections are not referenced in final part number.

† Teflon® o-ring not suitable for manifold mount.

SOLENOID VALVES