E 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

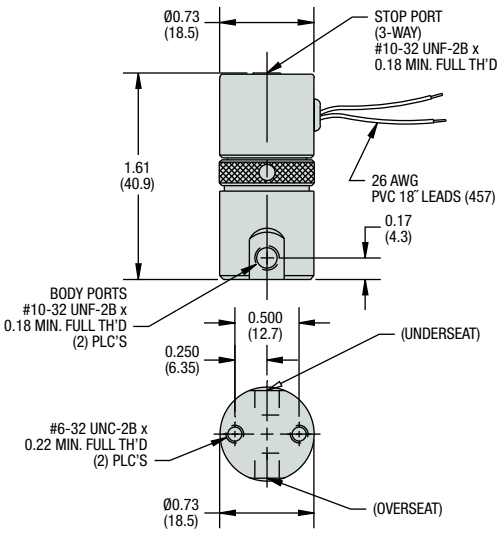
A 2- or 3-way sub-miniature solenoid valve that delivers faster response times—and higher flow rates, the E Series is specifically engineered for air and dry gas applications. A nickel-plated body and coil housing construction produces a highly durable, corrosion resistant valve. With a wattage range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

Typical Applications

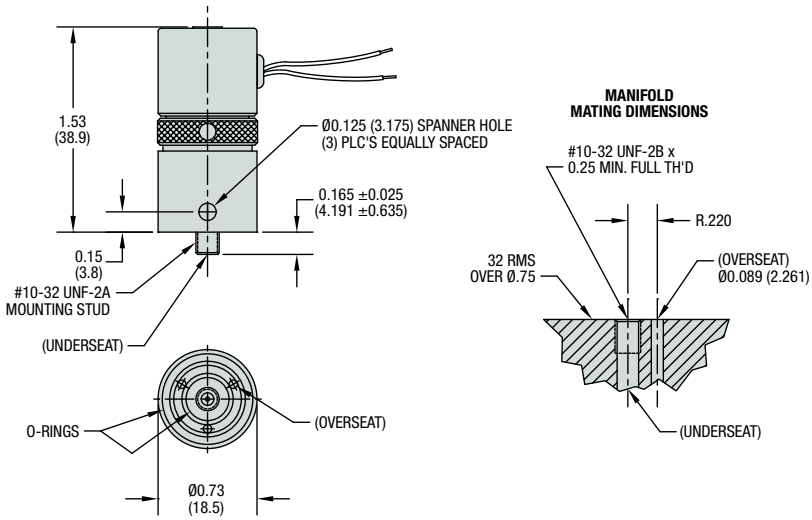
- Medical and Respiratory Healthcare
- Printing Machinery and Sorting Equipment
- Automated Packaging Equipment
- Air Monitoring Systems

Dimensions

Threaded Port Body



Manifold Mount Body



How To Order

Valve Part Numbers are built from a series product codes. Use the **Bold** product codes from the choices listed on the following page to construct a complete Part Number.

E	H	20	14	–	06	BD	–	B	–	G1	–	203
Series	1 Power Rating	2 Function	3 MOPD	–	4 Body Material	5 Body Port	–	6 Seal Material	–	7 Coil Construction	–	8 Supply Voltage

Product Description from Example Shown Above:

EH2014-03BD-B-G1-203

EH2014 = E **Series** with 2 Watt **Power Rating**, 2-Way Normally Closed Valve **Function**; 175 **MOPD**
-06BD = Nickel-Plated Brass **Body Material**; #10-32 Thread Female **Body Port**
-B = Nitrile (Buna-N) **Seal Material** (Plunger Seal and Internal O-Ring)
-G1 = Grommet Housing, Tape-Wrapped (Class B) **Coil Construction**
-203 = 12 VDC **Supply Voltage**

E Series – Part Number Build

Build a Valve Part Number by filling in the boxes below using the related code numbers on this page.

E	___	___ ___	___ ___	-	06	___ ___	-	___	-	G1	-	___ ___ ___
Series	1	2	3		4	5		6		7		8

1 + 2 + 3 **Power Rating, Valve Function, & Maximum Operating Pressure Differential**

Valve Function	Code	Power Rating	MOPD		C_v		K_v		Orifice			
									Body		Stop	
			psig	bar	Body	Stop	Body	Stop	inches	mm	inches	mm
2-WAY Normally Closed	G2020	0.65W	125	9	0.018	—	0.015	—	1/32	0.79	—	—
	G2027		70	5	0.023	—	0.020	—	3/64	1.19	—	—
	G2031		40	3	0.036	—	0.031	—	1/16	1.59	—	—
	G2035		20	1	0.070	—	0.060	—	5/64	1.98	—	—
	H2014	2W	175	12	0.018	—	0.015	—	1/32	0.79	—	—
	H2017		150	10	0.023	—	0.020	—	3/64	1.19	—	—
	H2022		100	7	0.036	—	0.031	—	1/16	1.59	—	—
	H2029		50	3	0.070	—	0.060	—	5/64	1.98	—	—
3-WAY Normally Closed	G3120	0.65W	125	9	0.018	0.018	0.015	0.015	1/32	0.79	1/32	0.79
	G3127		70	5	0.023	0.023	0.020	0.020	3/64	1.19	3/64	1.19
	G3131		40	3	0.036	0.032	0.031	0.027	1/16	1.59	1/16	1.59
	H3114	2W	175	12	0.018	0.018	0.015	0.015	1/32	0.79	1/32	0.79
	H3117		150	10	0.023	0.023	0.020	0.020	3/64	1.19	3/64	1.19
	H3122		100	7	0.036	0.032	0.031	0.027	1/16	1.59	1/16	1.59
3-WAY Normally Open	G3220	0.65W	125	9	0.018	0.018	0.015	0.015	1/32	0.79	1/32	0.79
	G3227		70	5	0.023	0.023	0.020	0.020	3/64	1.19	3/64	1.19
	G3231		40	3	0.036	0.032	0.031	0.027	1/16	1.59	1/16	1.59
	H3214	2W	175	12	0.018	0.018	0.015	0.015	1/32	0.79	1/32	0.79
	H3217		150	10	0.023	0.023	0.020	0.020	3/64	1.19	3/64	1.19
	H3222		100	7	0.036	0.032	0.031	0.027	1/16	1.59	1/16	1.59
3-WAY Multi Purpose	G3325	0.65W	80	6	0.018	0.018	0.015	0.015	1/32	0.79	1/32	0.79
	G3331		40	3	0.023	0.023	0.020	0.020	3/64	1.19	3/64	1.19
	G3335		20	1	0.036	0.032	0.031	0.027	1/16	1.59	1/16	1.59
	H3317	2W	150	10	0.018	0.018	0.015	0.015	1/32	0.79	1/32	0.79
	H3322		100	7	0.023	0.023	0.020	0.020	3/64	1.19	3/64	1.19
	H3329		50	3	0.036	0.032	0.031	0.027	1/16	1.59	1/16	1.59
3-WAY Directional Control	G3418	0.65W	135	9	0.018	0.018	0.015	0.015	1/32	0.79	1/32	0.79
	G3425		80	6	0.023	0.023	0.020	0.020	3/64	1.19	3/64	1.19
	G3430		45	3	0.036	0.032	0.031	0.027	1/16	1.59	1/16	1.59
	H3412	2W	190	13	0.018	0.018	0.015	0.015	1/32	0.79	1/32	0.79
	H3415		165	11	0.023	0.023	0.020	0.020	3/64	1.19	3/64	1.19
	H3425		80	6	0.036	0.032	0.031	0.027	1/16	1.59	1/16	1.59

4 **Body Material**

06 Nickel-Plated Brass

5 **Body Port**

BD #10-32 Straight Thread
MM Manifold Mount (#10-32 Threaded Stud)

6 **Seal Material**

B Nitrile
V Viton®

7 **Coil Construction**

G1 Grommet Housing, Tape-Wrapped (Class B) Lead Wires

8 **Supply Voltages**

203 12 VDC
204 24 VDC

E Series – Additional Component Details & Dimensions

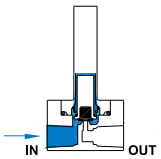
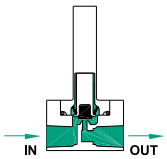
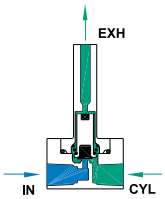
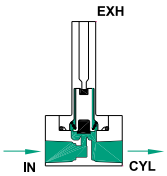
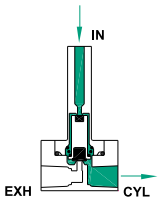
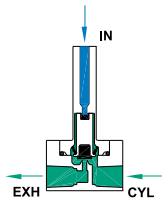
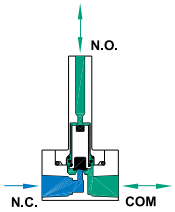
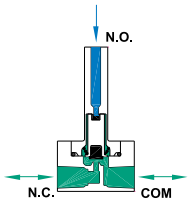
2 **Valve Function**

Flow Schematics

Flow Key

Blocked Flow
Free Flow

O/S = Over Seat
U/S = Under Seat

Valve Type	De-Energized	Energized
2-Way Normally Closed		
3-Way Normally Closed		
3-Way Normally Open		
3-Way Multi Purpose		
3-Way Directional Control