

EH40 SERIES

1/4 - 1/2" PIPE SIZE

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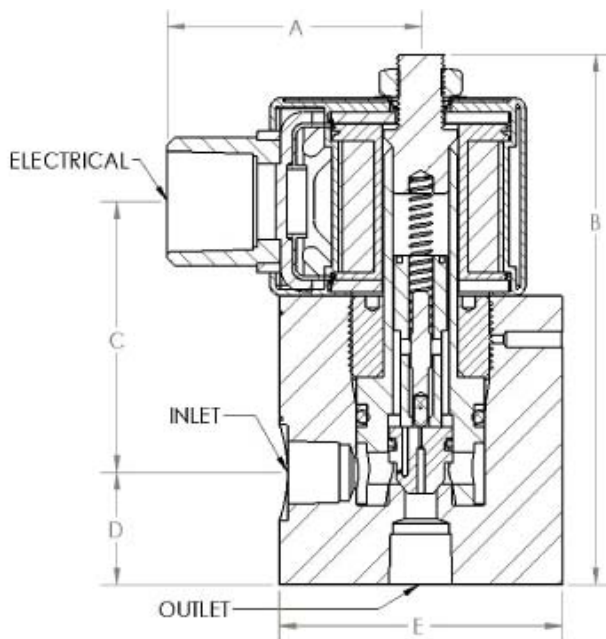


Features:

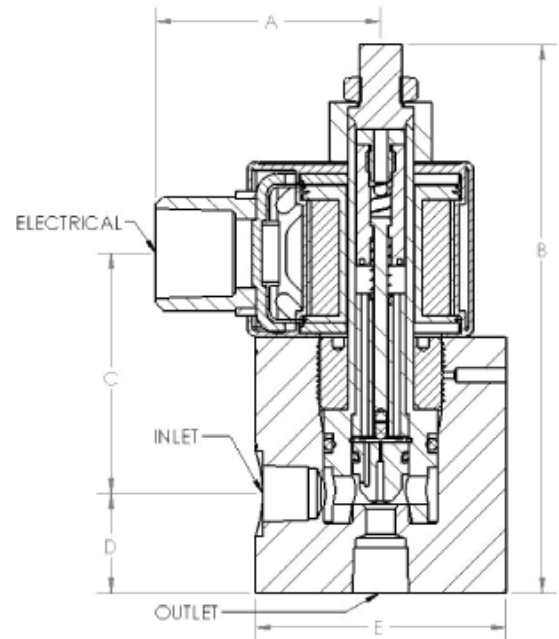
The full port EH40 is great for a wide range of media. This pilot operated valve has become a popular and effective choice in the emerging Hydrogen Dispensing market. The EH40 is also an excellent valve to control the flow of high pressure air, water, hydrogen, nitrogen, and other gases or light liquids compatible with materials of construction. Available in both 1/4" and 1/2" sizes, the EH40 is the workhorse of our collection and offers a cartridge design that alleviates your demanding maintenance requirements. The EH40 requires a 50 PSIG minimum pressure differential between inlet and outlet for operation. The valve's simple design with few moving components have made it a great choice for inlet pressures as high as 10,000 PSIG. The Normally Closed EH40 valves must be mounted upright and vertical, while the Normally Open EH40 valves are universal mount. **Filters recommended for all applications.**

EH40 Base Price: \$725

Dimensions



Normally Closed



Normally Open

	Inlet/ Outlet	Electrical	Ship Weights (lbs.)	Reference Dimensions (inches)				
				A	B	C	D	E
EH40-04 Normally Closed	¼" NPT	½" NPT Conduit	2.85	2.0	4.1	2.1	0.9	ø 2.20
EH40-04 Normally Open			3.10	2.0	4.8	2.1	0.9	ø 2.20
EH40-08 Normally Closed	½" NPT		6.05	2.0	4.7	2.2	1.3	ø 2.95
EH40-08 Normally Open			6.04	2.0	5.4	2.2	1.3	ø 2.95

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How To Order

Base Model Number	—	Connection Size	—	AC/DC Voltage and Hertz	—	Suffix Option Field (s)	
EH40							
		04	1/4"	A024	24 / 60	DN	Din Connector (Not Explosion Proof)
		08	1/2"	A120	120 / 60	GS	General Service (Not Explosion Proof)
				A240	240 / 60	HY	Hydrogen Service (Helium leak test)
				D012	12 DC	NO	Normally Open
				D024	24 DC	OX	Oxygen Clean
				D120	120 DC	TC	Tube Connector
						T5	Class 5 Leakage Test
						XP	22 Watt Coil (Higher Pressure)
						S6	3/8" Connection per SAE J1926
						S8	1/2" Connection per SAE J1926

Possible EH40 Options & Add-Ons

							
72" Lead Length	Din Connector	Screw Terminal	1/4 Tab (spade)	General Service	Hydrogen Service	Normally Open	Oxygen Clean
							
SAE Port	Tube Connector	Class V Leakage Testing	Stainless Steel Tags	Viton O-Rings	22 W Coil		

The following are standard on the EH40:

		
Explosion Proof	Stainless Steel Valve Body	NEMA 4X

Certifications



CRN - Canadian Registration Number

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Construction

Valve Body:	316 SS
Piston:	PEEK®
O Ring (Standard):	Buna-N (-50° to 225°F)
O Ring (Optional):	Viton (0° to 400°F)
Piston Rings:	302 SS / PTFE / Buna / Viton
Cartridge:	316 SS & 430 SS
Pilot / Seal:	303 SS / PTFE
Spring:	302 SS
Plunger:	430 SS
Bonnet Retainer:	430 SS

*Consult Sales for Fluid Temps Exceeding 225°F.

Pressure

Maximum pressures shown are measured in PSIG

	1/4" Pipe Size	1/2" Pipe Size
Normally Closed AC Voltage (Standard):	7,500	7,500
Normally Closed AC Voltage (Higher Wattage):	10,000	10,000
Normally Closed DC Voltage (Standard):	3,500	3,600
Normally Closed DC Voltage (Higher Wattage):	10,000	7,200
Normally Open AC Voltage:	5,500	8,500
Normally Open DC Voltage (Higher Wattage):	5,500	6,200
Minimum Pressure Differential:	50	50

Flow

	1/4" Pipe Size	1/2" Pipe Size
C _v	1.1	4.5

Electrical (Coil)

	Standard	High Wattage
Power:	10 Watts	22 Watts
AC Inrush:	1 amp @ 120V AC	2.5 amp @ 120V AC
AC Holding:	0.1 amp @ 120V AC	0.2 amp @ 120V AC
Insulation:	Class "F"	Class "H"
Duty:	Continuous	Continuous
Connection:	1/2" NPT, 18" Leads	1/2" NPT, 18" Leads
Enclosure		
Explosion Proof (Standard):	NEMA 3, 3S, 4, 4X, 7, 9	NEMA 3, 3S, 4, 4X, 7, 9
General Service:	NEMA 1, 2, 3, 3S, 4, 4X	NEMA 1, 2, 3, 3S, 4, 4X

Possible Media



General Gases
and Liquids



Fuels &
Light Oils



Flammable
Gases



Hydrogen



Oxygen



Corrosives



Sea & Salt
Water



Viscous
Liquids



Steam



Cryogenics

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