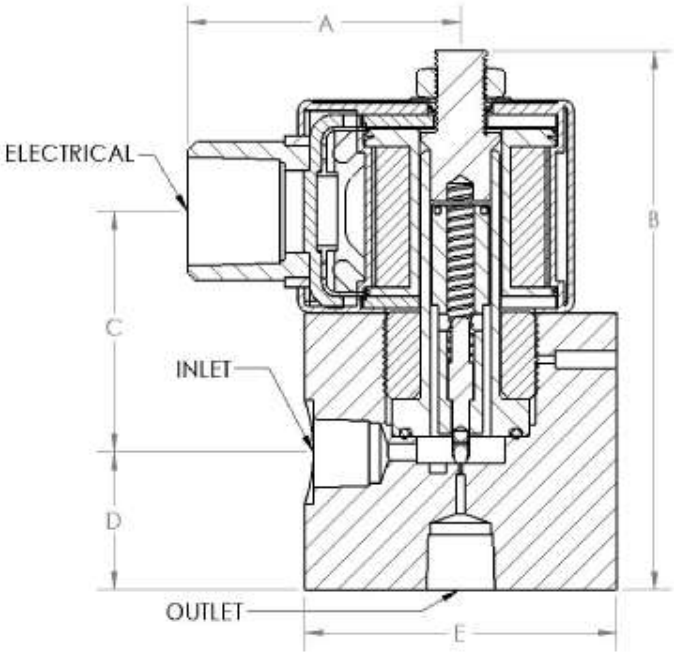
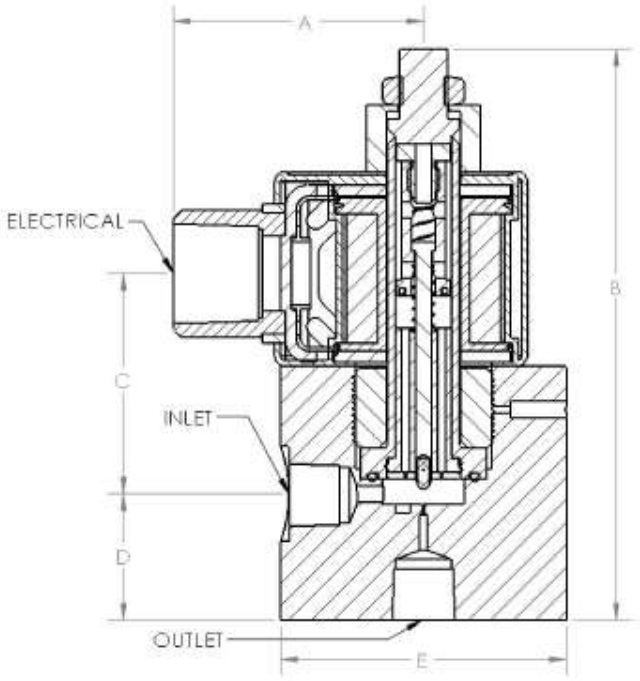
EH30 Series
1/4" Pipe Size

Features:

The EH30 is a 2-way, unidirectional reduced port solenoid valve that is great for a wide range of fluids and gases. This direct acting valve offers a solution to a variety of applications to control the flow of high pressure air, water, natural gas, hydrogen, nitrogen and other gases or light liquids compatible with materials of construction. Suitable for cryogenic applications, this low flow, high pressure valve packages great versatility in a compact design for pressures of zero to 10,000 PSIG. No minimum pressure is required for opening, and it will not "burp" due to any rapid spikes in inlet pressure. Both the Normally Closed and Normally Open versions can be universally mounted, as a standard. They both may be mounted in any orientation. **Filters recommended for all applications.**



Normally Closed



Normally Open

				Reference Dimensions (inches)				
	Inlet/Outlet	Electrical	Ship Weight (lbs.)	A	B	C	D	E
EH30-04 Normally Closed	¼" NPT	½" NPT Conduit	2.90	2.0	3.9	1.7	1.0	ø 2.20
EH30-04 Normally Open			3.15	2.0	4.5	1.7	1.0	ø 2.20

How To Order

Base Model Number		Connection & Orifice Size		AC/DC Voltage and Hertz		Suffix Option Field (s)
EH30	—		—		—	

041	¼" , 0.019"
042	¼" , 0.032"

A024	24 / 60
A120	120 / 60
A240	240 / 60
D012	12 DC
D024	24 DC
D120	120 DC

DN	Din Connector (Not Explosion Proof)
GS	General Service (Not Explosion Proof)
HY	Class 5 Leakage Test with Helium
NO	Normally Open
OX	Oxygen Clean
CY	Cryogenic Service
TC	Tube Connector
T5	Class 5 Leakage Test with Air
S2	SAE J1926 Size "2" Connection

Possible EH30 Options & Add-Ons

72" Lead Length


Din Connector


Screw Terminal


¼ Tab (spade)

General Service

Hydrogen Service

Normally Open

Oxygen Service


Tube Connector

Class V Leakage Testing

NEMA 4X


Stainless Steel Tags


SAE Port

The following are standard on the EH30:

Explosion Proof

Stainless Steel Valve Body

Universal Mount

Certifications

CRN - Canadian Registration Number

Construction

Valve Body:	316 SS
O Ring (Standard):	PTFE (cryo to 400°F)
Cartridge:	316 SS & 430 SS
Pilot / Seal:	303 SS / PTFE (cryo to 400°F)
Spring:	302 SS
Plunger:	430 SS
Bonnet Retainer:	430 SS
Fluid Temperature:	-423°F to +400°F

* See Temp Limits for UL Listed Coils

Pressure

Maximum pressures shown are measured in PSIG

	Orifice Size	
	0.019"	0.032"
Normally Closed AC Voltage:	10,000	10,000
Normally Closed DC Voltage:	10,000	6,300
Normally Open AC Voltage:	7,500	2,800
Normally Open DC Voltage:	4,300	1,800

Flow

Orifice Size	0.019"	0.032"
C_V	0.005	0.020

Standard Sealing Is Class 2, Per ANSI/FCI 92-2-2001

Electrical (Coil)

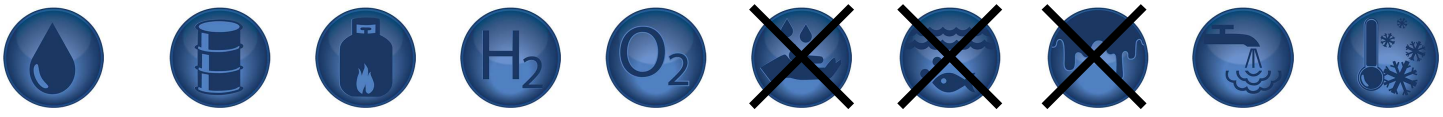
	AC Power			DC Power		
Wattage	10			22		
Voltage	24	120	240	12	24	120
Inrush (RMS amps)	2.6	0.6	0.3	N/A		
Holding (RMS amps)	1.2	0.3	0.17	1.8	0.9	0.2
Insulation	Class F			Class H		
Connection	1/2" NPT, 18" Leads					
Standard Coil ***	NEMA 3, 3S, 4, 4X, 7, 9					
General Service Coil	NEMA 1, 2, 3, 3S, 4, 4X					

*** All for use in:
Class I Div 1 & 2, Groups A, B, C, D;
Class II Div 1 & 2, Groups E, F, G

10 Watt Solenoid Coils:
- Temperature Code T4: Ambient Temperature range of -20 C to 65.6 C and maximum fluid temperature of 121.1 C

22 Watt Solenoid Coils:
- Temperature Code T3C: Ambient Temperature range of -20 C to 50 C and maximum fluid temperature of 65.0 C

Possible Media



General Gases and Liquids | Fuels & Light Oils | Flammable Gases | Hydrogen | Oxygen | Corrosives | Sea & Salt Water | Viscous Liquids | Steam | Cryogenics