

EH70 SERIES 1/2" TO 2" PIPE SIZE



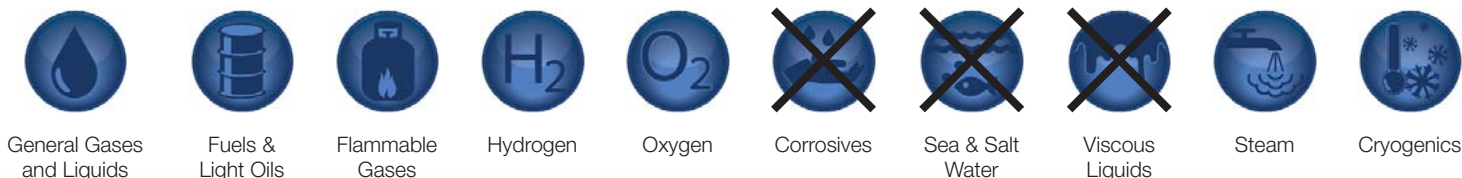
Features:

The powerful, full port EH70 is great for a wide range of flow rates, temperatures, and a wide range of fluids and gases. It has become a popular choice for cryogenic conditions and applications that need to control higher pressures in a hazardous location. This pilot assisted, direct operated valve utilizes a UL/CSA certified enclosure for all hazardous locations, is available in larger pipe sizes (up to 2") and for inlet pressures up to 1,500 PSIG. The versatile EH70 requires no minimum pressure for opening, and the 1/2" & 3/4" sizes can be universally mounted (Normally Closed and Normally Open). This valve is CRN certified with all Canadian provinces. Other uses of the EH70 include controlling the flow of corrosive fluids, deionized water, condensate, ammonias, vegetable oils, fuel oils, hydrogen, cryogenics, flammable liquids and gases and other gases or liquids compatible with materials of construction. **Filters recommended for all applications.**

How To Order

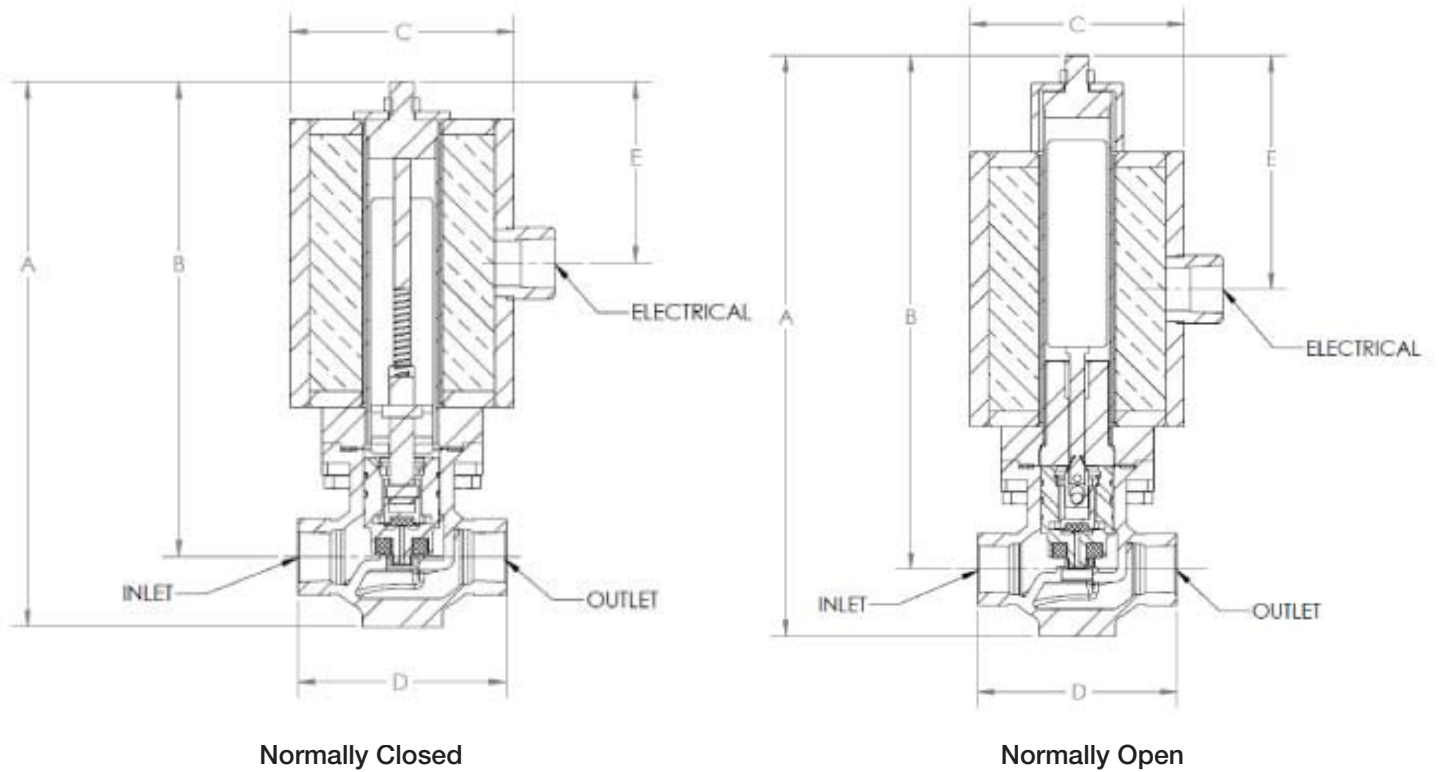
Base Model Number		Connection size in NPT		Connection type		AC/DC Voltage and Hertz		Fluid		Suffix Option Field (s)	
EH70		[]		[]		[]		[]		[]	
08	1/2"	A	NPT	A024	24 / 60	G	Gas	CY	Cryogenic Service		
12	3/4"	B	Socket Weld	A120	120 / 60	L	Liquid	DN	Din Connector (Not Explosion Proof)		
16	1"	G	150# Flange	A240	240 / 60			ETL	ETL Listed Solenoid		
24	1 1/2"	H	300# Flange	D024	24 DC			HY	Class 5 Leakage Test with Helium		
32	2"	J	600# Flange	D120	120 DC			NO	Normally Open		
				D240	240 DC			OX	Oxygen Clean		
								S1	Single Switch (General Service)		
								SS	Stainless Steel Tags		
								X1	Single Switch (General Service)		
								T5	Class 5 Leakage Test with Air		
								1A	ATEX/IECEX Certified Coil		

Possible Media



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Dimensions



	Pipe Size	Ship Weight (lbs.)	Reference Dimensions (inches)				
			A	B	C	D	E
EH70-08 Normally Closed	1/2"	15	8.5	7.4	∅ 3.5	3.3	2.8
EH70-08 Normally Open			9.5	8.4	∅ 3.5	3.3	3.8
EH70-12 Normally Closed	3/4"	16	8.8	7.6	∅ 3.5	3.5	2.8
EH70-12 Normally Open			9.7	8.6	∅ 3.5	3.5	3.8
EH70-16 Normally Closed	1"	18	9.3	7.8	∅ 3.5	4.1	2.8
EH70-16 Normally Open			10.3	8.8	∅ 3.5	4.1	3.8
EH70-24 Normally Closed	1 1/2"	30	11.6	9.8	∅ 4.5	4.9	3.3
EH70-24 Normally Open			12.7	10.8	∅ 4.5	4.9	4.5
EH70-32 Normally Closed	2"	38	12.4	10.2	∅ 4.5	6.0	3.3
EH70-32 Normally Open			13.7	11.4	∅ 4.5	6.0	4.5

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Possible EH70 Options & Add-Ons



Cryogenic Cleaning



72" Lead Length



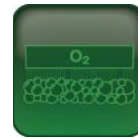
Din Connector



Hydrogen Service



Normally Open



Oxygen Clean



ETL



Stainless Steel Tags



Tube Connector



Single Switch



NEMA 4X



Class V Leakage Testing



ATEX/IECEx

The following are standard on the EH70:



Explosion Proof



Stainless Steel Valve Body



Universal Mount
*1/2" and 3/4" only

Certifications



CRN
(Canadian Registration Number)



ETL Listed solenoid is an available option, at an additional price.
Conforms to UL Std. 1203
Certified to CAN/CSA Std. C22.2 No.30
*Consult Factory for Listing and Pricing Details.



ATEX/IECEx solenoid is an available option.

See Website for certification details.

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Construction

Valve Body:	316 SS (CF8M)
Piston:	303 SS
Piston Rings:	PTFE (cryo to 400°F)
Plunger:	430 SS
Pilot Valve:	303 SS
Bonnet Tube:	304 SS
Bonnet Base Flange:	304 SS
Spring:	302 SS
Body Seal:	Non Asbestos Gasket (Durlon 9000™)
Valve Disc:	PTFE

Flow & Wattage


Pipe & Orifice Size	Max Inlet Pressure (psig)	Cv	Coil	Voltages Available	Current (amps)
1/2"	1500	3.5	200 Series	24V AC/DC	3.29
3/4"	1200	7.5		120V AC/DC	0.74
1"	1200	13		220V AC/DC	0.44
1 1/2"	1200	25	300 Series	24V AC/DC	4.80
				120V AC/DC	1.00
2"	1200	48		220V AC/DC	0.44

Electrical (Coil)

Coil:
Encapsulated Class "H", 36" leads - All AC/DC Voltages

Coil Enclosure:
Carbon Steel - Coil enclosure is completely seal-welded
NEMA 4 (watertight), NEMA 7, NEMA 4X optional

Coil Option:
Explosion-Proof for Class I, Division 1, Groups A-D for Operating Temp Code T2D,
- Range -20 to +85 degrees C. (Ambient)

Coil Option:
ATEX/IECEX coil
Temperature Class: T3 for -20° to +60° C surrounding air,
cryogenic to +150° C fluid
 II 2G Ex db IIC T3 Gb, -20° C ≤ Ta ≤ max. +60° C

Conduit Connection:
1/2" NPT