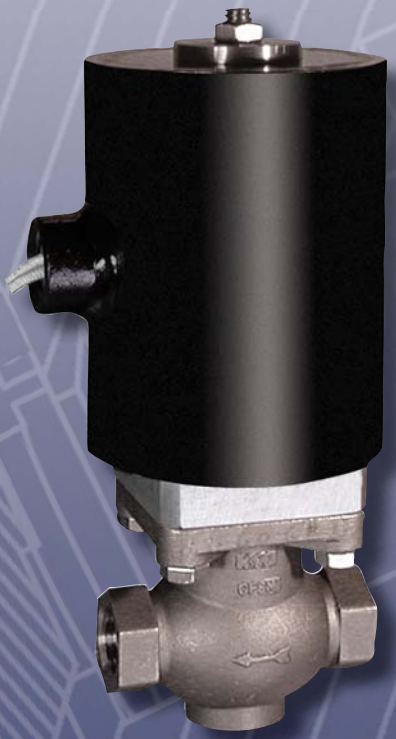
Clark Cooper

A Division of Magnatrol Valve Corp.

High Pressure Solenoid Valves

Available for
Quick Delivery



Controls the flow of

- Gases & Liquids up to 15,000 PSIG
- Natural Gas, Hydrogen & other High Pressure Gases
- High Pressure Cryogenics
- Flammable Liquids & Gases

CATALOG EH-3.9

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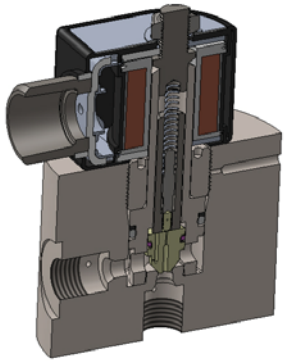
(856) 829-4580
info@magnatrol.com
www.clarkcooper.com

Background

The Clark Cooper Division of Magnatrol Valve Corporation offers a complete line of industrial solenoid valves for process control.

- Established 1914
- Experienced Applications / Engineering Staff for Customer Assistance
- Certified ISO 9001:2000 Quality Management System
- Quick Delivery

News & Updates



Clark Cooper's latest development is the EX line.
Highlights of the EX line:

· Operates at pressures up to 15,000 PSIG (1,030 bar)

· Perfect for hydrogen dispensing and refueling systems

· Cartridge style design for easy maintenance

· Cost effective alternative to ball valves

CRN (Canadian Registration Number) is a registration process that involves the careful review of a manufacturer's equipment design by responsible provincial engineers.

Our EH30, EH40, EH50, EH70 Series, EX30, EX40 and ER Series (up to 3") are now approved and registered for **all** Canadian Provinces.

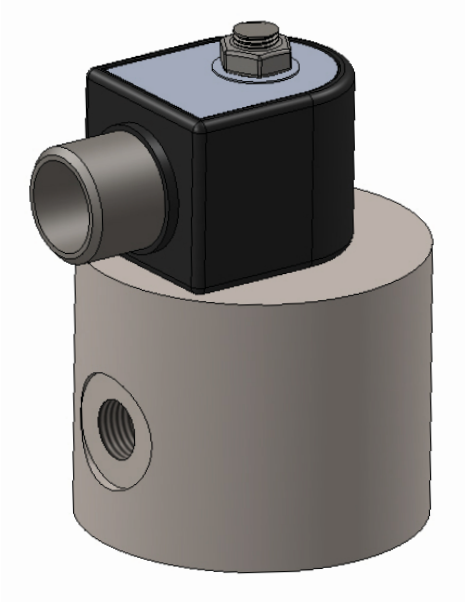
Magnatrol

General Purpose Industrial Solenoid Valves are available direct from Magnatrol Valve Corporation.

· 1/4" to 3" Pipe Size
· Bronze and Stainless Steel
· Watertight and Explosion-Proof Solenoid Enclosure
· Pressures up to 500 PSIG
· Temperatures up to 400°F
· Quick Delivery

For additional information contact:
Magnatrol Valve Corporation
Tel: 973-427-4341
Fax: 973-427-7611
Email: info@magnatrol.com
www.magnatrol.com

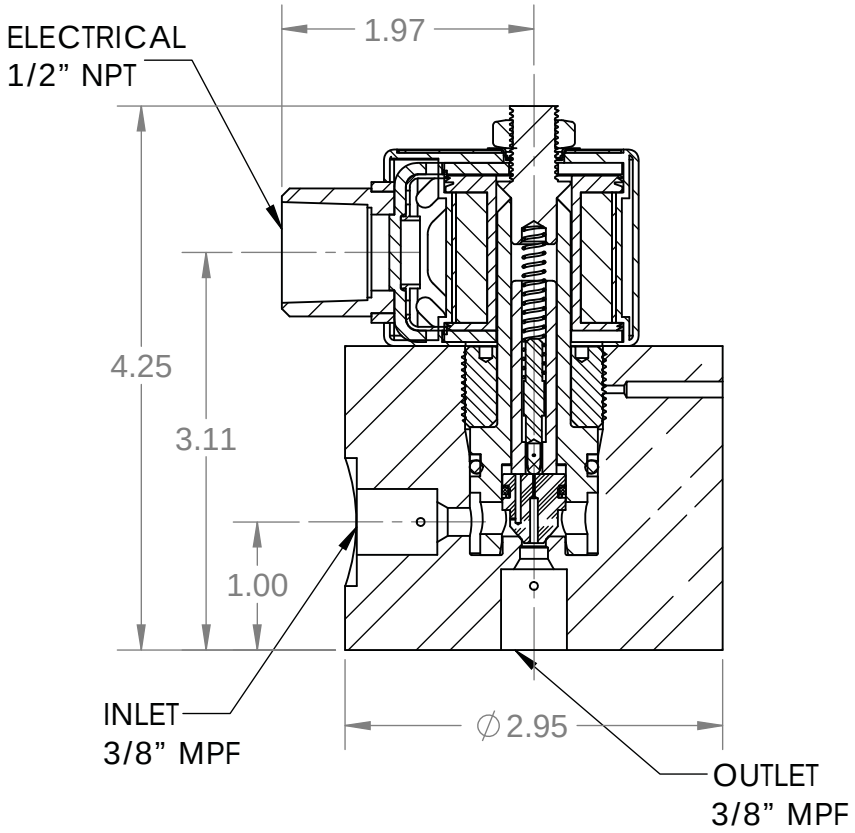
Request Catalog 3006



Features:

The reduced port EX40 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 EX40 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. The EX40 is the highest pressure valve in our collection and offers a cartridge design that alleviates your demanding maintenance requirements. The EX40 requires a 100 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 15,000 PSIG. The Normally Closed EX40 must be mounted upright and vertical. **Filters recommended for all applications.**

Dimensions



Normally Closed

(856) 829-4580
info@magnatrol.com
www.clarkcooper.com

How To Order

Base Model Number		Orifice		DC Voltage		Suffix Option Field(s)
EX40	—	03	—		—	

03	3/16"

D012	12 DC
D024	24 DC
D120	120 DC

DN	Din Connector (Not Explosion Proof)
GS	General Service (Not Explosion Proof)
HY	Hydrogen Service (Helium leak test)
OX	Oxygen Clean
VT	Viton O-Rings
T5	Class 5 Leakage Testing

* Standard Connection is LF6 Medium Pressure Fitting for 3/8" Tubing (9/16 - 18 thread)

Possible EX40 Options & Add-Ons

72" Lead Length


Din Connector


Screw Terminal

General Service

Hydrogen Service

Oxygen Clean

NEMA 4X

Class V Leakage Testing


Stainless Steel Tags


Viton O-Rings

The following are standard on the EX40:

Explosion Proof

Stainless Steel Valve Body

22 W Coil

Certifications

CRN - Canadian Registration Number

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
Cartridge:	316 SS & 430 SS
Pilot & Seal:	303 SS & PTFE
Spring:	302 SS*
Plunger:	430 SS

*Standard material

Pressure

Maximum pressures shown are measured in PSIG

	3/16" Orifice Size
Normally Closed AC Voltage:	-
Normally Closed DC Voltage:	15,000
Normally Open AC Voltage:	-
Normally Open DC Voltage:	-
Minimum Pressure Differential:	100

Flow

	3/16" Orifice Size
C_v	0.50

Electrical (Coil)

Power:	22 Watts
Insulation:	Class "H"
Duty:	Continuous
Connection:	1/2" NPT, 18" Leads
Enclosure	
Explosion Proof (Standard):	NEMA 3, 3S, 4, 4X, 7, 9
General Service:	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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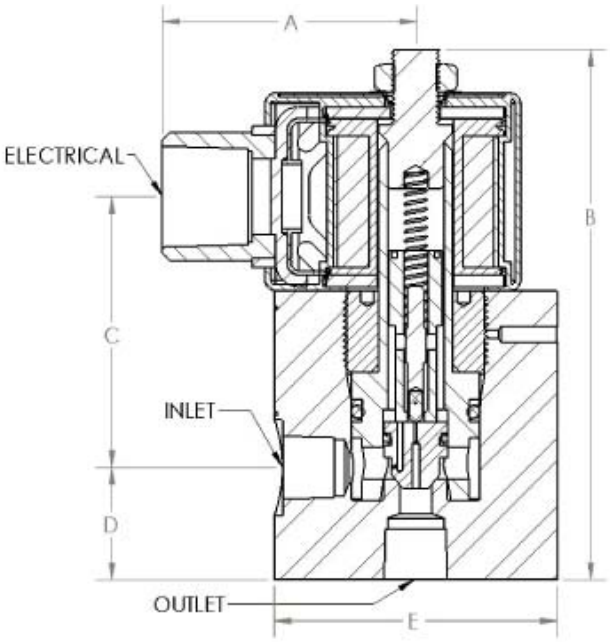
EH40 Series
1/4 -1/2" Pipe Size

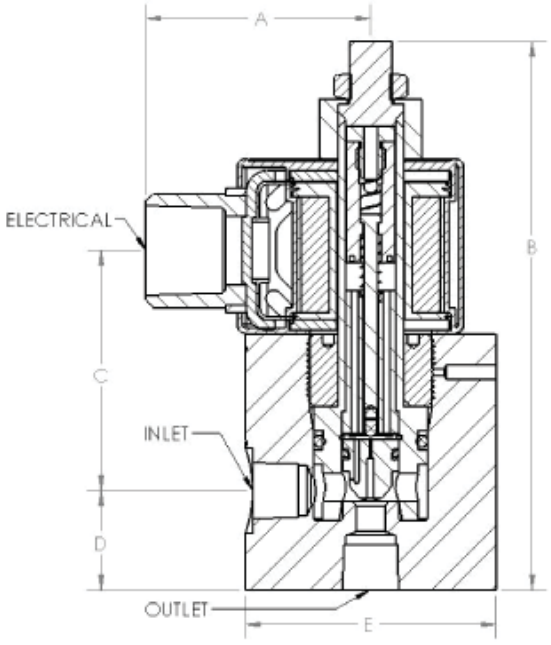
Features:

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 DC Powered EH40 valves must be mounted upright and vertical, while all other EH40 valves are universal mount. **Filters recommended for all applications.**

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: EH40 — Connection Size: ____ — AC/DC Voltage and Hertz: ____ — Suffix Option Field (s): ____

Connection Size	
04	¼"
08	½"

AC/DC Voltage and Hertz	
A024	24 / 60
A120	120 / 60
A240	240 / 60
D012	12 DC
D024	24 DC
D120	120 DC

Suffix Option Field (s)	
DN	Din Connector (Not Explosion Proof)
GS	General Service (Not Explosion Proof)
HY	Hydrogen Service (Helium leak test)
NO	Normally Open
OX	Oxygen Clean
TC	Tube Connector
T5	Class 5 Leakage Test
XP	22 Watt Coil (Higher Pressure)
S4	1/4" Connection per SAE J1926
S8	1/2" Connection per SAE J1926

Possible EH40 Options & Add-Ons

72" Lead Length


Din Connector


Screw Terminal


¼ 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 maximum allowable inlet pressures for Fluid Temps Exceeding 300°F.

Pressure

Maximum pressures shown are measured in PSIG

	¼" Pipe Size	½" 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	6,500
Normally Open DC Voltage (Higher Wattage):	5,500	6,200
Minimum Required Pressure Differential:	50	50

Flow

	¼" Pipe Size	½" 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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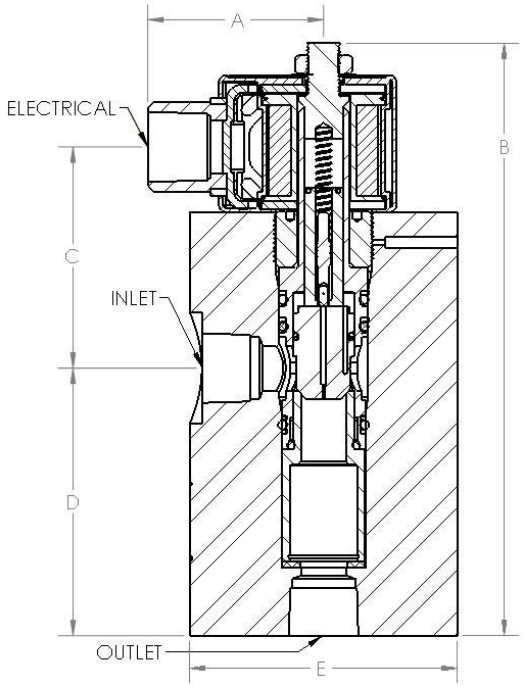
EH50 Series
1/2" Pipe Size

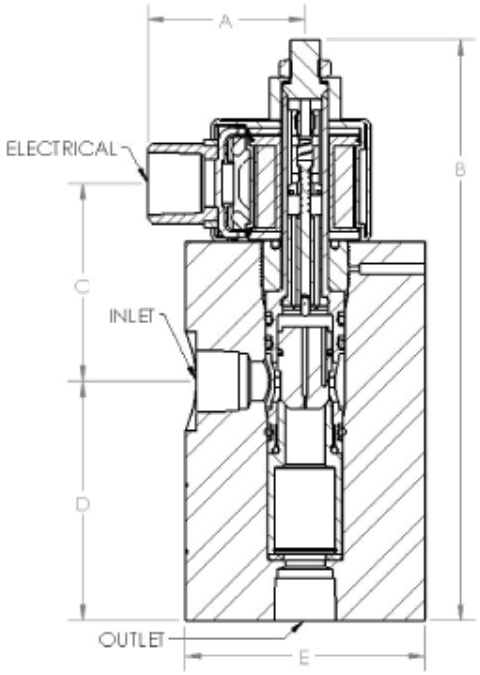
Features:

The full port EH50 offers a wide range of solutions for your application needs, and is best used to control the flow of high pressure air, water, natural gas, hydrogen, nitrogen and other gases or light liquids compatible with materials of construction. This pilot operated valve is a great choice for differential pressures as high as 10,000 PSI. The valve comes in a ½" NPT connection size and requires a 100 PSIG minimum pressure differential between inlet and outlet for operation. The EH50 offers many of the benefits of our EH40, but with the available option of an **integrated check valve**. The EH50 is an ideal choice for CNG equipment and applications, whether your system utilizes a single-line buffer or a 3-bank cascade filling scheme. The valve also features a cartridge that can be easily removed for maintenance. The Normally Closed EH50 valves must be mounted upright and vertical, while the Normally Open EH50 valves are universal mount. **Filters recommended for all applications.**

Dimensions



Normally Closed



Normally Open

					Reference Dimensions (inches)				
	Inlet/ Outlet	Electrical	Ship Weight (Aluminum Body)	Ship Weight (316 SS Body)	A	B	C	D	E
EH50-08 Normally Closed	½" NPT	½" NPT Conduit	4.25 lbs.	9.75 lbs.	2.0	6.6	2.5	3.0	ø3.00
EH50-08 Normally Open			4.50 lbs.	10.0 lbs.	2.0	7.3	2.5	3.0	ø3.00

(856) 829-4580
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How To Order

Base Model Number		Port Size		AC/DC Voltage and Hertz		Suffix Option Field (s)
EH50	—	08	—		—	

08	½"

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

CK	Integrated Check Valve
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
SS	316 SS Valve Body
TC	Tube Connector
VT	Viton O-Ring
XP	22 Watt Coil (Higher Pressure)
T5	Class 5 Leakage Test with Air

Possible EH50 Options & Add-Ons


Integrated Check Valve

72" Lead Length


Din Connector

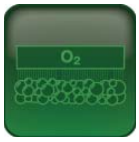

Screw Terminal


¼ Tab (spade)

General Service

Hydrogen Service

Normally Open



Oxygen Clean

Stainless Steel Valve Body


SAE Port


Tube Connector

Universal Mount

NEMA 4X

Class V Leakage Testing


Stainless Steel Tags


Viton O-Rings

22 W Coil

The following are standard on the EH50:

Explosion Proof

Certifications

CRN - Canadian Registration Number

Construction

Valve Body:	7075-T6 Anodized Aluminum* / 316 SS
Piston:	PEEK
O Ring (Standard):	Buna-N (-50° to 225°F)
O Ring (Optional):	Viton (0° to 400°F)
Piston Rings / Seal:	302 SS / PTFE
Cartridge:	316 SS & 430 SS
Pilot / Seal:	303 SS / PTFE
Spring:	302 SS
Plunger:	430 SS
Bonnet Retainer:	430 SS
Cartridge Gasket:	Nylon
Optional Check Valve:	304 SS / PEEK

*Standard material

Pressure

Maximum pressures shown are measured in PSIG

	Normally Closed	Normally Open
AC Voltage (Standard 10 W):	7,500	7,500
AC Voltage (Higher Wattage 22 W):	10,000	-
DC Voltage (Standard 10 W):	3,500	2,500
DC Voltage (Higher Wattage 22 W):	5,000	5,700
Minimum Pressure Differential:	100	100

Flow

	Normally Closed	Normally Open
C_V	4.5	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

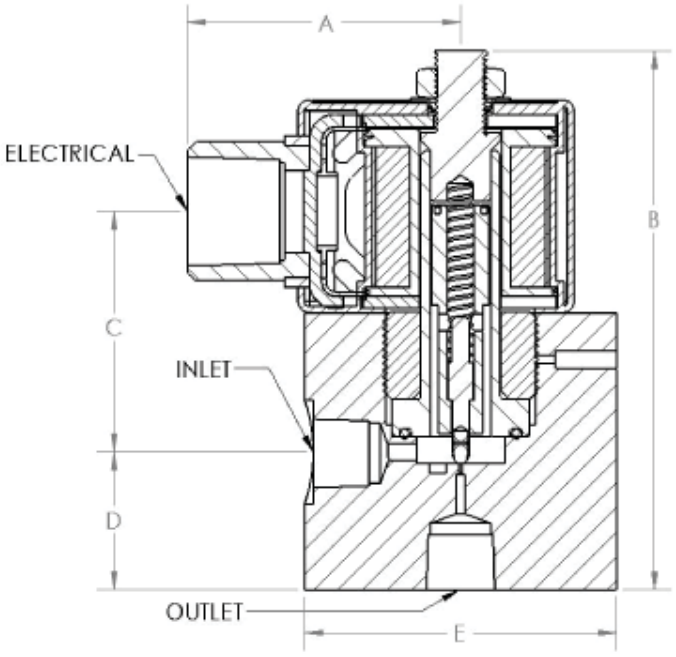
General Gases and Liquids | Fuels & Light Oils | Flammable Gases | Hydrogen | Oxygen | Corrosives | Sea & Salt Water | Viscous Liquids | Steam | Cryogenics

(856) 829-4580
info@magnatrol.com
www.clarkcooper.com

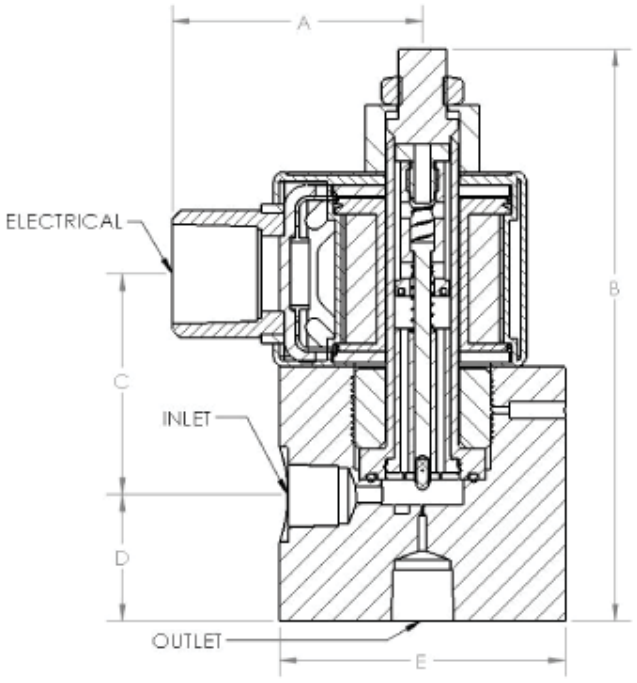
EH30 Series
1/4" Pipe Size

Features:

The EH30 is great for a wide range of pressures and many different fluids and gases. This direct acting valve offers a solution to a variety of applications to control the flow of high pressure air, water, 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 up 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 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

(856) 829-4580
info@magnatrol.com
www.clarkcooper.com

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

Possible EH30 Options & Add-Ons

72" Lead Length


Din Connector


Screw Terminal


¼ Tab (spade)

General Service

Hydrogen Service

Normally Open

Oxygen Clean


Tube Connector

Class V Leakage Testing

NEMA 4X


Stainless Steel Tags

The following are standard on the EH30:

Explosion Proof

Stainless Steel Valve Body

Universal Mount

Certifications

CRN - Canadian Registration Number

(856) 829-4580
info@magnatrol.com
www.clarkcooper.com

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

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	3,500
Normally Open DC Voltage:	4,300	1,800

Flow

Orifice Size	0.019"	0.032"
C_V	0.005	0.020

Electrical (Coil)

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

* 240V AC valves have standard 10 watt coil with Class "F" insulation.

Possible Media

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

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 has the option to 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	½"
12	¾"
16	1"
24	1 ½"
32	2"

A	NPT
B	Socket Weld
G	150# Flange
H	300# Flange
J	600# Flange

A024	24 / 60
A120	120 / 60
A240	240 / 60
D024	24 DC
D120	120 DC
D240	240 DC

G	Gas
L	Liquid

CY	Cryogenic Service
DN	Din Connector (Not Explosion Proof)
ETL	ETL Listed Solenoid
HY	Class 5 Leakage Test with Helium
NO	Normally Open
OX	Oxygen Clean
S1	Single Switch (General Service)
SS	Stainless Steel Tags
X1	Single Switch (General Service)
T5	Class 5 Leakage Test with Air

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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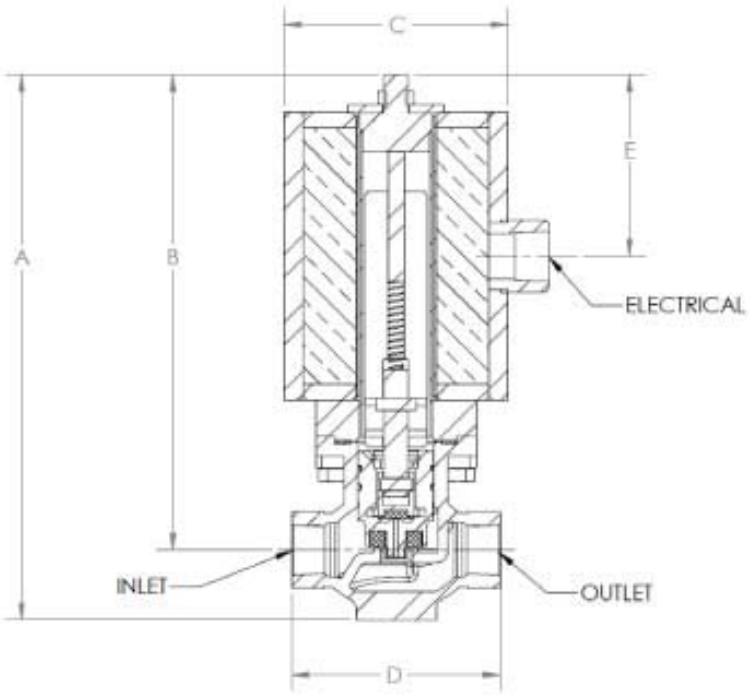
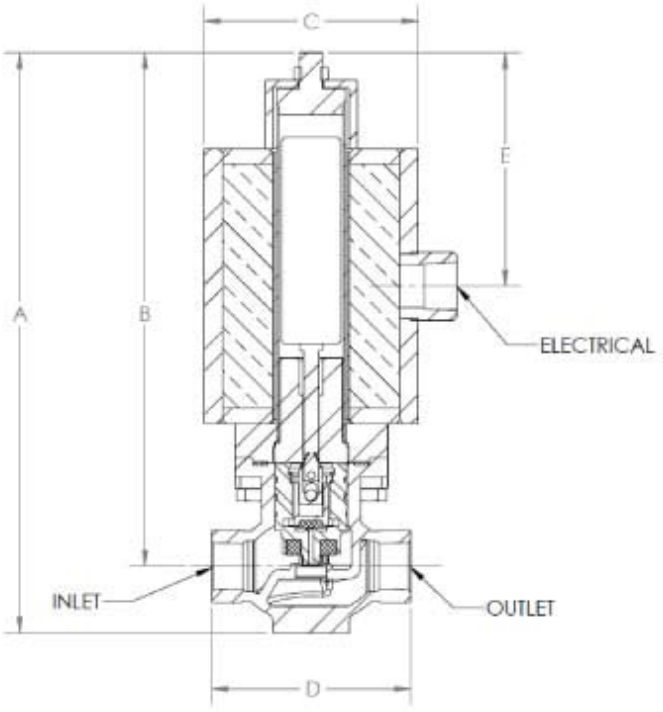
Dimensions



Normally Closed



Normally Open

	Pipe Size	Ship Weight (lbs.)	Reference Dimensions (inches)				
			A	B	C	D	E
EH70-08 Normally Closed	½"	15	8.5	7.4	ø 3.5	3.3	2.8
EH70-08 Normally Open			9.5	8.4	ø 3.5	3.3	3.8
EH70-12 Normally Closed	¾"	16	8.8	7.6	ø 3.5	3.5	2.8
EH70-12 Normally Open			9.7	8.6	ø 3.5	3.5	3.8
EH70-16 Normally Closed	1"	18	9.3	7.8	ø 3.5	4.1	2.8
EH70-16 Normally Open			10.3	8.8	ø 3.5	4.1	3.8
EH70-24 Normally Closed	1 ½"	30	11.6	9.8	ø 4.5	4.9	3.3
EH70-24 Normally Open			12.7	10.8	ø 4.5	4.9	4.5
EH70-32 Normally Closed	2"	38	12.4	10.2	ø 4.5	6.0	3.3
EH70-32 Normally Open			13.7	11.4	ø 4.5	6.0	4.5

Possible EH70 Options & Add-Ons


Cryogenic Cleaning

72" Lead Length


Din Connector

Hydrogen Service

Normally Open

Oxygen Clean

ETL


Stainless Steel Tags


SAE Port


Tube Connector

Single Switch

NEMA 4X

Class V Leakage Testing

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.

(856) 829-4580
info@magnatrol.com
www.clarkcooper.com

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)
½"	1500	3.5	200 Series	24V AC/DC	3.29
¾"	1200	7.5		120V AC/DC	0.74
1"	1200	13		220V AC/DC	0.44
1 ½"	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

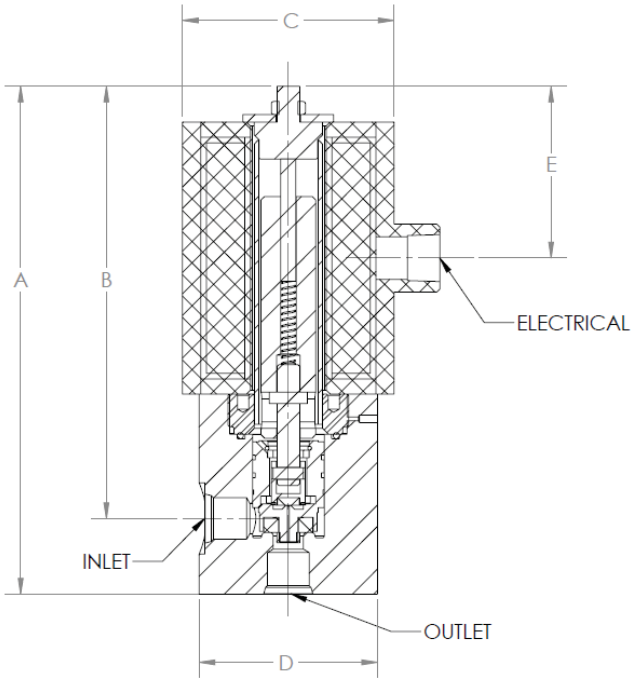
Coil Enclosure:
Carbon Steel - Coil enclosure is completely seal-welded
NEMA 4 (watertight), NEMA 7, NEMA 4X optional
Explosion-Proof for Class I, Division 1, Groups A-D for Operating Temp Code T2D,
- Range -20 to +85 degrees C.
- Recognized to UL STD 429 CAN/CSA C22.2 No. 139 with Subject UL STD 906

Conduit Connection:
1/2" NPT

Features:

The powerful, full port EP70 is great for a wide range of liquid flow rates and temperatures. This pilot assisted, direct operated valve can be configured with a UL/CSA certified explosion proof coil for Class 1, Division 1, Group A-D locations. The EP70 has 1/2" NPT or SAE connections, and allows inlet pressures of up to 5000 psig. There is no minimum required pressure differential for opening/closing. The combination of a high power coil and larger internal bleed orifices, as compared to our other EH Series products, provides for less sensitivity to fluid viscosities and particulates. The EP70 can be used with water, fuel oils, flammable liquids and other liquids compatible with the construction materials. **Filters recommended for all applications.**

Dimensions



Normally Closed

	Pipe Size	Ship Weight (lbs.)	Reference Dimensions (inches)				
			A	B	C	D	E
EP70-08 Normally Closed	½"	15	8.4	7.2	ø 3.5	3.0	2.8

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How To Order

Base Model Number		Connection size	Connection type		AC/DC Voltage and Hertz			Suffix Option Field (s)
EP70	—	08		—		—	L	—

A	NPT
N	SAE

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

ETL	ETL Listed Solenoid
OX	Oxygen Clean
SS	Stainless Steel Tags
T5	Class 5 Leakage Test with Air
DN	Din Connector
CY	Cryogenic Service

Possible EP70 Options & Add-Ons

72" Lead Length


Din Connector


Stainless Steel Tags

Class V Leakage Testing

NEMA 4X


ETL

The following are standard on the EP70:

Explosion Proof

Stainless Steel Valve Body

Certifications

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.

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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:	304 SS
Spring:	302 SS
Valve Disc:	PTFE

Pressure

Maximum pressures shown are measured in PSIG

	Pipe Size
	½"
Normally Closed Standard AC:	5,000
Normally Closed Standard DC:	5,000
Minimum Pressure Differential:	0

Flow & Wattage

Pipe Size	C_v	Watts
½"	3.5	80

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
Explosion-Proof for Class I, Division 1, Groups A-D for Operating Temp Code T2D,
- Range -20 to +85 degrees C.
- Recognized to UL STD 429 CAN/CSA C22.2 No. 139 with Subject UL STD 906

Conduit Connection:
1/2" NPT

Possible Media

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

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REQUEST FOR QUOTE

We appreciate the opportunity to quote on your requirements.

For immediate quote: Fill in the information below and CALL 856-829-4580
For same day quote: Fill in the information below and FAX to 856-829-7303
For next day quote: Email your requirements to techsupport@clarkcooper.com or use the Request For Quote form on our website www.clarkcooper.com

YOUR COMPANY INFORMATION

Date: _____

Name: _____ Dept. or Title: _____

Company: _____ Phone: _____

Address: _____ Fax: _____

City: _____ State: _____ Zip: _____ Email: _____

Type of Business: ❑ Resale / Distributor ❑ OEM ❑ End User

VALVE INFORMATION

Quantity: _____ Requested Delivery: _____

Valve Type: *(check one)*
❑ EH30 Series ❑ EX30 Series
❑ EH40 Series ❑ EX40 Series
❑ EH50 Series ❑ EP70 Series
❑ EH70 Series

Flow Designation:
❑ Normally Closed (Energize to Open)
❑ Normally Open (Energize to Close)

Certifications:
❑ CRN (Canadian Registration Number)
❑ ETL Listed Solenoid

Valve Features

Pipe Size: _____

End Connection: ❑ NPT
❑ 150#FL
❑ 300#FL
❑ Other: _____

Solenoid Features

Voltage: ❑ AC _____ Volts ____Hz
❑ DC _____Volts

Enclosure Construction:
❑ Watertight ❑ Explosion Proof
❑ Other: _____

Operating Conditions

Fluid: _____
Max. Op. Press. Diff.: _____
Fluid Temp: _____
Viscosity: _____
Flow Rate or C_v: _____
Max. Press. Drop: _____
Ambient Temp: _____

Options / Application Notes: _____

_____

_____

_____

_____

CONTACT INFORMATION

CLARK COOPER
A DIVISION OF MAGNATROL VALVE CORP.

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