DELTA®

EV

Fast safety solenoid valve one way - normally closed

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Fast safety solenoid valve
one way - normally closed
Type EV

1- Applications

The Delta type EV electrical solenoid valve is a normally closed one-way, direct acting valve. It is designed for use as an interrupter valve or as a shut-off valve in fuel oil burners or manufacturing processes.

The body is fabricated of brass, the plunger is of magnetic quality steel and the seal is a synthetic rubber which is suitable for use with light distillate oils and other fluids that are compatible with the above materials.

2- Technical specifications

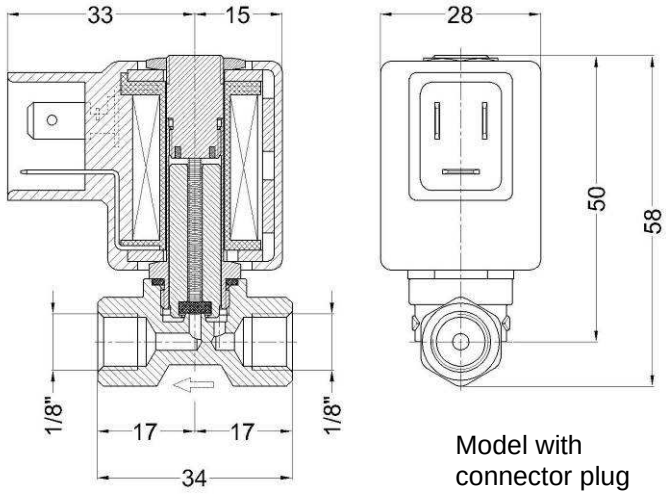
Oil temperature: ..... 60℃ max
Max. operating pressure: … 25 Bar
Ambient temperature: …….. 0℃ / +60℃
Opening response: …….. Instantaneous cut-off (open when energized)
Power consumption: …… 9 W
Protection class: ..…….. IP65
Flow factor (Kv): …….. 0,08 m³/h
Orifice: …….. Ø2 mm
Weight: …….. 200 g
Fluids: …….. Kerosene, heating oil EL, Diesel, K1, #1, #2 fuel oil
Connections: …….. G1/8 MF
G1/8 FF
R1/8 M-G1/4 M
FF 1/8” NPTF
MF 1/8” NPTF

3- Materials and construction

Body: …….. Brass
Plunger:…….. Magnetic quality steel
Spring:……..Stainless steel
Windings: …….. Copper
Seal: …….. FPM
O-ring: …….. NBR
Cord set: …….. PVC

4- Standards

According to EN ISO 23553-1



Model with connector plug

5- Mounting

- Check the direction of flow with the arrow printed on the valve body.
- Check correct alignment of connecting pipes.
- Do not use the valve stem to turn the unit onto the piping.
- Valve may be mounted with coil in horizontal or vertical position. Do not install upside-down.
- By releasing the nut on top of the valve, the coil may be oriented 360 degrees in any direction.
- Install in an area that is protected from rain and water splashes or drops.
- Do not use PTFE tape in the connections.
- An external filter must be always installed upstream the valve.
- Protection against accidental touch of hot coil must be provided by appropriate installation.

⚠ CAUTION

Turn off all power before servicing any part of the system.

6- Maintenance

Coil replacement

a) Disconnect power supply of the coil.
b) Remove nut on top of valve.
c) Replace coil with an identical one.
d) Connect the replaced coil and reassemble.

Seal cleaning

a) Remove coil as described above.
b) Using a 16 mm wrench unscrew the stem.
c) Clean seal with clean oil and compressed air.
d) Reassemble all the components.

7- Valve identification

EV	8MF	F	B	700

Valve type

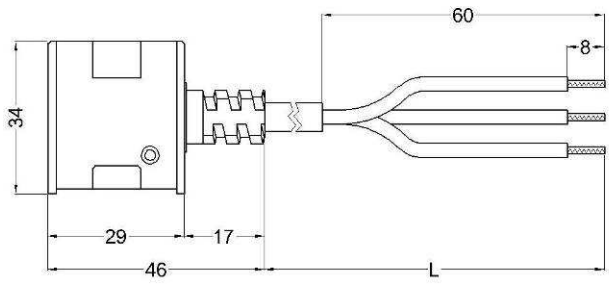
Connections
8MF = G1/8 Male-G1/8 Female
8FF = G1/8 Female-G1/8 Female
8M4M = R1/8 Male-G1/4 Male
8FFN = 1/8”Female-1/8”Female NPTF
8MFN = 1/8”Male-1/8”Female NPTF

Coil type
F = Connector plug
M = Flexible metal conduit

Supply voltage
A = 230V 50-60Hz (standard)
B = 110V 50-60Hz
C = 24V 50-60Hz
E = 24V DC

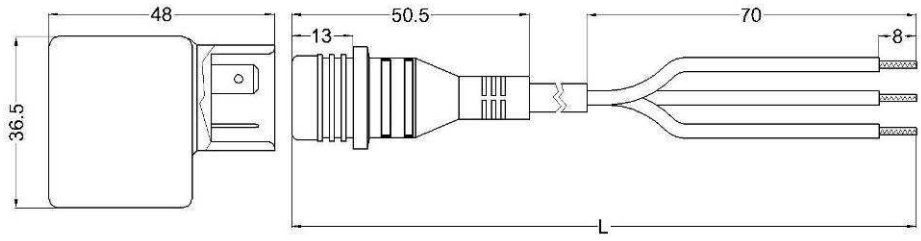
Cable length L
700 mm (standard)

8- Coil styles



The Delta solenoid valves are available with two different styles of coil.

The M8 style with molded cable[1] offers a fast and efficient method of connection resulting in greatly reduced installation time and cost.



The F84 style with an integral connector plug can easily be plugged directly into a standard electrical supply line connector, simplifying coil replacement.

Cable type H03VV-F 3x0.75 mm^2

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