

EV

**Fast safety solenoid valve
one way - normally closed**

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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

| | |
|----------------------------|---|
| Operating oil temperature: | 60°C max |
| Max. operating pressure: | 25 Bar |
| Ambient temperature: | 0°C / +60°C |
| 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

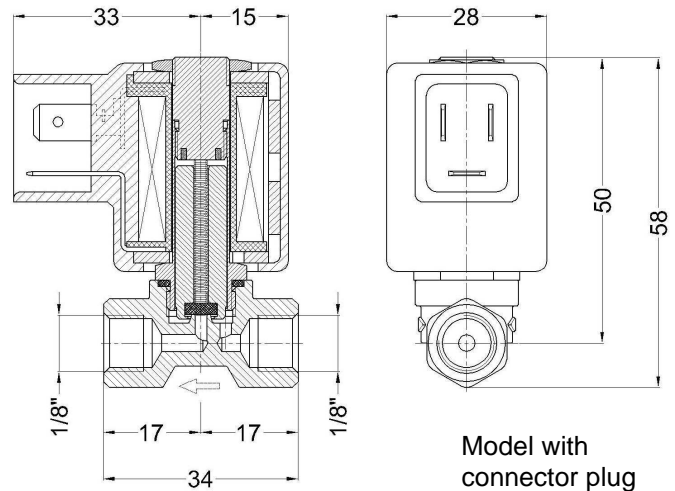
| | |
|-----------|------------------------------|
| Body: | Brass |
| Plunger: | Magnetic quality steel |
| Spring: | Stainless steel |
| Windings: | Copper |
| Seal: | FPM |
| O-ring: | NBR |
| Cord set: | PVC |

4- Approvals

Recognized by Underwriter's Laboratory
for US and Canada
Standard UL429 - File nr. MH26469



Approved by TÜV for UE
Norms EN 264 and EN ISO 23553-1
Registration nr. 5S102/09



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

- Disconnect power supply of the coil.
- Remove nut on top of valve.
- Replace coil with an identical one.
- Connect the replaced coil and reassemble.

Seal cleaning

- Remove coil as described above.
- Using a 16 mm wrench unscrew the stem.
- Clean seal with clean oil and compressed air.
- 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

D = 12V DC

E = 24V DC

F = 380V 50-60Hz

Cable length L

300 mm

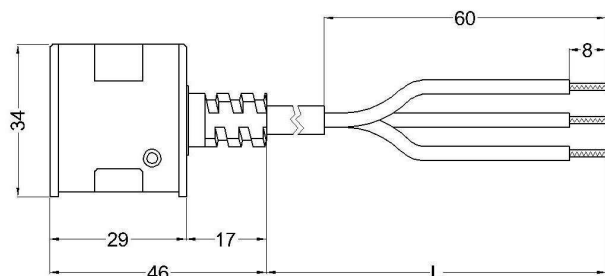
400 mm

500 mm

700 mm (standard)

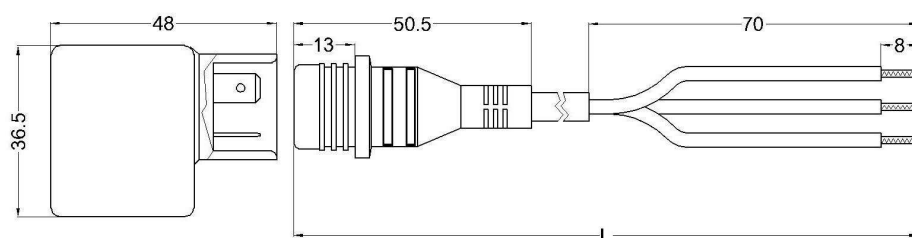
1000 mm

1600 mm

8- Coil styles

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

The M8 style with molded cable¹ 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.

(1)

DIN cable: H03VV-F 3x0.75 mm²

UL cable: 18 AWG 16/30 TC 2/64 PVC 105C 600V VW-1

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We reserves the right to update or make technical changes without prior notice.