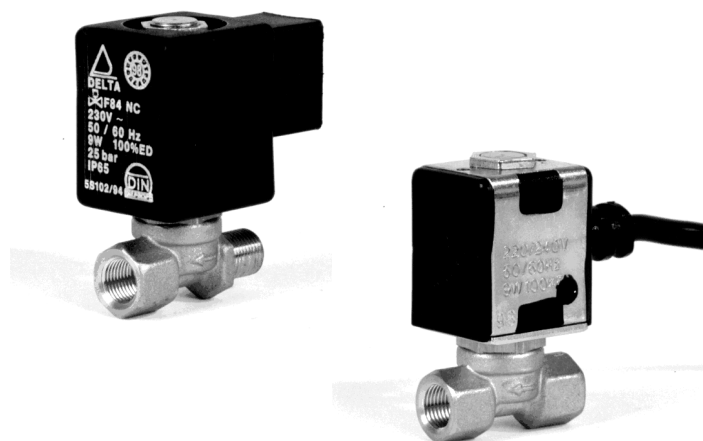




**EV**

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

# 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

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

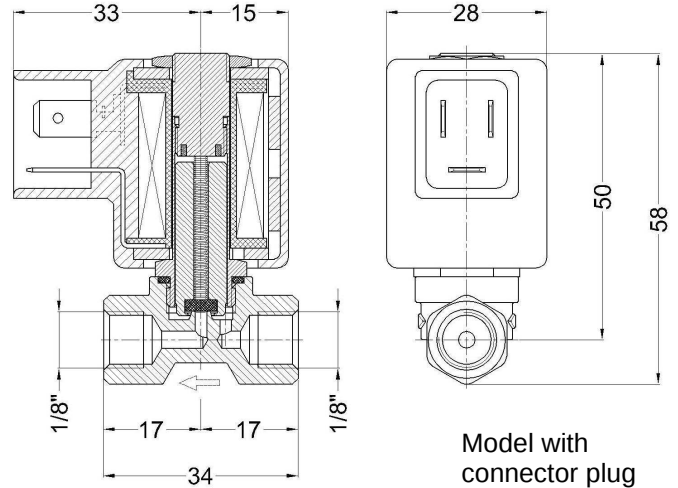
## 3- Materials and construction

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

## 4- Approval

Approved by DIN CERTCO

According to 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**

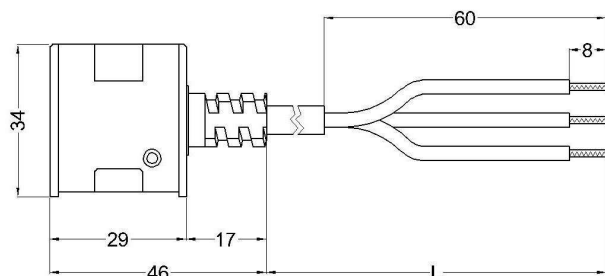
F = Connector plug  
 M = Flexible metal conduit

**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

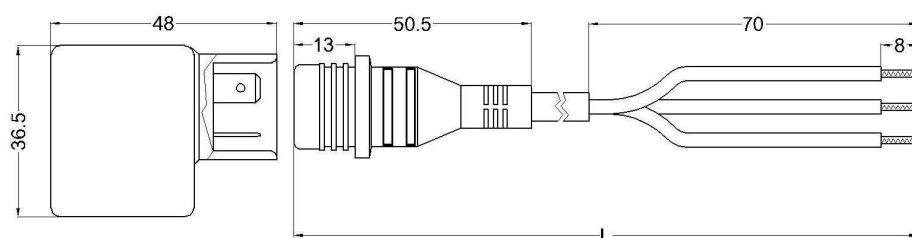
**Cable length L**

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 cable<sup>1</sup> 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) H03VV-F 3x0.75 mm<sup>2</sup>

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