

SOLENOID VALVES

ZE-2,5; ZE-3; ZE-4 type

Code No: see table

APPLICATION

Solenoid valves type ZE-2,5 ; ZE-3 and ZE-4 are directly operated and can be used to control the flow in a positive, fully closed or fully open mode for refrigeration.

These solenoid valves can be used for refrigerant fluids CFC, HCFC, HFC except Ammonia (NH₃).

They may be operated by a variety of electrical switches. Among them are temperature or pressure controls and time or manual switches.

CONSTRUCTION

These solenoid valves are normally closed. When energized, the solenoid coil provides a strong magnetic force which pulls a plunger up into the plunger tube. This opens the valve orifice permitting the flow of medium. These valves cannot be operated manually.

The valve body is made of forged brass. The remaining parts are made of stainless steel and corrosion-proof metal alloys. The gaskets are made of rubber or teflon.

MOUNTING

These valves should be mounted in a vertical position with the coil upright. They have flare connections M12x1,5 for 6 mm DIA copper tubes or for welding to the plant. The direction of flow should be in accordance with the arrow marked on the valve body.

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When the mechanical impurities are present at the medium a proper strainer should be fitted upstream of the valve.

The valve body (except of valves with low voltage coil) should be earthed.

TECHNICAL DATA

| | |
|-----------------------------|-------|
| Maximum medium temperature | 105°C |
| Maximum ambient temperature | 55°C |



ELECTRICAL DATA

| | |
|------------------|--|
| Voltage | 230 V (± 10%) |
| Frequency | 50-60 Hz |
| Power | 17VA |
| Duty Cycle | continuously S1 |
| Protection Class | I |
| Thermal Class | F (155 °C) |
| Enclosure | IP 65 - Plug Connector to ISO 4400 (DIN 43650) |

| Type | Code No | Connection | Port size | Δp max | Nominal Pressure | Flow Factor kV ⁽¹⁾ |
|--------|-----------|-------------|-----------|--------|------------------|-------------------------------|
| | | | mm | MPa | MPa | dm ³ /min. |
| ZE-2,5 | 0256-2041 | M12x1,5 | 2,5 | 2,5 | 3 | 2,5 |
| | 0256-2441 | ø 6 welding | | | | |
| ZE-3 | 0256-2042 | M12x1,5 | 3 | 2 | 2,5 | 3 |
| | 0256-2442 | ø 6 welding | | | | |
| ZE-4 | 0256-2043 | M12x1,5 | 4 | 1,1 | 2,5 | 5 |
| | 0256-2443 | ø 6 welding | | | | |

Medium:

- CFC, HCFC, HFC vapor refrigerants.

- CFC, HCFC, HFC liquid refrigerants

⁽¹⁾ kV – rate of water flow at 0,1 MPa pressure drop across the valve

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