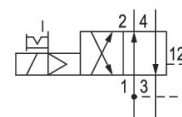


## Series 840

The AVENTICS Series 740/840 feature directional valves with soft, abrasion-free diaphragm technology. The simple, reliable and robust design is suitable for all air qualities and ensures high repeatability and unsurpassed service life. Due to its high resilience, the corrosion-resistant polyamide housing is also suited for dusty and damp environments.



## Technical data

Industry

Industrial

Activation

Electrically

Valve type

Diaphragm poppet valve

Switching principle

4/2, with air spring return

Actuating control

Double Solenoid

Sealing principle

Soft seal

Connection type

Pipe connection

Manual override

with detent

Compressed air connection input

Ø 6x1

Compressed air connection output

Ø 6

Compressed air connection, exhaust

Ø 6x1

Compressed air connection pilot exhaust

Ø 4,5

Nominal flow Qn

200 l/min

Min. working pressure

1.8 bar

Max. working pressure

10 bar

|                                    |                                                                                                                                                                                                                                          |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Note                               | The maximum operating pressure depends on the ambient temperature. The following values are applicable: -15 °C ... 50 °C: Operating pressure 1,8 bar... 8 bar possible. -15 °C ... 40 °C: Operating pressure 1,8 bar... 10 bar possible. |
| Min. control pressure              | 1.5 bar                                                                                                                                                                                                                                  |
| Max. control pressure              | 10 bar                                                                                                                                                                                                                                   |
| Electrical connection type         | Plug                                                                                                                                                                                                                                     |
| Electrical connection size         | EN 175301-803, form C                                                                                                                                                                                                                    |
| Connector standard                 | EN 175301-803, form C                                                                                                                                                                                                                    |
| Protection class with connection   | IP65                                                                                                                                                                                                                                     |
| Reverse polarity protection        | Protected against polarity reversal                                                                                                                                                                                                      |
| Operational voltage                | 12 V DC                                                                                                                                                                                                                                  |
| Operational voltage DC             | 12 V                                                                                                                                                                                                                                     |
| Voltage tolerance DC               | -10 % / +10 %                                                                                                                                                                                                                            |
| Pilot                              | Internal                                                                                                                                                                                                                                 |
| Coil width                         | 20 mm                                                                                                                                                                                                                                    |
| Pilot valve width                  | 22.5 mm                                                                                                                                                                                                                                  |
| Power consumption DC               | 1.6 W                                                                                                                                                                                                                                    |
| Duty cycle                         | 100 %                                                                                                                                                                                                                                    |
| Typ. switch-on time                | 12 ms                                                                                                                                                                                                                                    |
| Typ. switch-off time               | 12 ms                                                                                                                                                                                                                                    |
| Min. ambient temperature           | -15 °C                                                                                                                                                                                                                                   |
| Max. ambient temperature           | 50 °C                                                                                                                                                                                                                                    |
| Min. medium temperature            | -15 °C                                                                                                                                                                                                                                   |
| Max. medium temperature            | 50 °C                                                                                                                                                                                                                                    |
| Medium                             | Compressed air                                                                                                                                                                                                                           |
| Min. oil content of compressed air | 0 mg/m <sup>3</sup>                                                                                                                                                                                                                      |
| Max. oil content of compressed air | 1 mg/m <sup>3</sup>                                                                                                                                                                                                                      |
| Max. particle size                 | 50 µm                                                                                                                                                                                                                                    |
| Mounting on manifold strip         | PRS strip                                                                                                                                                                                                                                |
| Weight                             | 0.101 kg                                                                                                                                                                                                                                 |
| <b>Material</b>                    |                                                                                                                                                                                                                                          |
| Housing material                   | Polyoxymethylene                                                                                                                                                                                                                         |

# 4/2-directional valve, Series 840

5728450410

Series 840

2025-07-21

Seal material

Acrylonitrile butadiene rubber

Part No.

5728450410

## Technical information

Versions with voltage of less than 50 V DC do not have a protective ground.

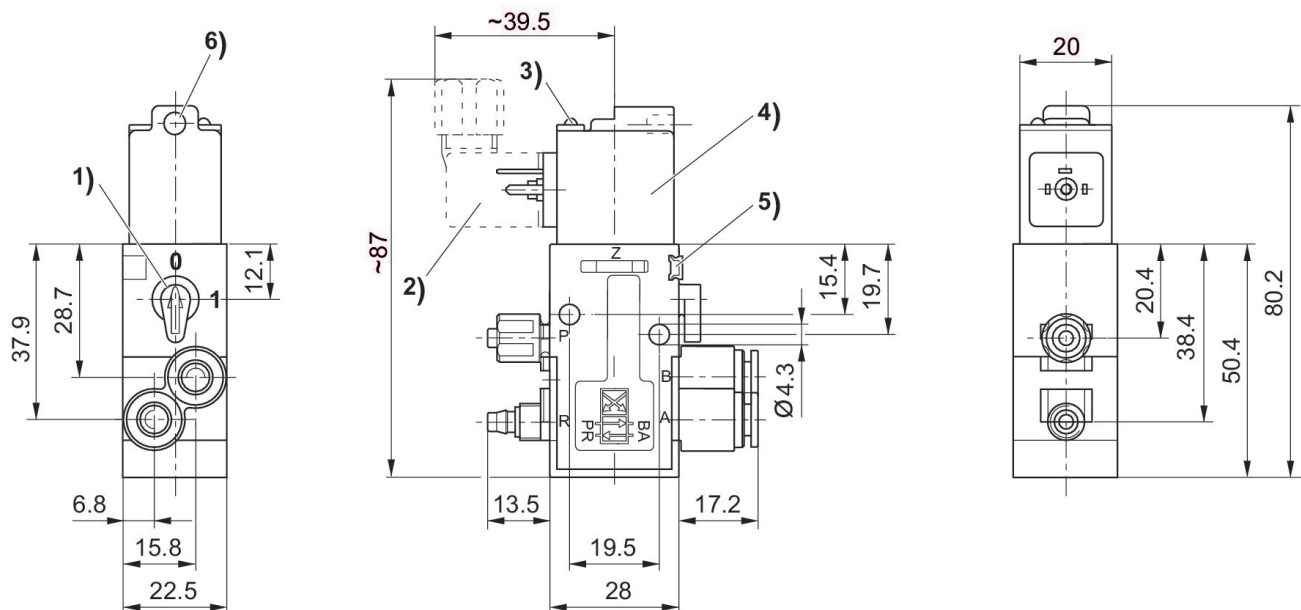
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

The pressure dew point must be at least 15 °C less than ambient and medium temperature and may not exceed 3 °C.

The oil content of compressed air must remain constant during the life cycle.

Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in <https://www.emerson.com/en-us/support>).

## Dimensions



- 1) Manual override 2) Valve plug connector 3) LED display 4) Coil can be rotated at 180° intervals  
5) Mounting space for name plate 6) Hole for M5 fitting or silencer Ø 4.5 mm