

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, double solenoid

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 6x1

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	1.8 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	230 V AC
Operational voltage AC at 50 Hz	230 V
Voltage tolerance AC 50 Hz	-10 % / +15 %
Operational voltage AC at 60 Hz	230 V
Voltage tolerance AC 60 Hz	-10 % / +15 %
Pilot	Internal
Coil width	20 mm
Pilot valve width	22.5 mm
LED status display	Red
Holding power AC 50 Hz	2.5 VA
Holding power AC 60 Hz	2.2 VA
Switch-on power AC 50 Hz	3.5 VA
Switch-on power AC 60 Hz	3 VA
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 ³
Max. oil content of compressed air	1 mg/m ³
Max. particle size	50 µm

Mounting on manifold strip

PRS strip

Weight

0.16 kg

Material

Housing material

Polyoxymethylene

Seal material

Acrylonitrile butadiene rubber

Part No.

5728415680

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>).

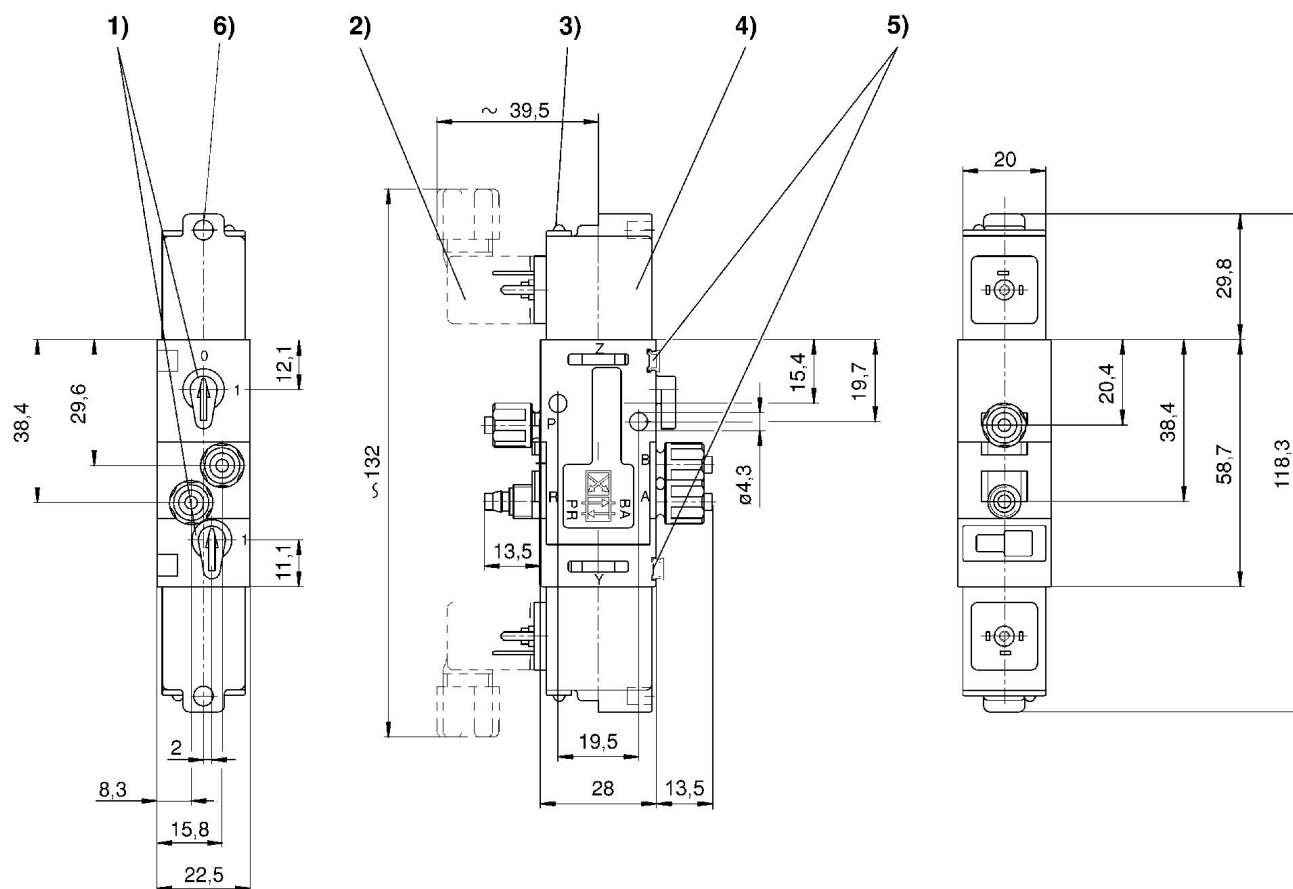
4/2-directional valve, Series 840

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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