

4/2-directional valve, Series 840 - inch, Single Solenoid

R432008662

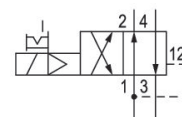
Series 840

2025-10-22

AVENTICS Series 840 Directional valves

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.

- 4/2 diaphragm poppet valves with plastic housing



Technical data

Industry

Activation

Valve type

Switching principle

Actuating control

Sealing principle

Connection type

Manual override

Industrial

Electrically

Diaphragm poppet valve

4/2, with air spring return

Single Solenoid

Soft seal

Pipe connection

with detent

Compressed air connection type

Compressed air connection input

Compressed air connection output

Compressed air connection, exhaust

Compressed air connection pilot exhaust

Threaded connection

1/4" NPTF

1/4" NPTF

1/4" NPTF

Ø 4,5

Nominal flow Qn

200 l/min

Min. working pressure

1.8 bar

Max. working pressure

10 bar

4/2-directional valve, Series 840 - inch, Single Solenoid

R432008662

Series 840

2025-10-22

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	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 ³
Max. oil content of compressed air	1 mg/m ³
Max. particle size	50 µm
Mounting on manifold strip	PRS strip
Weight	0.156 kg
Material	
Housing material	Polyoxymethylene
Seal material	Acrylonitrile butadiene rubber
Part No.	R432008662

4/2-directional valve, Series 840 - inch, Single Solenoid

R432008662

Series 840

2025-10-22

Technical information

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

The maximum operating pressure depends on the ambient temperature. The following values are applicable -15 °C ... 50 °C = Operating pressure [[1.5] bar] ... [[8] bar] possible -15 °C ... 40 °C = Operating pressure [[1.5] bar] ... [[10] bar] possible.

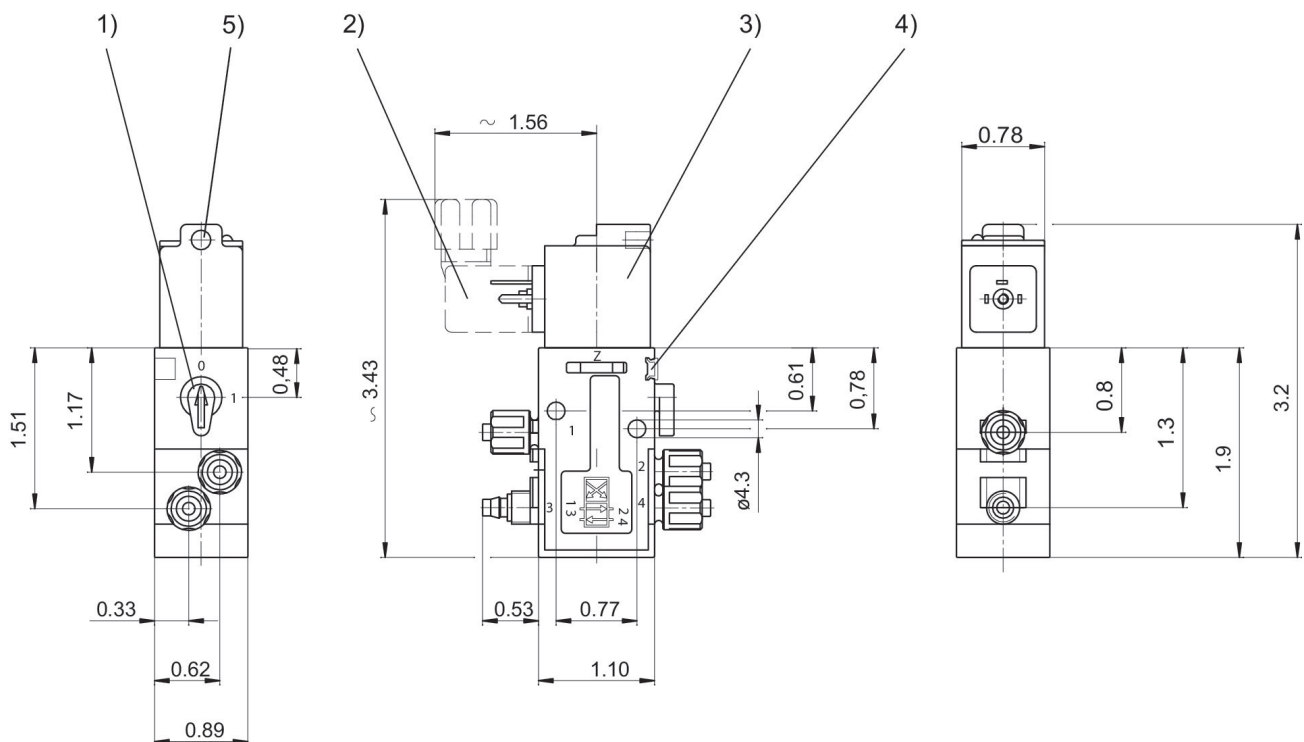
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

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 in inches



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