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AVENTICS Series 740 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.



Technical data Industry Activation Note Valve type Switching principle Actuating control Sealing principle Connection type Manual override

Compressed air connection input Compressed air connection output Compressed air connection, exhaust

Nominal flow Qn

Min. working pressure Max. working pressure

Industrial Electrically ATEX optional Diaphragm poppet valve 5/2, double solenoid Double Solenoid Soft seal Pipe connection with detent

Ø 8x1 Ø 8x1 M14x1

700 l/min

1.5 bar 10 bar



5727440220

Electrical connection type	Plug
Electrical connection size	EN 175301-803, form A
Connector standard	EN 175301-803:2006
Protection class with connection	IP65
Reverse polarity protection	Protected against polarity reversal
Operational voltage	24 V DC
Operational voltage DC	24 V
Voltage tolerance DC	-10% / +10%
Pilot Coil width Compatibility index Power consumption DC	Internal 30 mm 13 14 2.1 W
Duty cycle	100 %
Typ. switch-on time	40 ms
Blocking principle	Plate principle
Can be assembled into blocks	Single base plate principle
Valve plug connector	Can be assembled into blocks
Throttle	With valve plug connector
ATEX	with throttle
Min. ambient temperature	ATEX
Max. ambient temperature	-15 °C
Min. medium temperature	50 °C
Max. 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	5 mg/m ³
Max. particle size	50 μm
Mounting on manifold strip	PRS strip

Material Housing material

Seal material

Polyoxymethylene Acrylonitrile butadiene rubber



5/2-directional valve, Series 740

5727440220

Part No.

5727440220

Technical information

ATEX optional: ATEX version can be produced by combining the basic valve without coil with an ATEX coil. ATEX ID: see ATEX coils catalog page.

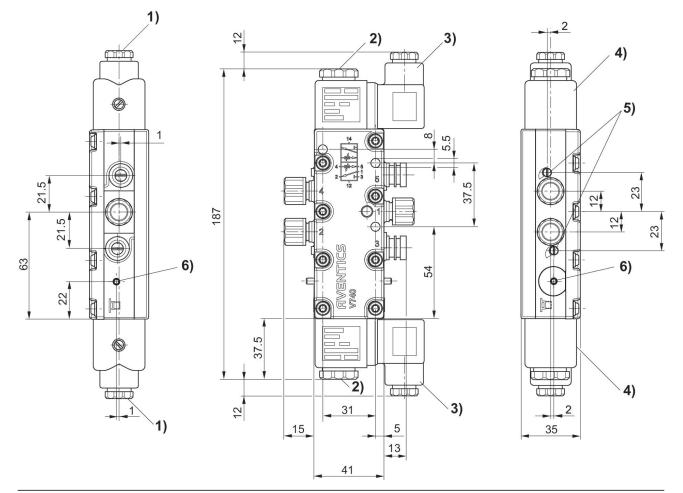
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

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) Gland fitting M16x1.5

2) M5 internal thread accessible under cap

3) Valve plug connector can be rotated at 90° intervals

4) Coil can be plugged at 45° intervals

5) Flow control screw for exhausts 5 (R) and 3 (S)

6) Manual override and position indicator

