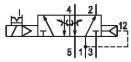
R432016657

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 Industrial Activation Electrically

Valve type Diaphragm poppet valve Switching principle 5/2, with air spring return

Sealing principle Soft seal

Connection type Pipe connection

Manual override with detent

without detent

Compressed air connection input 3/8"

Compressed air connection output 3/8"

Compressed air connection, exhaust M14x1

Nominal flow Qn 700 l/min

Min. working pressure 1.4 bar Max. working pressure 10 bar

Connector standard EN 175301-803:2006

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Protection class with connection **IP65**

Reverse polarity protection Protected against polarity reversal

Operational voltage 12 V DC 12 V Operational voltage DC

Voltage tolerance DC -10% / +10%

Coil width 30 mm 13 Compatibility index 14 Power consumption DC 2.7 W

Duty cycle 100 % Typ. switch-on time 16 ms Typ. switch-off time 36 ms

Blocking principle Plate principle

Single base plate principle Can be assembled into blocks Can be assembled into blocks Valve plug connector Without valve plug connector

Throttle with throttle -15 °C Min. ambient temperature

Max. ambient temperature 50 °C -15 °C Min. medium temperature 50 °C Max. medium temperature

Medium Compressed air

Min. oil content of compressed air 0 mg/m³ Max. oil content of compressed air 5 mg/m³ Max. particle size 50 µm

Mounting on manifold strip PRS strip Weight 0.317 kg

Material

Seal material

Housing material Polyarylamide Polyoxymethylene

Acrylonitrile butadiene rubber

Part No.

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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.

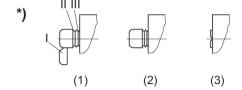
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

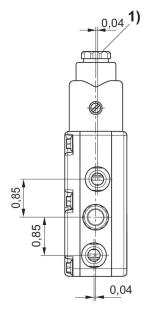
The pressure dew point must be at least 15 °C less than ambient and medium temperature and may not exceed 3 °C.

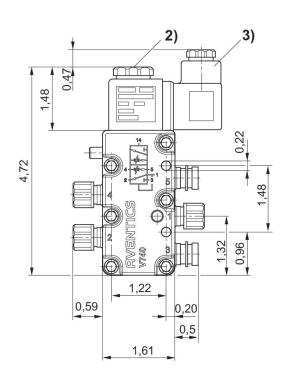
The oil content of compressed air must remain constant during the life cycle.

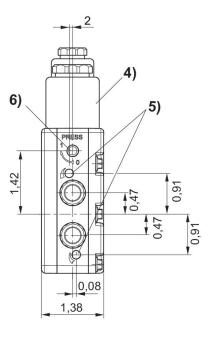
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in https://www.emerson.com/en-us/support).

Dimensions in inches









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

5/2-directional valve, Series 740

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5) Flow control screw for exhausts 5 (R) and 3 (S)
6) Manual override and position indicator
*): Manual override:
Manual actuation: (1) with detent - push and turn into position 1 (2) without detent - remove segment I - push only Actuation with tool: (3) with detent - remove segments up to II - push with tool and turn into position 1