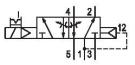
## **AVENTICS Series 740 Directional valves**

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 Valve type Switching principle 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

Connector standard

Industrial Electrically Diaphragm poppet valve 5/2, with air spring return Soft seal Pipe connection with detent without detent

5/16" (Ø 8) 5/16" (Ø 8) M14x1

700 l/min

1.4 bar 10 bar

EN 175301-803:2006





## 5/2-directional valve, Series 740

R432016649

Protection class with connection Reverse polarity protection Operational voltage Operational voltage DC Voltage tolerance DC	IP65 Protected against polarity reversal 24 V DC 24 V -10% / +10%
Coil width	30 mm
Compatibility index	13 14
Power consumption DC	14 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
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/m³
Max. oil content of compressed air	5 mg/m <sup>3</sup>
Max. particle size	50 µm
Mounting on manifold strip	PRS strip
Weight	0.317 kg
Material	
Housing material	Polyarylamide
Housing matchai	Polyoxymethylene

Seal material Part No. Polyarylamide Polyoxymethylene Acrylonitrile butadiene rubber R432016649

## 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.

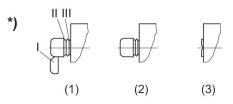
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

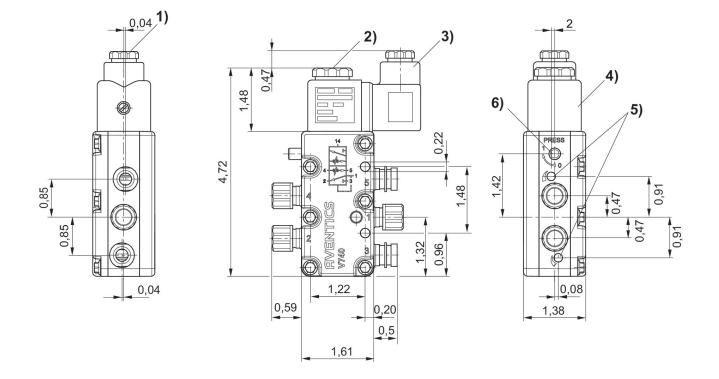
The pressure dew point must be at least 15 °C less than ambient and medium temperature and may not exceed 3 °C.

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

R432016649

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