#### **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 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

Electrical connection type

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

3/8″ 3/8″ M14x1

700 l/min

2 bar 10 bar

Plug





# 5/2-directional valve, Series 740-CP

R432015597

Electrical connection size Connector standard Protection class with connection Reverse polarity protection Operational voltage Operational voltage AC at 50 Hz Voltage tolerance AC 50 Hz Operational voltage AC at 60 Hz	EN 175301-803, form A EN 175301-803:2006 IP65 Protected against polarity reversal 110 V AC 110 V -20% / +10% 110 V -10% / +20%
Pilot	Internal
Coil width	30 mm
Compatibility index	14
Holding power AC 50 Hz	3.7 VA
Switch-on power AC 50 Hz	6.4 VA
Duty cycle	100 %
Typ. switch-on time	40 ms
Blocking principle Can be assembled into blocks Corrosion resistance Valve plug connector Throttle Min. ambient temperature Max. ambient temperature Min. medium temperature Max. medium temperature Medium Min. oil content of compressed air Max. oil content of compressed air Max. particle size	Single base plate principle Plate principle Can be assembled into blocks corrosion-protected Without valve plug connector with throttle -15 °C 50 °C -15 °C 50 °C Compressed air 0 mg/m³ 5 mg/m³ 50 µm
Mounting on manifold strip	PRS strip
Weight	0.52 kg

Material Housing material

Polyoxymethylene



### 5/2-directional valve, Series 740-CP

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Seal material	Acrylonitrile butadiene rubber
Material front plate	Polyarylamide
Part No.	R432015597

#### 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.

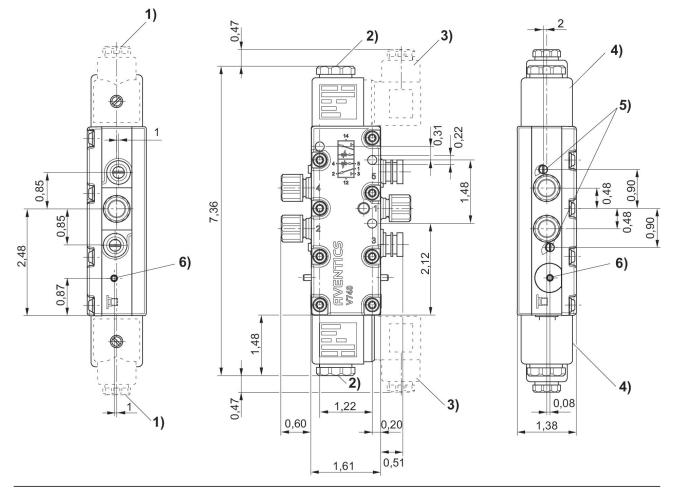
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

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





## 5/2-directional valve, Series 740-CP

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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