#### **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, double solenoid Actuating control Double Solenoid

Soft seal Sealing principle

Connection type Pipe connection Manual override with detent

3/8" Compressed air connection input Compressed air connection output 3/8" Compressed air connection, exhaust M14x1

700 l/min Nominal flow Qn

Min. working pressure 2 bar Max. working pressure 10 bar

Electrical connection type Plug R432015599

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

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

Duty cycle 100 % Typ. switch-on time 40 ms

Blocking principle Single base plate principle

Plate principle

Can be assembled into blocks

Can be assembled into blocks

Corrosion resistance corrosion-protected

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/m³ Max. particle size 50  $\mu$ m

Mounting on manifold strip PRS strip
Weight 0.52 kg

Material

Housing material Polyoxymethylene

Seal material Acrylonitrile butadiene rubber

Material front plate Polyarylamide Part No. Polyarylamide R432015599

## 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.

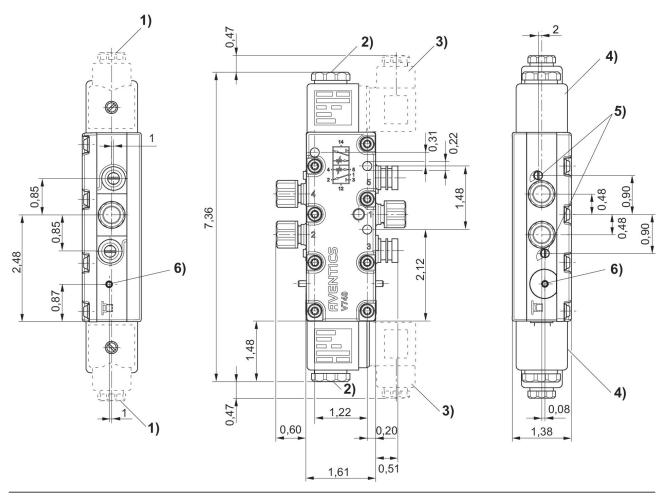
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

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) Flow control screw for exhausts 5 (R) and 3 (S)
- 6) Manual override and position indicator