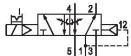
R432015591

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

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

Electrical connection type Plug

Electrical connection size EN 175301-803, form B

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Electrical connection number of poles 3-pin

Connector standard EN 175301-803:2006

Protection class with connection IP65

Reverse polarity protection Protected against polarity reversal

Operational voltage 220 V AC Operational voltage AC at 50 Hz 220 V

Voltage tolerance AC 50 Hz -20% / +10%

Operational voltage AC at 60 Hz 220 V

Voltage tolerance AC 60 Hz -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 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

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 μ m

Mounting on manifold strip PRS strip Weight 0.326 kg

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Material

Housing material Polyoxymethylene

Seal material Acrylonitrile butadiene rubber

Material front plate Polyarylamide Part No. Polyarylamide R432015591

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.

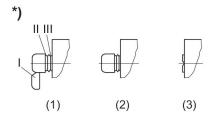
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

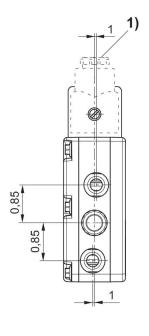
The pressure dew point must be at least 15 °C less than ambient and medium temperature and may not exceed 3 °C.

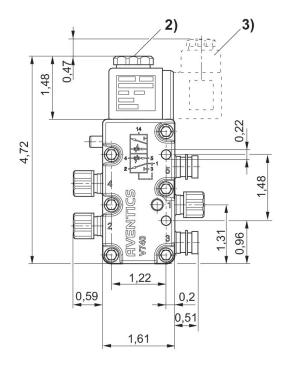
The oil content of compressed air must remain constant during the life cycle.

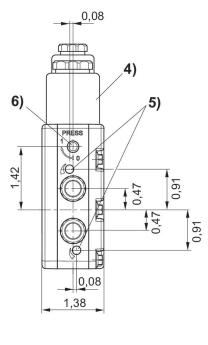
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in https://www.emerson.com/en-us/support).

Dimensions in inches









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

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

^{*):} Manual override: