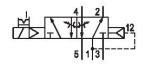
AVENTICS Series 740 Directional valves

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
Note ATEX optional

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

Compressed air connection input \emptyset 10x1 Compressed air connection output \emptyset 10x1 Compressed air connection, exhaust M14x1

Nominal flow Qn 1100 l/min

Min. working pressure 1.5 bar Max. working pressure 10 bar

Electrical connection type Plug

5727475280

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 230 V AC
Operational voltage AC at 50 Hz 230 V

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

Operational voltage AC at 60 Hz 230 V

Voltage tolerance AC 60 Hz -10% / +20%

Pilot Internal Coil width 30 mm Compatibility index 14 2.1 W Power consumption DC 4.18 VA Holding power AC 50 Hz 3.3 VA Holding power AC 60 Hz Switch-on power AC 50 Hz 6.6 VA Switch-on power AC 60 Hz 5.5 VA

Duty cycle 100 %
Typ. switch-on time 17 ms
Typ. switch-off time 26 ms

Blocking principle Plate principle

Can be assembled into blocks

Single base plate principle
Can be assembled into blocks

Temperature resistance -25 °C cold-resistant

Valve plug connector Without valve plug connector

Throttle with throttle
Min. ambient temperature -25 °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 0.325 kg

5727475280

Material

Housing material Polyoxymethylene

Polyarylamide

Seal material Acrylonitrile butadiene rubber

Part No. 5727475280

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.

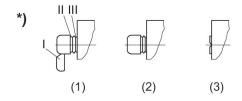
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

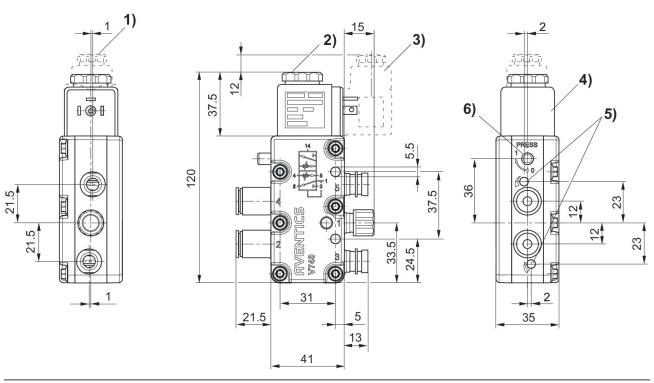
The pressure dew point must be at least 15 °C less than ambient and medium temperature and may not exceed 3 °C.

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





- 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:

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