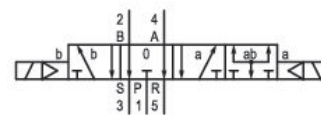


AVENTICS Series 740 Directional valves

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

Valve function

Actuating control

Sealing principle

Connection type

Manual override

Industrial

Electrically

Diaphragm poppet valve

5/4, pressurized center

Pressurized Center

Double Solenoid

Soft seal

Pipe connection

with detent

without detent

Compressed air connection input

3/8"

Compressed air connection output

3/8"

Compressed air connection, exhaust

M14x1

Nominal flow Q_n

700 l/min

Min. working pressure

1.5 bar

Max. working pressure

10 bar

Electrical connection type	Plug
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	110 V AC
Operational voltage AC at 50 Hz	110 V
Voltage tolerance AC 50 Hz	-10% / +10%
Operational voltage AC at 60 Hz	110 V
Voltage tolerance AC 60 Hz	-10% / +10%

Pilot	Internal
Coil width	30 mm
Compatibility index	14
Holding power AC 50 Hz	4.8 VA
Holding power AC 60 Hz	3.6 VA
Switch-on power AC 50 Hz	8 VA
Switch-on power AC 60 Hz	6.5 VA

Duty cycle	100 %
Typ. switch-on time	20 ms
Typ. switch-off time	54 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
Certificates	UL (Underwriters Laboratories)
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/m ³
Max. oil content of compressed air	5 mg/m ³
Max. particle size	50 µm

Mounting on manifold strip	PRS strip
Weight	0.497 kg

Material

Housing material

Polyoxymethylene

Seal material

Acrylonitrile butadiene rubber

Part No.

R432038422

Technical information

UL recognized solenoid coils with cURus mark

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.

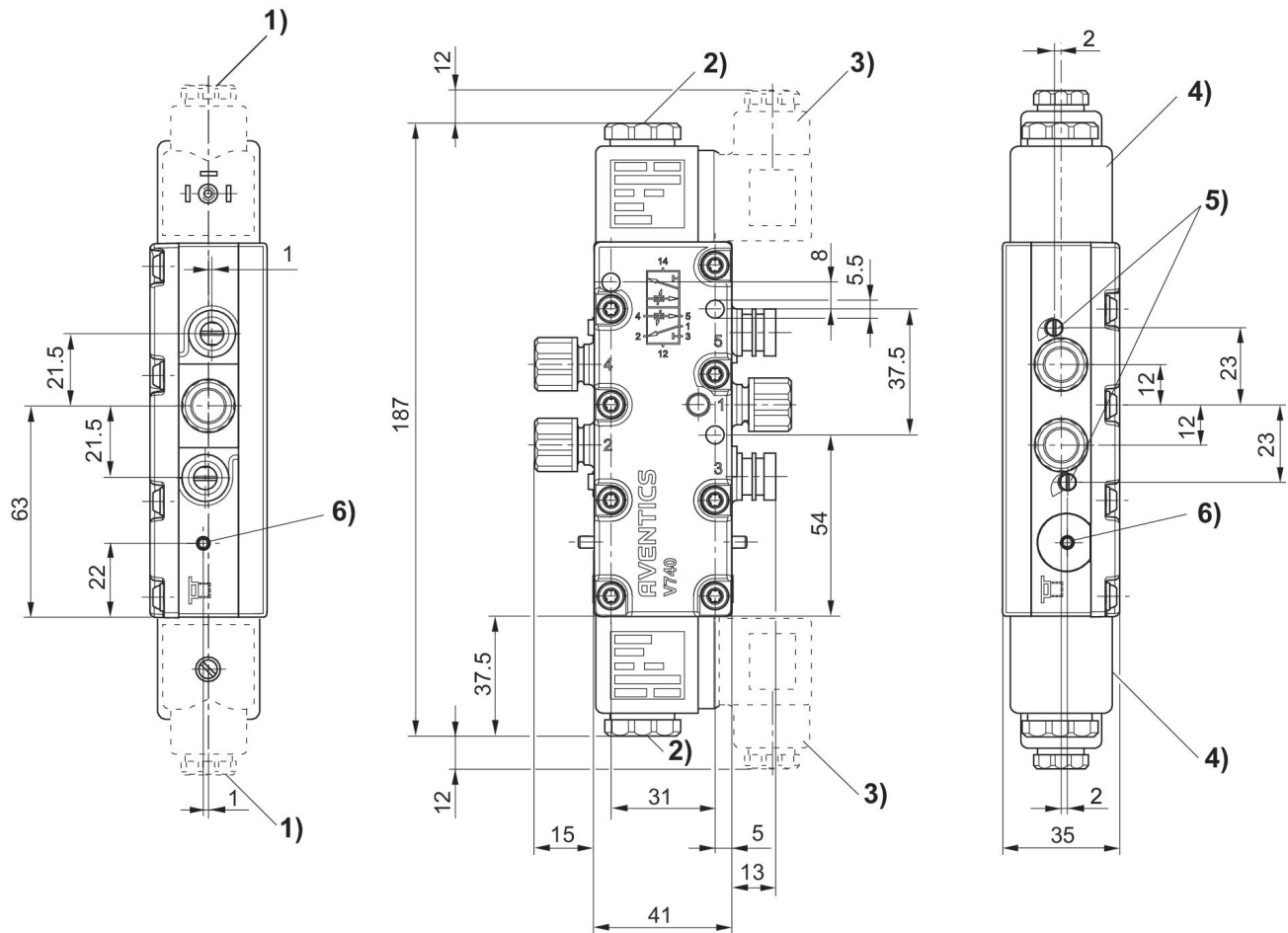
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in <https://www.emerson.com/en-us/support>).

5/4-directional valve, Series 740-UL

2023-11-27

R432038422

Dimensions



- 1) Gland fitting M16x1.5
- 2) M5 internal thread accessible under cap
- 3) Valve plug connector can be rotated at 90° intervals (not included in scope of delivery)
- 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