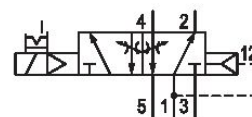


AVENTICS Series 740 Directional valves

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

Note

Valve type

Switching principle

Actuating control

Sealing principle

Connection type

Manual override

Industrial

Electrically

700 l/min

Diaphragm poppet valve

5/2, with air spring return

Single Solenoid

Soft seal

Pipe connection

with detent

without detent

Compressed air connection type

Internal thread
plug-in with tube nut

Compressed air connection input

3/8"

Compressed air connection output

3/8"

Compressed air connection, exhaust

M14x1

Nominal flow Qn

700 l/min

5/2-directional valve, Series 740

R432038437

Series 740

2025-10-23

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	24 V DC
Operational voltage DC	24 V
Voltage tolerance DC	-10 % / +10 %
Pilot	Internal
Coil width	30 mm
Compatibility index	52
Power consumption DC	2.7 W
Duty cycle	100 %
Typ. switch-on time	17 ms
Typ. switch-off time	24 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	-25 °C
Max. ambient temperature	50 °C
Min. medium temperature	-25 °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	0.317 kg

Material

Housing material

Polyoxymethylene

Seal material

Acrylonitrile butadiene rubber

Part No.

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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.

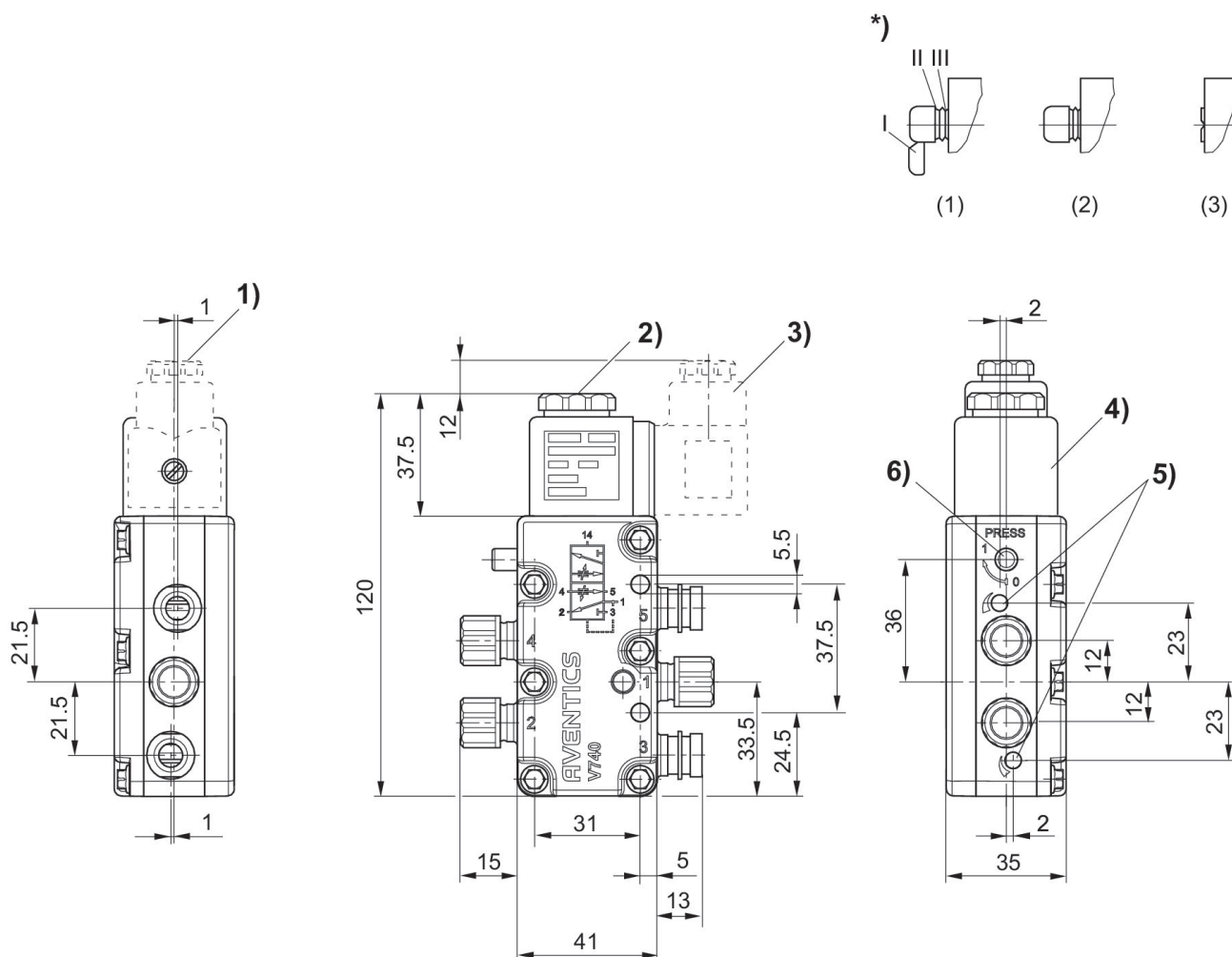
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in <https://www.emerson.com/en-us/support>).

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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
- *) Manual override:

*) 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