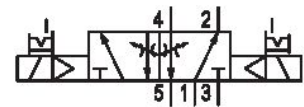


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## AVENTICS Series 740 Directional valves

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, double solenoid

Actuating control

Double Solenoid

Sealing principle

Soft seal

Connection type

Pipe connection

Manual override

with detent

Compressed air connection input

Ø 10x1

Compressed air connection output

Ø 10x1

Compressed air connection, exhaust

M14x1

Nominal flow Qn

1100 l/min

Min. working pressure

1.5 bar

Max. working pressure

10 bar

# 5/2-directional valve, Series 740

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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	13 14
Power consumption DC	2.1 W

Duty cycle	100 %
Typ. switch-on time	40 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 with throttle
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/m <sup>3</sup>
Max. oil content of compressed air	5 mg/m <sup>3</sup>
Max. particle size	50 µm

Mounting on manifold strip	PRS strip
Weight	0.514 kg

## Material

Housing material	Polyoxymethylene
Seal material	Acrylonitrile butadiene rubber

# 5/2-directional valve, Series 740

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Part No.

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## 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.

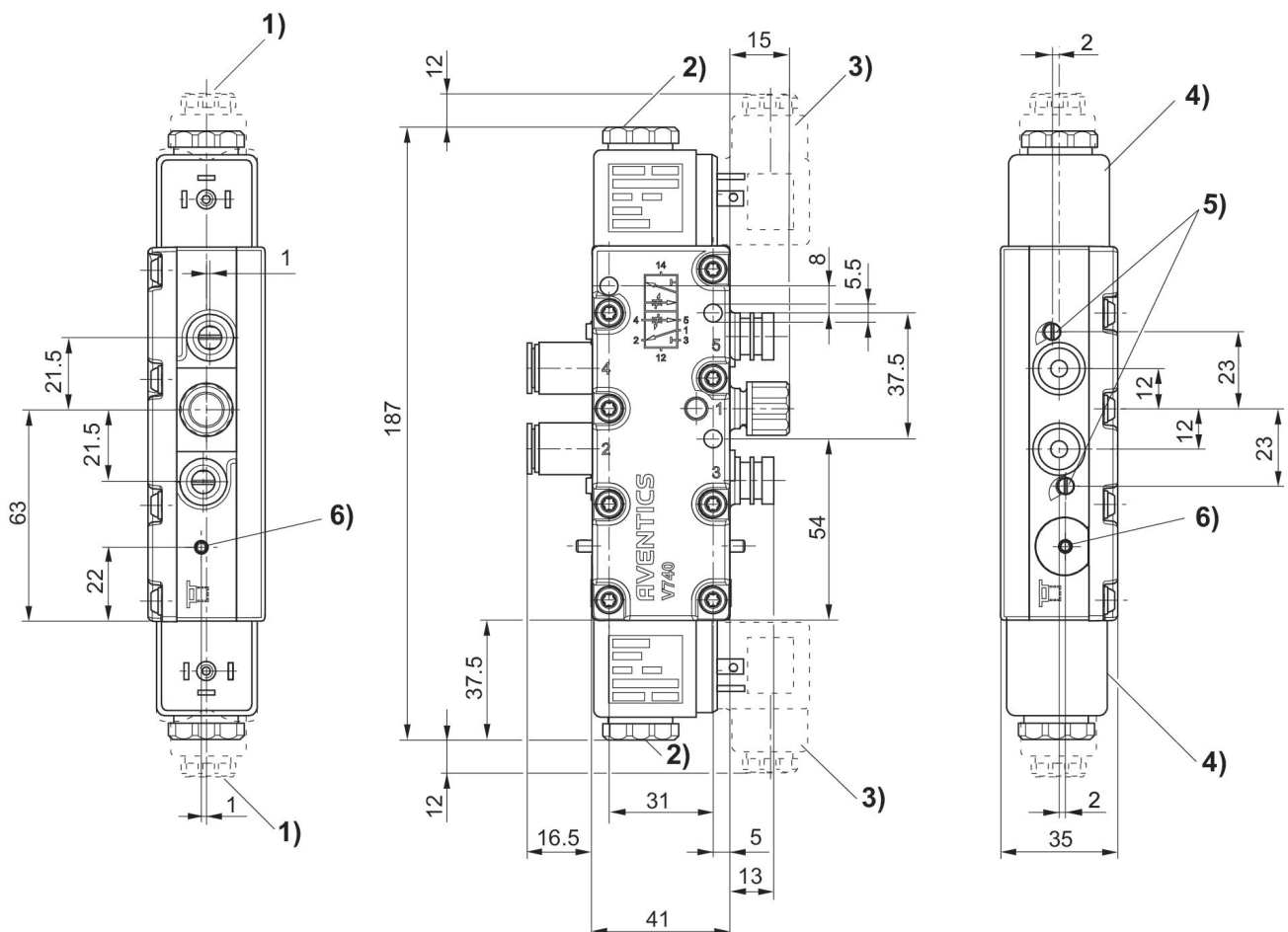
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

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