

# 5/2-directional valve, Series 740, double solenoid

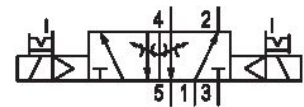
R432038438

Series 740

2025-10-20

## 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

700 l/min

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  
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

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|                                    |                                                |
|------------------------------------|------------------------------------------------|
| 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                | 40 ms                                          |
| Typ. switch-off time               | 40 ms                                          |
| Blocking principle                 | Plate principle<br>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 <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                             | 0.505 kg                                       |

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## 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>).

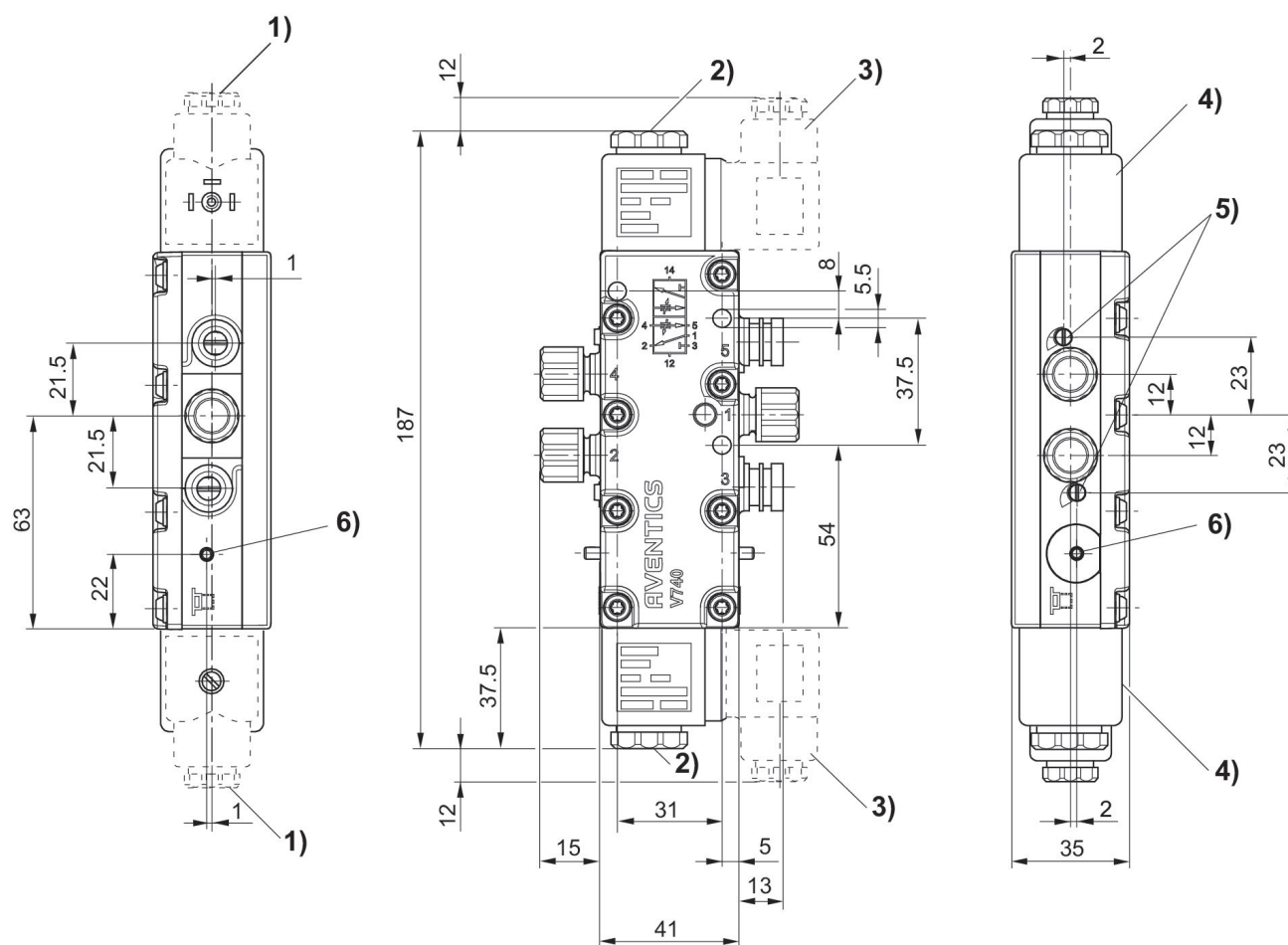
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## Dimensions



- 1) 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