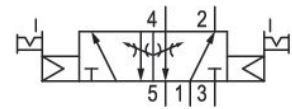


R412009671

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

Basic valve equipment

Basic valve without coil

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 8x1

Compressed air connection output

Ø 8x1

Compressed air connection, exhaust

M14x1

Nominal flow Qn

700 l/min

Min. working pressure

1.5 bar

Max. working pressure

10 bar

5/2-directional valve, Series 740-BV

2023-11-27

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| | |
|------------------------------------|--|
| Protection class with connection | IP65 |
| Pilot | Internal |
| Coil width | 30 mm |
| Compatibility index | 14 |
| Duty cycle | 100 % |
| Typ. switch-on time | 40 ms |
| Blocking principle | Single base plate principle Plate principle |
| Can be assembled into blocks | Can be assembled into blocks |
| Temperature resistance | -25 °C cold-resistant |
| Throttle | with throttle |
| ATEX | ATEX optional |
| 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 |
| Weight | 0.319 kg |
| Material | |
| Housing material | Polyoxymethylene |
| Seal material | Acrylonitrile butadiene rubber |
| Material front plate | Polyoxymethylene |
| Part No. | R412009671 |

Technical information

Nominal flow Q_n at 6 bar and $\Delta p = 1$ bar

Basic valve without coil

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.

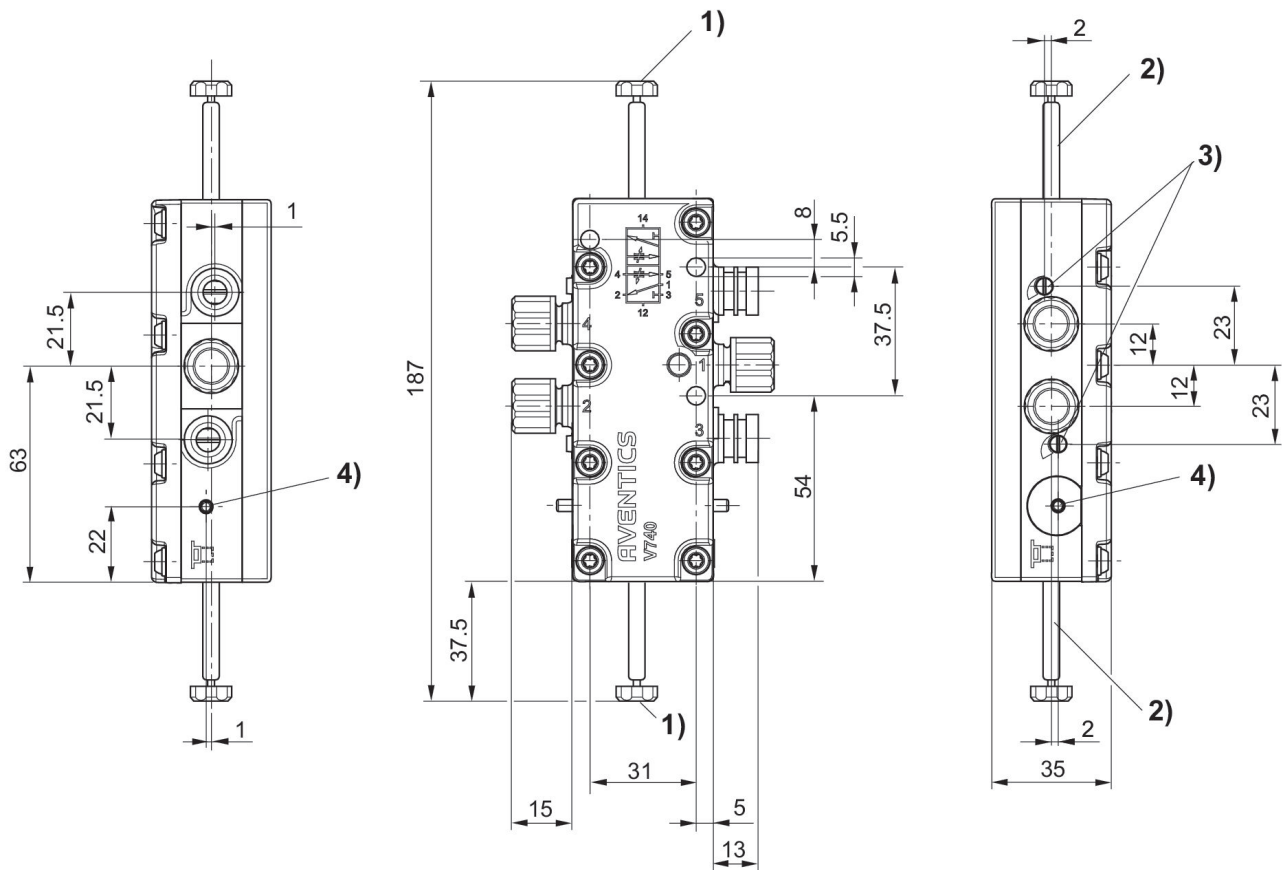
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

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 in mm



- 1) M5 internal thread
- 2) Coil can be plugged at 45° intervals
- 3) Throttle screw for exhausts 5 (R) and 3 (S) (S)
- 4) Manual override and position indicator