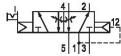
### R412009690

## **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, with air spring return

Actuating control Single Solenoid

Sealing principle Soft seal

Connection type Pipe connection Manual override with detent

Nominal flow Qn 700 I/min

Min. working pressure 1.5 bar Max. working pressure 10 bar

R412009690

Protection class with connection IP65

Pilot Internal
Coil width 30 mm
Compatibility index 14

Duty cycle 100 %
Typ. switch-on time 16 ms
Typ. switch-off time 35 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/m³ Max. oil content of compressed air 5 mg/m³ Max. particle size 50  $\mu$ m

Weight 0.221 kg

Material

Housing material Polyoxymethylene

Seal material Acrylonitrile butadiene rubber

Material front plate Polyamide
Part No. R412009690

# Technical information

Nominal flow Qn 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.

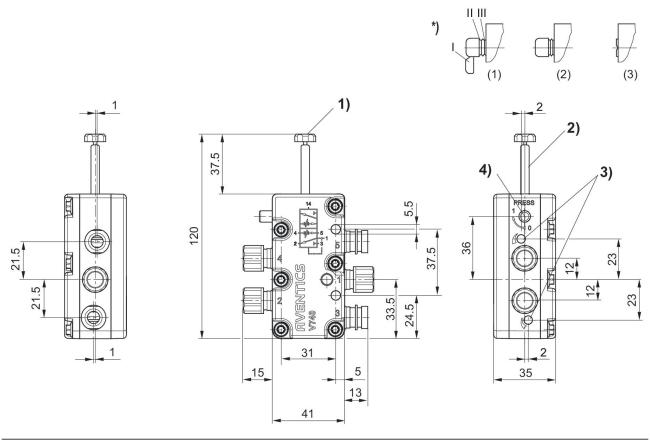
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

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



<sup>1)</sup> M 5 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 \*): manual override: manual actuation: (1) with detent - push and turn into position 1 (2) without detent - remove segment 1 - push only actuation by tool: (3) with detent - remove segments up to III - push with tool and turn into position 1