### **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 Valve type Switching principle Actuating control Sealing principle Connection type Manual override

Compressed air connection input Compressed air connection output Compressed air connection, exhaust

Nominal flow Qn

Min. working pressure Max. working pressure

Electrical connection type

Industrial Electrically Diaphragm poppet valve 5/2, double solenoid Double Solenoid Soft seal Pipe connection with detent

5/16" (Ø 8) 5/16" (Ø 8) M14x1

700 l/min

1.5 bar 10 bar

Plug





# 5/2-directional valve, Series 740

R432030385

Electrical connection size Connector standard Protection class with connection Reverse polarity protection Operational voltage Operational voltage DC Voltage tolerance DC	EN 175301-803, form A EN 175301-803:2006 IP65 Protected against polarity reversal 12 V DC 12 V -10% / +10%
Pilot	Internal
Coil width	30 mm
Compatibility index	13
	14
Power consumption DC	2.7 W
Duty cycle	100 %
Typ. switch-on time	40 ms
Placking principla	Single base plate principle
Blocking principle	Plate principle
Can be assembled into blocks	•
	Plate principle
Can be assembled into blocks	Plate principle Can be assembled into blocks
Can be assembled into blocks Valve plug connector	Plate principle Can be assembled into blocks Without valve plug connector
Can be assembled into blocks Valve plug connector Throttle	Plate principle Can be assembled into blocks Without valve plug connector with throttle
Can be assembled into blocks Valve plug connector Throttle Min. ambient temperature	Plate principle Can be assembled into blocks Without valve plug connector with throttle -15 °C
Can be assembled into blocks Valve plug connector Throttle Min. ambient temperature Max. ambient temperature	Plate principle Can be assembled into blocks Without valve plug connector with throttle -15 °C 50 °C
Can be assembled into blocks Valve plug connector Throttle Min. ambient temperature Max. ambient temperature Min. medium temperature	Plate principle Can be assembled into blocks Without valve plug connector with throttle -15 °C 50 °C -15 °C
Can be assembled into blocks Valve plug connector Throttle Min. ambient temperature Max. ambient temperature Min. medium temperature Max. medium temperature	Plate principle Can be assembled into blocks Without valve plug connector with throttle -15 °C 50 °C 50 °C
Can be assembled into blocks Valve plug connector Throttle Min. ambient temperature Max. ambient temperature Min. medium temperature Max. medium temperature Medium	Plate principle Can be assembled into blocks Without valve plug connector with throttle -15 °C 50 °C -15 °C 50 °C Compressed air
Can be assembled into blocks Valve plug connector Throttle Min. ambient temperature Max. ambient temperature Min. medium temperature Max. medium temperature Medium Min. oil content of compressed air	Plate principle Can be assembled into blocks Without valve plug connector with throttle -15 °C 50 °C -15 °C 50 °C Compressed air 0 mg/m <sup>3</sup>
Can be assembled into blocks Valve plug connector Throttle Min. ambient temperature Max. ambient temperature Min. medium temperature Max. medium temperature Medium Min. oil content of compressed air Max. oil content of compressed air	Plate principle Can be assembled into blocks Without valve plug connector with throttle -15 °C 50 °C -15 °C 50 °C Compressed air 0 mg/m <sup>3</sup> 5 mg/m <sup>3</sup>
Can be assembled into blocks Valve plug connector Throttle Min. ambient temperature Max. ambient temperature Min. medium temperature Max. medium temperature Medium Min. oil content of compressed air Max. oil content of compressed air Max. particle size	Plate principle Can be assembled into blocks Without valve plug connector with throttle -15 °C 50 °C -15 °C 50 °C Compressed air 0 mg/m <sup>3</sup> 5 mg/m <sup>3</sup> 50 μm

## Material

Housing material Seal material Part No. Polyoxymethylene Acrylonitrile butadiene rubber R432030385



#### 2023-11-27

## **Technical information**

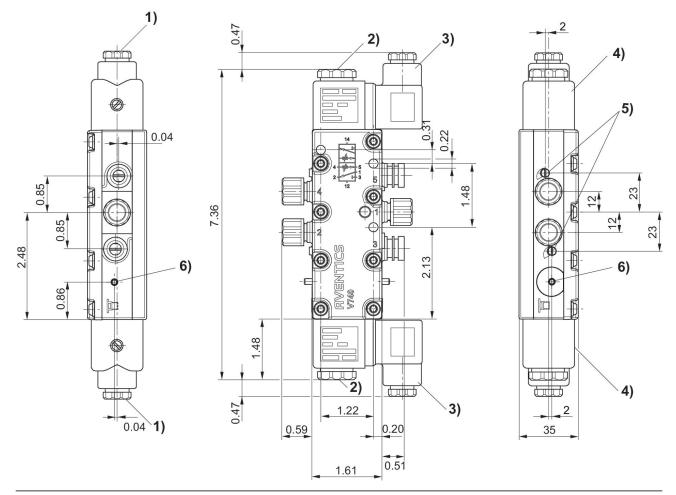
ATEX optional: ATEX version can be produced by combining the basic valve without coil with an ATEX coil. ATEX ID: see ATEX coils catalog page.

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 in inches**

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

