4/2-directional valve, Series 840 5728415470

Series 840

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

Industrial Electrically Diaphragm poppet valve 4/2, double solenoid Double Solenoid Soft seal Pipe connection with detent

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

Nominal flow Qn

Min. working pressure Max. working pressure 200 l/min

Ø 6x1

Ø 6x1

Ø 6x1

Ø4,5

1.8 bar 10 bar



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Min. control pressure1.8 barMax. control pressure10 barElectrical connection sizeEN 175301-803, form CConnector standardEN 175301-803, form CProtection class with connectionIP65Reverse polarity protectionProtected against polarity reversalOperational voltage110 V ACOperational voltage AC at 50 Hz110 VVoltage tolerance AC 50 Hz-10% / +15%Operational voltage AC at 60 Hz110 VVoltage tolerance AC 60 Hz-10% / +15%PilotInternalCoil width20 mmPilot valve width22.5 mmHolding power AC 50 Hz1.9 VASwitch-on power AC 50 Hz3.1 VASwitch-on power AC 60 Hz100 %Typ. switch-on time12 msTyp. switch-off time12 msMin. ambient temperature50 °CMax. medium temperature50 °CMin. medium temperature50 °CMin. of content of compressed air0 mg/m³Min. oil content of compressed air0 mg/m³Max. particle size50 µm	Note	The maximum operating pressure depends on the ambient temperature. The following values are applicable: -15 °C 50 °C: Operating pressure [[1.8] bar] [[8] bar] possible15 °C 40 °C: Operating pressure [[1.8] bar] [[10] bar] possible.
Electrical connection typePlugElectrical connection sizeEN 175301-803, form CConnector standardEN 175301-803, form CProtection class with connectionIP65Reverse polarity protectionProtected against polarity reversalOperational voltage110 V ACOperational voltage AC at 50 Hz110 VVoltage tolerance AC 50 Hz-10% / +15%Operational voltage AC at 60 Hz110 VVoltage tolerance AC 60 Hz-10% / +15%PilotInternalCoil width20 mmPilot valve width22.5 mmHolding power AC 50 Hz1.9 VASwitch-on power AC 50 Hz3.1 VASwitch-on power AC 60 Hz100 %Typ, switch-off time12 msTyp, switch-off time-15 °CMin. ambient temperature-15 °CMax. medium temperature50 °CMin. medium temperature50 °CMin. medium temperature50 °CMin. oil content of compressed air0 mg/m³Min. oil content of compressed air0 mg/m³	Min. control pressure	1.8 bar
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Pilot valve width22.5 mmHolding power AC 50 Hz2.2 VAHolding power AC 60 Hz1.9 VASwitch-on power AC 50 Hz3.1 VASwitch-on power AC 60 Hz2.6 VADuty cycle100 %Typ. switch-on time12 msTyp. switch-off time12 msMin. ambient temperature-15 °CMax. ambient temperature50 °CMin. medium temperature50 °CMin. oil content of compressed air0 mg/m³Max. oil content of compressed air1 mg/m³	Pilot	Internal
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Holding power AC 60 Hz1.9 VASwitch-on power AC 50 Hz3.1 VASwitch-on power AC 60 Hz2.6 VADuty cycle100 %Typ. switch-on time12 msTyp. switch-off time12 msMin. ambient temperature-15 °CMax. ambient temperature50 °CMin. medium temperature50 °CMax. medium temperature50 °CMax. medium temperature0 mg/m³Min. oil content of compressed air0 mg/m³Max. oil content of compressed air1 mg/m³	Pilot valve width	22.5 mm
Switch-on power AC 50 Hz3.1 VASwitch-on power AC 60 Hz2.6 VADuty cycle100 %Typ. switch-on time12 msTyp. switch-off time12 msMin. ambient temperature-15 °CMax. ambient temperature50 °CMin. medium temperature-15 °CMax. medium temperature50 °CMin. nedium temperature50 °CMin. oil content of compressed air0 mg/m³Max. oil content of compressed air1 mg/m³	Holding power AC 50 Hz	2.2 VA
Switch-on power AC 60 Hz2.6 VADuty cycle100 %Typ. switch-on time12 msTyp. switch-off time12 msMin. ambient temperature-15 °CMax. ambient temperature50 °CMin. medium temperature-15 °CMax. medium temperature50 °CMax. medium temperature50 °CMax. medium temperature50 °CMax. oil content of compressed air0 mg/m³Max. oil content of compressed air1 mg/m³	Holding power AC 60 Hz	1.9 VA
Duty cycle100 %Typ. switch-on time12 msTyp. switch-off time12 msMin. ambient temperature-15 °CMax. ambient temperature50 °CMin. medium temperature-15 °CMax. medium temperature50 °CMax. medium temperature50 °CMax. medium temperature50 °CMax. medium temperature50 °CMax. nedium temperature50 °CMediumCompressed airMin. oil content of compressed air0 mg/m³Max. oil content of compressed air1 mg/m³	Switch-on power AC 50 Hz	3.1 VA
Typ. switch-on time12 msTyp. switch-off time12 msMin. ambient temperature-15 °CMax. ambient temperature50 °CMin. medium temperature-15 °CMax. medium temperature50 °CMedium50 °CMediumCompressed airMin. oil content of compressed air0 mg/m³Max. oil content of compressed air1 mg/m³	Switch-on power AC 60 Hz	2.6 VA
Typ. switch-off time12 msMin. ambient temperature-15 °CMax. ambient temperature50 °CMin. medium temperature-15 °CMax. medium temperature50 °CMedium50 °CMediumCompressed airMin. oil content of compressed air0 mg/m³Max. oil content of compressed air1 mg/m³	Duty cycle	100 %
Min. ambient temperature-15 °CMax. ambient temperature50 °CMin. medium temperature-15 °CMax. medium temperature50 °CMediumCompressed airMin. oil content of compressed air0 mg/m³Max. oil content of compressed air1 mg/m³	Typ. switch-on time	12 ms
Max. ambient temperature50 °CMin. medium temperature-15 °CMax. medium temperature50 °CMediumCompressed airMin. oil content of compressed air0 mg/m³Max. oil content of compressed air1 mg/m³	Typ. switch-off time	12 ms
Min. medium temperature-15 °CMax. medium temperature50 °CMediumCompressed airMin. oil content of compressed air0 mg/m³Max. oil content of compressed air1 mg/m³	Min. ambient temperature	-15 °C
Max. medium temperature50 °CMediumCompressed airMin. oil content of compressed air0 mg/m³Max. oil content of compressed air1 mg/m³	Max. ambient temperature	50 °C
MediumCompressed airMin. oil content of compressed air0 mg/m³Max. oil content of compressed air1 mg/m³	Min. medium temperature	-15 °C
Min. oil content of compressed air0 mg/m³Max. oil content of compressed air1 mg/m³	Max. medium temperature	50 °C
Max. oil content of compressed air 1 mg/m ³	Medium	Compressed air
	Min. oil content of compressed air	0 mg/m³
Max. particle size 50 µm	Max. oil content of compressed air	1 mg/m³
	Max. particle size	50 µm



5728415470

Mounting on manifold strip	
Weight	

PRS strip 0.157 kg

Material
Housing material
Seal material
Part No.

Polyoxymethylene Acrylonitrile butadiene rubber 5728415470

Technical information

Versions with voltage of less than 50 V DC do not have a protective ground.

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.

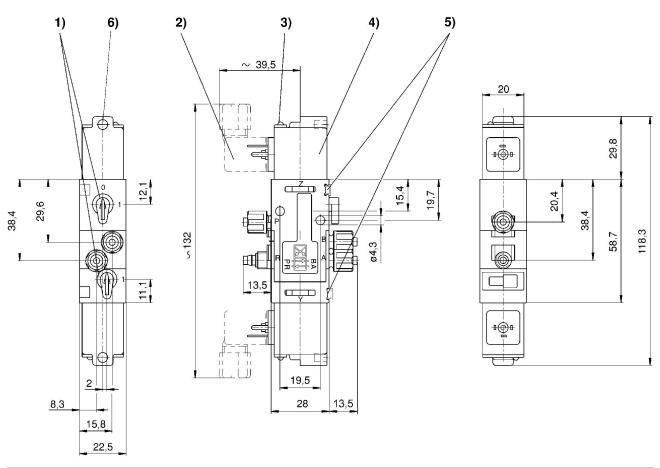
The oil content of compressed air must remain constant during the life cycle.

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).



4/2-directional valve, Series 840

Dimensions



1) Manual override 2) Valve plug connector 3) LED display 4) Coil can be rotated at 180° intervals 5) Mounting space for name plate 6) Hole for M5 fitting or silencer Ø 4.5 mm

