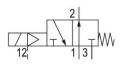
5790420720

AVENTICS Series 490/579/589 Directional Control Valves

The AVENTICS Series 490/579/589 have a robust polymer housing that can be mounted individually or as a block. They cover a large range of voltages and feature fast connections for pneumatic tubing.





Technical data

Industry Industrial
Activation Electrically
Valve type Poppet valve

Switching principle 3/2, with spring return

Valve function NO

Connection type Pipe connection

Compressed air connection input Ø 1/4"

Compressed air connection output Ø 1/4"

Compressed air connection pilot input 5/32"

Min. working pressure0.5 barMax. working pressure8 barMin. control pressure2 barMax. control pressure8 bar

Protection class with connection IP65
Operational voltage 24 V DC

3/2-directional valve, Series 579

2023-11-02

5790420720

Operational voltage DC 24 V

Voltage tolerance DC -10% / +10%

Pilot External
Coil width 20 mm
Power consumption DC 1.7 W

Duty cycle 100 %

Blocking principle Inlet valve

Can be assembled into blocks

Can be assembled into blocks

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^3 Max. oil content of compressed air 1 mg/m^3 Max. particle size $5 \text{ } \mu \text{m}$

Weight 0.093 kg

Material

Housing material Polyamide

Seal material Acrylonitrile butadiene rubber

Polyurethane

Part No. 5790420720

Technical information

At an ambient temperature of [[40] °C] the max. working pressure is [[10] bar].

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

The control pressure must be at least as high as the working pressure.

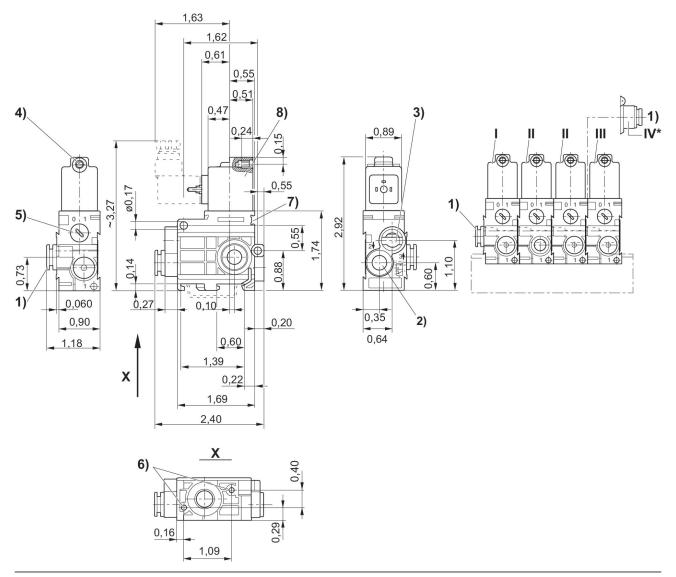
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

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⁾ Port 1 2) Port 2 3) Port 3, exhaust air must not be throttled 4) Core Ø for M5 5) Manual override 6) Pocket hole 6 mm deep for 3.5 self-tapping screw 7) Mounting space for name plate 8) Coil can be rotated at 180° intervals * Air conn. module (item IV) mounted onto stacking valve (item II) permits additional air supply from right hand side. End valve (item III) not required.

I = Inlet valve, II = Stacking valve, III = End valve