

5/3-directional valve, Series XV05

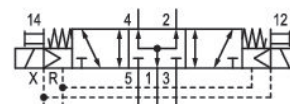
R573A2B51MACCF1

Series
XV05

2026-02-17

Series XV05

The AVENTICS XV05 series provides a reliable basis for both compact handling systems and complex automation solutions. It comprises a wide range of valve functions and accessories as well as the required electrical connectivity for all requirements in factory automation and other industries. The associated XVES Connectivity module allows for connection options ranging from simple direct control via D-SUB or terminal strips to a variety of fieldbus protocols. Our one-of-a-kind online configurator makes it easy to configure the complete valve system, including accessories, so that it is perfectly tailored to your application needs.



Technical data

Industry

Industrial

Activation

Electrically operated

Note

Top connection

Valve type

Spool valve, positive overlapping

Switching principle

5/3, pressurized center

Connection type

Plate connection

Manual override

without detent

Compressed air connection type

Top connection

Pilot control exhaust

with directional pilot air exhaust

Nominal flow Q_n

1000 l/min

Min. working pressure

-0.95 bar

Max. working pressure

8 bar

Min. control pressure

3 bar

Max. control pressure

8 bar

Protection class with connection

IP65

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Operational voltage	24 V DC
Operational voltage DC	24 V
Voltage tolerance DC	-10 % / +10 %
Pilot	External
LED status display	Yellow
Power consumption DC	0.55 W
Duty cycle	100 %
Blocking principle	Base plate principle, multiple
Certificates	UR (Underwriters Laboratories)
Min. ambient temperature	-10 °C
Max. ambient temperature	50 °C
Min. medium temperature	-10 °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	40 µm
Mounting screws	Hexalobular socket (TORX) ISO 10664-T10
Mounting screw tightening torque	0.6 Nm
Tightening torque tolerance	±0,06
Weight	0.102 kg
Material	
Housing material	Polyamide, fiber-glass reinforced
Seal material	Acrylonitrile butadiene rubber Hydrogenated acrylonitrile butadiene rubber
Material front plate	Polyamide, fiber-glass reinforced
Material end plate	Polyamide
Part No.	R573A2B51MACCF1

Technical information

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>).

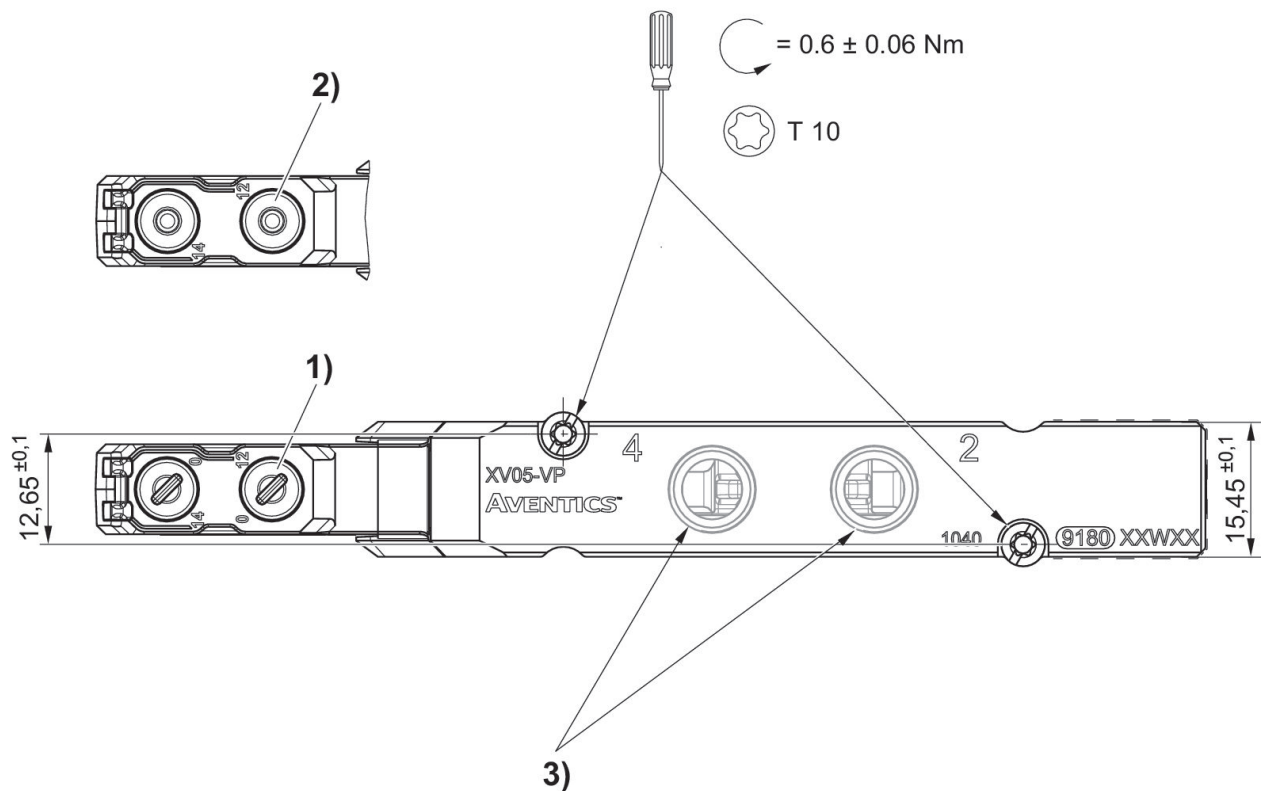
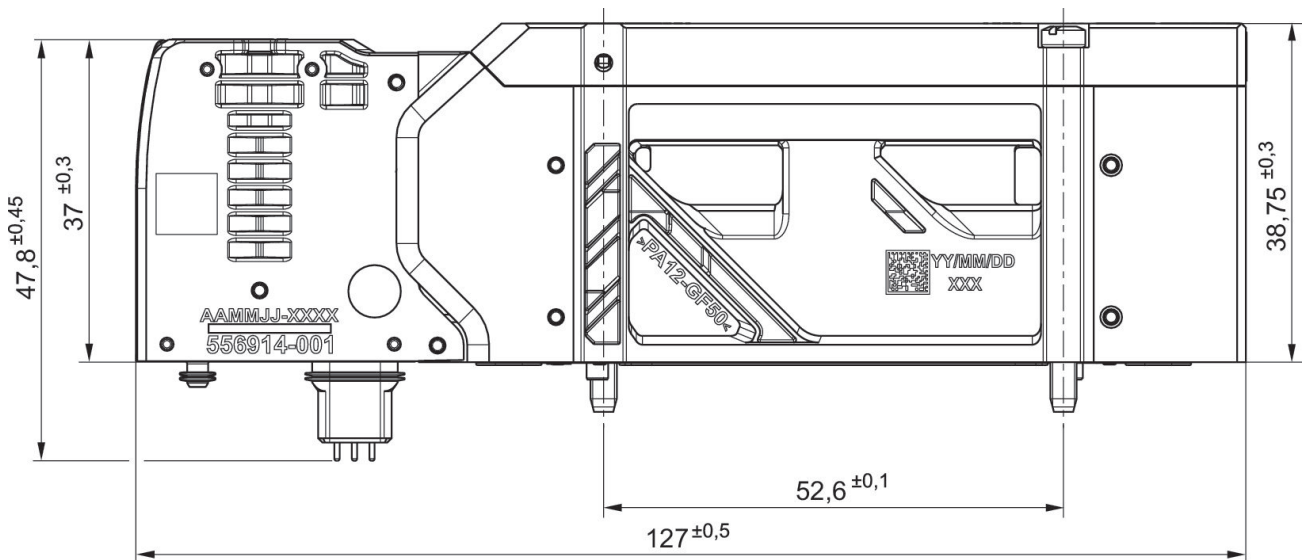
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Dimensions



- 1) with detent
- 2) without detent
- 3) Ports: G 1/8 & NPT 1/8