5/3-directional valve, Series 501

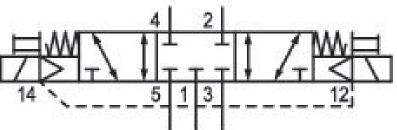
R501A2B60M11BF1

General series information

AVENTICS Series 501 Directional Control Valves

- The AVENTICS Series 501 is a line of general purpose automation valves designed for directional control and piloting applications requiring compact size, high flow capability, and energy savings. Engineers can achieve the flow of a 15 mm to 20 mm valves in a more compact package, saving space, cost, and energy in their machine designs. In addition, no other valve in its class offers such a broad range of pressure regulator, pressure shut-off, and exhaust flow control accessories. The 501 Series valve's pressure shut --off option permits users to replace individual valves without stopping their production process reducing line downtime and mair
- 2x3/2, 5/2, 5/3 spool valves





Technical data

Industry Activation Valve type Valve function Actuating control Sealing principle Connection type Manual override

Pilot control exhaust

Nominal flow Qn

Industrial Electrically Spool valve, positive overlapping Closed Center Double Solenoid soft seal Plate connection with detent

with directional pilot air exhaust

405 l/min



Working pressure min. Working pressure max Control pressure min. Control pressure max.	2 bar 8 bar 2 bar 8 bar
Protection class with connection Protective circuit	IP65 Varistor
Reverse polarity protection	Protected against polarity reversal
Operational voltage	24 V DC
Voltage tolerance DC	-15% / +10%
Pilot	External
LED status display	Yellow
Power consumption DC	0.68 W
Determine	400.0/
Duty cycle	100 % 13 ms
Typ. switch-on time	12 ms
Typ. switch-off time	12 1115
Blocking principle	Single base plate principle, can be assembled into blocks
Can be assembled into blocks	Can be assembled into blocks
Min. ambient temperature	-10 °C
Max. ambient temperature	50 °C
Min. medium temperature	-10 °C
Max. medium temperature	50 °C
Medium	Compressed air
Oil content of compressed air min.	0 mg/m ³
Oil content of compressed air max.	5 mg/m ³
Max. particle size	50 μm
mounting screws	with hexagon socket
Mounting screw tightening torque	0.45 Nm
Weight	0.93 kg
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Material

Housing material Seal material

Die cast zinc Nitrile butadiene rubber



	Polyurethane
Material front plate	Polyamide
Material end plate	Polyamide
Part No.	R501A2B60M11BF1

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).

Dimensions

