

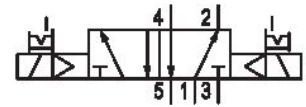
# 5/2-directional valve, Series ST

0820030165

## Series ST

The AVENTICS Series ST offers a comprehensive range of spool valves with hardened stainless steel housing. The metal sealing system ensures their extended service life independent of the air quality. Its electrical, pneumatic, or mechanical actuating controls (roller, lever, pedal, push-button or plunger) make the ST Series ideal for demanding industry applications and panel installation.

- Stainless steel housing
- Metal to metal sealing
- Various mechanical actuating controls available
- panel installation



## Technical data

|                                    |                                                   |
|------------------------------------|---------------------------------------------------|
| Industry                           | Industrial                                        |
| Activation                         | Electrically                                      |
| Note                               | Archive product: Do not use in new constructions! |
| Valve type                         | Spool valve                                       |
| Switching principle                | 5/2, double solenoid                              |
| Sealing principle                  | metal/metal sealing                               |
| Connection type                    | Pipe connection                                   |
| Manual override                    | with detent                                       |
| Compressed air connection type     | Internal thread                                   |
| Compressed air connection input    | G 1/8                                             |
| Compressed air connection output   | G 1/8                                             |
| Compressed air connection, exhaust | G 1/8                                             |
| Nominal flow Q <sub>n</sub>        | 280 l/min                                         |
| Min. working pressure              | 2 bar                                             |
| Max. working pressure              | 10 bar                                            |
| Min. control pressure              | 2 bar                                             |
| Max. control pressure              | 10 bar                                            |
| Electrical connection type         | Plug                                              |

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|                                  |                   |
|----------------------------------|-------------------|
| Electrical connection size       | ISO 15217, form C |
| Protection class with connection | IP65              |
| Operational voltage              | 12 V DC           |
| Operational voltage DC           | 12 V              |
| Voltage tolerance DC             | -10 % / +10 %     |

|                      |          |
|----------------------|----------|
| Pilot                | Internal |
| Pilot valve width    | 15 mm    |
| Power consumption DC | 2 W      |

|                      |       |
|----------------------|-------|
| Duty cycle           | 100 % |
| Typ. switch-on time  | 12 ms |
| Typ. switch-off time | 12 ms |

|                                    |                      |
|------------------------------------|----------------------|
| 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 | 5 mg/m <sup>3</sup>  |
| Max. oil content of compressed air | 25 mg/m <sup>3</sup> |
| Max. particle size                 | 5 µm                 |

|                                  |                        |
|----------------------------------|------------------------|
| Mounting screws                  | M4 with hexagon socket |
| Mounting screw tightening torque | 2.5 Nm                 |
| Tightening torque tolerance      | ±0,5                   |
| Weight                           | 0.32 kg                |

### Material

|                      |                                |
|----------------------|--------------------------------|
| Housing material     | Stainless Steel                |
| Surface housing      | hardened                       |
| Seal material        | Acrylonitrile butadiene rubber |
| Material front plate | Aluminum                       |
| Material end plate   | Aluminum                       |

|          |            |
|----------|------------|
| Part No. | 0820030165 |
|----------|------------|

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## Technical information

Notice: This product may only be operated with oiled compressed air.

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

