

# 5/3-directional valve, Series WV02

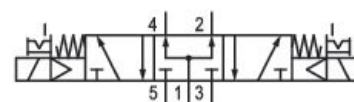
0820039160

Series  
WV02

2024-02-15

## Series WV02

The AVENTICS Series WV02 spool valves with anodized aluminium housing feature short switching times and low switching pressures, while offering low power consumption due to a seal with low friction co-efficient.



## Technical data

Industry

Industrial

Activation

Electrically

Valve type

Spool valve, positive overlapping

Valve function

Pressurized Center

Actuating control

Double Solenoid

Sealing principle

Soft seal

Connection type

Pipe connection

Manual override

with detent

Compressed air connection input

G 1/8

Compressed air connection output

G 1/8

Nominal flow Q<sub>n</sub>

250 l/min

Min. working pressure

2.2 bar

Max. working pressure

10 bar

Min. control pressure

2.2 bar

Max. control pressure

10 bar

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|                                  |                   |
|----------------------------------|-------------------|
| Electrical connection type       | Plug              |
| Electrical connection size       | ISO 15217, form C |
| Connector standard               | ISO 15217         |
| Protection class with connection | IP65              |
| Operational voltage              | 230 V AC          |
| Operational voltage AC at 50 Hz  | 230 V             |
| Voltage tolerance AC 50 Hz       | -10% / +10%       |
| Operational voltage AC at 60 Hz  | 230 V             |
| Voltage tolerance AC 60 Hz       | -10% / +10%       |

|                          |          |
|--------------------------|----------|
| Pilot                    | Internal |
| Coil width               | 15 mm    |
| Pilot valve width        | 15 mm    |
| Holding power AC 50 Hz   | 1.6 VA   |
| Holding power AC 60 Hz   | 1.4 VA   |
| Switch-on power AC 50 Hz | 2.2 VA   |
| Switch-on power AC 60 Hz | 2 VA     |

|                      |       |
|----------------------|-------|
| Duty cycle           | 100 % |
| Typ. switch-on time  | 9 ms  |
| Typ. switch-off time | 20 ms |

|                                    |                      |
|------------------------------------|----------------------|
| Min. ambient temperature           | 0 °C                 |
| Max. ambient temperature           | 50 °C                |
| Min. medium temperature            | 0 °C                 |
| Max. medium temperature            | 60 °C                |
| Medium                             | Compressed air       |
| Min. oil content of compressed air | 0 mg/m <sup>3</sup>  |
| Max. oil content of compressed air | 25 mg/m <sup>3</sup> |
| Max. particle size                 | 0.5 µm               |

|                            |           |
|----------------------------|-----------|
| Mounting on manifold strip | PRS strip |
| Mounting screws            | M3        |
| Weight                     | 0.17 kg   |

## Material

|                  |                                |
|------------------|--------------------------------|
| Housing material | Aluminum                       |
| Seal material    | Acrylonitrile butadiene rubber |

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|                           |            |
|---------------------------|------------|
| Material threaded bushing | Aluminum   |
| Material front plate      | Polyamide  |
| Part No.                  | 0820039160 |

## 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

