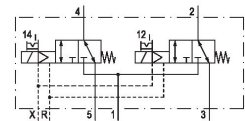
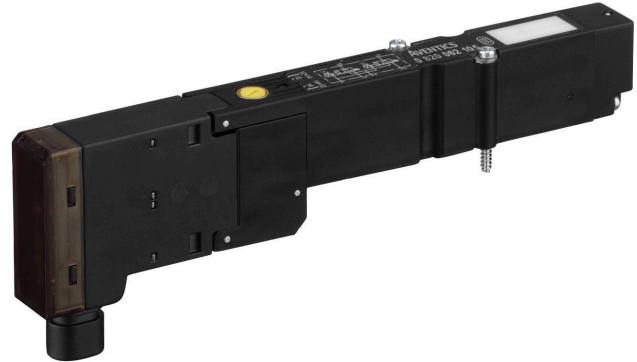


## Series HF04

The AVENTICS Series HF04/HF04-XF are universal and flexible valve systems, which offer numerous electrical connection possibilities and pneumatic functions.



## Technical data

|                                  |                                   |
|----------------------------------|-----------------------------------|
| Industry                         | Industrial                        |
| Activation                       | Electrically                      |
| Valve type                       | Spool valve, positive overlapping |
| Switching principle              | 2x 3/2 NC/NC, with spring return  |
| Valve function                   | NC/NC                             |
| Sealing principle                | Soft seal                         |
| Connection type                  | Plate connection                  |
| Manual override                  | with detent                       |
| Pilot control exhaust            | With collective pilot air exhaust |
| Nominal flow Qn                  | 400 l/min                         |
| Min. working pressure            | -0.9 bar                          |
| Max. working pressure            | 10 bar                            |
| Min. control pressure            | 3 bar                             |
| Max. control pressure            | 8 bar                             |
| Protection class with connection | IP65                              |

# 2x3/2-directional valve, Series HF04

2024-04-03

0820062101

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|                                    |  |
|------------------------------------|--|
| Protective circuit                 | Z-diode  |
| Reverse polarity protection        | Protected against polarity reversal            |
| Operational voltage                | 24 V DC  |
| Operational voltage DC             | 24 V   |
| Voltage tolerance DC               | -10% / +10%                                    |
| Pilot                              | External<br>Internal                           |
| Pilot valve width                  | 10 mm  |
| LED status display                 | Yellow   |
| Power consumption DC               | 0.55 W   |
| Duty cycle                         | 100 %  |
| Typ. switch-on time                | 13 ms  |
| Typ. switch-off time               | 20 ms  |
| Blocking principle                 | Double base plate principle                    |
| Min. ambient temperature           | -5 °C  |
| Max. ambient temperature           | 50 °C  |
| Min. medium temperature            | 0 °C   |
| Max. medium temperature            | 50 °C  |
| Medium                             | Compressed air                                 |
| Min. oil content of compressed air | 0 mg/m <sup>3</sup>                            |
| Max. oil content of compressed air | 5 mg/m <sup>3</sup>                            |
| Max. particle size                 | 5 µm   |
| Mounting screws                    | cross recessed DIN EN ISO 4757-Z0              |
| Mounting screw tightening torque   | 0.25 Nm  |
| Weight                             | 0.048 kg                                       |
| <b>Material</b>                    |  |
| Housing material                   | Polyamide                                      |
| Seal material                      | Acrylonitrile butadiene rubber<br>Polyurethane |
| Part No.                           | 0820062101                                     |

## Technical information

The pilot type (external/internal) is not implemented in the valve, but in the end plate of the valve system.

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.

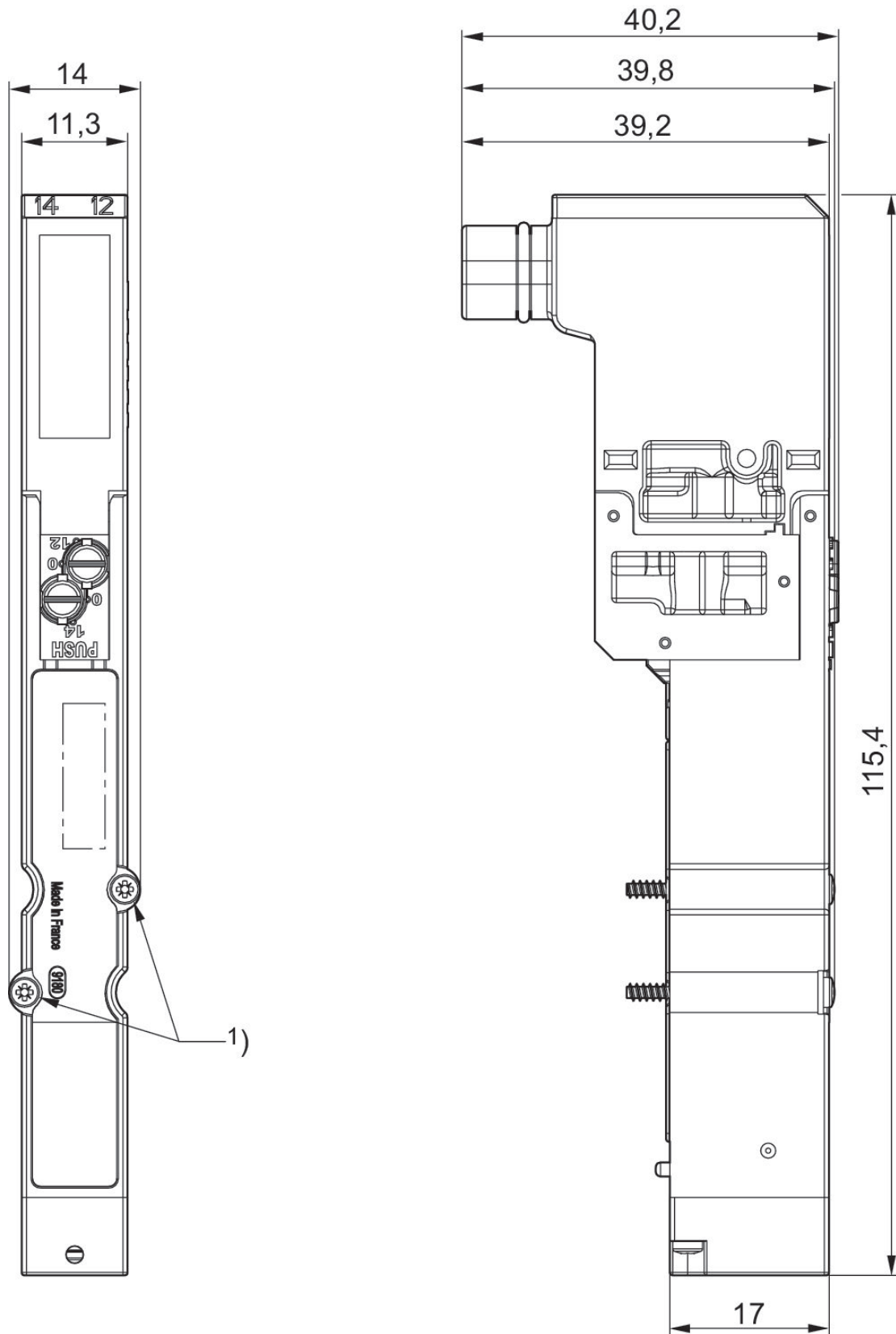
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in <https://www.emerson.com/en-us/support>).

# 2x3/2-directional valve, Series HF04

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## Dimensions



1) Mounting screw: X-slot DIN EN ISO 4757-Z0 tightening torque for mounting screw [Nm]: 0.25