

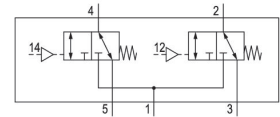
# 2x3/2-directional valve, Series TC15

R422102229

Series  
TC15

2025-12-18

## AVENTICS Series TC15 Directional valves



### Technical data

|                                       |                                  |
|---------------------------------------|----------------------------------|
| Industry                              | Industrial                       |
| Activation                            | Pneumatically                    |
| Valve type                            | Spool valve                      |
| Switching principle                   | 2x 2/2 NC/NC, with spring return |
| Valve function                        | NC/NC                            |
| Sealing principle                     | Soft seal                        |
| Connection type                       | Pipe connection                  |
| Compressed air connection input       | G 1/4                            |
| Compressed air connection output      | G 1/4                            |
| Compressed air connection, exhaust    | G 1/4                            |
| Compressed air connection pilot input | M5                               |
| Nominal flow Qn                       | 1100 l/min                       |
| Flow conductance b                    | 0.25                             |
| Flow conductance C                    | 5.9 l/(s*bar)                    |
| Min. working pressure                 | -0.9 bar                         |
| Max. working pressure                 | 10 bar                           |

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|                                    |                     |
|------------------------------------|---------------------|
| Min. control pressure              | 3 bar               |
| Max. control pressure              | 10 bar              |
| 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 <sup>3</sup> |
| Max. oil content of compressed air | 5 mg/m <sup>3</sup> |
| Max. particle size                 | 5 µm                |
| Mounting on manifold strip         | P-strip             |
| Mounting screw tightening torque   | 2.5 Nm              |
| Weight                             | 0.208 kg            |

## Material

|                           |                                   |
|---------------------------|-----------------------------------|
| Housing material          | Polyamide, fiber-glass reinforced |
| Seal material             | Acrylonitrile butadiene rubber    |
| Material, front cover     | Polyamide, fiber-glass reinforced |
| Material threaded bushing | Brass                             |
|                           | Die cast zinc                     |
| Surface threaded bushing  | chrome-plated                     |
|                           | nickel-plated                     |
| Part No.                  | R422102229                        |

## 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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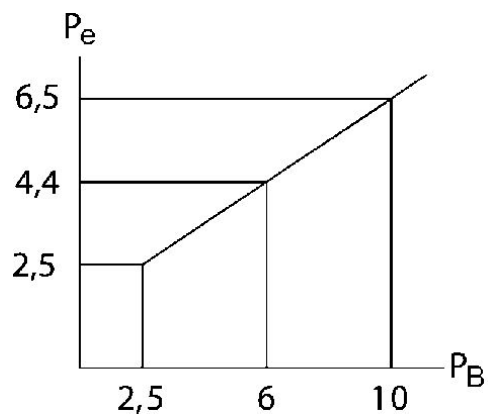
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## Control pressure



$P_e$  = external control pressure, min.

$P_B$  = Working pressure

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## Dimensions

