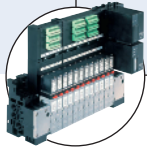


3/2-way and 2 x 3/2-way Solenoid Valve for pneumatics

- Compact design
- Single and manifold mounting
- Low power consumption
- Fast response times
- Second connection shut-off function

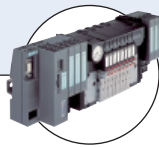
Type 6524 can be combined with...



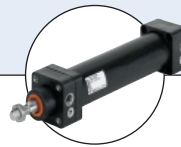
Type 8640
Valve island



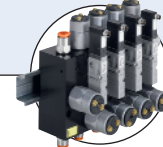
Type 2031
Diaphragm valve



Type 8644
Valve island



Type 0044
Cylinder



Type MKRS
Redundancy bloc

The Type 6524 consists of the pilot flipper solenoid valve Type 6144 and a pneumatic seat valve. The flipper principle allows switching of high pressures together with low power consumption and fast response times. All valves are equipped with manual override as a standard.

The 2 x 3/2-way valve version is the combination of two pilot flipper solenoid valves Type 6144 and a pneumatic seat valve.

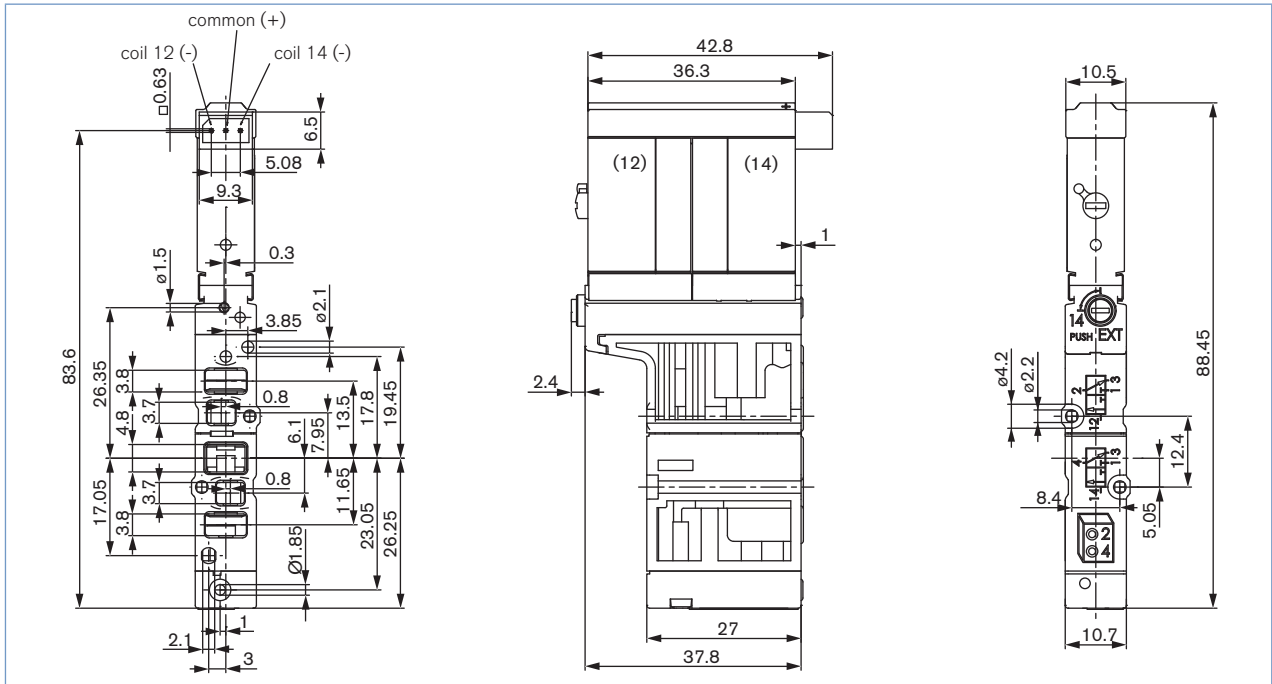
The valve is also available with a second connection (pressed cable), whereby a safety-related shut-off function is realized

| Technical data | 3/2-way valve | 2 x 3/2-way valve |
|---------------------------------------|---|--|
| Orifice | DN4.0 | |
| Body material | PPS, PA | |
| Seal material | FKM, NBR | |
| Medium | Lubricated, oilfree, dry compressed air; neutral gases (5 µm filter recommended) | |
| Medium temperature | -10...+50°C | |
| Ambient temperature | -10...+55 °C | |
| Manual override | Standard | |
| Port connection | Flange for MP11 | |
| Pneumatic module | Type MP11 with M5, M7, push-in connection Ø 6 mm | |
| Voltage tolerance | ±10% | |
| Cycle rate | approx. 1000 c.p.m. | |
| Voltage | 24 V DC * | |
| Nominal power | 0.8 W | 2 x 0.8 W |
| Duty cycle | Continuous operation (100% ED) | |
| Electrical connection on valve | Rectangular plug with 2-pole raster 5.08 mm | Rectangular plug with 3-pole raster 2.54 mm |
| Type of protection | IP40 with rectangular plug | |
| Protection class | 3 acc. to VDE 0580 | |
| Weight | 20 g | 40 g |
| Mounting | with 2 screws M2 x 20 | with 2 screws M2 x 28 |
| Installation | As required, preferably with actuator upright | |

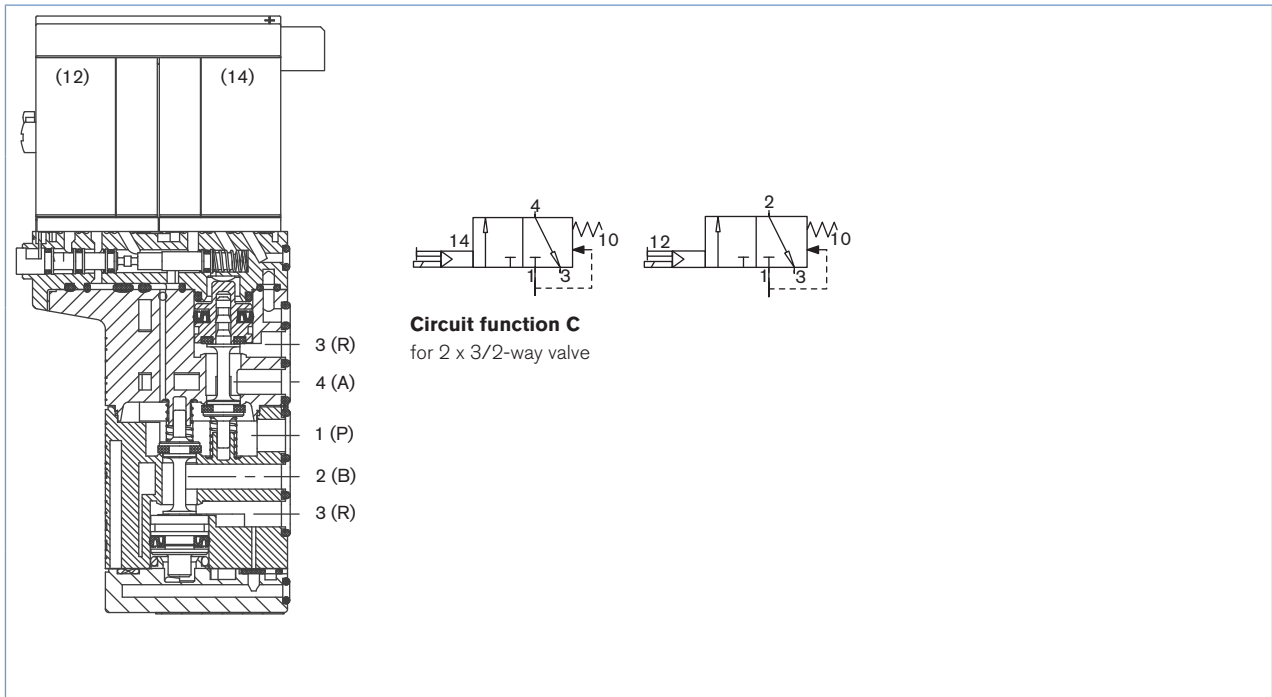
* 10% residual ripple allowed

| | |
|----------------------------|-------------------------------|
| Response times [ms] | Measurement acc. to ISO 12238 |
| Opening | <10 ms |
| Closing | <10 ms |

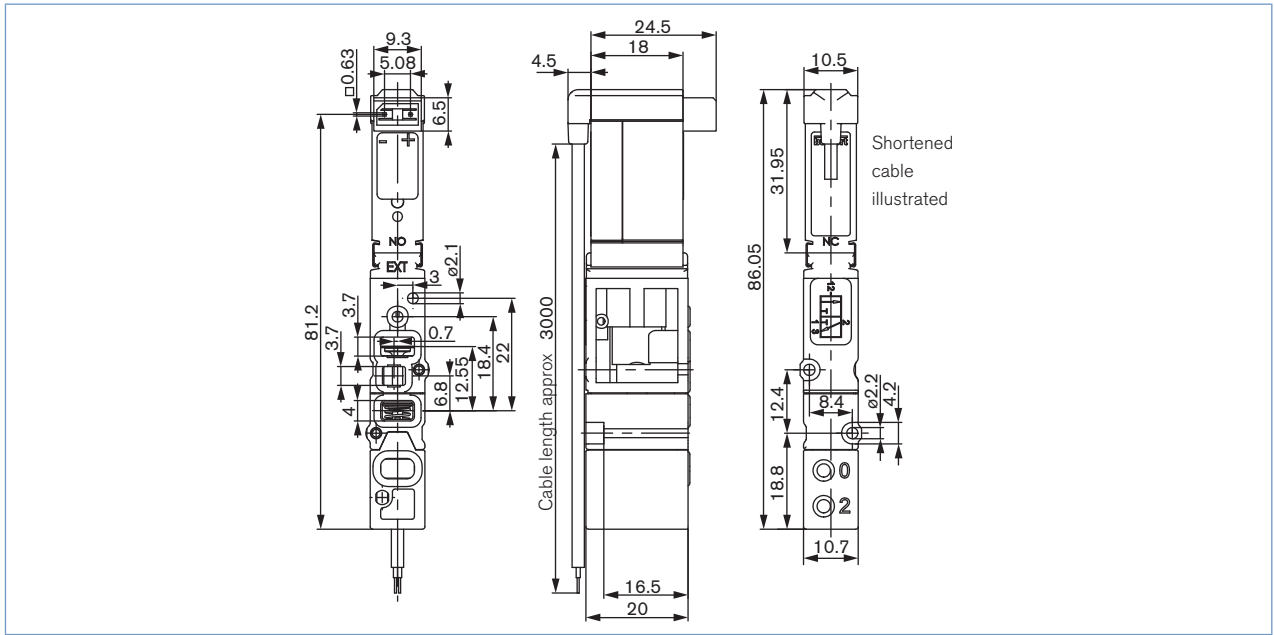
Dimensions [mm] 2 x 3/2-way solenoid valve - Standard version



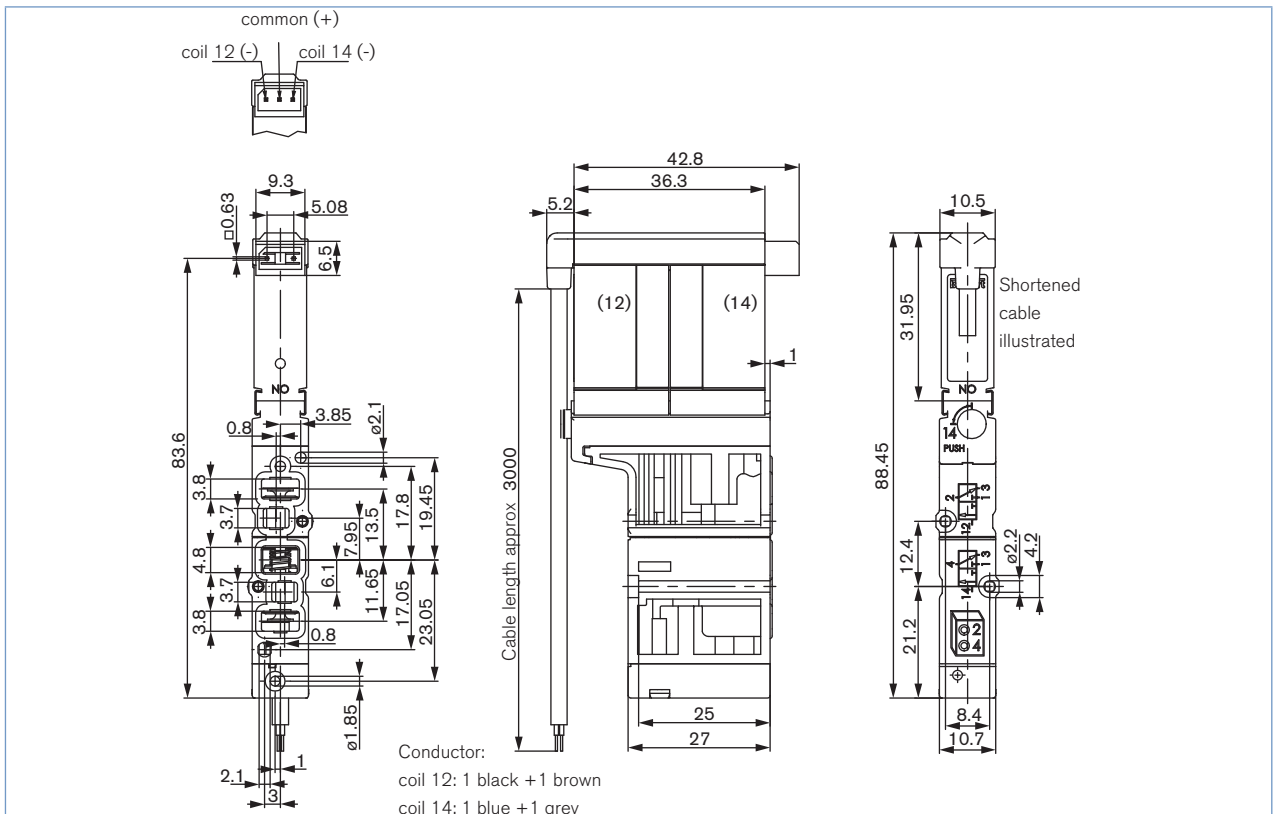
Sectional drawing 2 x 3/2-way solenoid valve - Standard version



Dimensions [mm] 3/2-way solenoid valve - Second connection shut-off function

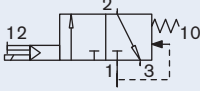
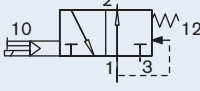


Dimensions [mm] 2 x 3/2-way solenoid valve - Second connection shut-off function



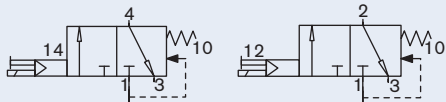
Ordering chart for valves - Standard version

3/2-way solenoid valve

| Circuit function | Orifice [mm] | Q _{Nn} value air [l/min] ²⁾ | Pressure range [bar] ³⁾ | Voltage/frequency [V/Hz] | Item no. |
|---|--------------|---|------------------------------------|--------------------------|----------|
| C 3/2-way valve  | 4 | 300 | Vac...10 ¹⁾ | 24 V DC * | 186 258 |
| | | | 1...10 | 24 V DC * | 186 257 |
| | | | 2.5...10 | 24 V DC * | 184 043 |
| D 3/2 way valve  | 4 | 300 | 2.5...10 | 24 V DC * | 184 400 |

* 10% residual ripple allowed

2 x 3/2-way solenoid valve

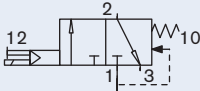
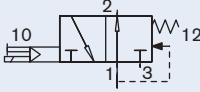
| Circuit function | Orifice [mm] | Q _{Nn} value air [l/min] ²⁾ | Pressure range [bar] ³⁾ | Voltage/frequency [V/Hz] | Integrated power savings electronics | Item no. |
|---|--------------|---|------------------------------------|--------------------------|--------------------------------------|----------|
| C 2 x 3/2 way valve  | 4 | 300 | Vac...10 ¹⁾ | 24 V DC * | Yes ⁴⁾ | 186 259 |
| | | | 2.5...10 | 24 V DC * | Yes ⁴⁾ | 186 260 |
| | | | 2.5...10 | 24 V DC * | No | 204 710 |

* 10% residual ripple allowed

¹⁾ Version with auxiliary pilot air²⁾ Measured at +20°C, 6 bar pressure at valve inlet and 1 bar pressure difference³⁾ Measured as overpressure to the atmospheric pressure⁴⁾ Applicable on valve island 8640, AirLine system 8644 or valve blocks

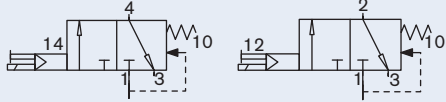
Ordering chart for valves - Second connection shut-off function

3/2-way solenoid valve, without manual override

| Circuit function | Orifice [mm] | Q _{Nn} value air [l/min] ²⁾ | Pressure range [bar] ³⁾ | Voltage/frequency [V/Hz] | Item no. |
|---|--------------|---|------------------------------------|--------------------------|------------|
| C 3/2-way valve  | 4 | 300 | Vac...10 ¹⁾ | 24 V DC * | On request |
| | | | 1...10 | 24 V DC * | On request |
| | | | 2.5...10 | 24 V DC * | 285 545 |
| D 3/2 way valve  | 4 | 300 | 2.5...10 | 24 V DC * | On request |

* 10% residual ripple allowed

2 x 3/2-way solenoid valve, without manual override

| Circuit function | Orifice [mm] | Q _{Nn} value air [l/min] ²⁾ | Pressure range [bar] ³⁾ | Voltage/frequency [V/Hz] | Integrated power savings electronics | Item no. |
|---|--------------|---|------------------------------------|--------------------------|--------------------------------------|------------|
| C 2 x 3/2 way valve  | 4 | 300 | Vac...10 ¹⁾ | 24 V DC * | Yes ⁴⁾ | On request |
| | | | 2.5...10 | 24 V DC * | Yes ⁴⁾ | 285 547 |
| | | | 2.5...10 | 24 V DC * | No | On request |

* 10% residual ripple allowed

¹⁾ Version with auxiliary pilot air²⁾ Measured at +20°C, 6 bar pressure at valve inlet and 1 bar pressure difference³⁾ Measured as overpressure to the atmospheric pressure⁴⁾ Applicable on valve island 8640, AirLine system 8644 or valve blocks

Ordering chart for accessories

| Accessory | Version | Features | Item no. |
|---|---------------------------|---|----------|
| Rectangular cable plug for 6524 single valve | Raster 5.08 mm | with 3 m cable 2-pins | 133 486 |
| | | with 300 mm flying leads 2-pins | 644 068 |
| | | with 2 single contacts | 644 067 |
| Covering plate for 5/2-way valve position | Complete | for 1 unused valve position | 650 373 |
| Covering plate for 2 x 3/2-way valve position | | for 1 unused valve position | 661 092 |
| Pneumatic connector module | Left | G 1/4 | 144 750 |
| | | NPT 1/4 | 144 751 |
| | Right | G 1/4 | 144 753 |
| | | NPT 1/4 | 144 754 |
| Pneumatic basic module MP11, 2 valves wide | Push-in connection Ø 6 mm | without check valve | 144 903 |
| | | without check valve for 2 x 3/2-way valve | 170 261 |
| | | with check valve in R+S for 2 x 3/2-way valve | 170 266 |
| | Connection M7 | without check valve | 144 905 |
| | | without check valve for 2 x 3/2-way valve | 170 263 |
| | | with check valve in R+S for 2 x 3/2-way valve | 170 276 |
| Pneumatic basic module MP11, 8 valves wide | Push-in connection Ø 6 mm | without check valve | 144 912 |
| | | without check valve for 2 x 3/2-way valve | 170 279 |
| | | with check valve in R+S for 2 x 3/2-way valve | 170 285 |
| | Connection M7 | without check valve | 144 914 |
| | | without check valve for 2 x 3/2-way valve | 170 282 |
| | | with check valve in R+S for 2 x 3/2-way valve | 170 287 |