

PNEUMATIC VALVES

SERIES 76

Pneumatic Power Valves

• SOLENOID VALVES •

• MECHANICAL VALVES •

• PNEUMATICAL VALVES •

• PLASTIC VALVES •

• NAMUR •

• ISO VALVES •

• PILOT VALVES •

• FOOT-OPERATED VALVES •

• ATEX & VACUUM VALVES •

• COILS •

• PLUG-IN & SOCKETS •

The components illustrated and described in the present catalogue are sold under the trademark BSG Kuhnke Solutions.

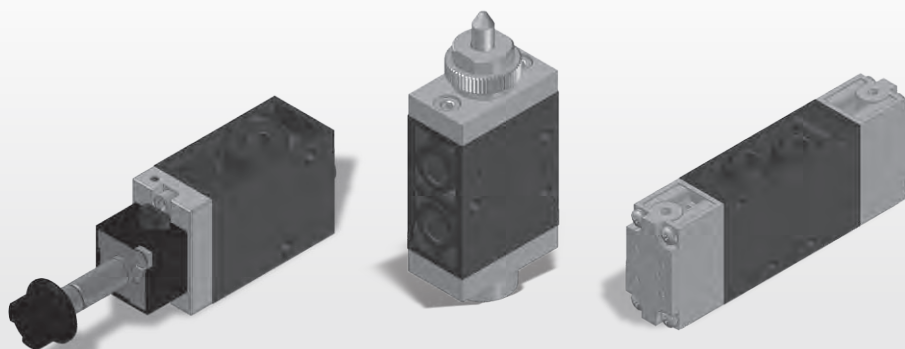
BSG Kuhnke Solutions reserves the right to modify the dimensions or technical characteristics of any of its products contained within this catalogue without prior notice. The products included in this catalogue should only be used in applications for which they were originally intended and should only be used by personnel with adequate technical knowledge. Please note that the misuse of this product could cause serious injury. The user should ensure that the product is installed and operated within the operating characteristics shown and that this complies with any health and safety requirements, however should you require any further information please do not hesitate to contact our technical office.

BSG Kuhnke Solutions accepts no liability for damage or injury arising from the error, misuse or omission in the data provided. BSG Kuhnke Solutions accepts no liability from third parties in the form of consequential losses. It is the responsibility and duty of the client/user to ensure that all operating requirements are carried out and that the products are used safely. The application is always under the responsibility of the client/user.

PNEUMATIC POWER VALVES

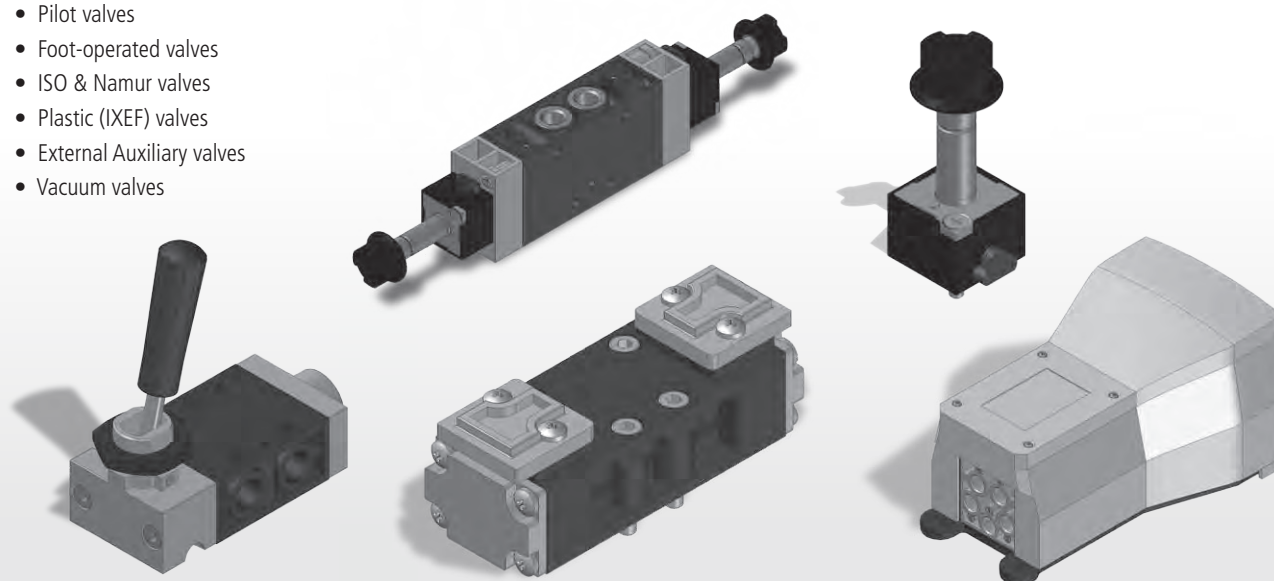
General information

The 76 series valves: a range of excellent power valves including electrical, mechanical and pneumatic options, suitable for single or modular use. G1/8 to G1/2 ports.

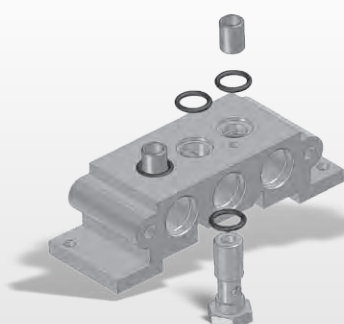


The 76 series valves range includes:

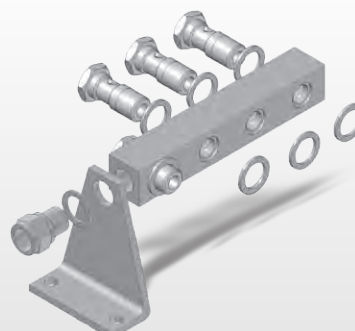
- Pilot valves
- Foot-operated valves
- ISO & Namur valves
- Plastic (IXEF) valves
- External Auxiliary valves
- Vacuum valves



Modular assembly with maximum flexibility



Common input manifold



SOLENOID VALVES

General information

| Function | Section | Pressure range | Pressure connection (nominal orifice) | Ambient temperature range |
|--|---------|----------------|---|------------------------------|
| 3/2-way Poppet Valves (2/2-way function is possible upon request) | A | 2.5 - 10 bar | G 1/8 (6 mm) G 1/4 (8 mm) G 1/2 (15 mm) | -15 °C +50 °C |
| 5/2-way Poppet Valves | B | 2.5 - 10 bar | G 1/8 (6 mm) G 1/4 (8 mm) G 1/2 (15 mm) | |
| 5/2-way Spool Valves 5/3-way Spool Valves | C | 2.5 - 10 bar | G 1/8 (6 mm) G 1/4 (8 mm) | |
| Monostable Flip-Flop Oscillator Vacuum Valves External Auxiliary Valves | D | 2.5 - 10 bar | G 1/8 (6 mm) G 1/4 (8 mm) G 1/2 (15 mm) | |

Electrical connections: Coil with 3 spade connectors (6.3 x 0.8 DIN 46247) + plug in socket (order both separately)

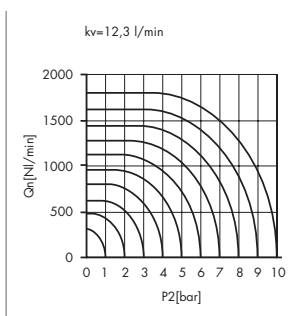
Housing: Die-cast and varnished aluminium alloy

Seals: NBR

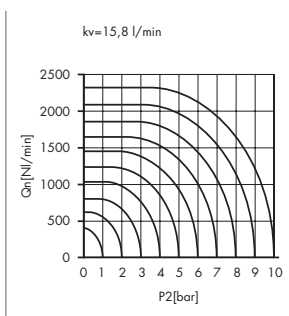
Earthing contact: Part of the standard device

Mounting: Any position

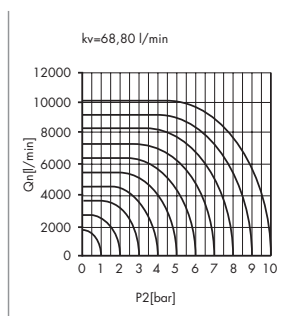
Operating medium: 5 micron filtered, lubricated (or not) compressed air; also suitable for other media conforming to ISO-VG 10



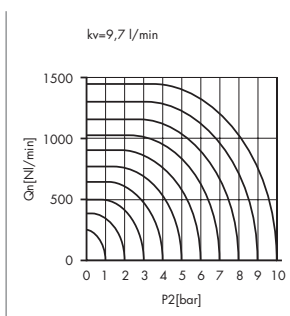
Poppet Valves
Orifice 6 mm



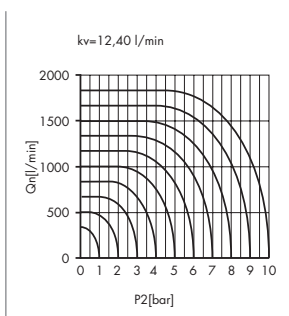
Poppet Valves
Orifice 8 mm



Poppet Valves
Orifice 15 mm



Spool Valves
Orifice 6 mm



Spool Valves
Orifice 8 mm

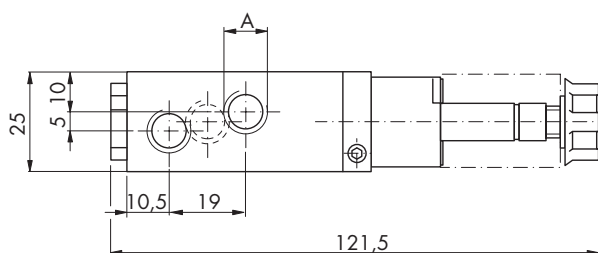
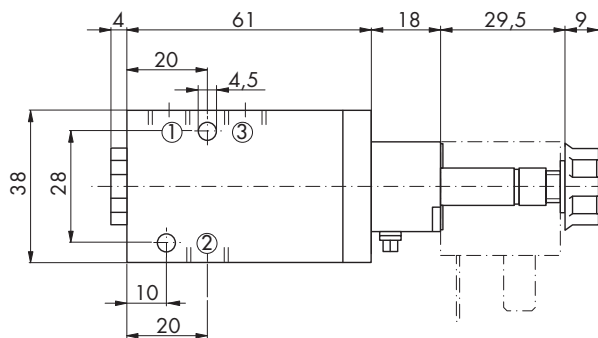
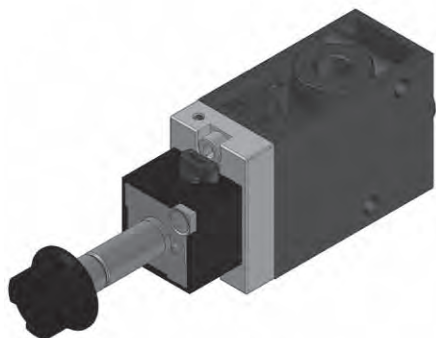
3/2-way Poppet Valves - G 1/8 (D_{nom} 6 mm), G 1/4 (D_{nom} 8 mm)

SECTION A

Actuation: Solenoid, manual override

Return: Spring

Coil Type: 76.410.xx.xx (order separately)



| Code | A | Type | Symbol |
|--------------|-------|------|--------|
| 76.026.11.00 | G 1/8 | NO | |
| 76.046.11.00 | G 1/4 | | |
| 76.026.01.00 | G 1/8 | NC | |
| 76.046.01.00 | G 1/4 | | |

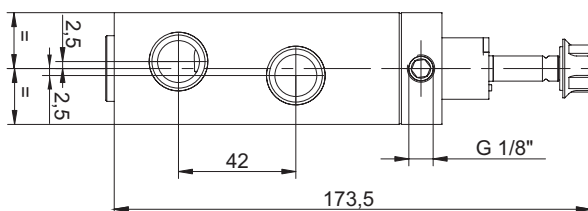
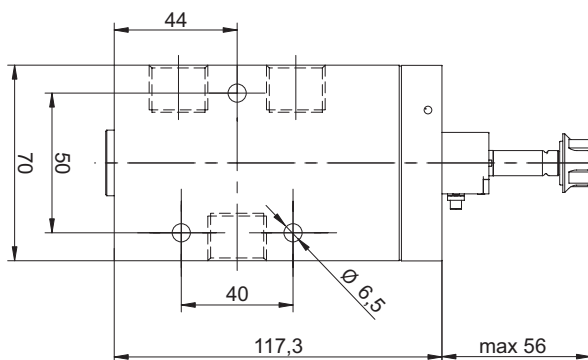
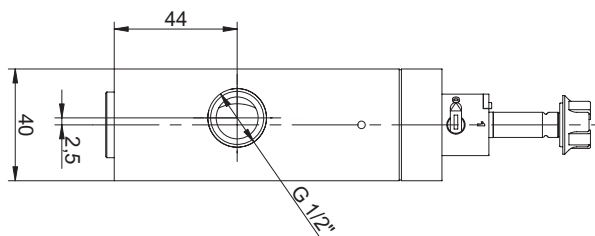
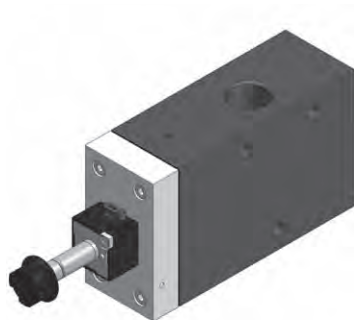
3/2-way Poppet Valves - G 1/2 (D_{nom} 15 mm)

SECTION A

Actuation: Solenoid, manual override

Return: Spring

Coil Type: 76.410.xx.xx (order separately)



| Code | A | Type | Symbol |
|--------------|-------|------|--------|
| 76.066.11.00 | G 1/2 | NO | |
| 76.066.01.00 | G 1/2 | | |
| 76.066.01.00 | G 1/2 | NC | |
| 76.066.01.00 | G 1/2 | | |

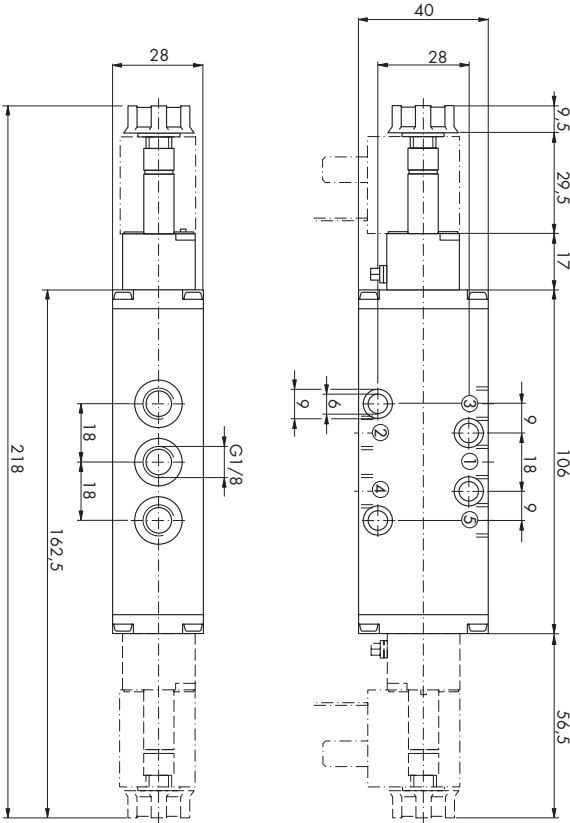
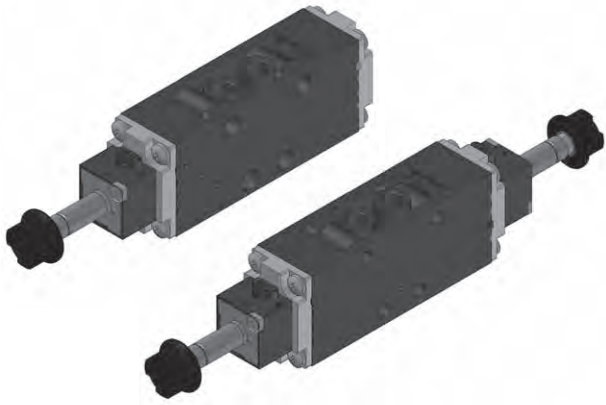
5/2-way Poppet Valves - G 1/8 (D_{nom} 6 mm)

SECTION B

Actuation: Solenoid, manual override

Return: Spring (pressure supported)
Solenoid

Coil Type: 76.410.xx.xx (order separately)



| Code | Return | Type | Symbol |
|--------------|----------|------------|--------|
| 76.027.91.00 | Spring | Horizontal | |
| 76.027.92.00 | Solenoid | Horizontal | |

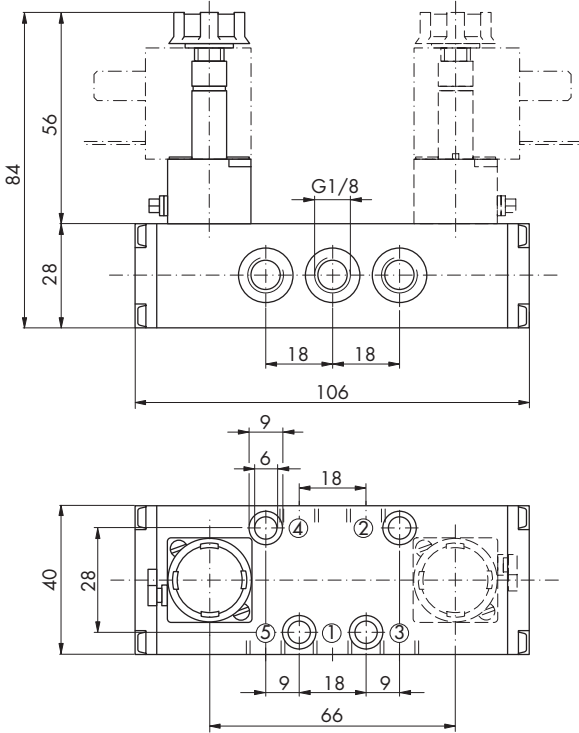
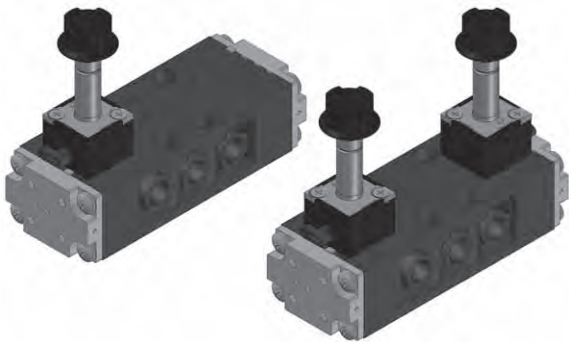
5/2-way Poppet Valves - G 1/8 (D_{nom} 6 mm)

SECTION B

Actuation: Solenoid, manual override

Return: Spring (pressure supported)
Solenoid

Coil Type: 76.410.xx.xx (order separately)



| Code | Return | Type | Symbol |
|--------------|----------|----------|--------|
| 76.027.94.00 | Spring | Vertical | |
| 76.027.95.00 | Solenoid | Vertical | |

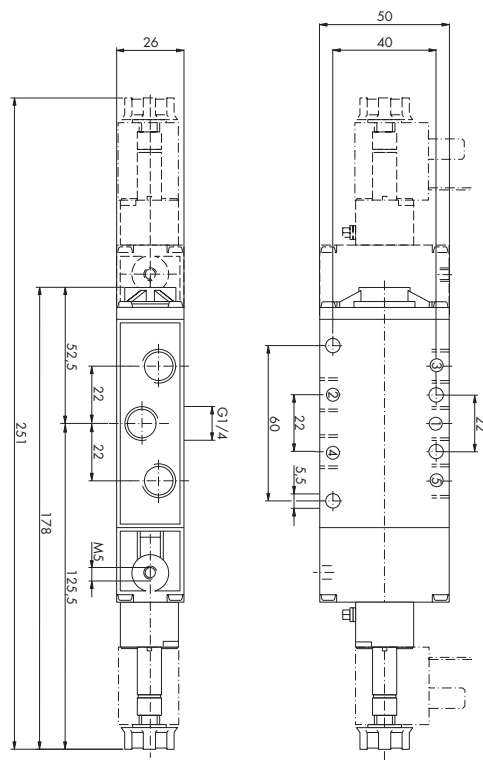
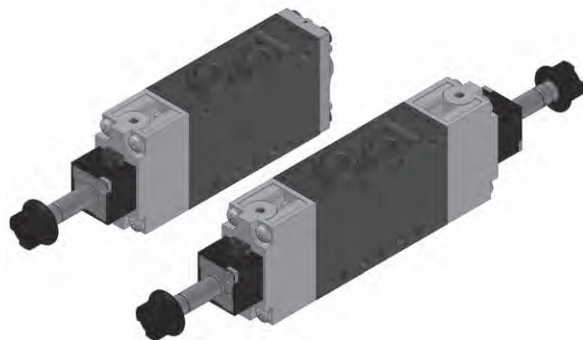
5/2-way Poppet Valves - G 1/4 (D_{nom} 8 mm)

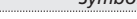

SECTION B

Actuation: Solenoid, manual override

Return: Spring (pressure supported)
Solenoid

Coil Type: 76.410.xx.xx (order separately)



| Code | Return | Type | Symbol |
|--------------|----------|------------|---|
| 76.047.91.00 | Spring | Horizontal |  |
| 76.047.92.00 | Solenoid | Horizontal |  |

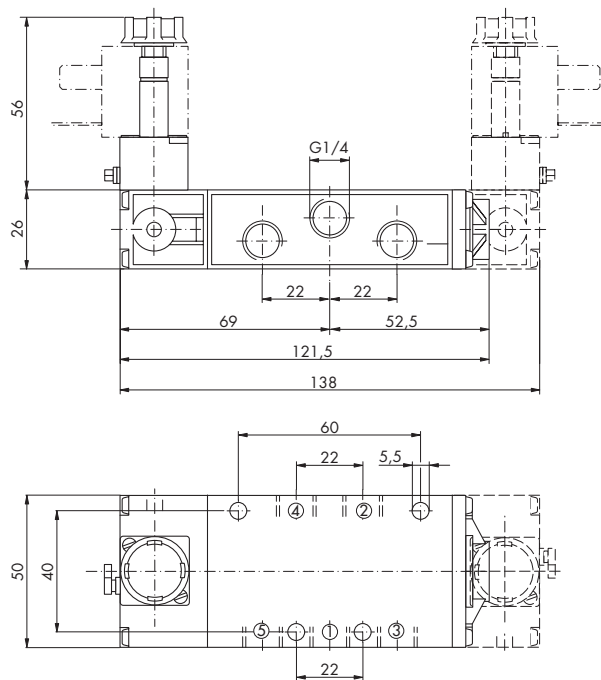
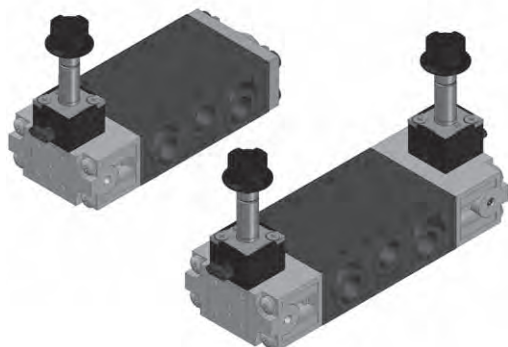
5/2-way Poppet Valves - G 1/4 (D_{nom} 8 mm)

SECTION B

Actuation: Solenoid, manual override

Return: Spring (pressure supported)
Solenoid

Coil Type: 76.410.xx.xx (order separately)



| Code | Return | Type | Symbol |
|--------------|----------|----------|--------|
| 76.047.94.00 | Spring | Vertical | |
| 76.047.95.00 | Solenoid | Vertical | |

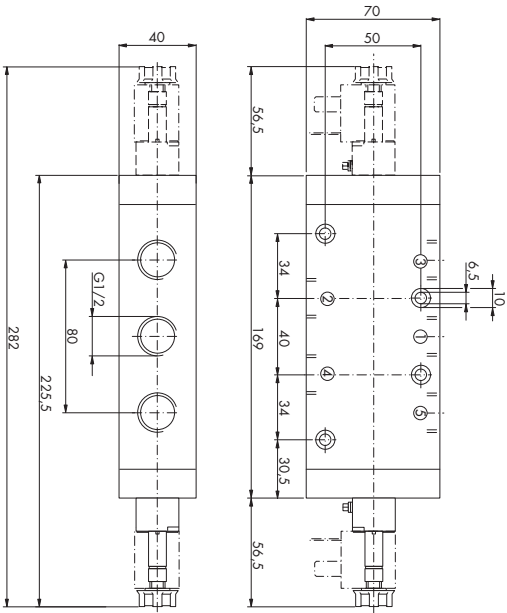
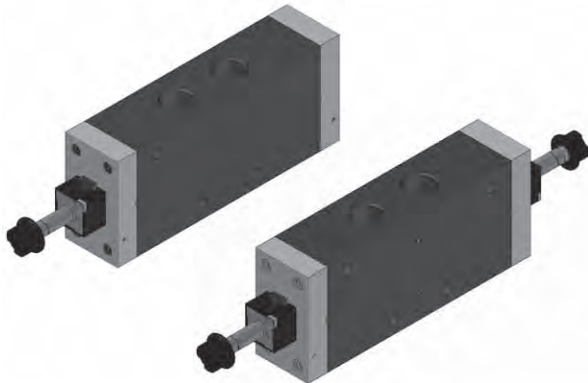
5/2-way Poppet Valves - G 1/2 (D_{nom} 15 mm)

SECTION B

Actuation: Solenoid, manual override

Return: Spring (pressure supported)
Solenoid

Coil Type: 76.410.xx.xx (order separately)



| Code | Return | Type | Symbol |
|--------------|----------|------------|--------|
| 76.067.91.00 | Spring | Horizontal | |
| 76.067.92.00 | Solenoid | Horizontal | |

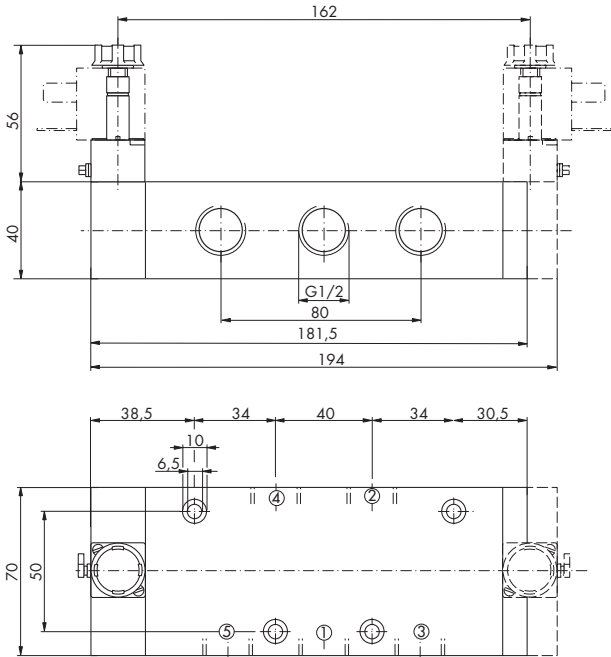
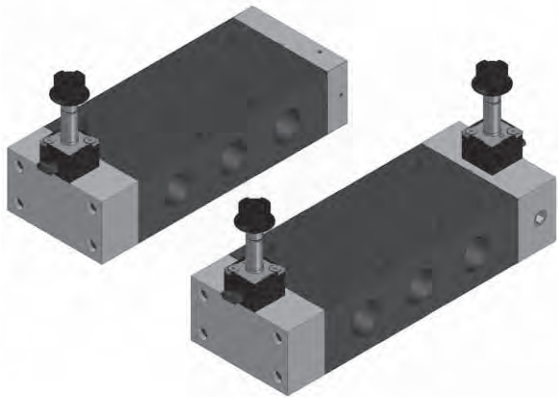
5/2-way Poppet Valves - G 1/2 (D_{nom} 15 mm)

SECTION B

Actuation: Solenoid, manual override

Return: Spring (pressure supported)
Solenoid

Coil Type: 76.410.xx.xx (order separately)



| Code | Return | Type | Symbol |
|--------------|----------|----------|--------|
| 76.067.94.00 | Spring | Vertical | |
| 76.067.95.00 | Solenoid | Vertical | |

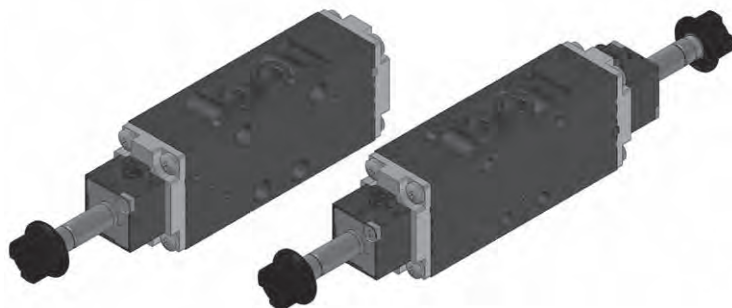
5/2-way & 5/3-way Spool Valves - G 1/8 (D_{nom} 6 mm)

SECTION C

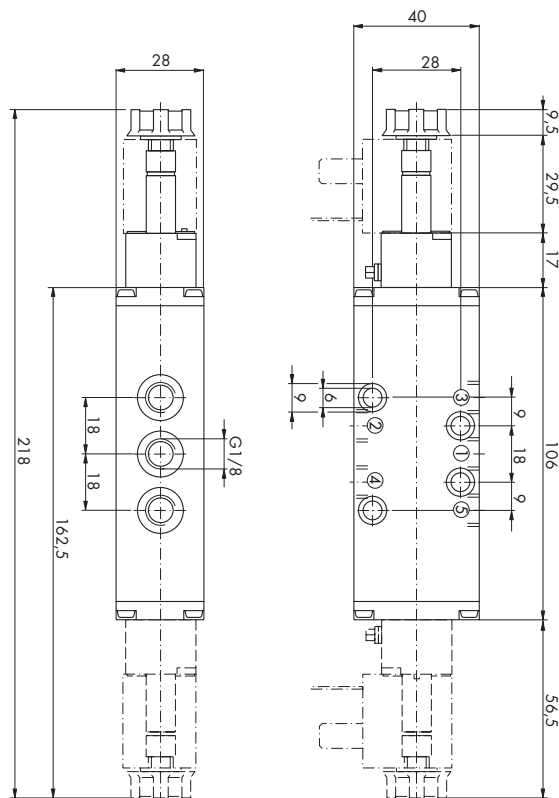
Actuation: Solenoid, manual override

Return: Spring (pressure supported)
Solenoid

Coil Type: 76.410.xx.xx (order separately)



| Code | Return | Type | Symbol |
|--------------|---------------------------|------------|--------|
| 76.023.91.00 | Spring | Horizontal | |
| 76.023.92.00 | Solenoid | Horizontal | |
| 76.024.02.00 | Spring (return to centre) | Horizontal | |
| 76.024.12.00 | Spring (return to centre) | Horizontal | |



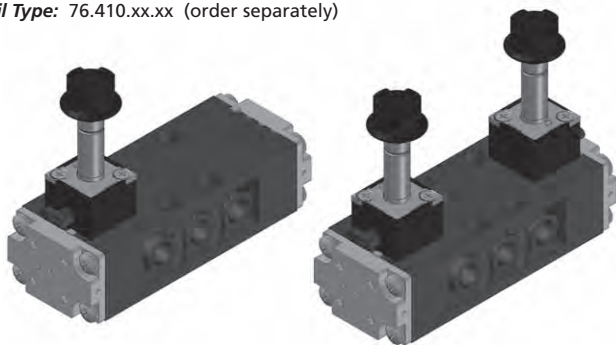
5/2-way & 5/3-way Spool Valves - G 1/8 (D_{nom} 6 mm)

SECTION C

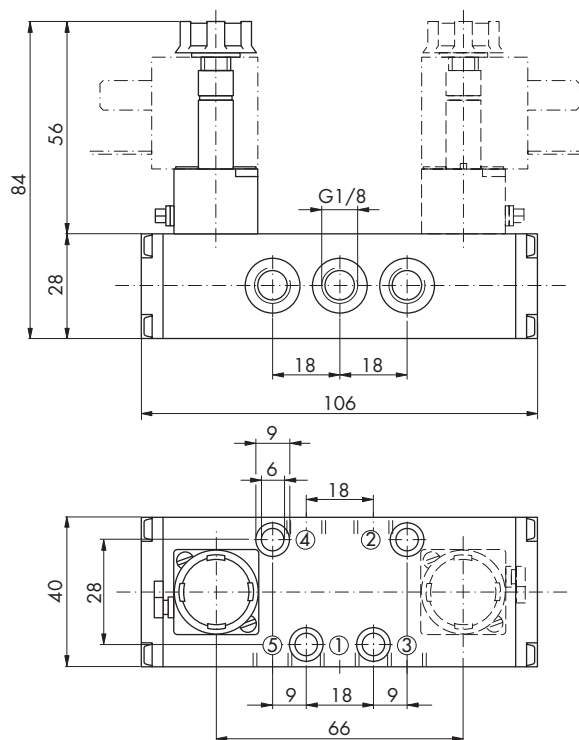
Actuation: Solenoid, manual override

Return: Spring (pressure supported)
Solenoid

Coil Type: 76.410.xx.xx (order separately)



| Code | Return | Type | Symbol |
|--------------|---------------------------|----------|--------|
| 76.023.94.00 | Spring | Vertical | |
| 76.023.95.00 | Solenoid | Vertical | |
| 76.024.05.00 | Spring (return to centre) | Vertical | |
| 76.024.15.00 | Spring (return to centre) | Vertical | |



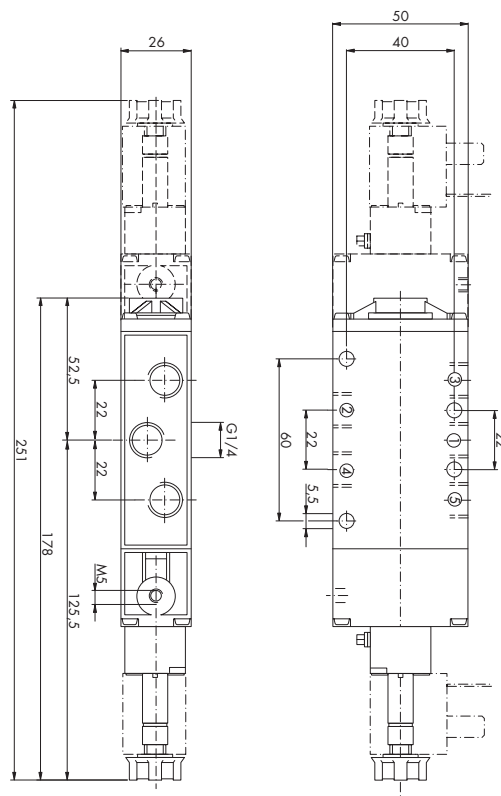
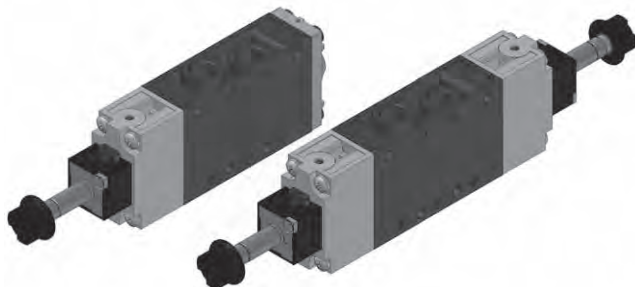
5/2-way & 5/3-way Spool Valves - G 1/4 (D_{nom} 8 mm)

SECTION C

Actuation: Solenoid, manual override

Return: Spring (pressure supported)
Solenoid

Coil Type: 76.410.xx.xx (order separately)



| Code | Return | Type | Symbol |
|--------------|---------------------------|------------|--------|
| 76.043.91.00 | Spring | Horizontal | |
| 76.043.92.00 | Solenoid | Horizontal | |
| 76.044.02.00 | Spring (return to centre) | Horizontal | |
| 76.044.12.00 | Spring (return to centre) | Horizontal | |

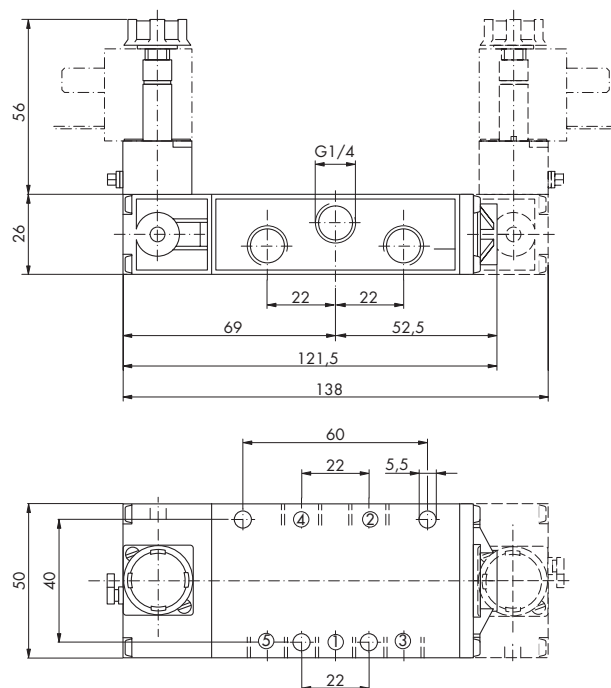
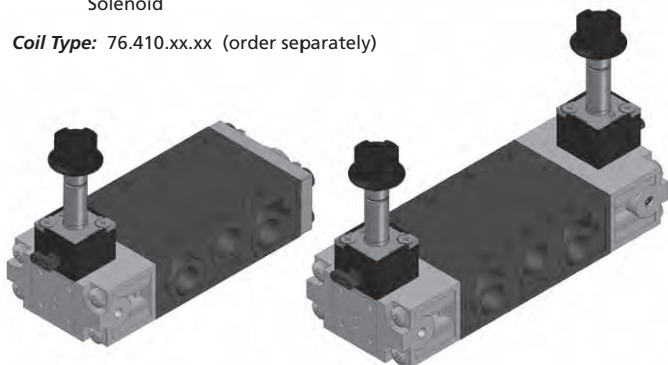
5/2-way & 5/3-way Spool Valves - G 1/4 (D_{nom} 8 mm)

SECTION C

Actuation: Solenoid, manual override

Return: Spring (pressure supported)
Solenoid

Coil Type: 76.410.xx.xx (order separately)



| Code | Return | Type | Symbol |
|--------------|---------------------------|----------|--------|
| 76.043.94.00 | Spring | Vertical | |
| 76.043.95.00 | Solenoid | Vertical | |
| 76.044.05.00 | Spring (return to centre) | Vertical | |
| 76.044.15.00 | Spring (return to centre) | Vertical | |

5/2-way - Monostable flip-flop

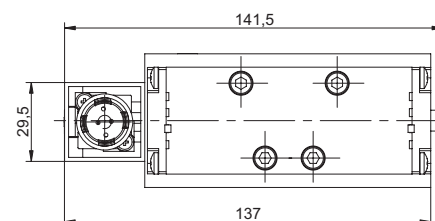
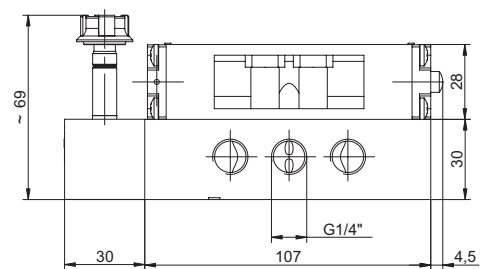
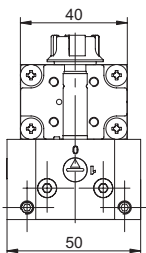
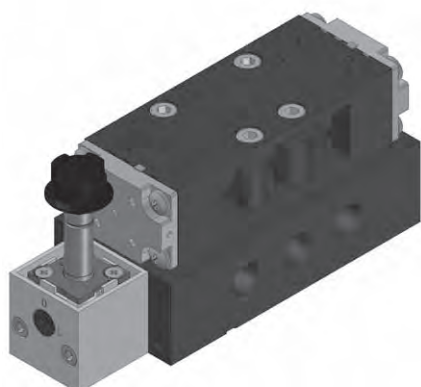
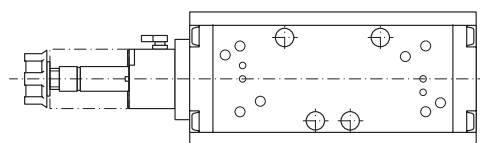
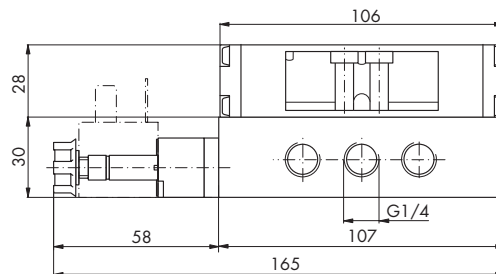
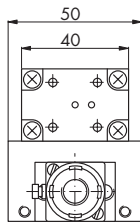
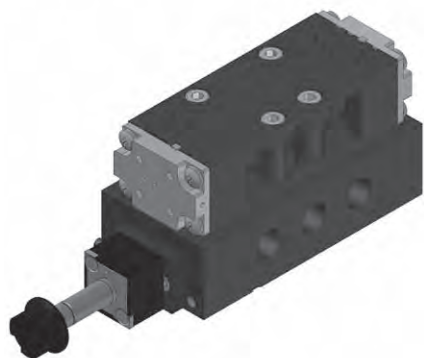
SECTION D

Actuation: Solenoid

Return: Solenoid (return pulse)

Coil Type: 76.410.xx.xx (order separately)

76.411.xx.xx only for Cnomo versions (order separately)



The valve provides a 5/2 way switched output from an electrical pulse signal of at least 300 ms in length. When the solenoid is energised, the valve output position changes. The output valve maintains position until the next electrical pulse signal is applied.

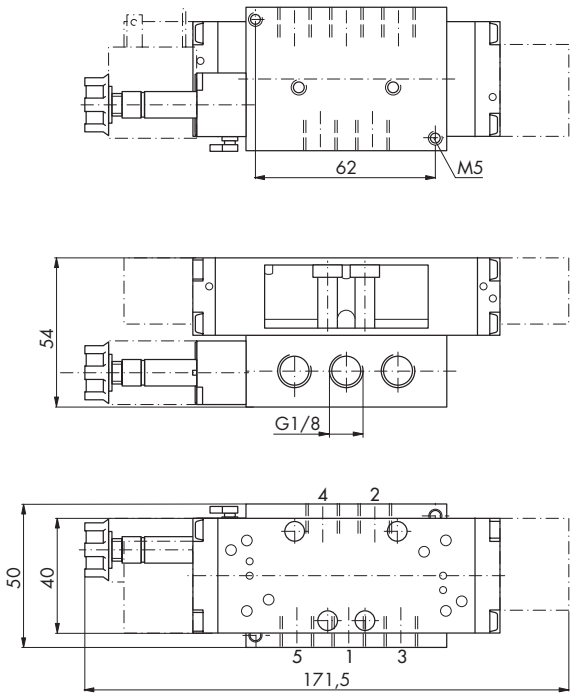
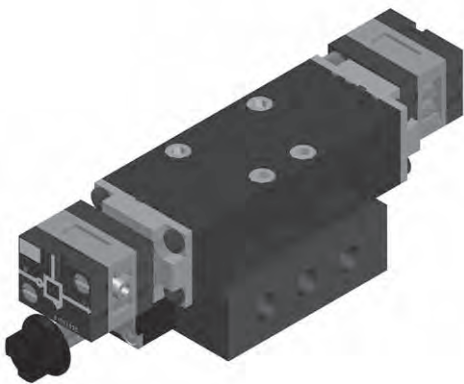
Example: with a double acting cylinder at start position of rod in, pulse the valve once and rod extends. Pulse the valve a second time and rod returns.

| Code | A | Coil type | Symbol |
|--------------|-------|---------------------------|--------|
| 76.083.89.00 | G 1/4 | 76.410.xx.xx | |
| 76.083.88.00 | G 1/4 | 76.411.xx.xx (Cnomo Type) | |

5/2-way - Oscillator

SECTION D

Actuation: Solenoid
Return: Solenoid
Coil Type: 76.410.xx.xx (order separately)



This valve can be used to oscillate a double acting cylinder. When the solenoid is continuously energised the valve will oscillate. Removal of electrical power to the solenoid coil will return the valve to its start position. Speed is dependent upon the connected volume and line pressure which can be controlled by the addition of flow control valves on the cylinder input ports. The typical speed is 16 cycles per minute, the minimum operating pressure range is 2.5 bar.

| Code | A | Type | Symbol |
|--------------|-------|------------|--------|
| 76.083.90.00 | G 1/8 | Oscillator | |

External Auxiliary Valves

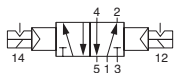
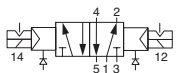
SECTION D

The 76 series range of valves is also available with additional external pneumatic auxiliary ports for switching. Other versions are available, please contact our sales department for further information.

Actuation: Solenoid (external pneumatic auxiliary port)

Coil Type: 76.410.xx.xx (order separately)

76.411.xx.xx only for Cnomo versions (order separately)

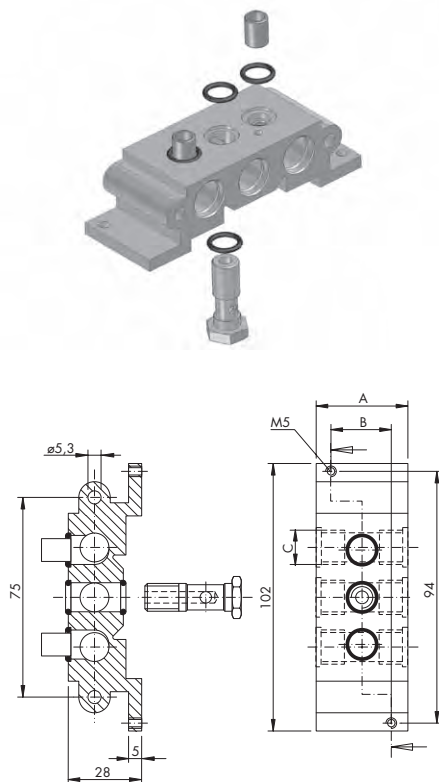
| Example of Standard Symbol | Example of Symbol for External Auxiliary |
|---|---|
|  |  |

| Code | Function | Pressure connection | Pilot Pressure Connection | Valve Type | Housing | Return | Note |
|--------------|--------------------------|---------------------|---------------------------|---------------|--|----------|----------------|
| 76.326.11.00 | 3/2 NO | G1/8 | M5 | Poppet valves | Die-cast and varnished aluminium alloy | Spring | |
| 76.346.11.00 | | G1/4 | M5 | | | Spring | |
| 76.366.11.00 | | G1/2 | G1/8 | | | Spring | |
| 76.326.01.00 | 3/2 NC | G1/8 | M5 | Poppet valves | Die-cast and varnished aluminium alloy | Spring | |
| 76.346.01.00 | | G1/4 | M5 | | | Spring | |
| 76.366.01.00 | | G1/2 | G1/8 | | | Spring | |
| 76.327.91.00 | 5/2 | G1/8 | M5 | Poppet valves | Die-cast and varnished aluminium alloy | Spring | |
| 76.327.92.00 | | | | Poppet valves | Die-cast and varnished aluminium alloy | Solenoid | |
| 76.323.91.00 | | | | Spool valves | Die-cast and varnished aluminium alloy | Spring | |
| 76.323.92.00 | | | | Spool valves | Die-cast and varnished aluminium alloy | Solenoid | |
| 76.347.91.00 | 5/2 | G1/4 | M5 | Poppet valves | Die-cast and varnished aluminium alloy | Spring | |
| 76.347.92.00 | | | | Poppet valves | | Solenoid | |
| 76.343.91.00 | | | | Spool valves | | Spring | |
| 76.343.92.00 | | G1/2 | G1/8 | Poppet valves | Die-cast and varnished aluminium alloy | Solenoid | |
| 76.367.91.00 | | | | | | Solenoid | Vertical pilot |
| 76.344.02.00 | 5/3 all ports exhaust | G1/4 | M5 | Spool valves | Die-cast and varnished aluminium alloy | Solenoid | |
| 76.387.94.00 | 5/2 | ISO 1 | G1/8 | Poppet valves | Die-cast and varnished aluminium alloy | Spring | Vertical pilot |
| 76.387.97.00 | | | | Poppet valves | | Spring | Cnomo pilot |
| 76.387.98.00 | | | | Poppet valves | | Solenoid | Cnomo pilot |
| 76.383.97.00 | | | | Spool valves | | Spring | Cnomo pilot |
| 76.384.05.00 | 5/3 all ports exhaust | | | | | Solenoid | Vertical pilot |
| 76.397.97.00 | 5/2 | ISO 2 | G1/8 | Poppet valves | Die-cast and varnished aluminium alloy | Spring | |
| 76.393.97.00 | | | | Spool valves | | Spring | |
| 76.393.98.00 | | | | Spool valves | | Solenoid | |

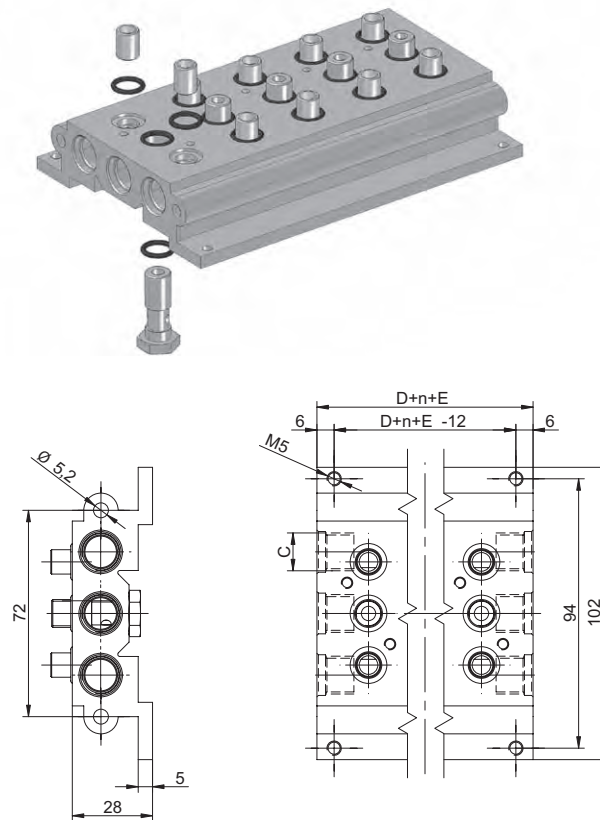
Subplates for Solenoid Valves 76.02x.xx.xx / 76.04x.xx.xx

If your solenoid valve requirement is for G1/8 or G1/4 threaded ports then the valves can easily be mounted using subplates with common integrated air pressure supply and exhaust channels. Modular subplates are available for up to 1-10 valves. The valves are mounted using a hollow bolt securing the valve to the subplate allowing air pressure to each individual mounted valve. The exhaust connections of each valve are centred by two brass

sleeves and sealed using O-rings. Additional valve locations that remain empty can be closed using dummy subplates which can be utilised for future expansion. O-rings are used to seal individual subplates together, sealing nipples can be used to separate air feeds or simply closing channels within the valve configuration. The subplates are connected together using an M4 threaded rod. Please refer to page A/16 for mounting instructions.



Subplate with a place for one valve



Subplate with places for 2-10 valves

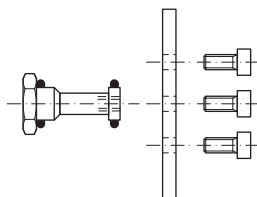
| Code | Position number | A | B | C | D | E | Min. Order Qty |
|--------------|--------------------------|----|----|-------|-----|------|----------------|
| 76.420.02.xx | from 1 up to 10 position | 35 | 23 | G 1/8 | 7.5 | 28.5 | 50 pcs |
| 76.440.02.xx | from 1 up to 10 position | 42 | 30 | G 1/4 | 16 | 26.5 | 50 pcs |

Note: The last two numbers (xx) indicate the subplates location numbers. Included in the shipment for each valve location is 1 hollow bolt, 2 brass sleeves and 4 O-rings.

Set of Dummy Subplates and Connecting Nipples

Dummy Subplates

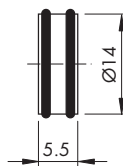
Sealing plate, blanking plug, o-rings (3) and screws (3) to close a subplate position



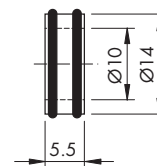
Connecting Nipples

Nipples for connecting 2 different subplates

Blanking Nipple A



Connecting Nipple B



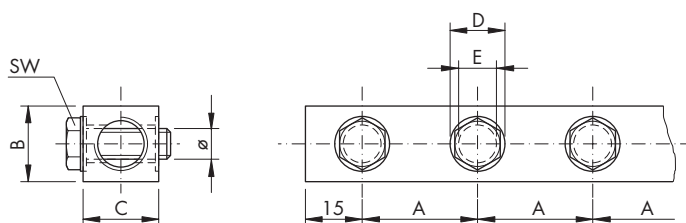
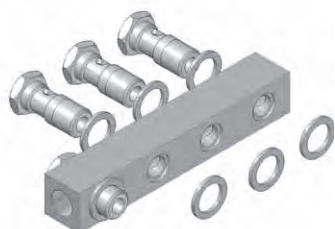
| Code | For connection variables |
|--------------|--------------------------|
| 76.420.00.46 | G 1/8 |
| 76.420.00.47 | G 1/4 |

| Code | Number per set |
|--------------|-------------------|
| 76.420.00.48 | 3 x B |
| 76.420.00.49 | (2 x B) + (1 x A) |

Common Input Manifolds G 1/8, G 1/4 for Subplates

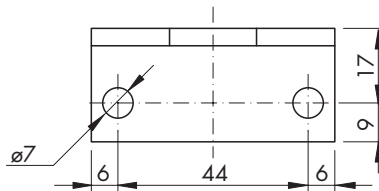
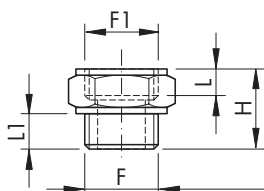
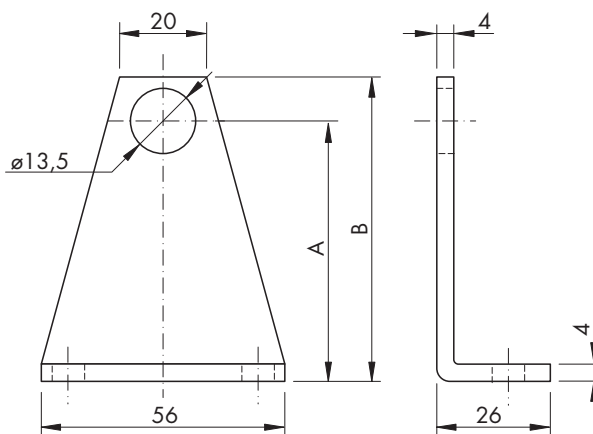
Common input manifolds are available in two sizes, G1/8 or G1/4. Each manifold has two separate air feeds at either end of the strip. Up to 10 valves can be mounted across the face of the strip using hollow bolts.

Two bracket sizes are available to accommodate the height of valve used. Please refer to page A/16 for mounting instructions.



| Code | Ø | A | B | C | ØD | E | SW | Min. Order Qty |
|----------------------|-------|------|----|----|------|------|----|----------------|
| 76.420.01.xx (02-10) | G 1/8 | 30.5 | 20 | 20 | 14.5 | 10 | 14 | 50 pcs |
| 76.440.01.xx (02-10) | G 1/4 | 30.5 | 20 | 20 | 14.5 | 13.5 | 17 | 50 pcs |

Note: The last two numbers (xx) indicate the manifold location numbers. Hollow bolts and O-rings are included. Other versions on request.



| Code | F1/F1 | L | L1 | H | SW | A | B | Min. Order Qty |
|--------------|-------|----|----|----|----|-----|-----|----------------|
| 76.420.00.09 | G 1/4 | 11 | 11 | 25 | 17 | 60 | 70 | 50 pcs |
| 76.440.00.10 | G 1/4 | 11 | 11 | 20 | 17 | 130 | 140 | 50 pcs |

Note: The shipment includes 2 mounting brackets and 2 O-rings.

Spare parts for Subplates

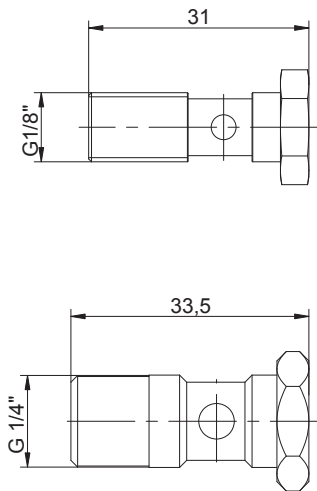
Hollow bolt

Hollow bolt used for mounting valves as shown on page A-16.



| Code | Connection Set |
|--------------|----------------|
| 76.420.00.34 | G 1/8 |
| 76.420.00.35 | G 1/4 |

Note: The shipment includes 1 hollow bolt and 2 O-rings.



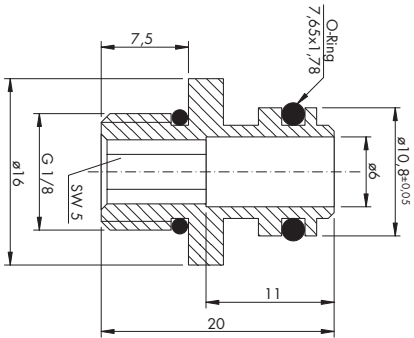
Linking element

Linking element to seal individual subplate sections operating at different pressures or for open connecting ports.



| Code | Note |
|--------------|--|
| 76.420.00.36 | Linking element with borehole Ø 6 mm |
| 76.420.00.37 | Linking element without borehole Ø 6 mm |

Note: The shipment includes 1 linking element complete with O-rings.

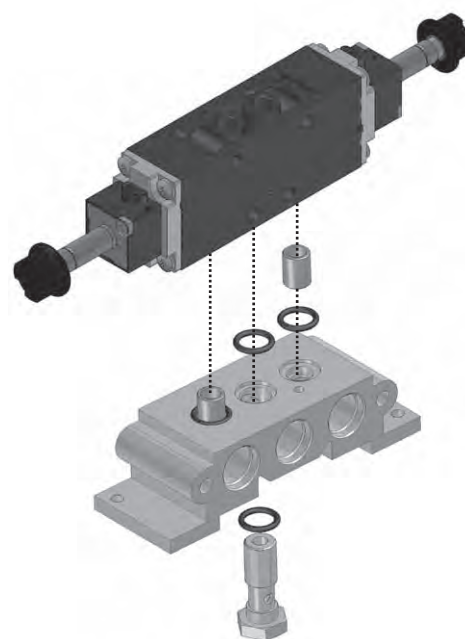
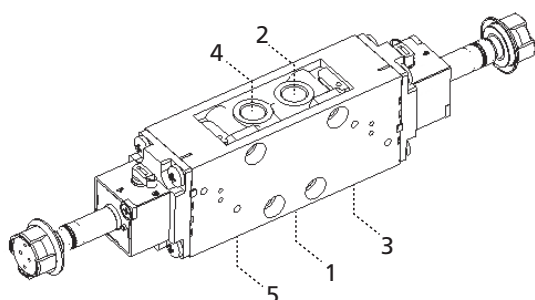


Subplate System Mounting Instructions

Subplate and valve:

- Air pressure supply (1) - On the subplates
- Exhaust channels (3; 5) - On the subplates
- Outputs (2; 4) - Valve outputs

Insert the brass sleeves and O-rings onto the subplate into position "3" and "5" as shown. Place the valve onto the subplate using the brass sleeves for guidance. Insert the hollow bolt from under the subplate locating the bolt to port "1" of the valve and tighten to secure the valve to the subplate.

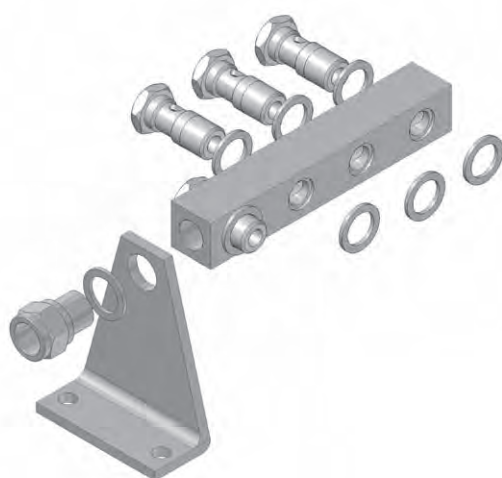


Common Input Manifold Mounting Instructions

Each valve is mounted along the face of the common input manifold as shown below in "Step 2". Hollow bolts and O-rings secure the valve to the manifold allowing air pressure to port "1" of each valve.

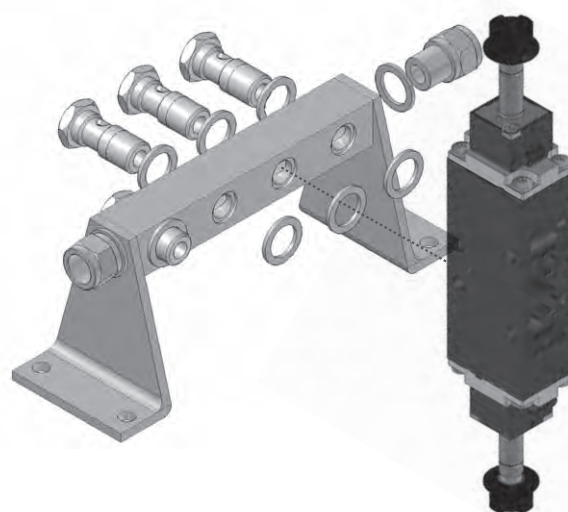
Assembly of mounting brackets to the manifold body

STEP 1



Mounting of the valve on the manifold

STEP 2



MECHANICALLY ACTUATED VALVES

General information

| Function | Section | Pressure range | Pressure connection (nominal orifice) | Housing material | Seals |
|---|---------|--|---------------------------------------|--|-------|
| 2/2-way Poppet Valves 3/2-way Poppet Valves | A | 0 - 10 bar | G 1/8 (4 mm) | Die-cast and varnished zinc alloy | PUR |
| 3/2-way Spool Valves | B | 0 - 10 bar (direct) 2.5 - 10 bar (pilot controlled) | G 1/8 (6 mm) | Die-cast and varnished zinc alloy | NBR |
| Panel mounted pushbuttons * (3/2-way Spool Valves) | C | 0 - 10 bar (direct) 2.5 - 10 bar (pilot controlled) | G 1/8 (6 mm) | Die-cast and varnished zinc alloy | NBR |
| 3/2-way Spool Valves | D | 0 - 10 bar | G 1/4 (8 mm) | Die-cast and varnished aluminium alloy | NBR |
| 5/2-way Spool Valves 5/3-way Spool Valves | E | 0 - 10 bar (direct) 2.5 - 10 bar (pilot controlled) | G 1/8 (6 mm) | Die-cast and varnished zinc alloy | NBR |
| Panel mounted pushbuttons * (5/2-way Spool Valves) (5/3-way Spool Valves) | F | 0 - 10 bar (direct) 2.5 - 10 bar (pilot controlled) | G 1/8 (6 mm) | Die-cast and varnished zinc alloy | NBR |
| 5/2-way Spool Valves 5/3-way Spool Valves | G | 0 - 10 bar | G 1/4 (8 mm) | Die-cast and varnished aluminium alloy | NBR |
| Servo controlled Valves Mixed Mechanical and Pneumatic Valves | H | 0 - 10 bar (direct) 2.5 - 10 bar (pilot controlled) | G 1/8 (6 mm) G 1/4 (8 mm) | Die-cast and varnished aluminium alloy | NBR |

* Panel mounted pushbuttons are designed to fit along side standard industrial electrical pushbuttons to provide a uniform panel appearance and utilize the same drilling hole sizes and spacing. Additionally, items such as legend plates, lock off devices and other standard accessories can be used to blend air valves with electrical buttons on operator control panels.

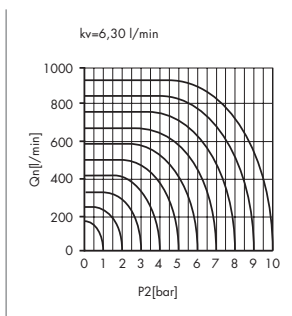
Miniature pushbutton valves utilize a bayonet mounting system that reduces installation time by eliminating loose washers, spacers and valve assembly. The pushbutton operator is inserted in the panel hole and attached to the valve body by turning the valve into place. 2 clamping screws are then tightened into the back of the panel to secure the unit in place.

Ambient temperature range: From -15 °C to +50 °C

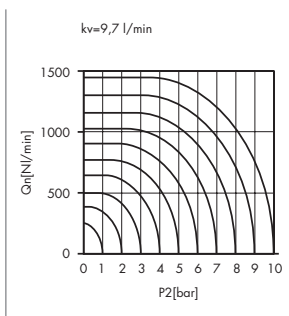
Mounting: Any position

Lubricant: Not required

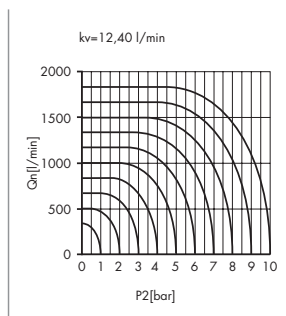
Operating medium: 5 micron filtered, lubricated (or not) compressed air; also suitable for other media conforming to ISO-VG 10



Poppet Valves
Orifice 4 mm



Spool Valves
Orifice 6 mm



Spool Valves
Orifice 8 mm

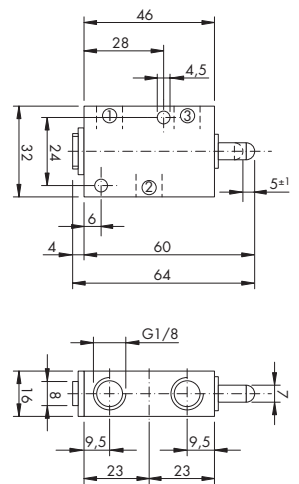
2/2-way & 3/2-way Poppet Valves - G 1/8 (D_{nom} 4 mm)

SECTION A

Actuation: Plunger

Actuation Force: 60 N (6 bar approx.)

Return: Spring



| Code | Symbol |
|--------------|--------|
| 76.025.21.21 | |
| 76.026.21.21 | |

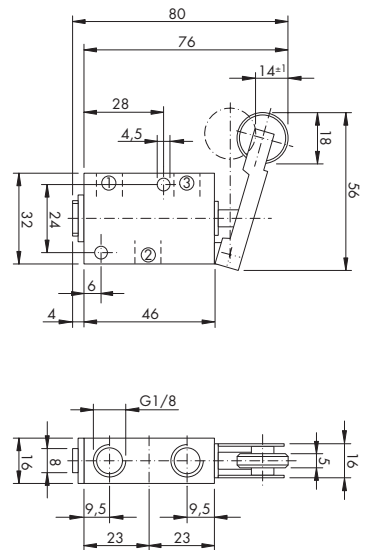
2/2-way & 3/2-way Poppet Valves - G 1/8 (D_{nom} 4 mm)

SECTION A

Actuation: Roller lever

Actuation Force: 35 N (6 bar approx.)

Return: Spring



| Code | Symbol |
|--------------|--------|
| 76.025.23.21 | |
| 76.026.23.21 | |

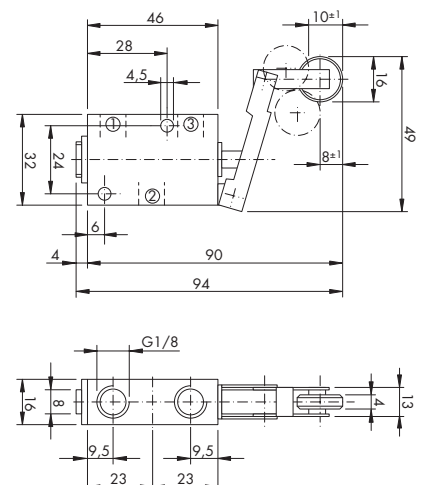
2/2-way & 3/2-way Poppet Valves - G 1/8 (D_{nom} 4 mm)

SECTION A

Actuation: One-way lever trip

Actuation Force: 20 N (6 bar approx.)

Return: Spring

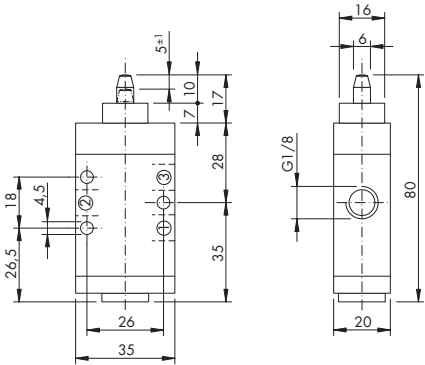


| Code | Symbol |
|--------------|--------|
| 76.025.24.21 | |
| 76.026.24.21 | |

3/2-way Spool Valves - G 1/8 (D_{nom} 6 mm)

SECTION B

Actuation: Plunger
Actuation Force: 35 N (6 bar approx.)
Return: Spring

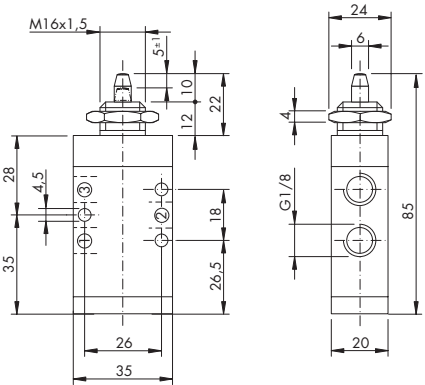
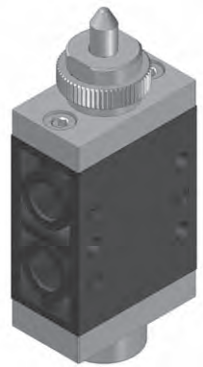


| Code | Symbol |
|--------------|--------|
| 76.022.21.21 | |

3/2-way Spool Valves - G 1/8 (D_{nom} 6 mm)

SECTION B

Actuation: Plunger
Actuation Force: 35 N (6 bar approx.)
Return: Spring

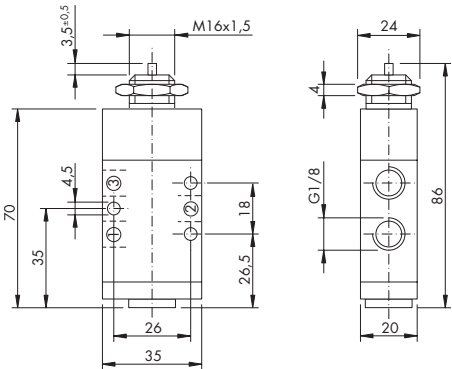
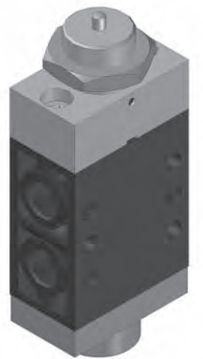


| Code | Symbol |
|--------------|--------|
| 76.022.22.21 | |

3/2-way Spool Valves - G 1/8 (D_{nom} 6 mm)

SECTION B

Actuation: Plunger, air pilot assisted
Actuation Force: 8 N (6 bar approx.)
Return: Spring



| Code | Symbol |
|--------------|--------|
| 76.022.32.21 | |

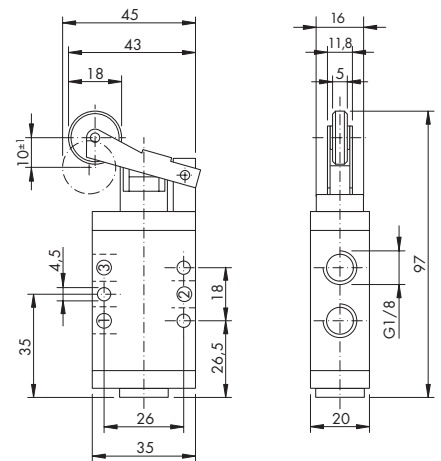
3/2-way Spool Valves - G 1/8 (D_{nom} 6 mm)

SECTION B

Actuation: Roller lever

Actuation Force: 20 N (6 bar approx.)

Return: Spring



| Code | Symbol |
|--------------|--------|
| 76.022.23.21 | |

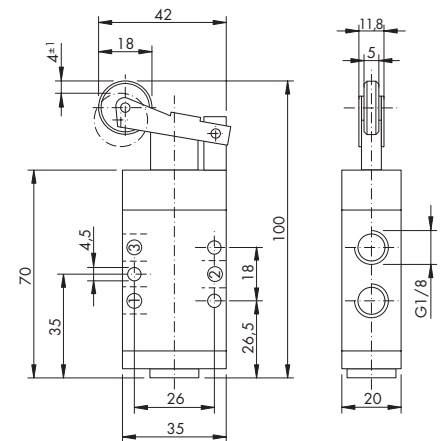
3/2-way Spool Valves - G 1/8 (D_{nom} 6 mm)

SECTION B

Actuation: Roller lever, air pilot assisted

Actuation Force: 4 N (6 bar approx.)

Return: Spring



| Code | Symbol |
|--------------|--------|
| 76.022.33.21 | |

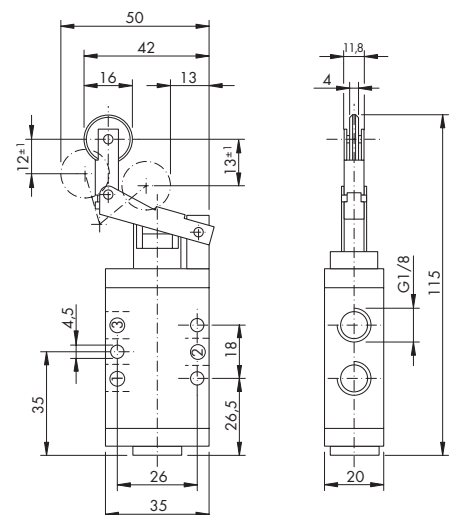
3/2-way Spool Valves - G 1/8 (D_{nom} 6 mm)

SECTION B

Actuation: One-way lever trip

Actuation Force: 20 N (6 bar approx.)

Return: Spring



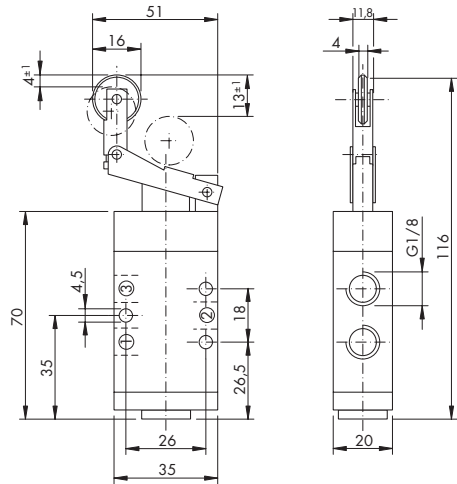
| Code | Symbol |
|--------------|--------|
| 76.022.24.21 | |

3/2-way Spool Valves - G 1/8 (D_{nom} 6 mm)

SECTION B

Actuation: One way lever trip, air pilot assisted
Actuation Force: 4 N (6 bar approx.)
Return: Spring

| Code | Symbol |
|--------------|--------|
| 76.022.34.21 | |



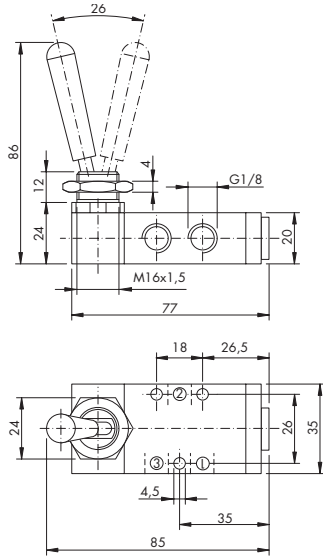
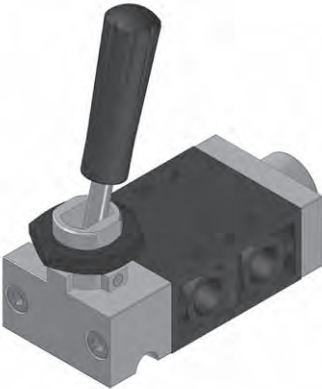
3/2-way Spool Valves - G 1/8 (D_{nom} 6 mm)

SECTION B

Actuation: Lever operated
Actuation Force: 15 N (6 bar approx.)
Return: Spring
 Maintained position

| Code | Return | Symbol |
|--------------|---------------------|--------|
| 76.022.25.21 | Spring | |
| 76.022.25.00 | Maintained position | |

Note: bellows available with order code 76.420.00.54 (set 5 pcs)

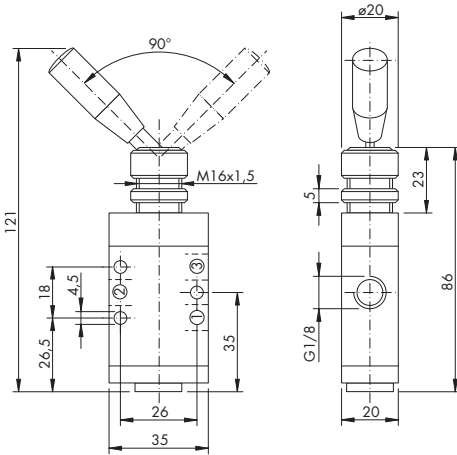
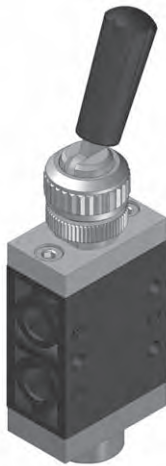


3/2-way Spool Valves - G 1/8 (D_{nom} 6 mm)

SECTION B

Actuation: Lever operated
Actuation Force: 15 N (6 bar approx.)
Return: Maintained position

| Code | Symbol |
|--------------|--------|
| 76.022.26.21 | |



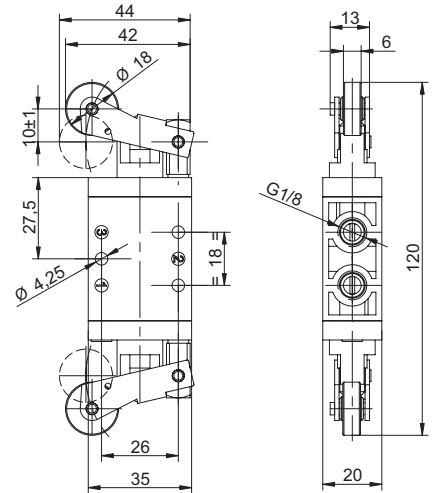
3/2-way Spool Valves - G 1/8 (D_{nom} 6 mm)

SECTION B

Actuation: Roller lever

Actuation Force: 20 N (6 bar approx.)

Return: Roller lever



| Code | Symbol |
|--------------|--------|
| 76.022.23.10 | |

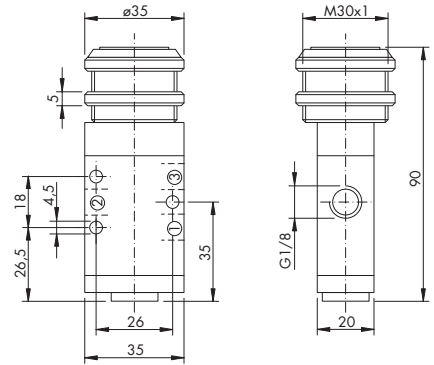
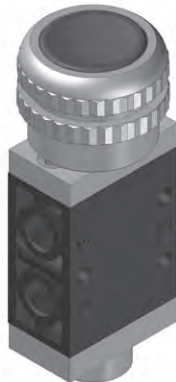
3/2-way Spool Valves - G 1/8 (D_{nom} 6 mm)

SECTION B

Actuation: Shrouded head pushbutton

Actuation Force: 35 N (6 bar approx.)

Return: Spring



| Code | Pushbutton | Symbol |
|--------------|------------|--------|
| 76.022.62.21 | red | |
| 76.022.62.24 | green | |
| 76.022.62.23 | black | |

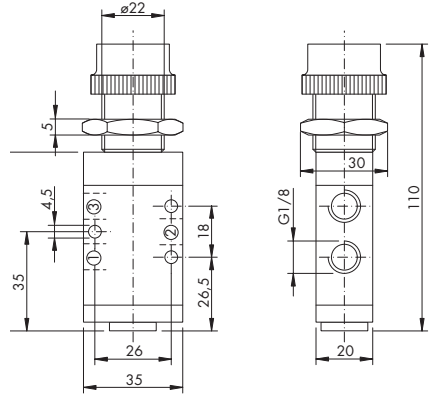
3/2-way Spool Valves - G 1/8 (D_{nom} 6 mm)

SECTION B

Actuation: Shrouded head pushbutton, air pilot assisted

Actuation Force: 4 N (6 bar approx.)

Return: Spring



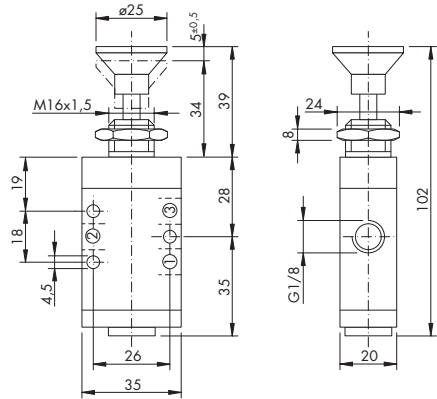
| Code | Pushbutton | Symbol |
|--------------|------------|--------|
| 76.022.66.21 | red | |
| 76.022.66.24 | green | |
| 76.022.66.23 | black | |

3/2-way Spool Valves - G 1/8 (D_{nom} 6 mm)

SECTION B

Actuation: Knob pushbutton
Actuation Force: 35 N (6 bar approx.)
Return: Spring
Maintained position

| Code | Return | Symbol |
|--------------|---------------------|--------|
| 76.022.27.21 | Spring | |
| 76.022.27.00 | Maintained position | |

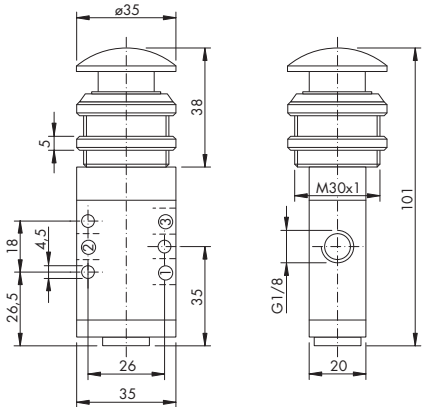
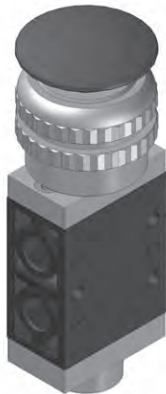


3/2-way Spool Valves - G 1/8 (D_{nom} 6 mm)

SECTION B

Actuation: Mushroom pushbutton
Actuation Force: 35 N (6 bar approx.)
Return: Spring

| Code | Pushbutton | Symbol |
|--------------|------------|--------|
| 76.022.61.21 | red | |
| 76.022.61.24 | green | |
| 76.022.61.23 | black | |

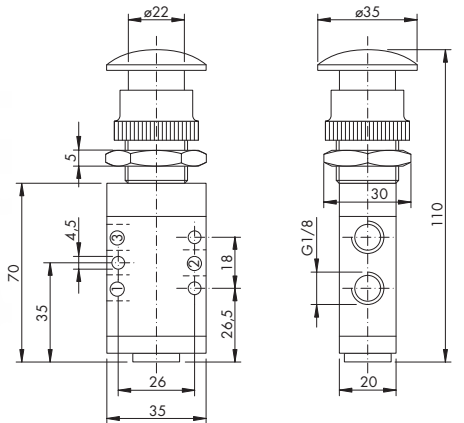
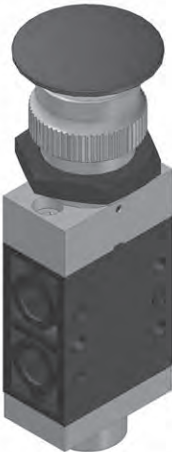


3/2-way Spool Valves - G 1/8 (D_{nom} 6 mm)

SECTION B

Actuation: Mushroom pushbutton, air pilot assisted
Actuation Force: 4 N (6 bar approx.)
Return: Spring

| Code | Pushbutton | Symbol |
|--------------|------------|--------|
| 76.022.65.21 | red | |
| 76.022.65.24 | green | |
| 76.022.65.23 | black | |



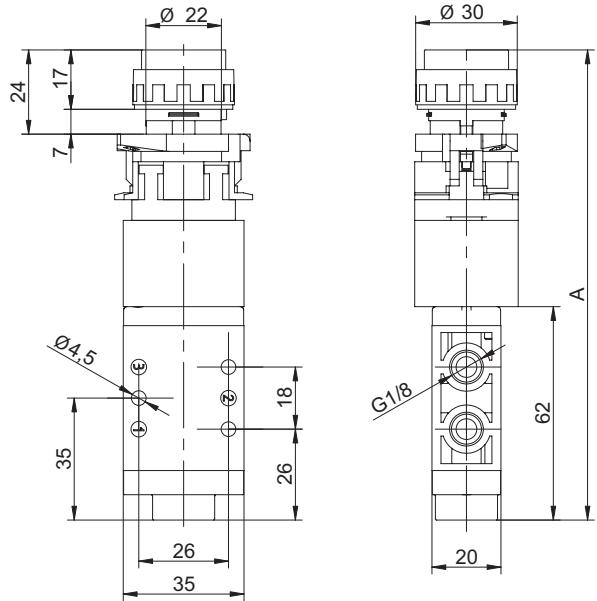
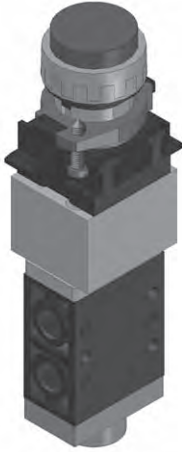
3/2-way Panel Mounted Spool Valves - G 1/8 (D_{nom} 6 mm)

SECTION C

Actuation: Type A: Raised pushbutton
Type B: Raised pushbutton, air pilot assisted

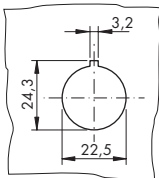
Return: Type A & B: Spring

Actuation Force: Type A: 35 N (6 bar approx.)
Type B: 8 N (6 bar approx.)



| Code | A | Symbol |
|--------------------------|-----|--------|
| 76.022.41.21 (Type A) | 136 | |
| 76.022.51.21 (Type B) | 143 | |

Panel Drilling Plan



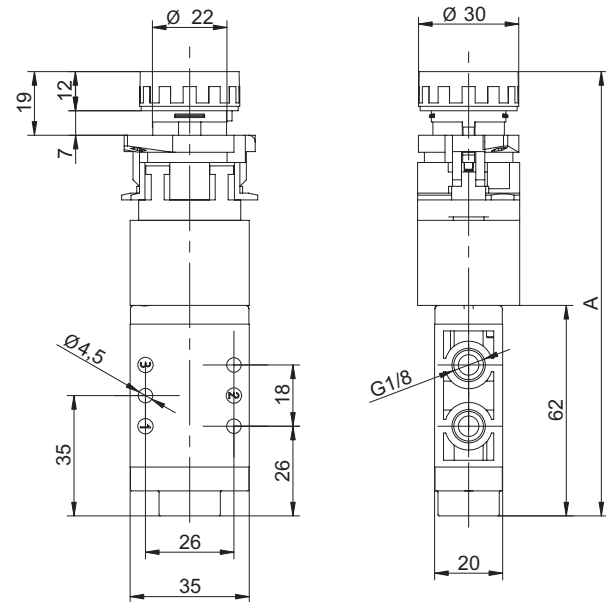
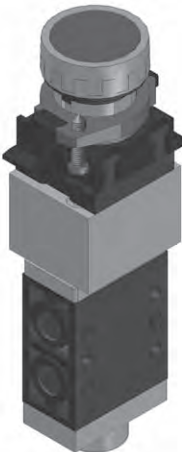
3/2-way Panel Mounted Spool Valves - G 1/8 (D_{nom} 6 mm)

SECTION C

Actuation: Type A: Shrouded head pushbutton
Type B: Shrouded head pushbutton, air pilot assisted

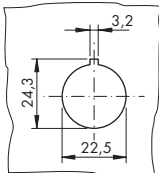
Return: Type A & B: Spring

Actuation Force: Type A: 35 N (6 bar approx.)
Type B: 8 N (6 bar approx.)



| Code | A | Symbol |
|--------------------------|-----|--------|
| 76.022.42.21 (Type A) | 131 | |
| 76.022.52.21 (Type B) | 138 | |

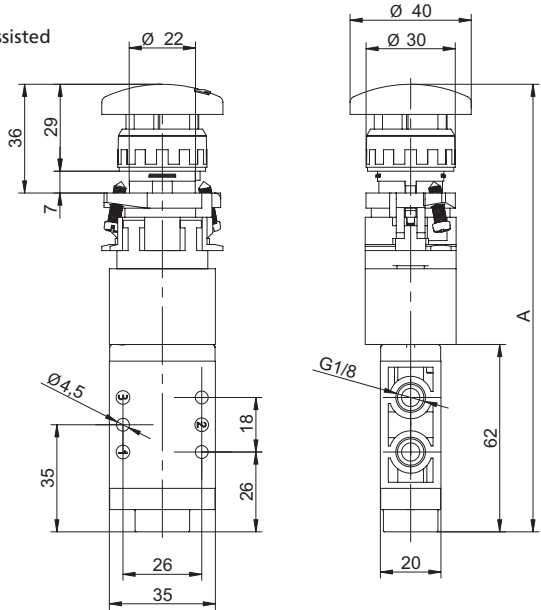
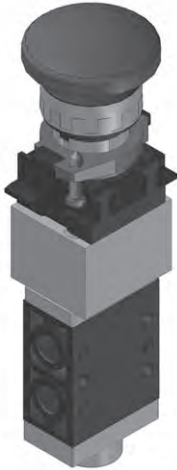
Panel Drilling Plan



3/2-way Panel Mounted Spool Valves - G 1/8 (D_{nom} 6 mm)

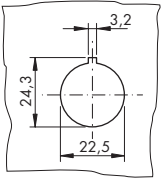
SECTION C

- Actuation:** Type A: Punch button
Type C: Mushroom pushbutton
Return: Type A & B: Maintained position
Type C & D: Spring
Actuation Force: Type A: 35 N (6 bar approx.)
Type B: 8 N (6 bar approx.)
- Type B: Punch button, air pilot assisted
Type D: Mushroom pushbutton, air pilot assisted
Type C & D: Spring



| Code | A | Symbol | Code | A | Symbol |
|--------------------------|-----|--------|--------------------------|-----|--------|
| 76.022.44.21 (Type A) | 148 | | 76.022.43.21 (Type C) | 148 | |
| 76.022.54.21 (Type B) | 155 | | 76.022.53.21 (Type D) | 155 | |

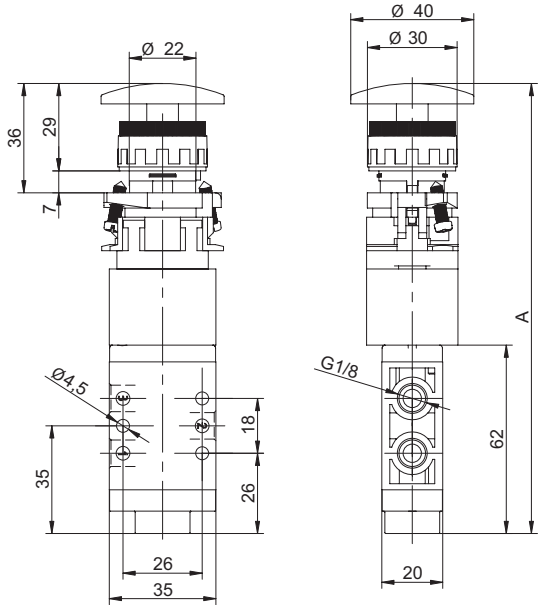
Panel Drilling Plan



3/2-way Panel Mounted Spool Valves - G 1/8 (D_{nom} 6 mm)

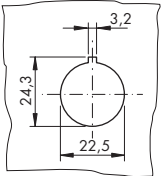
SECTION C

- Actuation:** Type A: Wobblebutton
Type B: Wobblebutton air pilot assisted
Return: Type A & B: Spring
Actuation Force: Type A: 35 N (6 bar approx.)
Type B: 8 N (6 bar approx.)



| Code | A | Symbol |
|--------------------------|-----|--------|
| 76.022.45.21 (Type A) | 148 | |
| 76.022.55.21 (Type B) | 155 | |

Panel Drilling Plan



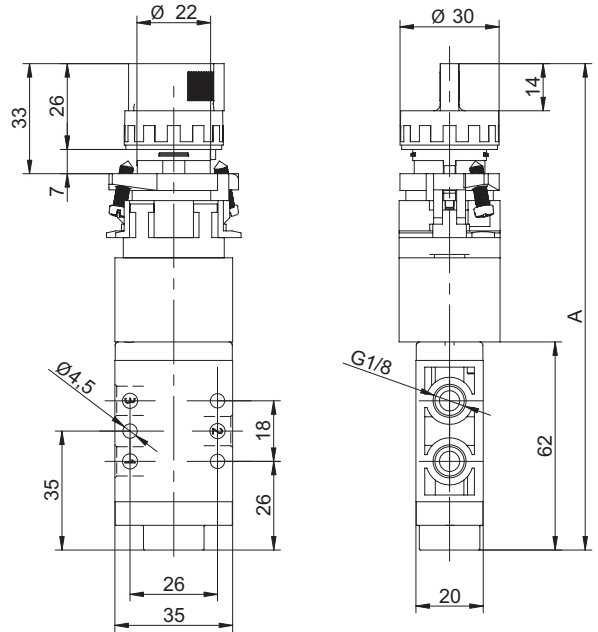
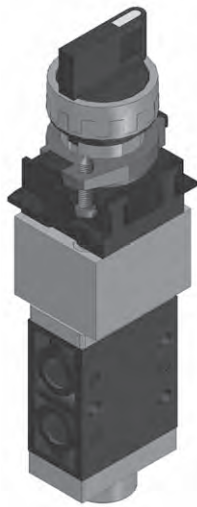
Note: Actuation operated by pushing down or to the side.

3/2-way Panel Mounted Spool Valves - G 1/8 (D_{nom} 6 mm)

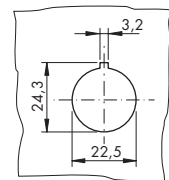
SECTION C

Actuation: Type A: Selector switch, short handle
Type B: Selector switch, short handle, air pilot assisted

Return: Type A & B: Maintained position



Panel Drilling Plan



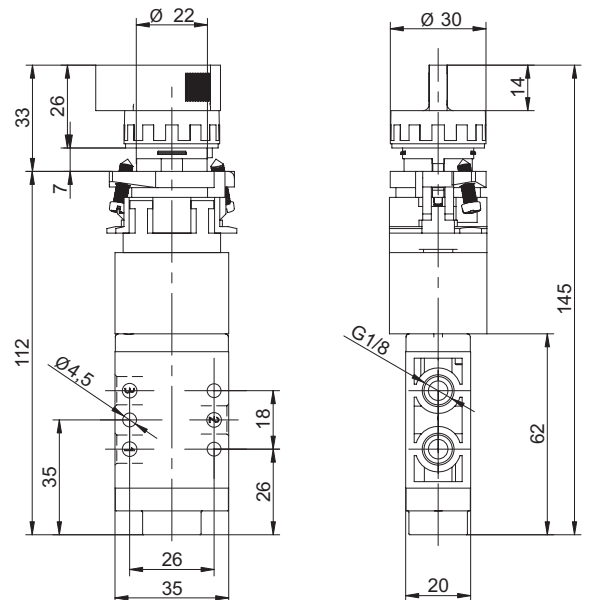
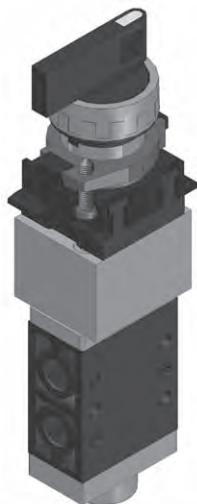
| Code | A | Symbol |
|--------------------------|-----|--------|
| 76.022.46.21 (Type A) | 145 | |
| 76.022.56.21 (Type B) | 152 | |

3/2-way Panel Mounted Spool Valves - G 1/8 (D_{nom} 6 mm)

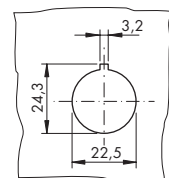
SECTION C

Actuation: Type A: Selector switch, long handle
Type B: Selector switch, long handle, air pilot assisted

Return: Type A & B: Maintained position



Panel Drilling Plan



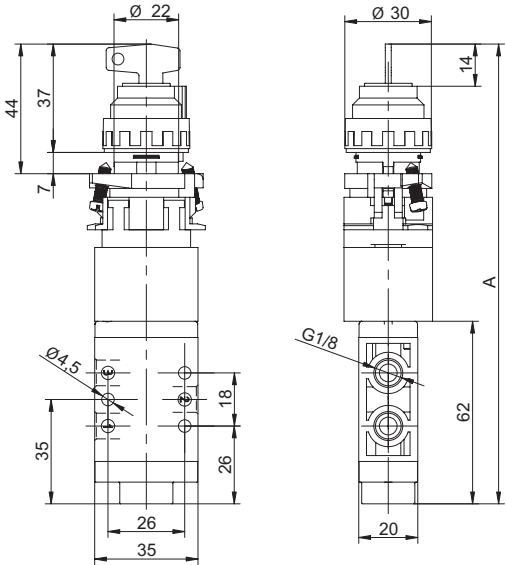
| Code | A | Symbol |
|--------------------------|-----|--------|
| 76.022.47.21 (Type A) | 145 | |
| 76.022.57.21 (Type B) | 152 | |

3/2-way Panel Mounted Spool Valves - G 1/8 (D_{nom} 6 mm)

SECTION C

Actuation: Type A: Key operated, 2 position selector
Type B: Key operated, 2 position selector, air pilot assisted

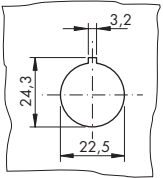
Return: Type A & B: Maintained position



| Code | A | Symbol |
|--------------------------|-----|--------|
| 76.022.48.21 (Type A) | 156 | |
| 76.022.58.21 (Type B) | 163 | |

Note: The key is retractable only in off position.
The keys are unique and not available as spares.

Panel Drilling Plan

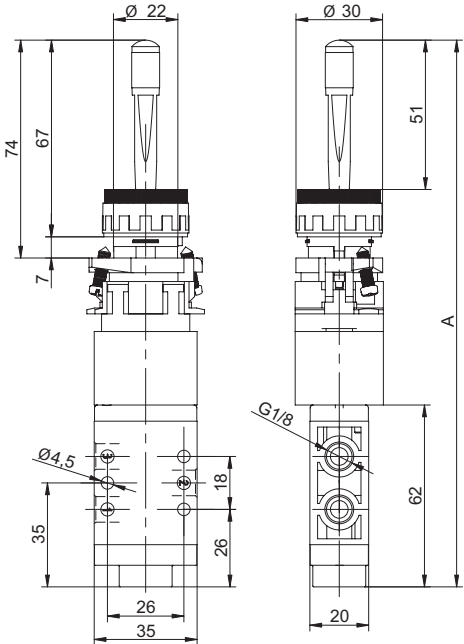
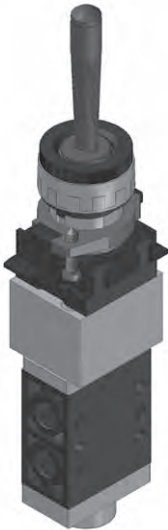


3/2-way Panel Mounted Spool Valves - G 1/8 (D_{nom} 6 mm)

SECTION C

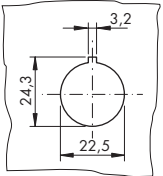
Actuation: Type A: Wobble stick, any direction
Type B: Wobble stick, any direction, air pilot assisted

Return: Type A & B: Spring



| Code | A | Symbol |
|--------------------------|-----|--------|
| 76.022.49.21 (Type A) | 186 | |
| 76.022.59.21 (Type B) | 193 | |

Panel Drilling Plan



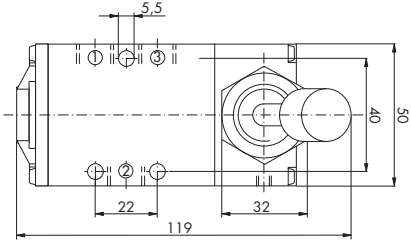
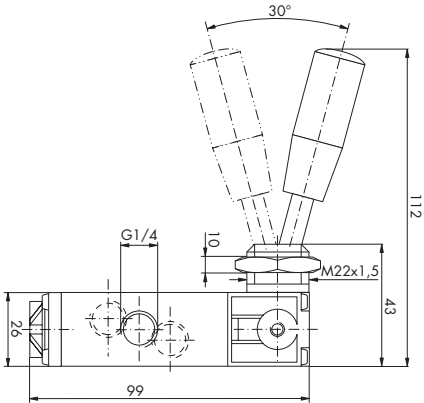
3/2-way Spool Valves - G 1/4 (D_{nom} 8 mm)

SECTION D

Actuation: Lever operated

Actuation Force: 15 N (6 bar approx.)

Return: Spring
Maintained position



| Code | Return | Symbol |
|--------------|---------------------|--------|
| 76.042.25.21 | Spring | |
| 76.042.25.00 | Maintained position | |

Note: bellows available with order code 76.420.00.55 (set 5 pcs).

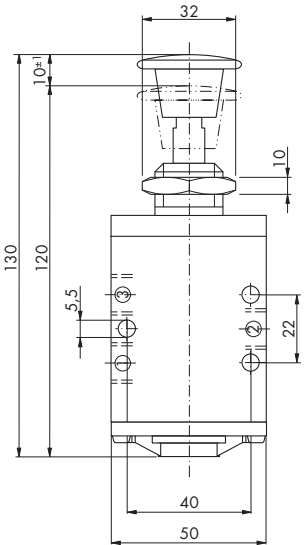
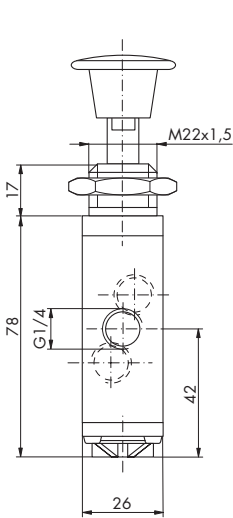
3/2-way Spool Valves - G 1/4 (D_{nom} 8 mm)

SECTION D

Actuation: Knob pushbutton

Actuation Force: 50 N (6 bar approx.)

Return: Spring
Maintained position

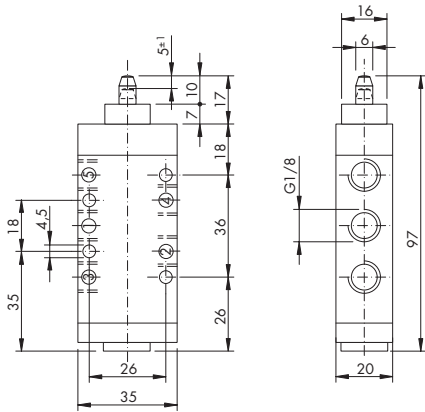


| Code | Return | Symbol |
|--------------|---------------------|--------|
| 76.042.27.21 | Spring | |
| 76.042.27.00 | Maintained position | |

5/2-way Spool Valves - G 1/8 (D_{nom} 6 mm)

SECTION E

Actuation: Plunger
Actuation Force: 35 N (6 bar approx.)
Return: Spring

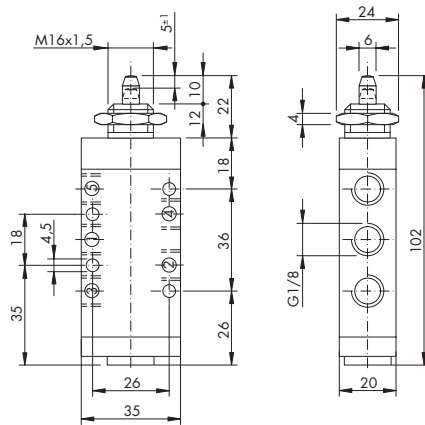


| Code | Symbol |
|--------------|--------|
| 76.023.21.41 | |

5/2-way Spool Valves - G 1/8 (D_{nom} 6 mm)

SECTION E

Actuation: Plunger
Actuation Force: 35 N (6 bar approx.)
Return: Spring

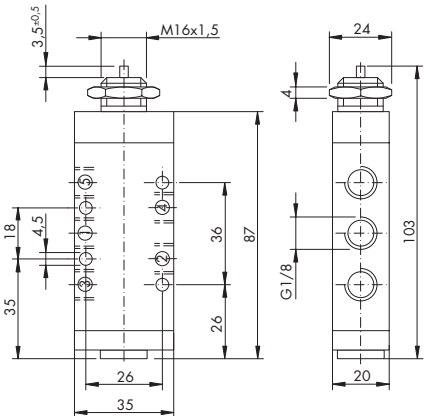


| Code | Symbol |
|--------------|--------|
| 76.023.22.41 | |

5/2-way Spool Valves - G 1/8 (D_{nom} 6 mm)

SECTION E

Actuation: Plunger, air pilot assisted
Actuation Force: 8 N (6 bar approx.)
Return: Spring



| Code | Symbol |
|--------------|--------|
| 76.023.32.41 | |

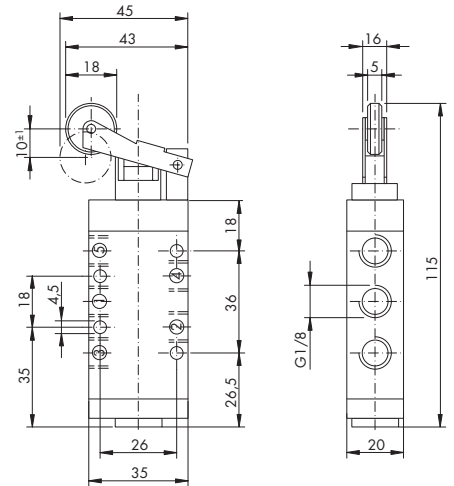
5/2-way Spool Valves - G 1/8 (D_{nom} 6 mm)

SECTION E

Actuation: Roller lever

Actuation Force: 20 N (6 bar approx.)

Return: Spring



| Code | Symbol |
|--------------|--------|
| 76.023.23.41 | |

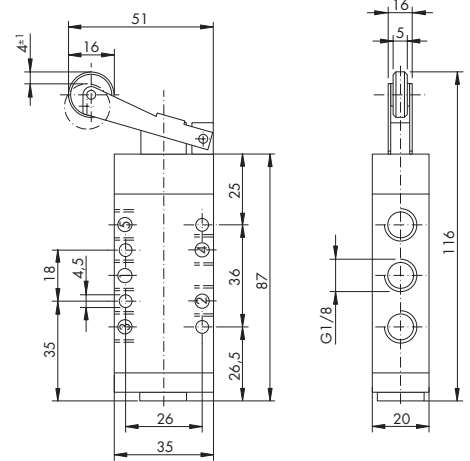
5/2-way Spool Valves - G 1/8 (D_{nom} 6 mm)

SECTION E

Actuation: Roller lever, air pilot assisted

Actuation Force: 4 N (6 bar approx.)

Return: Spring



| Code | Symbol |
|--------------|--------|
| 76.023.33.41 | |

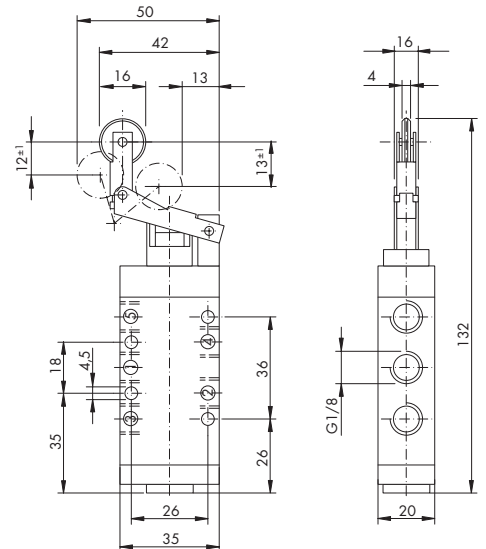
5/2-way Spool Valves - G 1/8 (D_{nom} 6 mm)

SECTION E

Actuation: One way lever trip

Actuation Force: 20 N (6 bar approx.)

Return: Spring



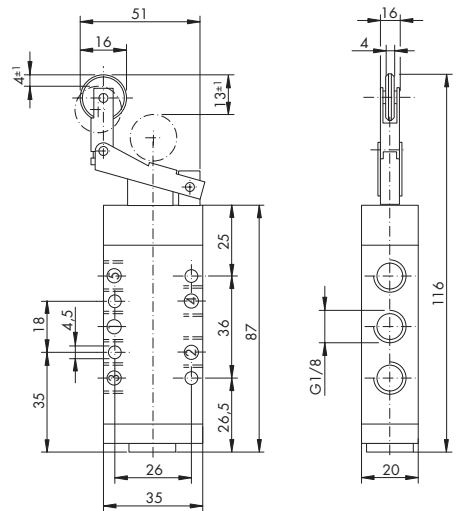
| Code | Symbol |
|--------------|--------|
| 76.023.24.41 | |

5/2-way Spool Valves - G 1/8 (D_{nom} 6 mm)

SECTION E

Actuation: One way lever trip, air pilot assisted
Actuation Force: 4 N (6 bar approx.)
Return: Spring

| Code | Symbol |
|--------------|--------|
| 76.023.34.41 | |

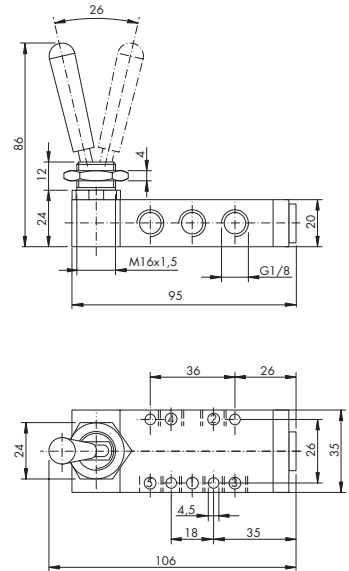
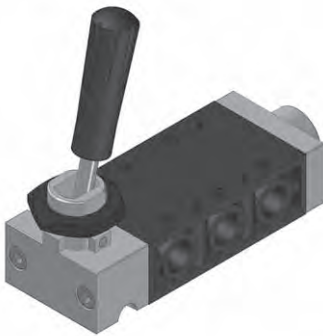


5/2-way Spool Valves - G 1/8 (D_{nom} 6 mm)

SECTION E

Actuation: Lever operated
Return: Spring
Maintained position

| Code | Return | Symbol |
|--------------|---------------------|--------|
| 76.023.25.40 | Maintained position | |
| 76.023.25.41 | Spring | |



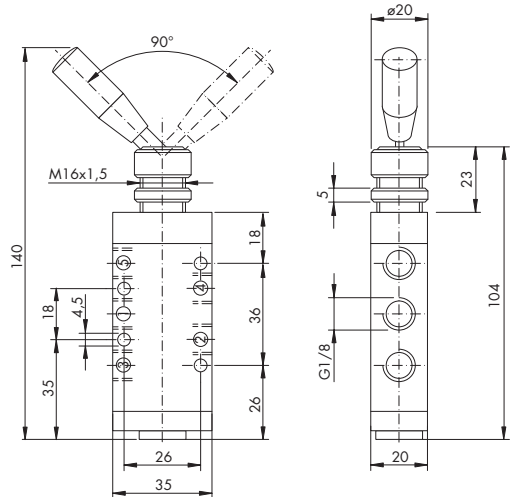
Note: bellows available with order code 76.420.00.54 (set 5 pcs).

5/2-way Spool Valves - G 1/8 (D_{nom} 6 mm)

SECTION E

Actuation: Lever operated
Return: Maintained position

| Code | Symbol |
|--------------|--------|
| 76.023.26.41 | |



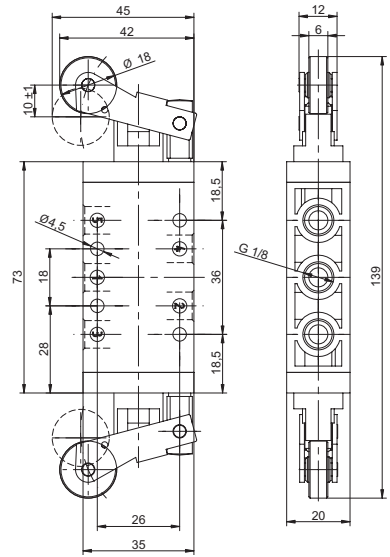
5/2-way Spool Valves - G 1/8 (D_{nom} 6 mm)

SECTION E

Actuation: Roller lever

Return: Roller lever

| Code | Symbol |
|--------------|--------|
| 76.023.23.10 | |



5/2-way Spool Valves - G 1/8 (D_{nom} 6 mm)

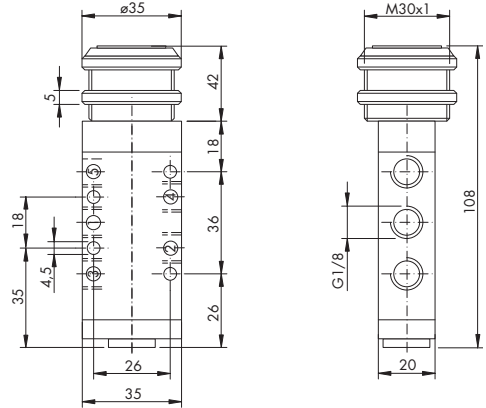
SECTION E

Actuation: Shrouded head pushbutton

Actuation Force: 35 N (6 bar approx.)

Return: Spring

| Code | Pushbutton | Symbol |
|--------------|------------|--------|
| 76.023.62.41 | red | |
| 76.023.62.44 | green | |
| 76.023.62.43 | black | |



5/2-way Spool Valves - G 1/8 (D_{nom} 6 mm)

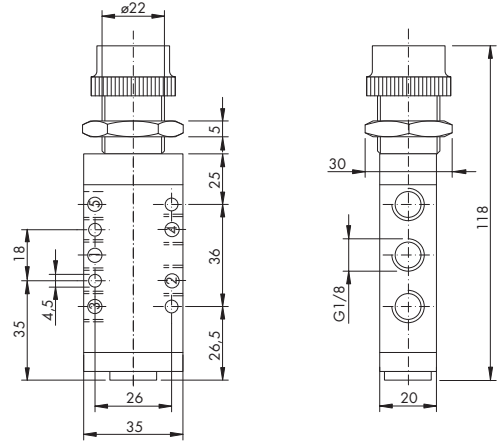
SECTION E

Actuation: Shrouded head pushbutton, air pilot assisted

Actuation Force: 8 N (6 bar approx.)

Return: Spring

| Code | Pushbutton | Symbol |
|--------------|------------|--------|
| 76.023.66.41 | red | |
| 76.023.66.44 | green | |
| 76.023.66.43 | black | |



5/2-way Spool Valves - G 1/8 (D_{nom} 6 mm)



SECTION E

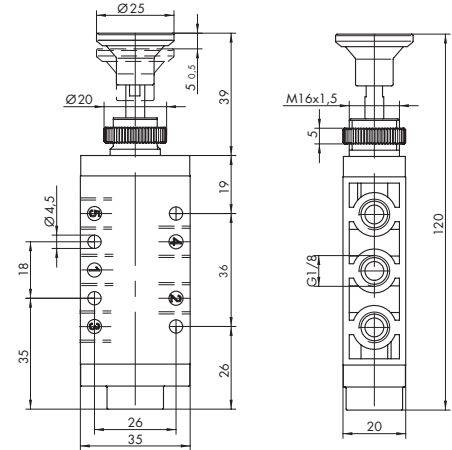
Actuation: Knob pushbutton

Actuation Force: 35 N (6 bar approx.)

Return: Spring
Maintained position



| Code | Return | Symbol |
|--------------|---------------------|---|
| 76.023.27.40 | Maintained position |  |
| 76.023.27.41 | Spring |  |



**SERIES 76
MECHANICALLY ACTUATED
VALVES**

5/2-way Spool Valves - G 1/8 (D_{nom} 6 mm)

SECTION E

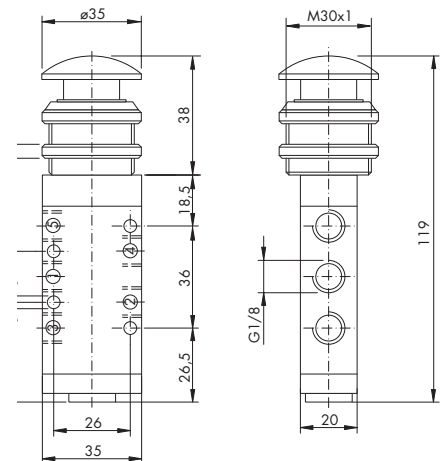
Actuation: Mushroom pushbutton

Actuation Force: 35 N (6 bar approx.)

Return: Spring



| Code | Pushbutton | Symbol |
|--------------|------------|--------|
| 76.023.61.41 | red | |
| 76.023.61.44 | green | |
| 76.023.61.43 | black | |



5/2-way Spool Valves - G 1/8 (D_{nom} 6 mm)

SECTION E

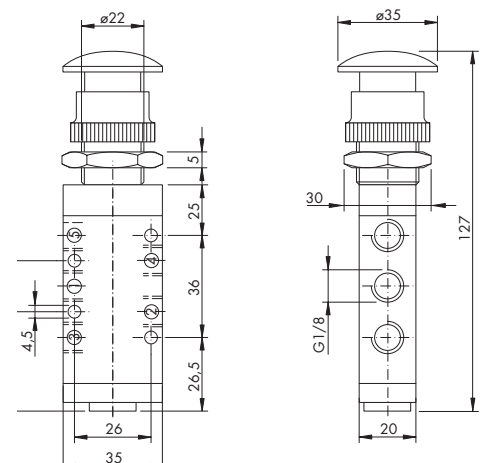
Actuation: Mushroom pushbutton, air pilot assisted

Actuation Force: 8 N (6 bar approx.)

Return: Spring



| Code | Pushbutton | Symbol |
|--------------|------------|--------|
| 76.023.65.41 | red | |
| 76.023.65.44 | green | |
| 76.023.65.43 | black | |

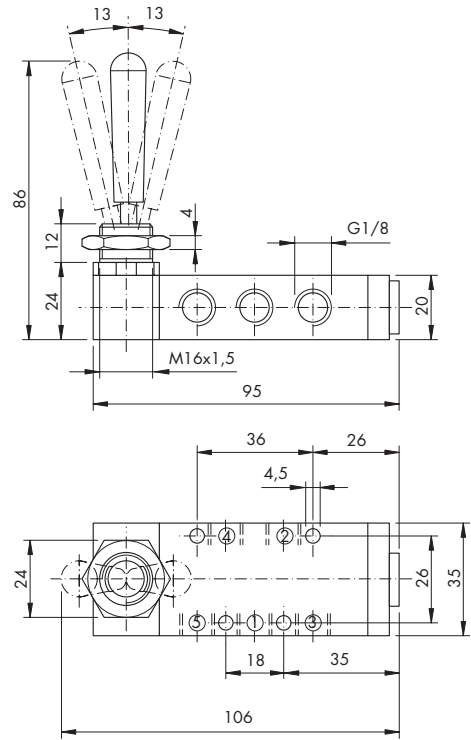
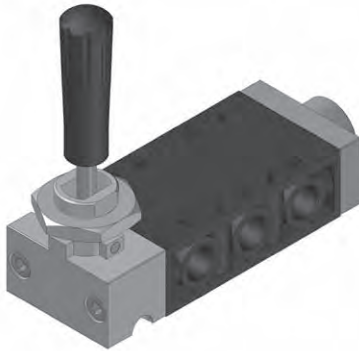


5/3-way Spool Valves - G 1/8 (D_{nom} 6 mm)

SECTION E

Actuation: Lever operated

Return: Spring (return to centre)



| Code | Function | Symbol |
|--------------|--------------------------|--------|
| 76.024.25.28 | 5/3 all ports exhaust | |
| 76.024.25.38 | 5/3 all ports closed | |

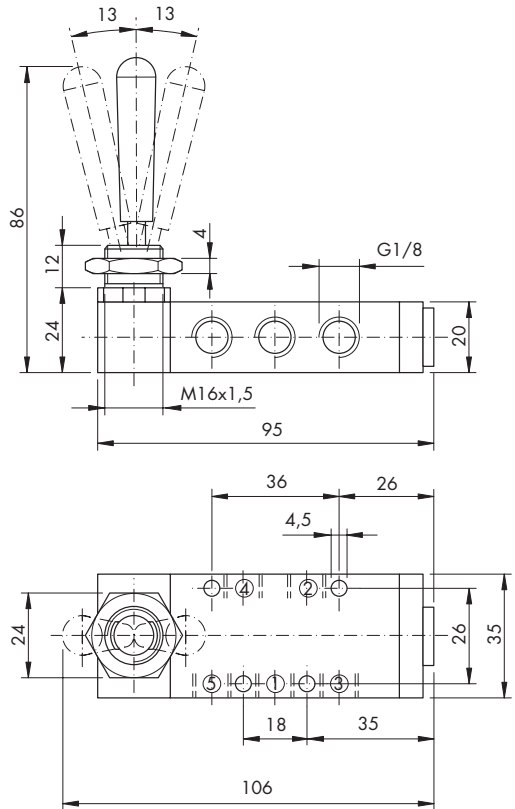
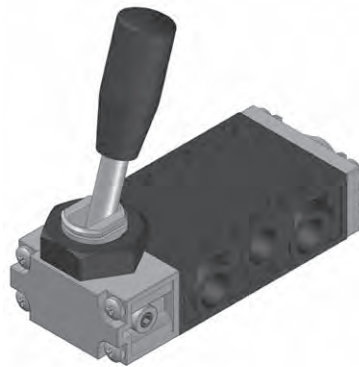
Note: Bellows available with order code 76.420.00.54 (set 5 pcs).

5/3-way Spool Valves - G 1/8 (D_{nom} 6 mm)

SECTION E

Actuation: Lever operated

Return: Maintained position



| Code | Function | Symbol |
|--------------|--------------------------|--------|
| 76.024.25.29 | 5/3 all ports exhaust | |
| 76.024.25.39 | 5/3 all ports closed | |

Note: Bellows available with order code 76.420.00.54 (set 5 pcs).

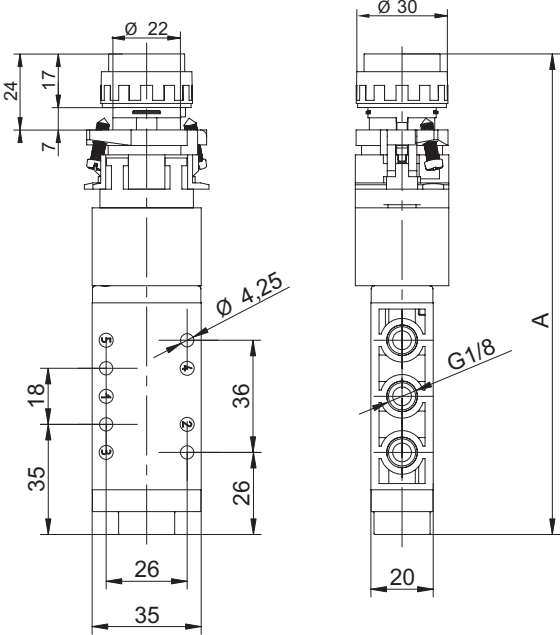
5/2-way Panel Mounted Spool Valves - G 1/8 (D_{nom} 6 mm)

SECTION F

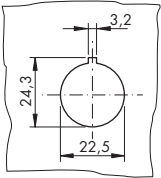
Actuation: Type A: Raised pushbutton
Type B: Raised pushbutton, air pilot assisted

Return: Type A & B: Spring

Actuation Force: Type A: 35 N (6 bar approx.)
Type B: 8 N (6 bar approx.)



Panel Drilling Plan



| Code | A | Symbol |
|--------------------------|-----|--------|
| 76.023.41.41 (Type A) | 155 | |
| 76.023.51.41 (Type B) | 162 | |

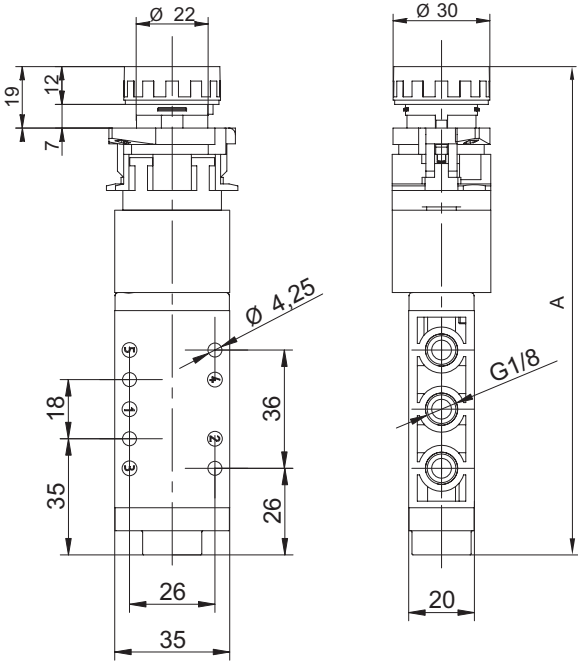
5/2-way Panel Mounted Spool Valves - G 1/8 (D_{nom} 6 mm)

SECTION F

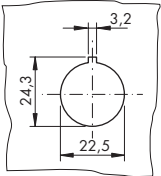
Actuation: Type A: Shrouded head pushbutton
Type B: Shrouded head pushbutton, air pilot assisted

Return: Type A & B: Spring

Actuation Force: Type A: 35 N (6 bar approx.)
Type B: 8 N (6 bar approx.)



Panel Drilling Plan



| Code | A | Symbol |
|--------------------------|-----|--------|
| 76.023.42.41 (Type A) | 149 | |
| 76.023.52.41 (Type B) | 156 | |

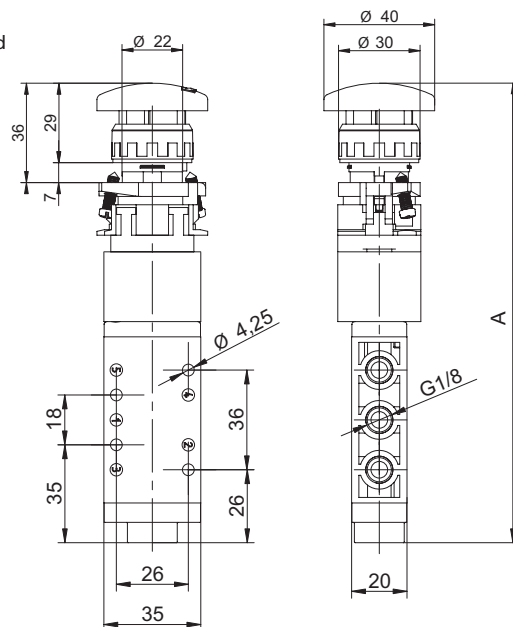
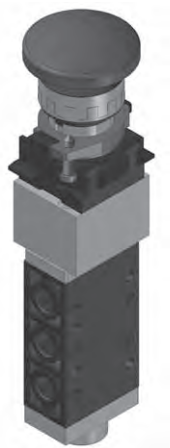
5/2-way Panel Mounted Spool Valves - G 1/8 (D_{nom} 6 mm)

SECTION F

Actuation: Type A: Punch button Type B: Punch button, air pilot assisted
Type C: Mushroom pushbutton Type D: Mushroom pushbutton, air pilot assisted

Return: Type A & B: Maintained position Type C & D: Spring

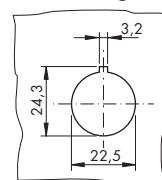
Actuation Force: Type A: 35 N (6 bar approx.) Type B: 8 N (6 bar approx.)



| Code | A | Symbol |
|--------------------------|-----|--------|
| 76.023.44.41 (Type A) | 165 | |
| 76.023.54.41 (Type B) | 172 | |

| Code | A | Symbol |
|--------------------------|-----|--------|
| 76.023.43.41 (Type C) | 165 | |
| 76.023.53.41 (Type D) | 172 | |

Panel Drilling Plan



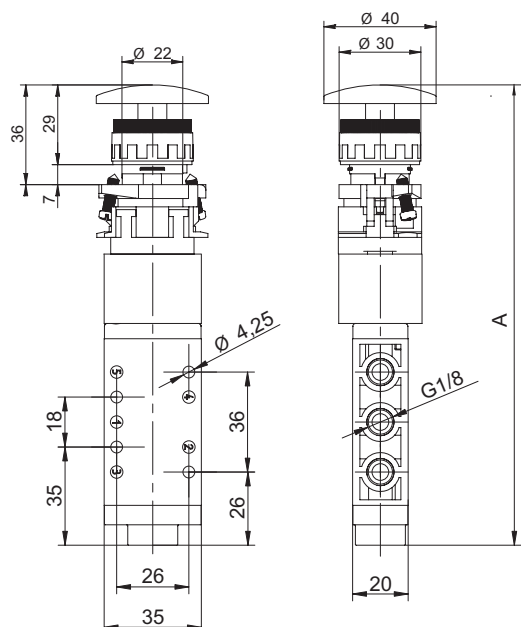
5/2-way Panel Mounted Spool Valves - G 1/8 (D_{nom} 6 mm)

SECTION F

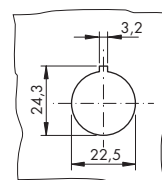
Actuation: Type A: Wobblebutton
Type B: Wobblebutton, air pilot assisted

Return: Type A & B: Spring

Actuation Force: Type A: 35 N (6 bar approx.)
Type B: 8 N (6 bar approx.)



Panel Drilling Plan



| Code | A | Symbol |
|--------------------------|-----|--------|
| 76.023.45.41 (Type A) | 165 | |
| 76.023.55.41 (Type B) | 172 | |

Note: Actuation operated by pushing down or to the side.

5/2-way Panel Mounted Spool Valves - G 1/8 (D_{nom} 6 mm)

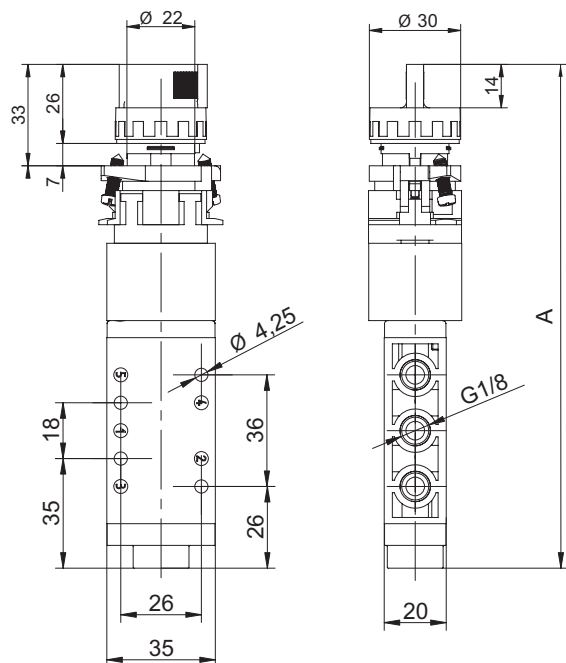
SECTION F

Actuation: Type A: Selector switch, short handle
Type B: Selector switch, short handle, air pilot assisted

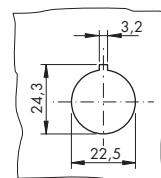
Return: Type A & B: Maintained position



| Code | A | Symbol |
|--------------------------|-----|--------|
| 76.023.46.41 (Type A) | 162 | |
| 76.023.56.41 (Type B) | 169 | |



Panel Drilling Plan



**SERIES 76
MECHANICALLY ACTUATED
VALVES**



5/2-way Panel Mounted Spool Valves - G 1/8 (D_{nom} 6 mm)

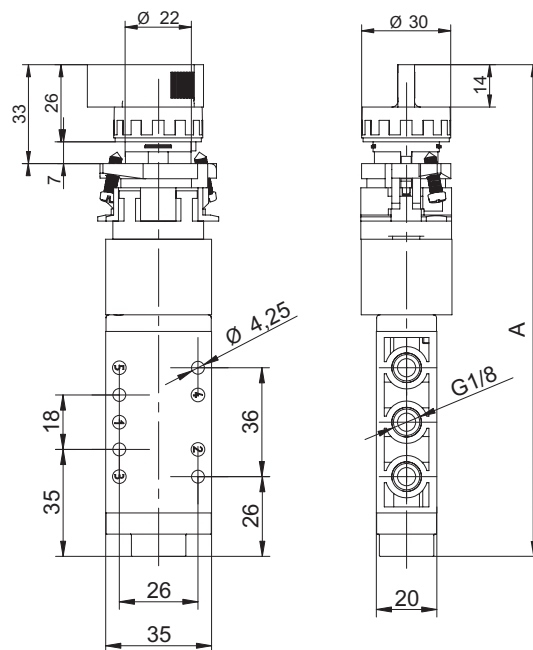
SECTION F

Actuation: Type A: Selector switch, long handle
Type B: Selector switch, long handle, air pilot assisted

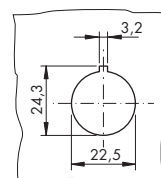
Return: Type A & B: Maintained position



| Code | A | Symbol |
|--------------------------|-----|---|
| 76.023.47.41 (Type A) | 162 |  |
| 76.023.57.41 (Type B) | 169 |  |



Panel Drilling Plan

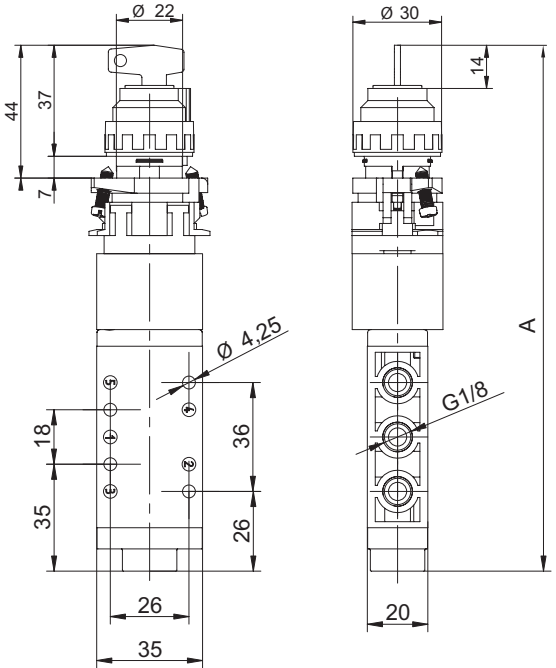
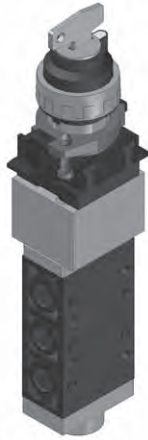


5/2-way Panel Mounted Spool Valves - G 1/8 (D_{nom} 6 mm)

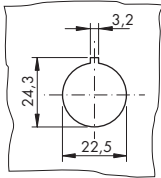
SECTION F

Actuation: Type A: Key operated, 2 position selector
Type B: Key operated, 2 position selector, air pilot assisted

Return: Type A & B: Maintained position



Panel Drilling Plan



| Code | A | Symbol |
|--------------------------|-----|--------|
| 76.023.48.41 (Type A) | 174 | |
| 76.023.58.41 (Type B) | 181 | |

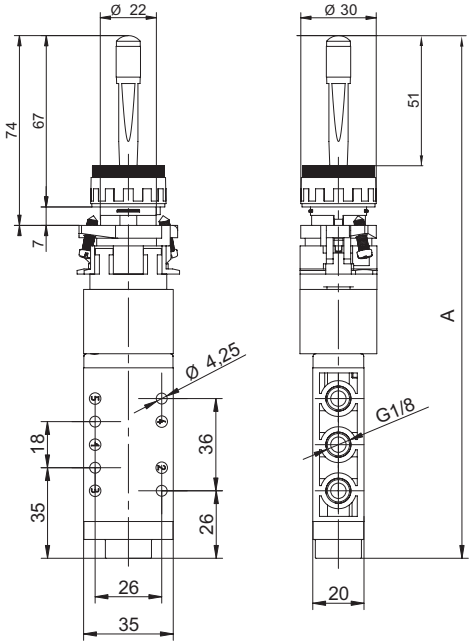
Note: The key is retractable only in off position.
The keys are unique and not available as spares.

5/2-way Panel Mounted Spool Valves - G 1/8 (D_{nom} 6 mm)

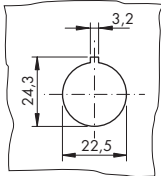
SECTION F

Actuation: Type A: Wobble stick, any direction
Type B: Wobble stick, any direction, air pilot assisted

Return: Type A & B: Spring



Panel Drilling Plan

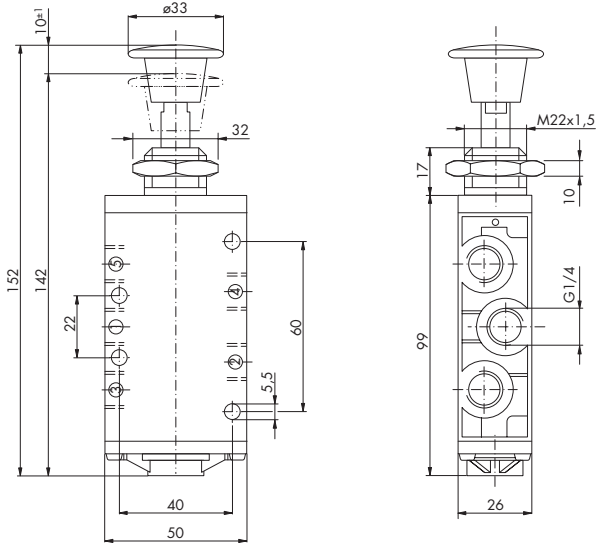


| Code | A | Symbol |
|--------------------------|-----|--------|
| 76.023.49.41 (Type A) | 204 | |
| 76.023.59.41 (Type B) | 211 | |

5/2-way Spool Valves - G 1/4 (D_{nom} 8 mm)

SECTION G

Actuation: Knob Pushbutton
Actuation Force: 50 N (6 bar approx.)
Return: Spring
Maintained position

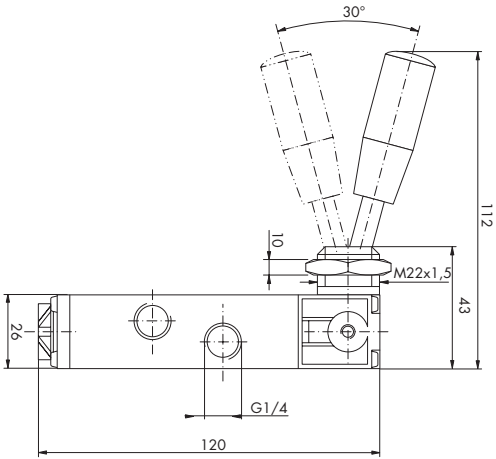
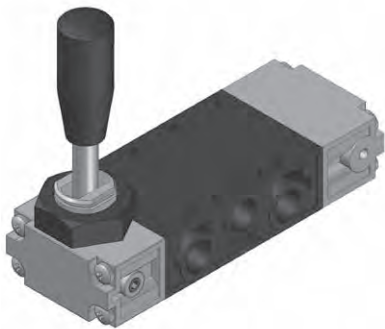


| Code | Return | Symbol |
|--------------|---------------------|--------|
| 76.043.27.40 | Maintained position | |
| 76.043.27.41 | Spring | |

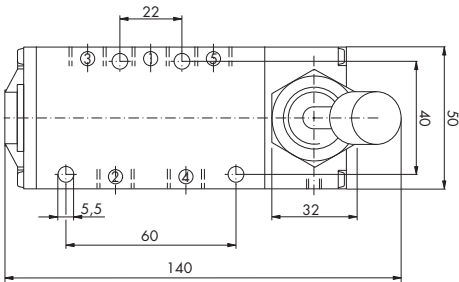
5/2-way Spool Valves - G 1/4 (D_{nom} 8 mm)

SECTION G

Actuation: Lever operated
Actuation Force: 20 N (6 bar approx.)
Return: Spring
Maintained position



| Code | Return | Symbol |
|--------------|---------------------|--------|
| 76.043.25.40 | Maintained position | |
| 76.043.25.41 | Spring | |



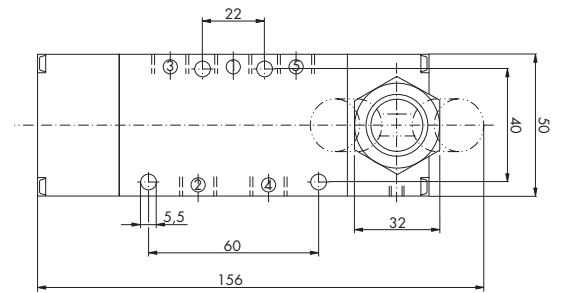
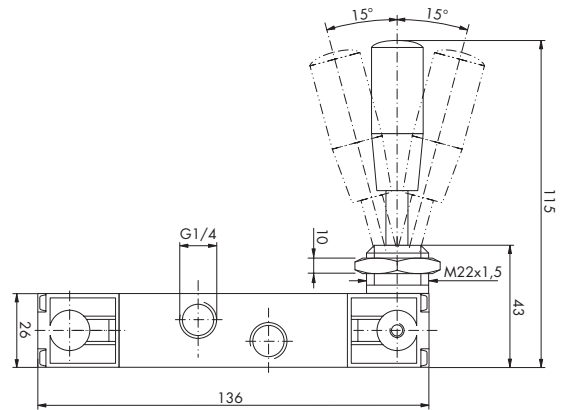
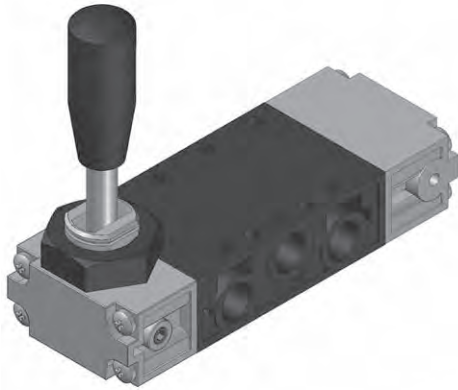
Note: Bellows available with order code 76.420.00.55 (set 5 pcs).

5/3-way Spool Valves - G 1/4 (D_{nom} 8 mm)

SECTION G

Actuation: Lever operated

Return: Spring (return to centre)



| Code | Function | Symbol |
|--------------|--------------------------|--------|
| 76.044.25.28 | 5/3 all ports exhaust | |
| 76.044.25.38 | 5/3 all ports closed | |

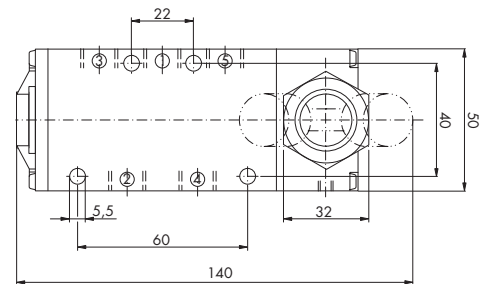
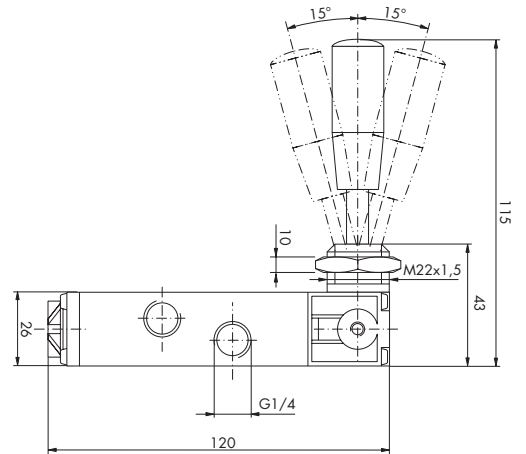
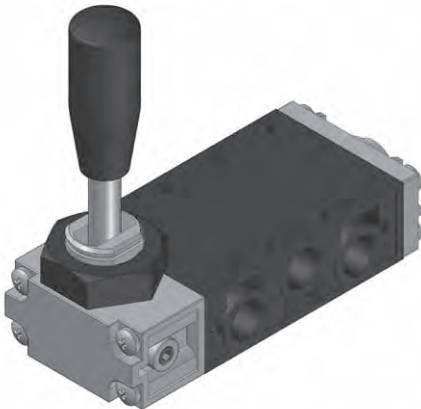
Note: Bellows available with order code 76.420.00.55 (set 5 pcs).

5/3-way Spool Valves - G 1/4 (D_{nom} 8 mm)

SECTION G

Actuation: Lever operated

Return: Maintained position



| Code | Function | Symbol |
|--------------|--------------------------|--------|
| 76.044.25.29 | 5/3 all ports exhaust | |
| 76.044.25.39 | 5/3 all ports closed | |

Note: Bellows available with order code 76.420.00.55 (set 5 pcs).

Servocontrolled Valves (air pilot assisted)

SECTION H

76 series valves (air pilot assisted versions) are also available in servo control configuration. Valve functions only when inlet pressure is present.

Please, contact our sales department for other type of these valves.

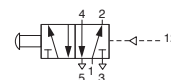
| Code | Function | Press. Conn. | Valve Type | Housing | Actuation | Return | |
|--------------|--------------------------|--------------------|--|--|--------------------------|---------|---------------|
| 76.026.60.31 | 3/2 NO | G1/8 | Poppet valves | Die-cast and varnished aluminium alloy | Plunger | Spring | |
| 76.026.63.31 | | | | | Antenna | Spring | |
| 76.026.64.31 | | | | | Shrouded head pushbutton | Spring | |
| 76.026.67.31 | | | | | Mushroom pushbutton | Spring | |
| 76.046.60.31 | | G1/4 | | | Plunger | Spring | |
| 76.046.64.31 | | | | | Shrouded head pushbutton | Spring | |
| 76.046.67.31 | | | | | Mushroom pushbutton | Spring | |
| 76.046.70.31 | | | | | Roller lever | Spring | |
| 76.026.60.21 | 3/2 NC | G1/8 | Poppet valves | Die-cast and varnished aluminium alloy | Plunger | Spring | |
| 76.026.63.21 | | | | | Antenna | Spring | |
| 76.026.64.21 | | | | | Shrouded head pushbutton | Spring | |
| 76.026.67.21 | | | | | Mushroom pushbutton | Spring | |
| 76.026.74.21 | | One way lever trip | | | Spring | | |
| 76.046.60.21 | | G1/4 | | | Plunger | Spring | |
| 76.046.63.21 | | | | | Antenna | Spring | |
| 76.046.64.21 | | | | | Shrouded head pushbutton | Spring | |
| 76.046.67.21 | | | | | Mushroom pushbutton | Spring | |
| 76.046.70.21 | | | | | Roller lever | Spring | |
| 76.046.74.21 | | | | | One way lever trip | Spring | |
| 76.027.60.10 | | | | | 5/2 | G1/8 | Poppet valves |
| 76.027.60.41 | Plunger | | Spring | | | | |
| 76.027.60.42 | Plunger | Pneumatic | | | | | |
| 76.027.64.41 | Shrouded head pushbutton | Spring | | | | | |
| 76.027.67.41 | Mushroom pushbutton | Spring | | | | | |
| 76.027.67.60 | Mushroom pushbutton | Plunger | | | | | |
| 76.027.70.41 | Roller lever | Spring | | | | | |
| 76.027.74.41 | One way lever trip | Spring | | | | | |
| 76.047.60.10 | G1/4 | Poppet valves | Die-cast and varnished aluminium alloy | Plunger | | Plunger | |
| 76.047.60.41 | | | | Plunger | | Spring | |
| 76.047.64.41 | | | | Shrouded head pushbutton | | Spring | |
| 76.047.67.41 | | | | Mushroom pushbutton | | Spring | |
| 76.047.70.41 | | | | Roller lever | | Spring | |
| 76.047.74.41 | | | | One way lever trip | | Spring | |

Mixed Mechanical and Pneumatic Valves

SECTION H

The 76 series range of valves is also available as mechanical actuation with pneumatic return (instead of return spring). Please contact our sales department for details of other variants not listed here.

Example of Symbol for Mixed Mechanical and Pneumatic Valve



| Code | Function | Pressure connection | Valve Type | Housing | Actuation | Return |
|--------------|----------|---------------------|--------------|--|--------------------------|-----------|
| 76.022.21.22 | 3/2 NC | G1/8 | Spool valves | Die-cast and varnished aluminium alloy | Plunger | Pneumatic |
| 76.022.23.22 | | | | | Roller lever | Pneumatic |
| 76.022.25.22 | | | | | Lever operated | Pneumatic |
| 76.022.27.22 | | | | | Pushbutton | Pneumatic |
| 76.022.61.22 | | | | | Mushroom pushbutton | Pneumatic |
| 76.022.62.22 | | | | | Raised pushbutton | Pneumatic |
| 76.042.25.22 | | G1/4 | | | Lever operated | Pneumatic |
| 76.023.21.42 | 5/2 | G1/8 | Spool valves | Die-cast and varnished aluminium alloy | Plunger | Pneumatic |
| 76.023.22.42 | | | | | Toggle lever | Pneumatic |
| 76.023.23.42 | | | | | Roller lever | Pneumatic |
| 76.023.24.42 | | | | | One-way lever trip | Pneumatic |
| 76.023.25.42 | | | | | Lever operated | Pneumatic |
| 76.023.27.42 | | | | | Pushbutton | Pneumatic |
| 76.023.42.42 | | | | | Shrouded head pushbutton | Pneumatic |
| 76.023.61.42 | | | | | Mushroom pushbutton | Pneumatic |
| 76.023.62.42 | | | | | Raised pushbutton | Pneumatic |
| 76.043.25.42 | | G1/4 | | | Lever operated | Pneumatic |
| 76.043.27.42 | | | | | Pushbutton | Pneumatic |

PNEUMATIC VALVES

General information

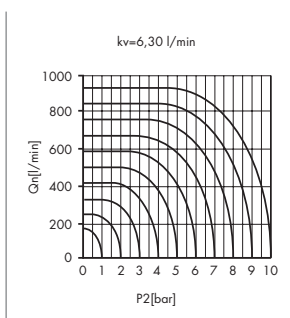
| Function | Section | Pressure range | Pressure connection (nominal orifice) | Housing | Seals | Control pressure |
|--|---------|----------------|---|---|----------------|------------------------------------|
| 3/2-way Poppet Valves (2/2-way function upon request) | A | 0 - 10 bar | G 1/8 (4 mm) | die-cast and varnished zinc alloy | NBR - Vulkolan | 3.5 - 10 bar (≥ pressure range) |
| 3/2-way Poppet Valves (2/2-way function upon request) | | 0 - 10 bar | G 1/8 (6 mm) G 1/4 (8 mm) | die-cast and varnished aluminium alloy | NBR | 3.5 - 10 bar (≥ pressure range) |
| 3/2-way Poppet Valves | | 0 - 10 bar | G 1/2 (15 mm) (G1/8 control pressure) | varnished aluminium alloy | NBR | 2.5 - 10 bar |
| 3/2-way Spool Valves | B | 0 - 10 bar | G 1/8 (6 mm) | die-cast and varnished zinc alloy | NBR | 2.5 - 10 bar |
| 5/2-way Poppet Valves | C | 2.5 - 10 bar | G 1/8 (6 mm) G 1/4 (8 mm) G 1/2 (15 mm) | die-cast and varnished aluminium alloy (also available in zamak) | NBR | 2.5 - 10 bar |
| 5/2-way Spool Valves 5/3-way Spool Valves | D | 2.5 - 10 bar | G 1/8 (6 mm) G 1/4 (8 mm) | die-cast and varnished aluminium alloy | NBR | 2.5 - 10 bar |
| Monostable Flip-Flop Oscillator Logic Elements | E | 0 - 10 bar | G 1/8 (6 mm) G 1/4 (8 mm) | die-cast and varnished zinc alloy | NBR | 2.5 - 10 bar |

Ambient temperature range: From -15 °C to +50 °C

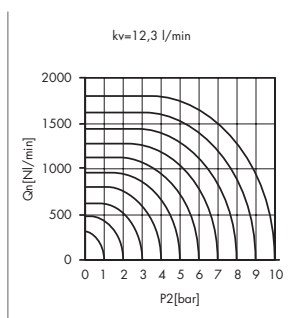
Mounting: Any position

Lubricant: Not required

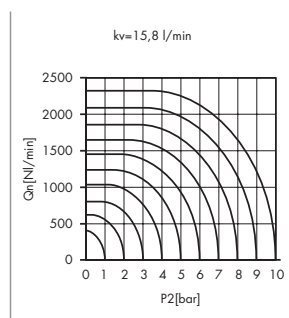
Operating medium: 5 micron filtered, lubricated (or not) compressed air; also suitable for other media conforming to ISO-VG 10



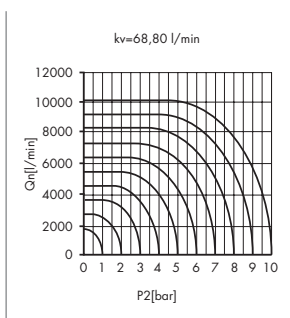
Poppet Valves
Orifice 4 mm



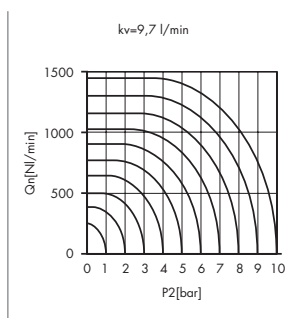
Poppet Valves
Orifice 6 mm



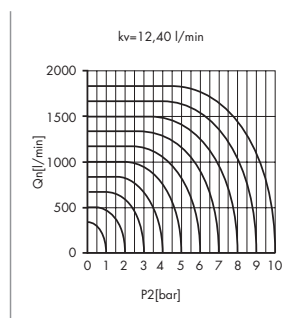
Poppet Valves
Orifice 8 mm



Poppet Valves
Orifice 15 mm



Spool Valves
Orifice 6 mm



Spool Valves
Orifice 8 mm

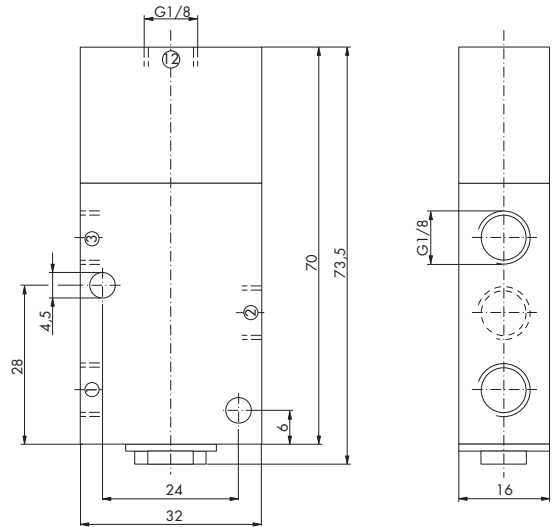
3/2-way Poppet Valves - G 1/8 (D_{nom} 4 mm)

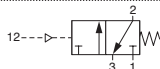
SECTION A

Actuation: Pressure at 12

Return: Spring

SERIES 76
PNEUMATIC VALVES



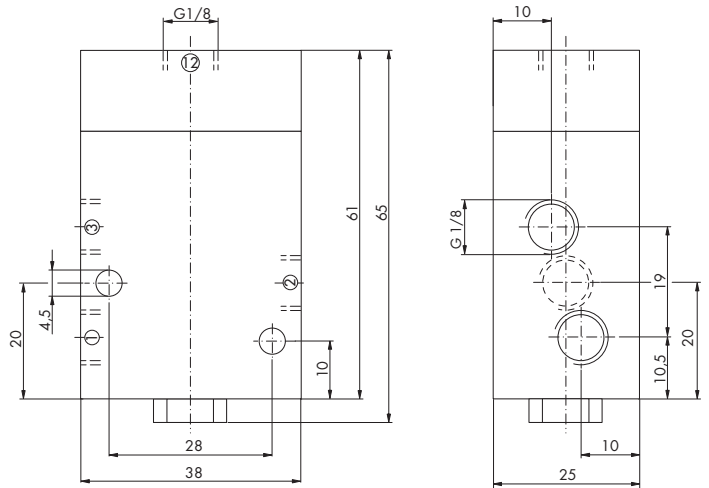
| Code | Type | Symbol |
|--------------|------|---|
| 76.036.71.21 | NC |  |

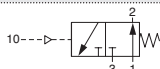
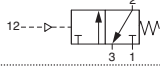
3/2-way Poppet Valves - G 1/8 (D_{nom} 6 mm)

SECTION A

Actuation: Pressure at 12

Return: Spring

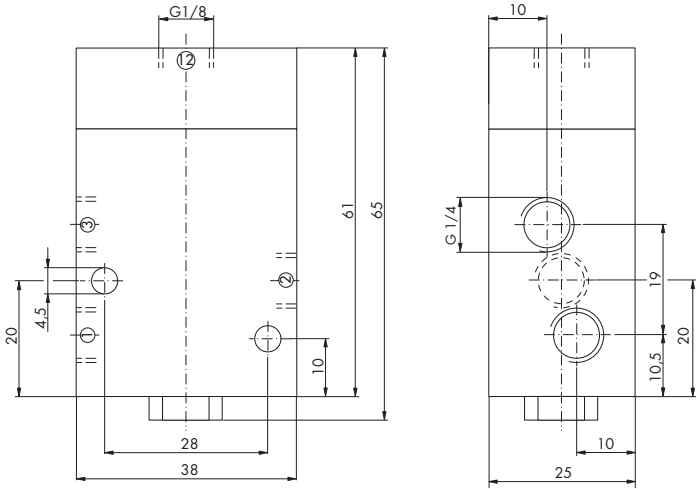


| Code | Type | Symbol |
|--------------|------|---|
| 76.026.71.31 | NO |  |
| 76.026.71.21 | NC |  |

3/2-way Poppet Valves - G 1/4 (D_{nom} 8 mm)

SECTION A

Actuation: Pressure at 12
Return: Spring

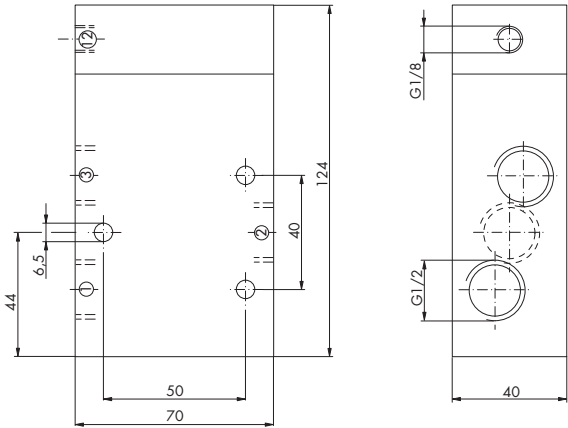
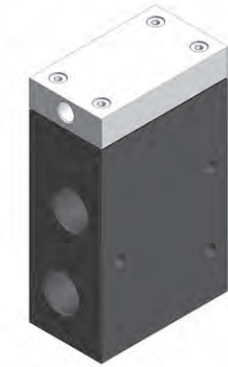


| Code | Type | Symbol |
|--------------|------|--------|
| 76.046.71.31 | NO | |
| 76.046.71.21 | NC | |

3/2-way Poppet Valves - G 1/2 (D_{nom} 15 mm)

SECTION A

Actuation: Pressure at 12
Return: Spring

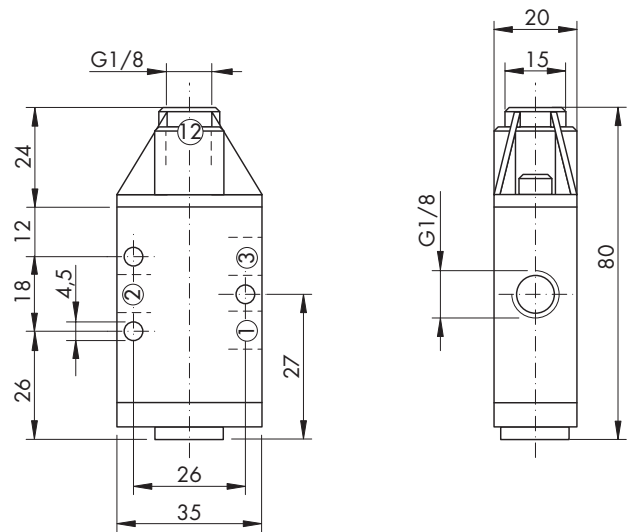
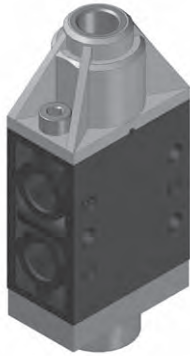


| Code | Type | Symbol |
|--------------|------|--------|
| 76.066.81.31 | NO | |
| 76.066.81.21 | NC | |

SERIES 76
PNEUMATIC VALVES

SECTION B

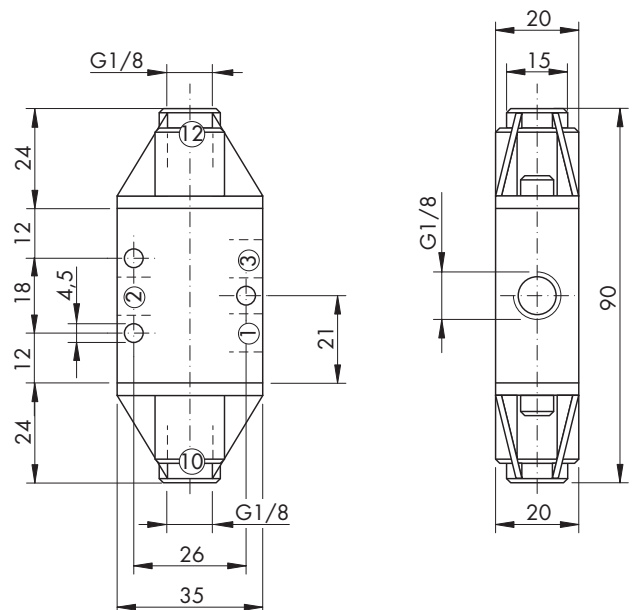
Return: Spring




| Code | Type | Symbol |
|--------------|------|--------|
| 76.022.71.21 | NC | |

SECTION B

Return: Pressure at 10



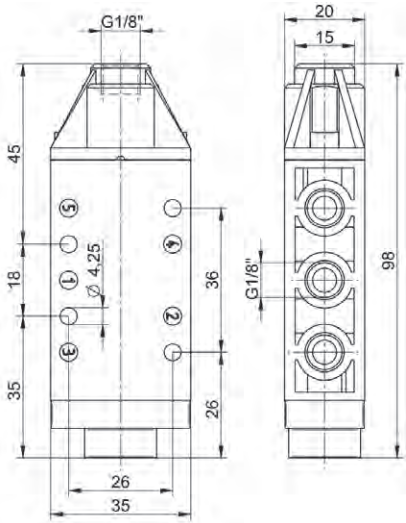
| Code | Type | Symbol |
|--------------|------|---|
| 76.022.71.22 | NC |  |

5/2-way Spool Valves - G 1/8 (D_{nom} 6 mm)

SECTION C

Actuation: Pressure at 14

Return: Spring (pressure supported)



SERIES 76
PNEUMATIC VALVES

| Code | Housing | Symbol |
|--------------|---------|--------|
| KE.023.71.41 | Zamak | |

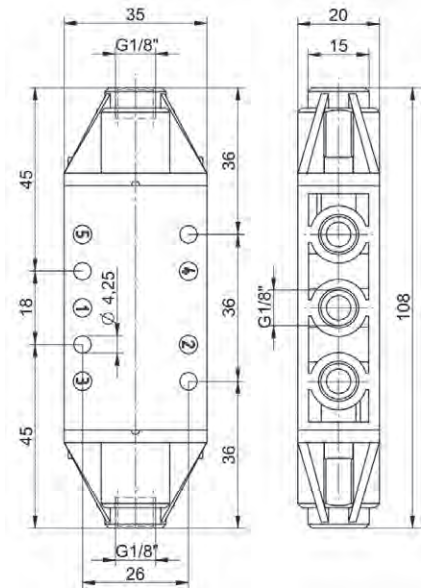
Note: Min. control pressure at 14 ≥ as pressure at 1.

5/2-way Spool Valves - G 1/8 (D_{nom} 6 mm)

SECTION C

Actuation: Pressure at 14

Return: Pressure at 12
Pressure at 12 with 14 priority



| Code | Housing | Return | Symbol |
|--------------|---------|------------------------------------|--------|
| KE.023.71.42 | Zamak | Pressure at 12 with 14 priority | |
| KE.023.71.47 | Zamak | Pressure at 12 | |

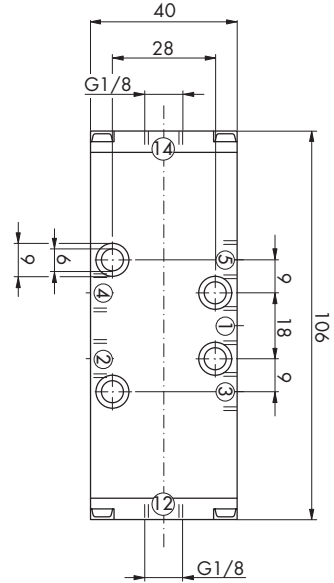
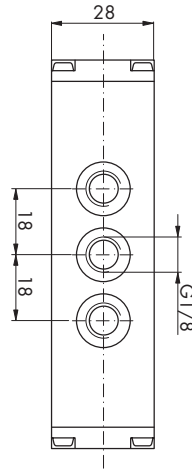
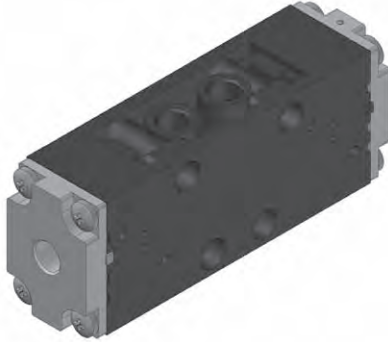
5/2-way Poppet Valves - G 1/8 (D_{nom} 6 mm)

SECTION C

Actuation: Pressure at 14

Return: Spring (pressure supported)
Pressure at 12
Pressure at 12 with 14 priority

SERIES 76
PNEUMATIC VALVES



| Code | Return | Symbol |
|---------------|---------------------------------|--------|
| 76.027.71.41* | Spring | |
| 76.027.71.42 | Pressure at 12 | |
| 76.027.71.47 | Pressure at 12 with 14 priority | |

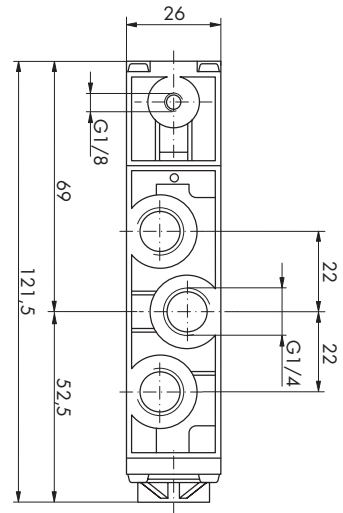
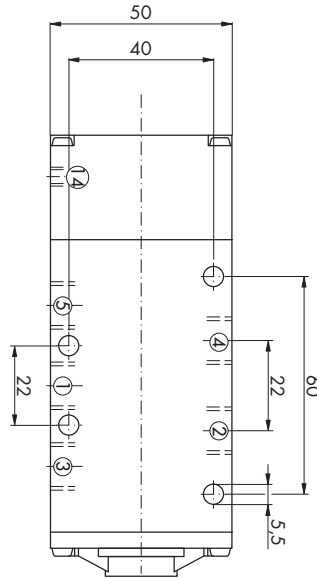
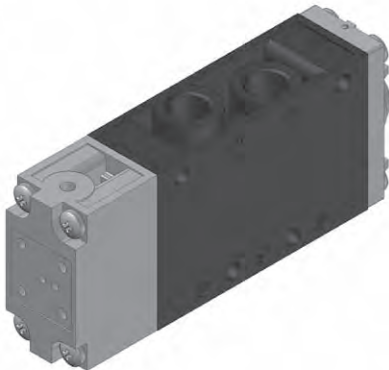
*Note: Min. control pressure at 14 ≥ as pressure at 1.

5/2-way Poppet Valves - G 1/4 (D_{nom} 8 mm)

SECTION C

Actuation: Pressure at 14

Return: Spring (pressure supported)



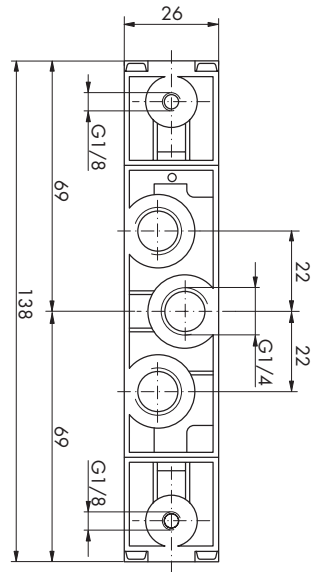
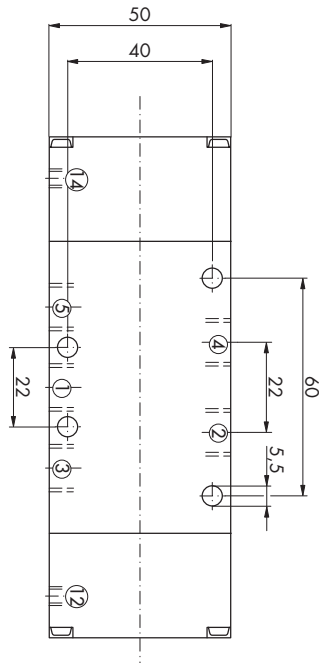
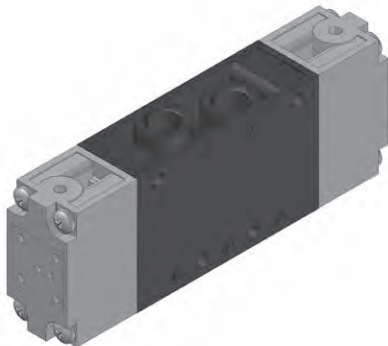
| Code | Symbol |
|--------------|--------|
| 76.047.81.41 | |

Note: Min. control pressure at 14 ≥ as pressure at 1.

5/2-way Poppet Valves - G 1/4 (D_{nom} 8 mm)

SECTION C

Actuation: Pressure at 14
Return: Pressure at 12
Pressure at 12 with 14 priority

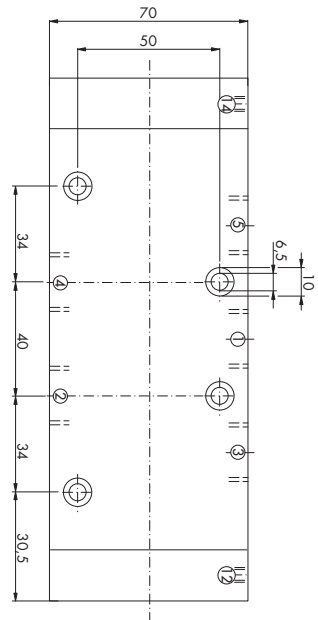
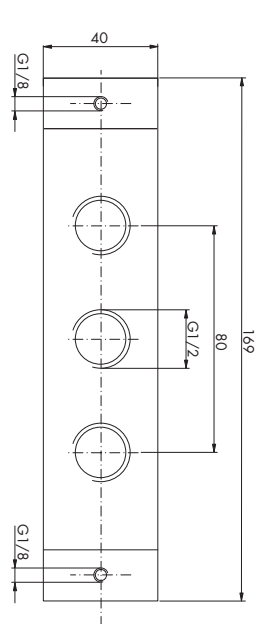
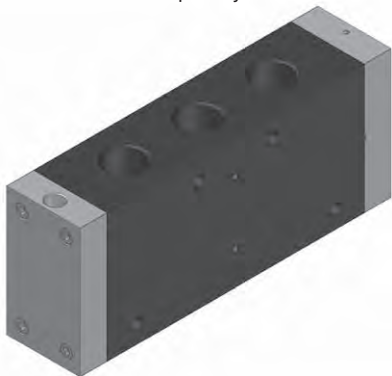


| Code | Return | Symbol |
|--------------|---------------------------------|--------|
| 76.047.81.42 | Pressure at 12 | |
| 76.047.81.47 | Pressure at 12 with 14 priority | |

5/2-way Poppet Valves - G 1/2 (D_{nom} 15 mm)

SECTION C

Actuation: Pressure at 14
Return: Spring (pressure supported)
Pressure at 12
Pressure at 12 with 14 priority



| Code | Return | Symbol |
|---------------|---------------------------------|--------|
| 76.067.81.41* | Spring | |
| 76.067.81.42 | Pressure at 12 | |
| 76.067.81.47 | Pressure at 12 with 14 priority | |

*Note: Min. control pressure at 14 ≥ as pressure at 1.

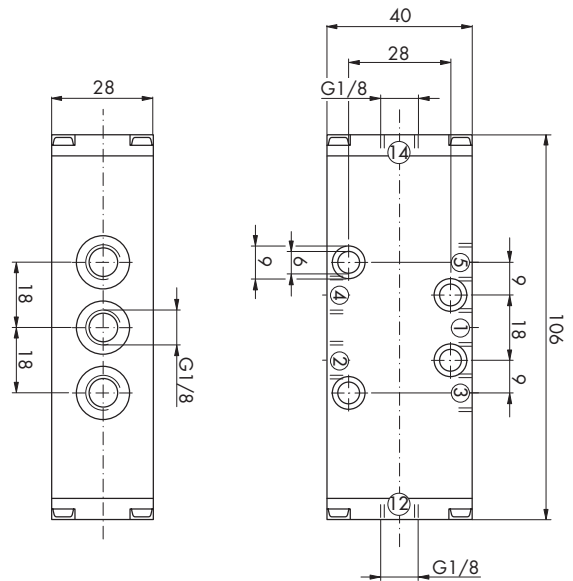
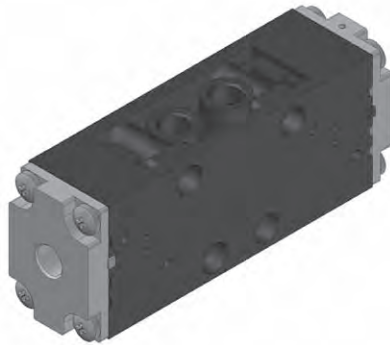
5/2-way & 5/3-way Spool Valves - G 1/8 (D_{nom} 6 mm)

SECTION D

Actuation: Pressure at 14

Return: spring (pressure supported)

SERIES 76
PNEUMATIC VALVES



| Code | Symbol |
|--------------|--------|
| 76.023.71.41 | |

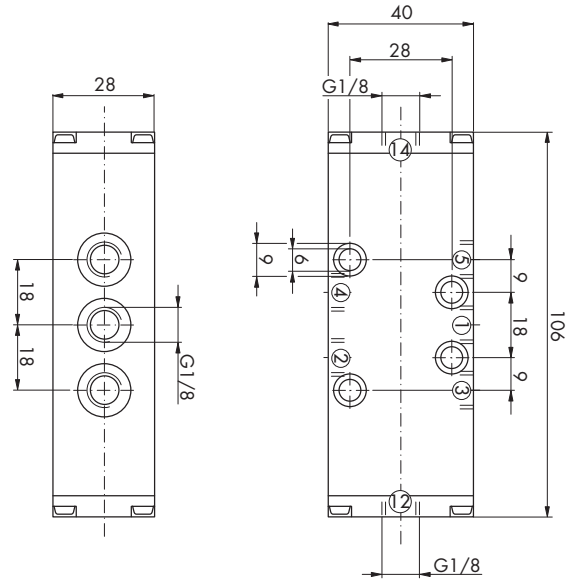
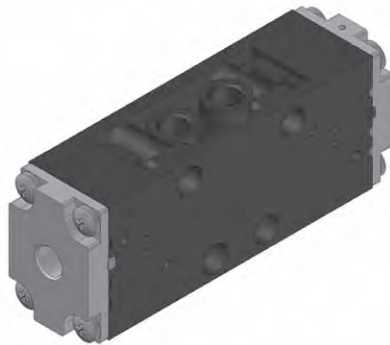
Note: Min. control pressure at 14 ≥ as pressure at 1.

5/2-way & 5/3-way Spool Valves - G 1/8 (D_{nom} 6 mm)

SECTION D

Actuation: Pressure at 14

Return: Spring
Pressure at 12
Pressure at 12 with 14 priority



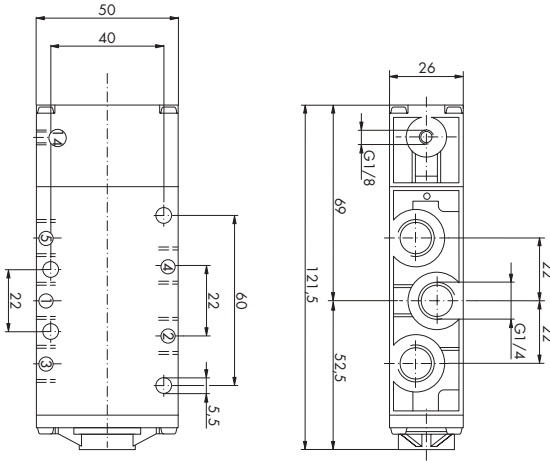
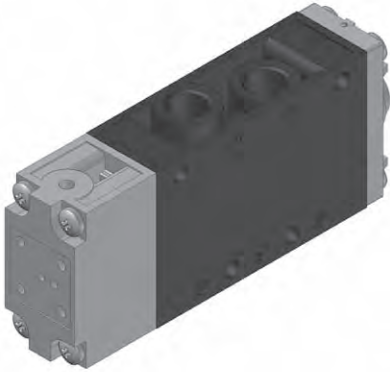
| Code | Return | Symbol |
|--------------|---------------------------------|--------|
| 76.023.71.42 | Pressure at 12 | |
| 76.023.71.47 | Pressure at 12 with 14 priority | |
| 76.024.71.28 | Spring (return to centre) | |
| 76.024.71.38 | Spring (return to centre) | |

5/2-way & 5/3-way Spool Valves - G 1/4 (D_{nom} 8 mm)

SECTION D

Actuation: Pressure at 14

Return: Spring (pressure supported)



| Code | Symbol |
|--------------|--------|
| 76.043.81.41 | |

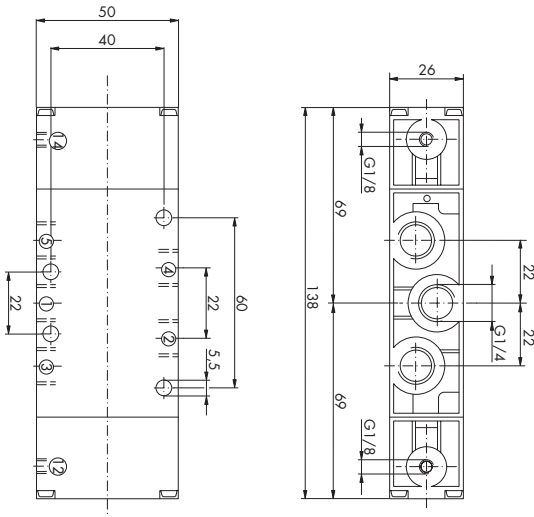
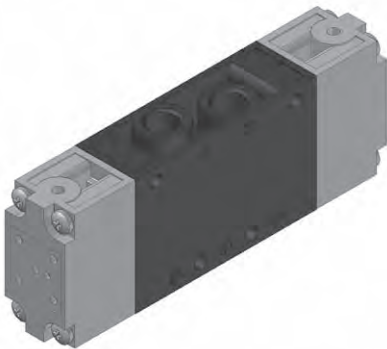
Note: Min. control pressure at 14 ≥ as pressure at 1.

5/2-way & 5/3-way Spool Valves - G 1/4 (D_{nom} 8 mm)

SECTION D

Actuation: Pressure at 14

Return: Spring
Pressure at 12
Pressure at 12 with 14 priority

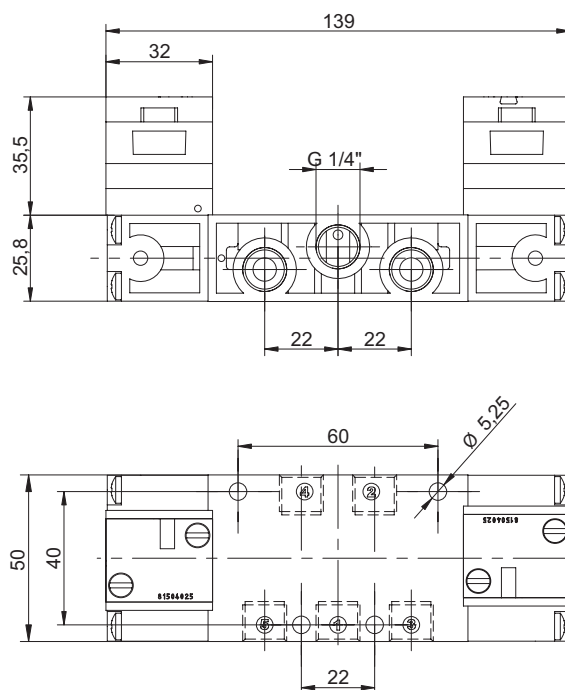
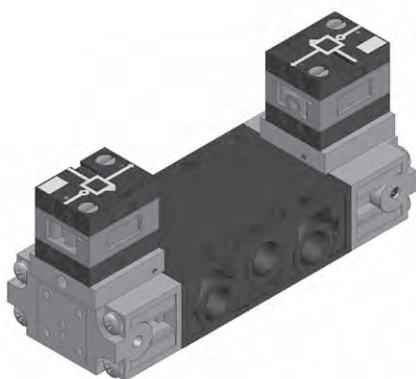
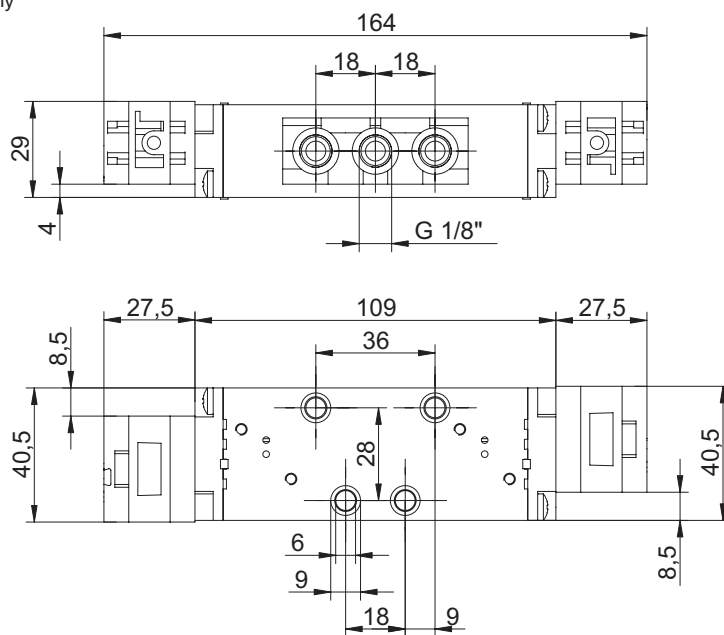
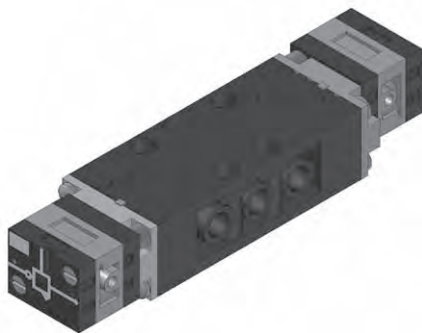


| Code | Return | Symbol |
|--------------|---------------------------------|--------|
| 76.043.81.42 | Pressure at 12 | |
| 76.043.81.47 | Pressure at 12 with 14 priority | |
| 76.044.81.28 | Spring (return to centre) | |
| 76.044.81.38 | Spring (return to centre) | |

5/2-way - Valves for use with direct mounted logic modules

SECTION E

Valves are sold without logic devices which need to be ordered separately



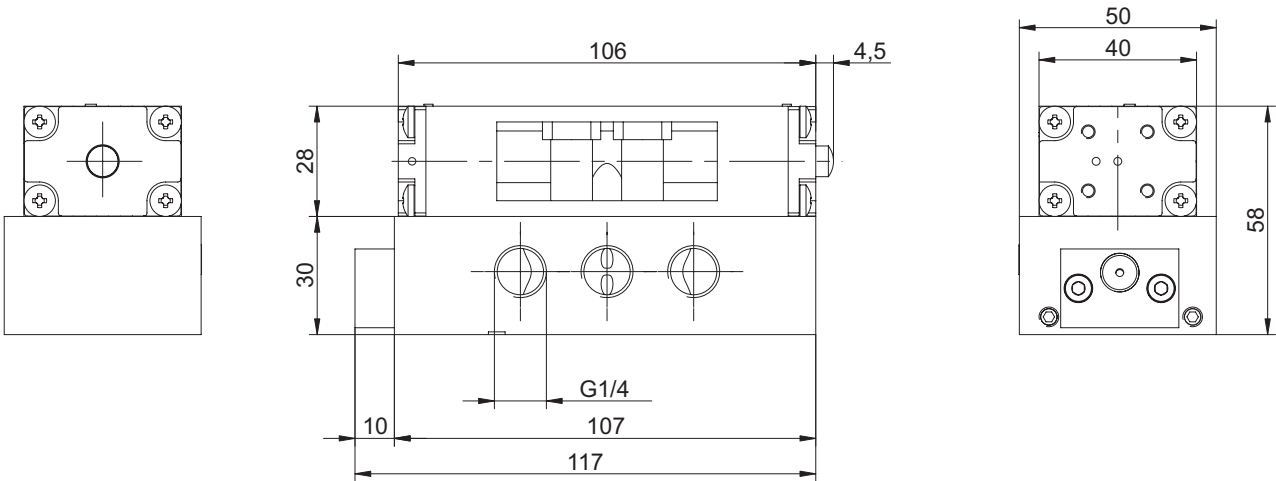
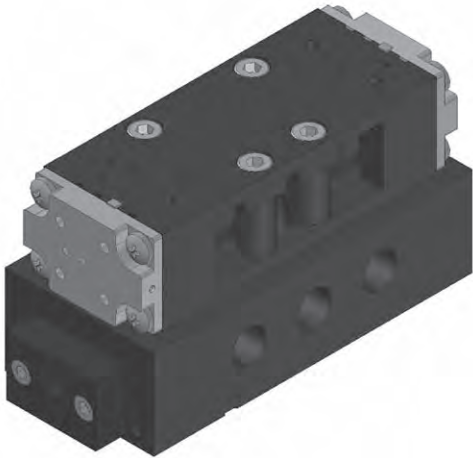
| Code | Function | Pressure Connection | Valve Type | Actuation | Return | Note |
|--------------|----------|---------------------|--------------|--|--|--------------------------|
| 76.023.72.72 | 5/2 | G1/8 | Spool Valves | "Not" Logic Module (part no C815.04.025, order separately) | "Not" Logic Module (part no C815.04.025, order separately) | NOT: horizontal position |
| 76.043.72.72 | 5/2 | G1/4 | Spool Valves | "Not" Logic Module (part no C815.04.025, order separately) | "Not" Logic Module (part no C815.04.025, order separately) | NOT: vertical position |

Note: Others logic element upon request.

5/2-way - Monostable Flip-Flop

SECTION E

Actuation: Pneumatic
Return: Pneumatic pulse



The valve provides a 5/2 way switched output from an air pilot pulse signal of at least 300 ms in length. When a pilot pressure is applied to the control port, the valve output position changes. The output valve maintains position until the next pilot pulse signal is applied.

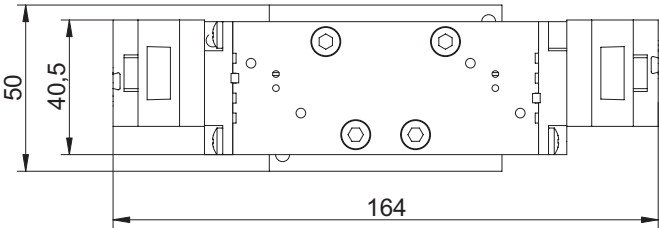
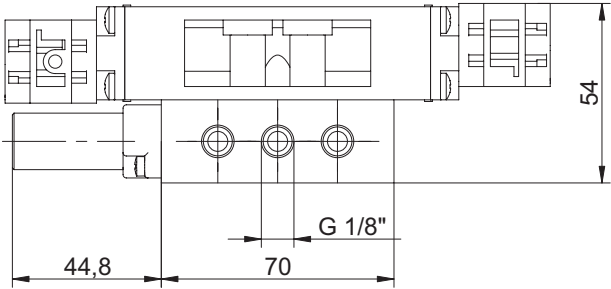
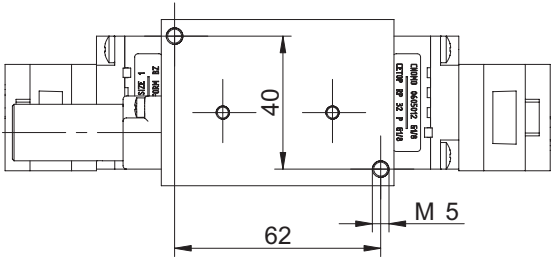
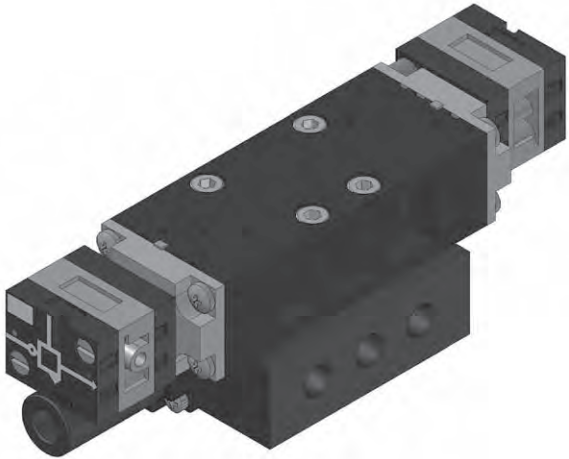
Example: with a double acting cylinder at start position of rod in, pulse the valve once and rod extends. Pulse the valve a second time and rod returns.

| Code | Connections | Type | Symbol |
|--------------|-----------------------------------|-----------|--------|
| 76.083.89.42 | G 1/4 (G 1/8 control pressure) | Flip-Flop | |

5/2-way - Oscillator

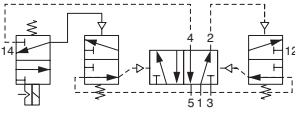
SECTION E

Actuation: Pneumatic



This valve can be used to oscillate a double acting cylinder. When a pilot pressure is applied to the control port the valve will oscillate. Removal of pilot pressure will return the valve to its start position.

Speed is dependent upon the connected volume and line pressure which can be controlled by the addition of flow control valves on the cylinder input ports. The typical speed is 16 cycles per minute, the minimum operating pressure range is 2.5 bar.

| Code | A | Type | Symbol |
|--------------|-----------------------------------|------------|---|
| 76.083.90.42 | G 1/8 (G 1/8 control pressure) | Oscillator |  |

PLASTIC MATERIAL (IXEF) VALVES

General information

Plastic Solenoid Valves

| Function | Section | Pressure range | Pressure connection (nominal orifice) | Earthing contact | Electrical connections |
|--|---------|----------------|--|--------------------------------|--|
| 5/2-way Poppet Valves | A | 2.5 - 10 bar | G 1/8 (6 mm) | Part of the standard device | Coil with 3 spade connectors (6.3 x 0.8 DIN 46247) + plug in socket (order separately) |
| 5/2-way Spool Valves 5/3-way Spool Valves | | 2.5 - 10 bar | G 1/8 (6 mm) | | |

Plastic Pneumatic Valves

| Function | Section | Pressure range | Pressure connection (nominal orifice) | Lubricant | Control pressure | Subplates |
|--|---------|----------------|--|--------------|------------------|-----------------|
| 5/2-way Poppet Valves | B | 2.5 - 10 bar | G 1/8 (6 mm) | Not required | 2.5 - 10 bar | See accessories |
| 5/2-way Spool Valves 5/3-way Spool Valves | | 2.5 - 10 bar | G 1/8 (6 mm) | | | |

Solenoid & Pneumatic Plastic Valves

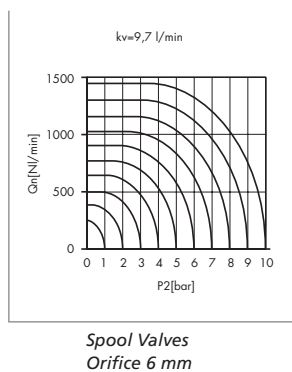
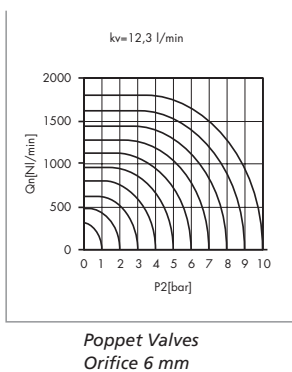
Ambient temperature range: From -15 °C to +50 °C

Housing: Plastic material (IXEF)

Seals: NBR

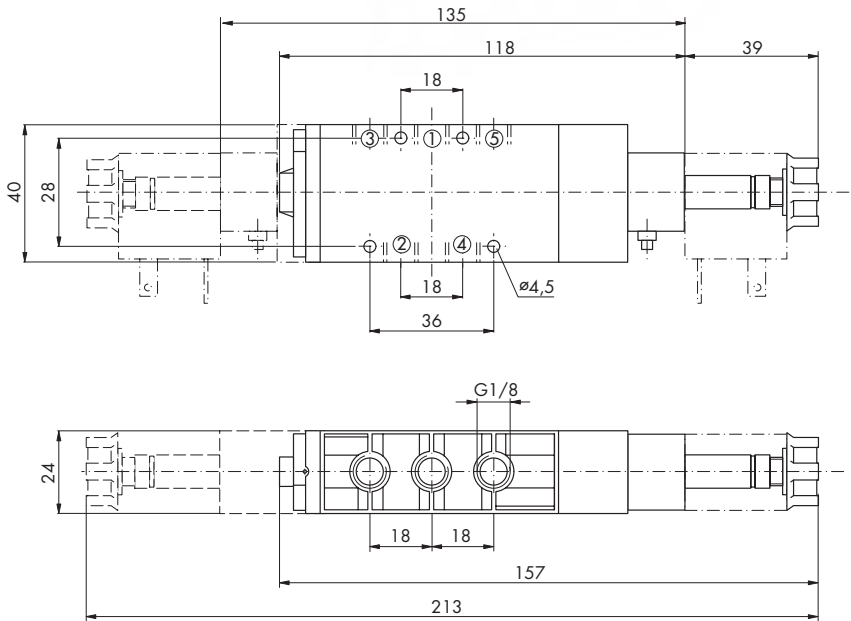
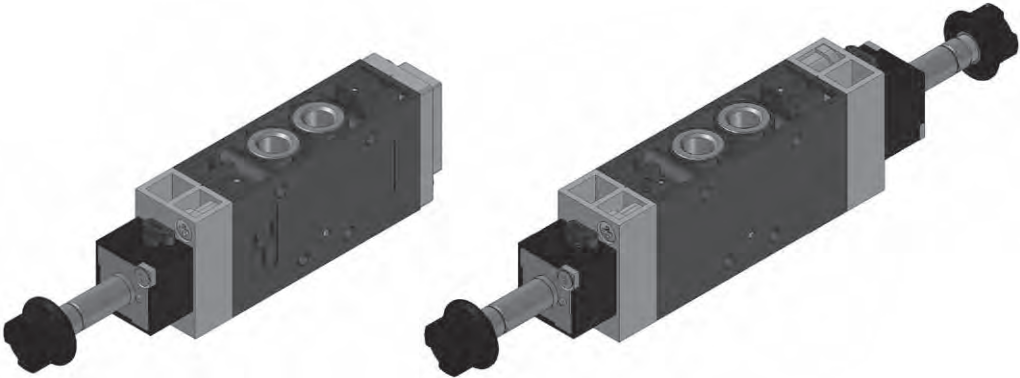
Mounting: Any position

Operating medium: 5 micron filtered, lubricated (or not) compressed air; also suitable for other media conforming to ISO-VG 10



5/2-way Poppet Valves & 5/2-way, 5/3-way Spool Valves - G 1/8 (D_{nom} 6 mm)

SECTION A



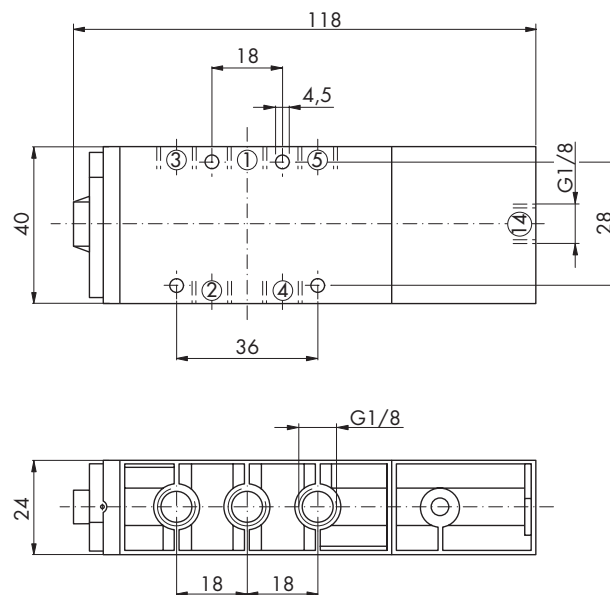
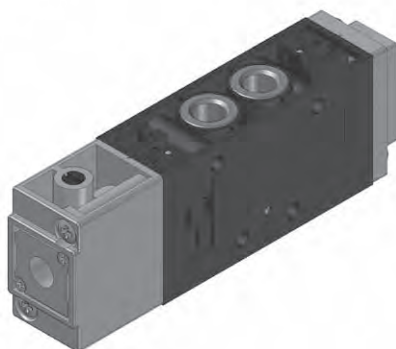
| Code | A | Valves | Actuation | Return | Coil Type | Symbol |
|--------------|-------|--------|------------------------------|---------------------------------|--------------|--------|
| 76.127.91.00 | G 1/8 | Poppet | Solenoid, manual override | Spring (pressure supported) | 76.410.xx.xx | |
| 76.127.92.00 | G 1/8 | Poppet | Solenoid, manual override | Solenoid | 76.410.xx.xx | |
| 76.127.93.00 | G 1/8 | Poppet | Solenoid, manual override | Solenoid with priority at 14 | 76.410.xx.xx | |
| 76.123.91.00 | G 1/8 | Spool | Solenoid, manual override | Spring (pressure supported) | 76.410.xx.xx | |
| 76.123.92.00 | G 1/8 | Spool | Solenoid, manual override | Solenoid | 76.410.xx.xx | |
| 76.123.93.00 | G 1/8 | Spool | Solenoid, manual override | Solenoid with priority at 14 | 76.410.xx.xx | |
| 76.124.02.00 | G 1/8 | Spool | Solenoid, manual override | Spring (return to centre) | 76.410.xx.xx | |
| 76.124.12.00 | G 1/8 | Spool | Solenoid, manual override | Spring (return to centre) | 76.410.xx.xx | |

5/2-way Poppet Valves & 5/2-way Spool Valves - G 1/8 (D_{nom} 6 mm)

SECTION B

Actuation: Pressure at 14

Return: Spring (pressure supported)



| Code | Valves | Symbol |
|--------------|--------|--------|
| 76.127.71.41 | Poppet | |
| 76.123.71.41 | Spool | |

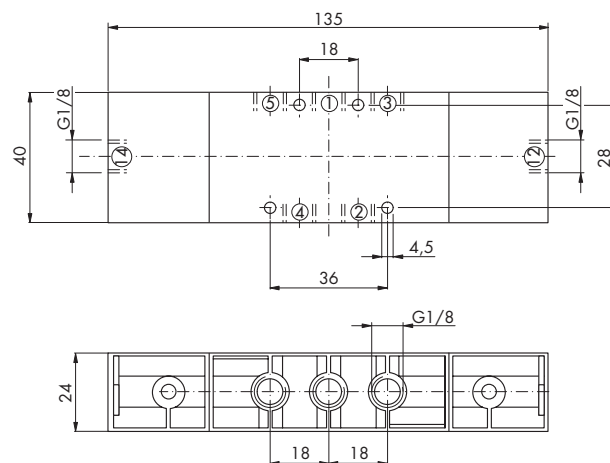
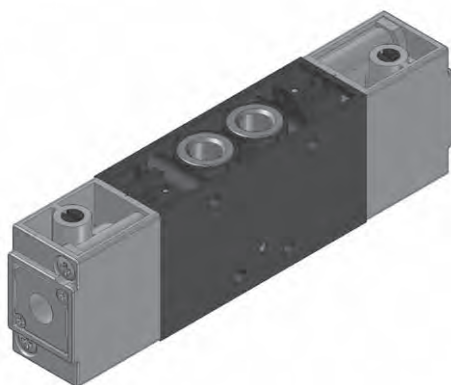
Note: Min. control pressure at 14 ≥ as pressure at 1.

5/2-way Poppet Valves & 5/2-way, 5/3-way Spool Valves - G 1/8 (D_{nom} 6 mm)

SECTION B

Actuation: Pressure at 14

Return: Spring
Pressure at 12
Pressure at 12 with priority at 14



| Code | Valves | Return | Symbol |
|--------------|--------|------------------------------------|--------|
| 76.127.71.42 | Poppet | Pressure at 12 | |
| 76.127.71.47 | Poppet | Pressure at 12 with priority at 14 | |
| 76.123.71.42 | Spool | Pressure at 12 | |

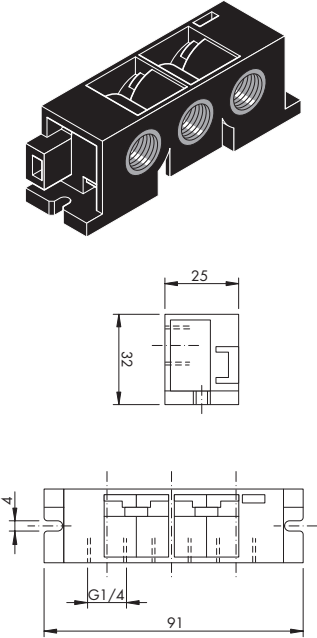
| Code | Valves | Return | Symbol |
|--------------|--------|------------------------------------|--------|
| 76.123.71.47 | Spool | Pressure at 12 with priority at 14 | |
| 76.124.71.38 | Spool | Spring (return to centre) | |
| 76.124.71.28 | Spool | Spring (return to centre) | |

Subplates for Solenoid & Pneumatic Plastic Housing Valves 76.123.xx.xx / 76.124.xx.xx / 76.127.xx.xx

Left End Plate

Left end plate with threaded connection (linking set is part of the subplate shipment).

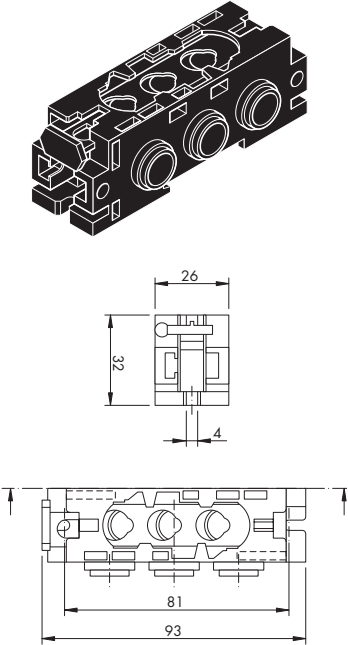
| | |
|------|--------------|
| Code | 76.420.00.99 |
|------|--------------|



Central Plate

This is the standard valve mounting plate. Single valves are mounted to the top.

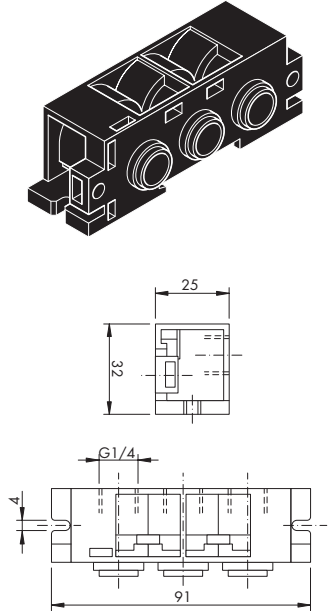
| | |
|------|--------------|
| Code | 76.420.00.01 |
|------|--------------|



Right End Plate

Right endplate (linking set is part of the subplate shipment).

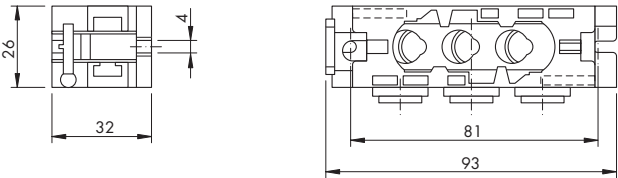
| | |
|------|--------------|
| Code | 76.420.00.98 |
|------|--------------|



Blocking Plate for twin pressure

Accepts one valve. Used in an assembly that has left hand and right hand air supplies at different pressures.

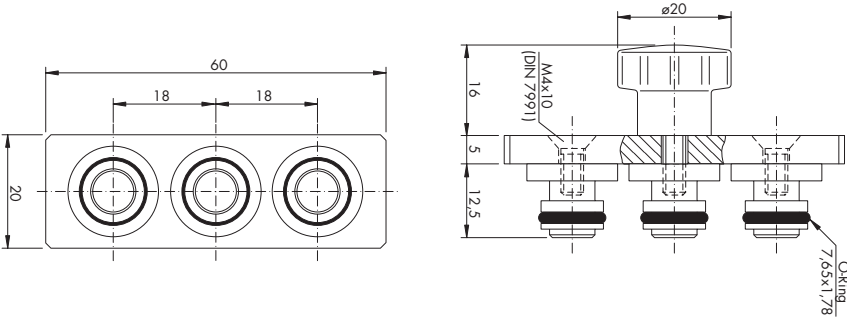
| | |
|------|--------------|
| Code | 76.420.00.05 |
|------|--------------|



Dummy Module

To block the ports of an unused valve subplate.

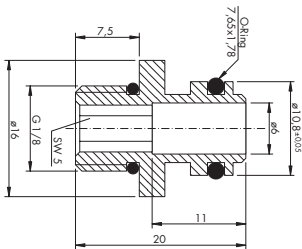
| | |
|------|--------------|
| Code | 76.420.00.06 |
|------|--------------|



Linking element

Linking element to seal individual subplate sections operating at different pressures or for open connecting ports.

| Code | Note |
|--------------|---|
| 76.420.00.36 | Linking element with borehole diam. 6 mm |
| 76.420.00.37 | Linking element without borehole diam. 6 mm |



Note: The shipment includes 1 linking element complete with O-rings.

Subplates Mounting Instructions

The plastic bodied 5/2 and 5/3 valves can be sub plate assembled into valve islands.

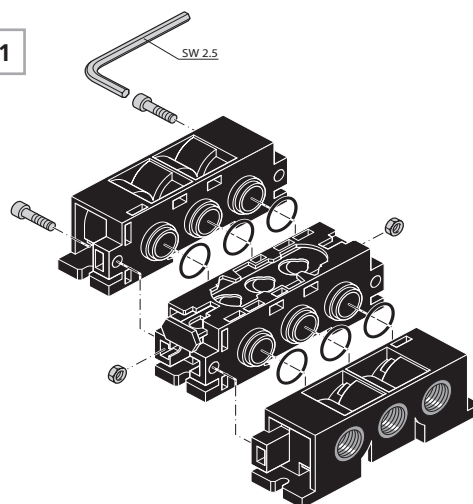
The smallest unit comprises one basic sub plate for one valve, plus one input plate and one end plate.

Plates are assembled using two hex cap screws through lateral flanges. Ports are sealed by integral O-rings.

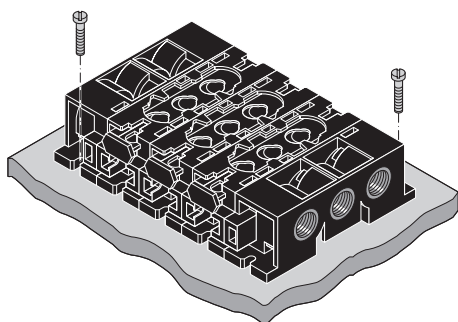
Additional valves each with a standard sub plate can be added or retrofitted to an assembly.

Use a blocking module/subplate (76.420.0005) to enable two different air feeds.

STEP 1

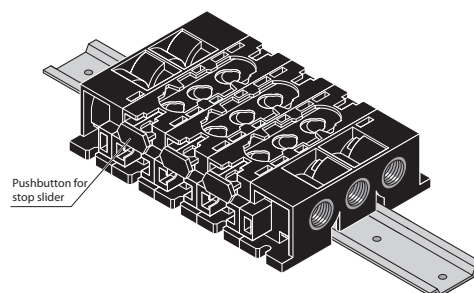


Mounting of the subplate on a flat, even surface



STEP 2

Mounting on a DIN rail (35 mm wide H type rail)



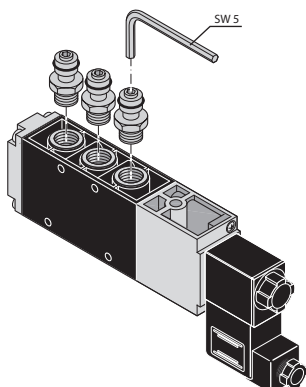
When the subplates are mounted vertically on the DIN rail please make sure that the pushbutton for the stop slider is on top of the unit.

Hang the fully mounted subplate on the upper extension of the rail and then engage its claws in the lower extension by applying a slight pressure. To remove the subplate from the rail, withdraw the claws one after the other against the spring by means of a screw driver and slightly tilt the whole block on the rail at the same time.

Insert the connectors to the valve

Start by screwing the connectors (linking elements) into the the 3 ports of the valve. Then use a 5mm Hex wrench (Allen Key) to tighten and seal.

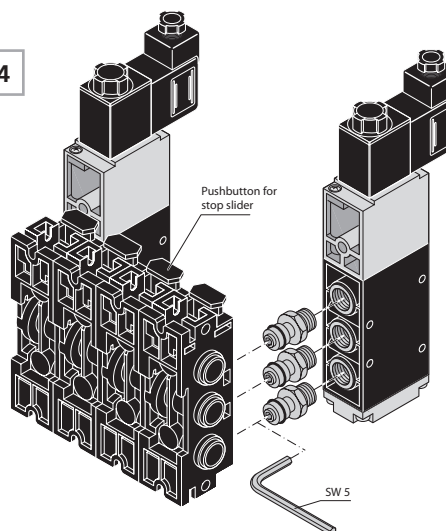
STEP 3



Mount the valve on the subplate

Once the connectors have been inserted and secured as in step 3, a valve can be mounted on it's subplate. Simply depress the valve locking button on the subplate and press the valve into position. Release the locking button.

STEP 4

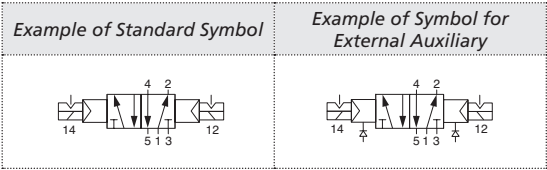


External Auxiliary Valves

SECTION D

The 76 series range of valves is also available with additional external pneumatic auxiliary ports for switching. Other versions are available, please contact our sales department for further information.

Actuation: Solenoid (external pneumatic auxiliary port)
Coil Type: 76.410.xx.xx (order separately)



| Code | Function | Pressure connection | Pilot Pressure Connection | Valve Type | Housing | Return |
|--------------|--------------------------|---------------------|---------------------------|---------------|-------------------------|----------|
| 76.527.91.00 | 5/2 | G1/8 | M5 | Poppet valves | Plastic material (IXEF) | Spring |
| 76.527.92.00 | | | | | | Solenoid |
| 76.523.91.00 | | | | Spool valves | | Spring |
| 76.524.02.00 | 5/3 all ports exhaust | G1/8 | M5 | Spool valves | Plastic material (IXEF) | Solenoid |

NAMUR VALVES

General information

| Function | Section | Pressure range | Pressure connection (nominal orifice) | Earthing contact | Electrical connections |
|--|---------|----------------|--|--------------------------------|------------------------|
| 5/2-way Poppet Valves | A | 2.5 - 10 bar | G 1/4 (8 mm) | Part of the standard device | 2.5 - 10 bar |
| 5/2-way Spool Valves 5/3-way Spool Valves | | 2.5 - 10 bar | G 1/4 (8 mm) | | 2.5 - 10 bar |

Ambient temperature range: From -15 °C to +50 °C

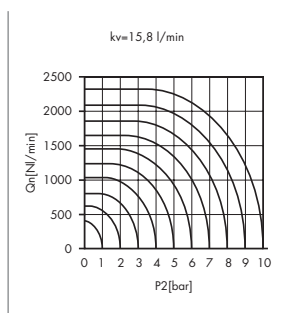
Housing: Die-cast and varnished aluminium alloy

Seals: NBR

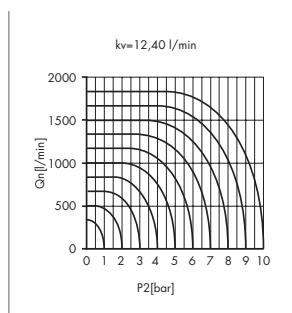
Electrical connections: Coil with 3 spade connectors (6.3 x 0.8 DIN 46247) + plug in sockets (order each separately)

Mounting: Any position

Operating medium: 5 micron filtered, lubricated (or not) compressed air; also suitable for other media conforming to ISO-VG 10



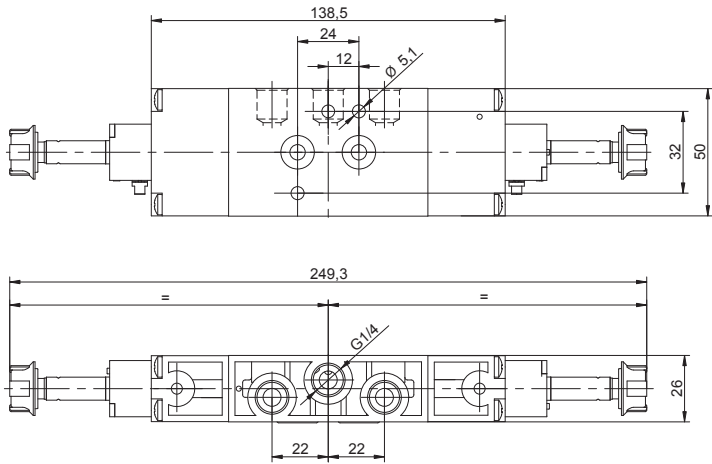
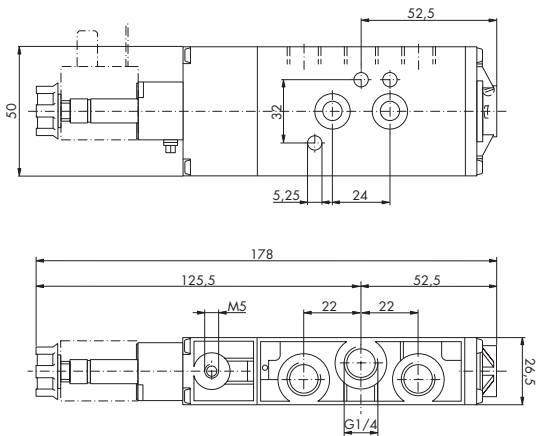
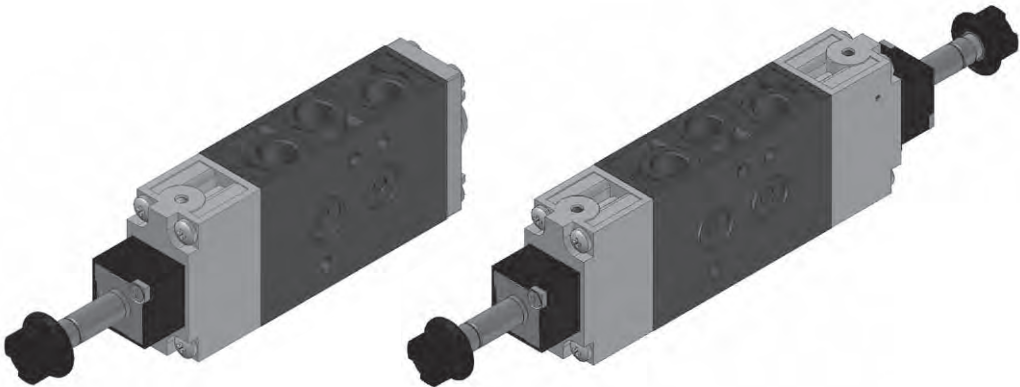
Poppet Valves
Orifice 8 mm



Spool Valves
Orifice 8 mm

5/2-way Poppet Valves & 5/2-way, 5/3-way Spool Valves - G 1/4 (D_{nom} 8 mm) SECTION A

NAMUR ¼ ported valves are designed to a European specification that standardises the mounting holes amongst manufacturers.



| Code | A | Valves | Actuation | Return | Coil Type | Symbol |
|--------------|-------|--------|-----------|--------------------------------|------------------------------------|--------|
| 76.077.91.00 | G 1/4 | Poppet | Solenoid | Spring (pressure supported) | 76.410.xx.xx (order separately) | |
| 76.077.92.00 | G 1/4 | Poppet | Solenoid | Solenoid | 76.410.xx.xx (order separately) | |
| 76.073.91.00 | G 1/4 | Spool | Solenoid | Spring (pressure supported) | 76.410.xx.xx (order separately) | |
| 76.073.92.00 | G 1/4 | Spool | Solenoid | Solenoid | 76.410.xx.xx (order separately) | |
| 76.074.02.00 | G 1/4 | Spool | Solenoid | Spring (return to centre) | 76.410.xx.xx (order separately) | |
| 76.074.12.00 | G 1/4 | Spool | Solenoid | Spring (return to centre) | 76.410.xx.xx (order separately) | |

ISO 1 & ISO 2 VALVES

General information

ISO Solenoid Valves

| ISO | Function | Section | Pressure range | Nominal orifice | Earthing contact | Electrical connections |
|-------|---|---------|----------------|-----------------|-----------------------------|---|
| ISO 1 | 5/2-way Poppet Valves 5/2-way Spool Valves 5/3-way Spool Valves | A | 2.5 - 10 bar | 6 mm | Part of the standard device | Coil with 3 spade connectors (6.3 x 0.8 DIN 46247) + plug in socket (order each separately) |
| ISO 2 | 5/2-way Poppet Valves 5/2-way Spool Valves 5/3-way Spool Valves | | 2.5 - 10 bar | 8 mm | | |

ISO Pneumatic Valves

| ISO | Function | Section | Pressure range | Nominal orifice | Lubricant | Control pressure |
|-------|---|---------|----------------|-----------------|--------------|------------------|
| ISO 1 | 5/2-way Poppet Valves 5/2-way Spool Valves 5/3-way Spool Valves | B | 2.5 - 10 bar | 6 mm | Not required | 2.5 - 10 bar |
| ISO 2 | 5/2-way Poppet Valves 5/2-way Spool Valves 5/3-way Spool Valves | | 2.5 - 10 bar | 8 mm | | |

ISO Solenoid & Pneumatic Valves

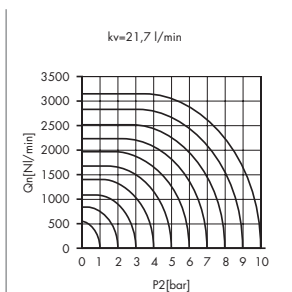
Ambient temperature range: From -15 °C to +50 °C

Housing: Die-cast and varnished aluminium alloy

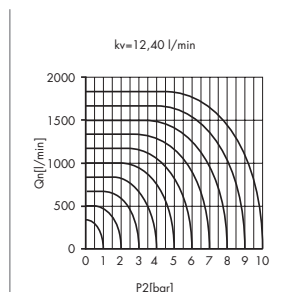
Seals: NBR

Pressure connection: On subplates

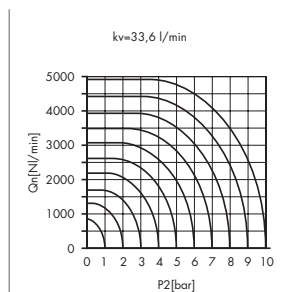
Operating medium: 5 micron filtered, lubricated (or not) compressed air; also suitable for other media conforming to ISO-VG 10



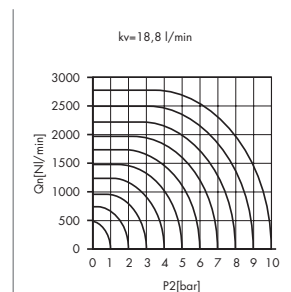
ISO 1
Poppet Valves



ISO 1
Spool Valves



ISO 2
Poppet Valves

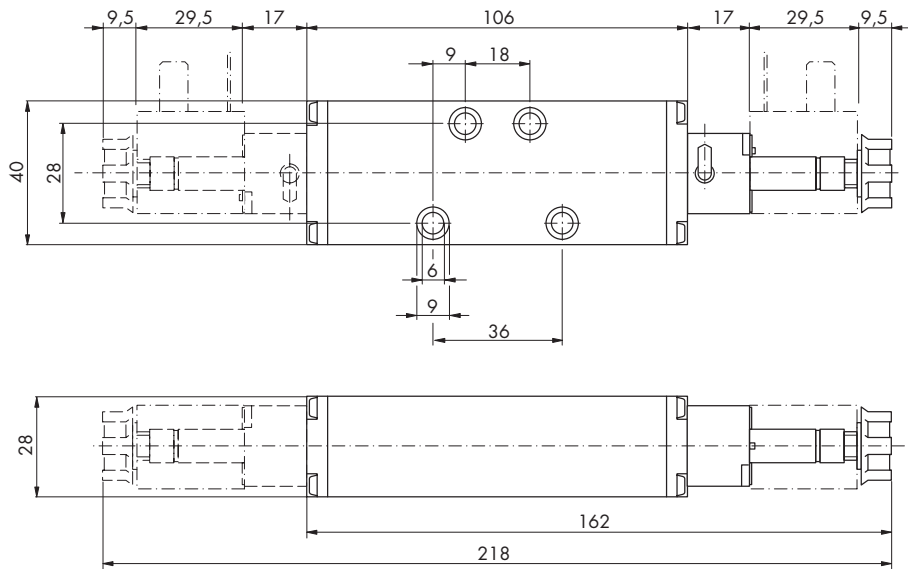
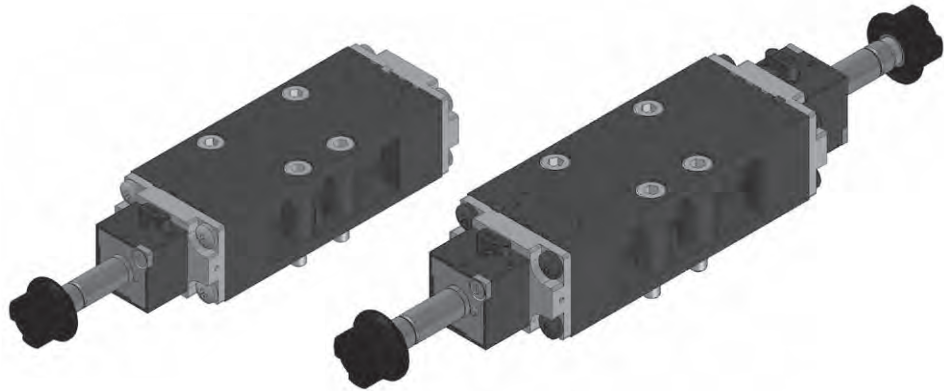


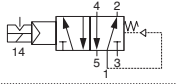
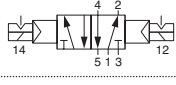
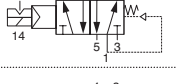
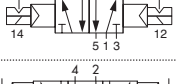
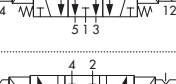
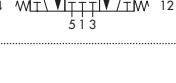
ISO 2
Spool Valves

5/2-way Poppet Valves & 5/2-way, 5/3-way Spool Valves

SECTION A

ISO 1 Valves - Horizontal coil

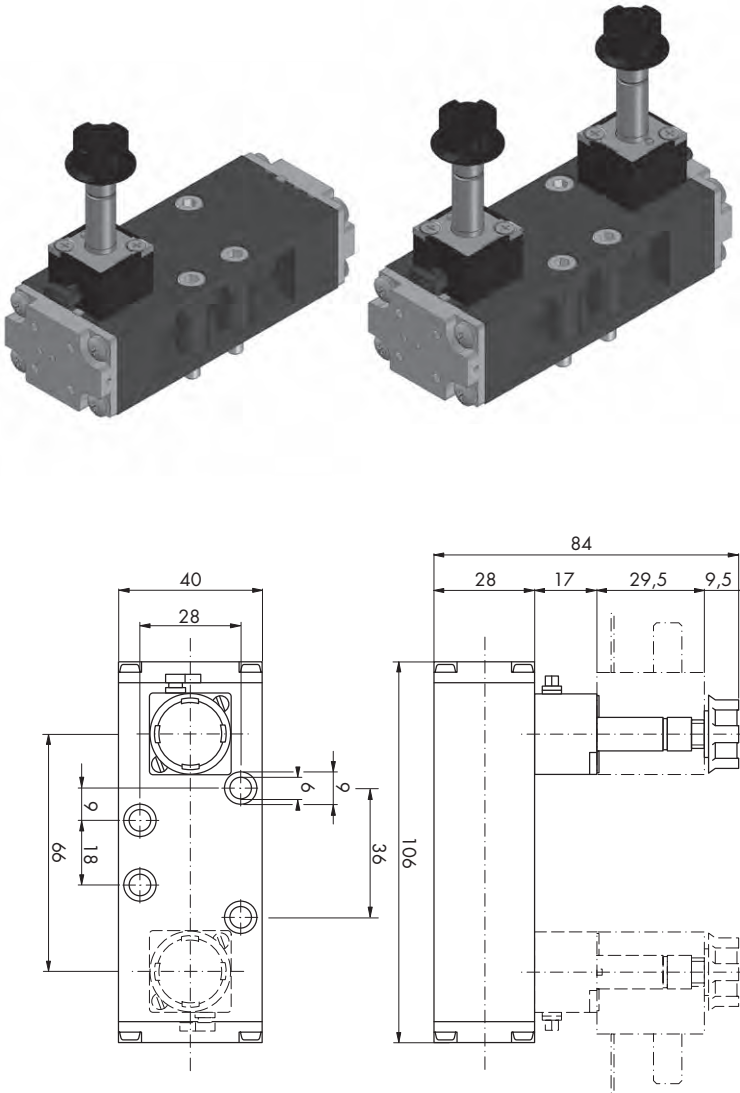


| Code | Connection | Valves | Actuation | Return | Coil Type | Symbol |
|--------------|------------|--------|------------------------------|--------------------------------|------------------------------------|---|
| 76.087.91.00 | Subplates | Poppet | Solenoid, manual override | Spring (pressure supported) | 76.410.xx.xx (order separately) |  |
| 76.087.92.00 | Subplates | Poppet | Solenoid, manual override | Solenoid | 76.410.xx.xx (order separately) |  |
| 76.083.91.00 | Subplates | Spool | Solenoid, manual override | Spring (pressure supported) | 76.410.xx.xx (order separately) |  |
| 76.083.92.00 | Subplates | Spool | Solenoid, manual override | Solenoid | 76.410.xx.xx (order separately) |  |
| 76.084.02.00 | Subplates | Spool | Solenoid, manual override | Spring (return to centre) | 76.410.xx.xx (order separately) |  |
| 76.004.12.00 | Subplates | Spool | Solenoid, manual override | Spring (return to centre) | 76.410.xx.xx (order separately) |  |

5/2-way Poppet Valves & 5/2-way, 5/3-way Spool Valves

SECTION A

ISO 1 Valves - Vertical coil

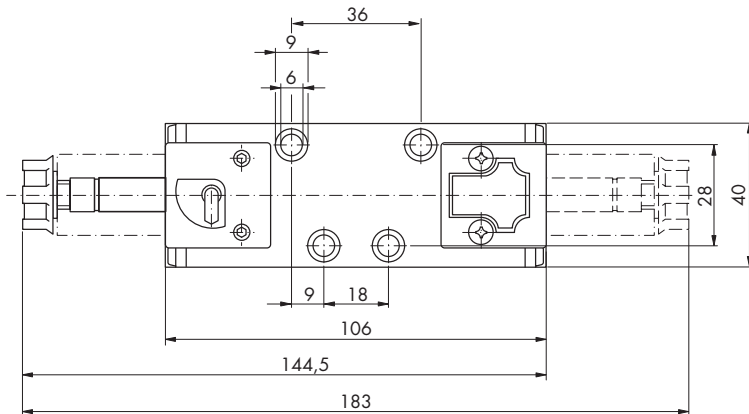
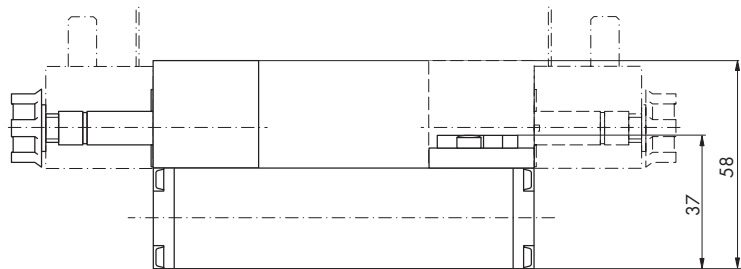
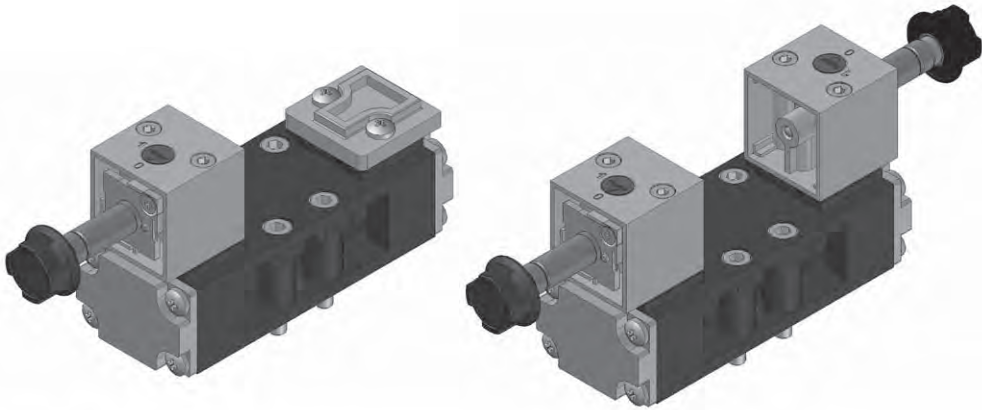


| Code | Connection | Valves | Actuation | Return | Coil Type | Symbol |
|--------------|------------|--------|------------------------------|--------------------------------|------------------------------------|--------|
| 76.087.94.00 | Subplates | Poppet | Solenoid, manual override | Spring (pressure supported) | 76.410.xx.xx (order separately) | |
| 76.087.95.00 | Subplates | Poppet | Solenoid, manual override | Solenoid | 76.410.xx.xx (order separately) | |
| 76.083.94.00 | Subplates | Spool | Solenoid, manual override | Spring (pressure supported) | 76.410.xx.xx (order separately) | |
| 76.083.95.00 | Subplates | Spool | Solenoid, manual override | Solenoid | 76.410.xx.xx (order separately) | |
| 76.084.05.00 | Subplates | Spool | Solenoid, manual override | Spring (return to centre) | 76.410.xx.xx (order separately) | |
| 76.084.15.00 | Subplates | Spool | Solenoid, manual override | Spring (return to centre) | 76.410.xx.xx (order separately) | |

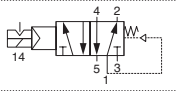
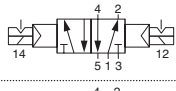
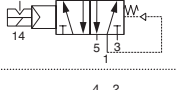
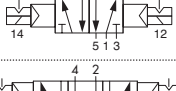
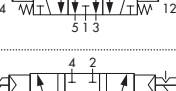
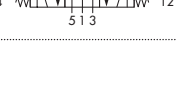
5/2-way Poppet Valves & 5/2-way, 5/3-way Spool Valves

SECTION A

ISO 1 Valves - Cnomo coil



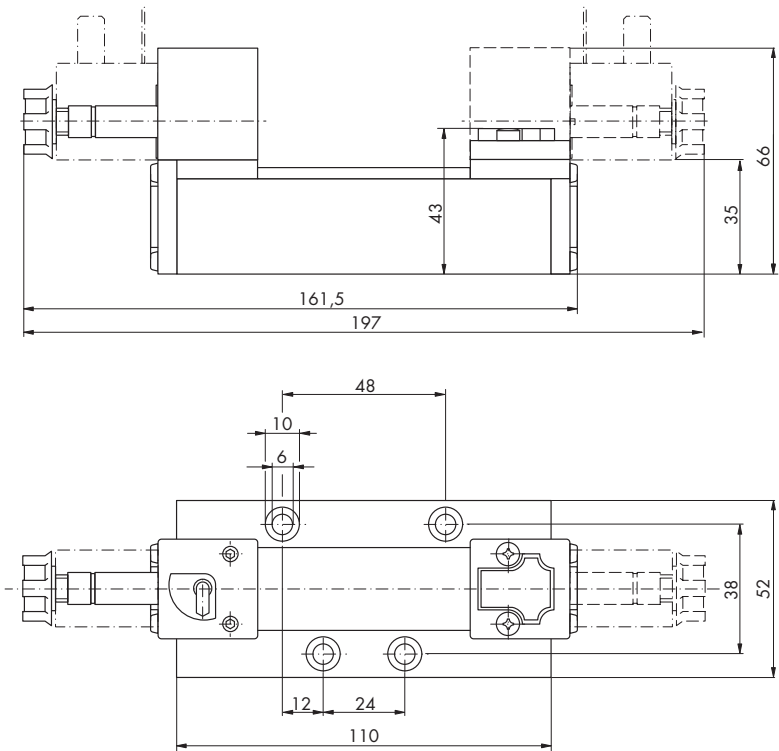
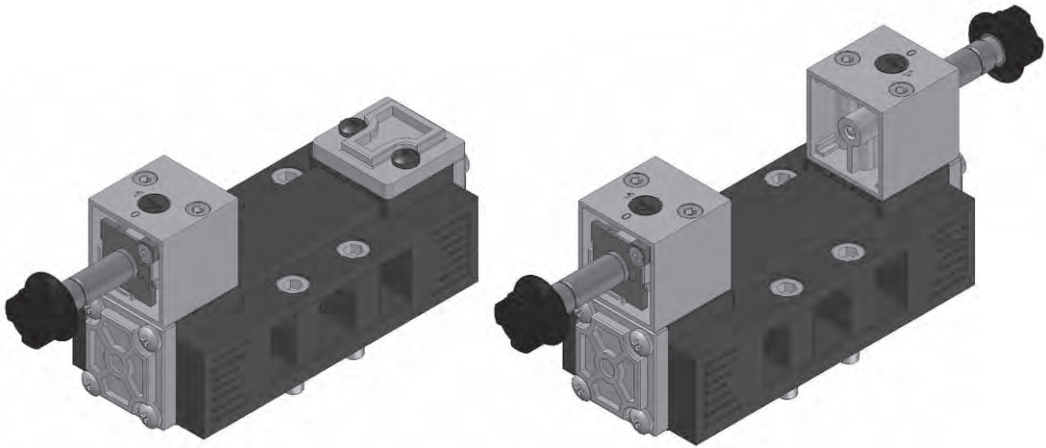
SERIES 76
ISO 1 & ISO 2 VALVES

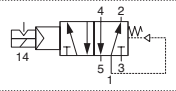
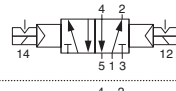
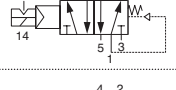
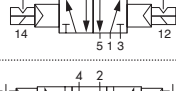
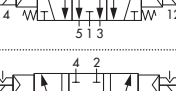
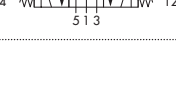
| Code | Connection | Valves | Actuation | Return | Coil Type | Symbol |
|--------------|------------|--------|------------------------------|--------------------------------|------------------------------------|---|
| 76.087.97.00 | Subplates | Poppet | Solenoid, manual override | Spring (pressure supported) | 76.411.xx.xx (order separately) |  |
| 76.087.98.00 | Subplates | Poppet | Solenoid, manual override | Solenoid | 76.411.xx.xx (order separately) |  |
| 76.083.97.00 | Subplates | Spool | Solenoid, manual override | Spring (pressure supported) | 76.411.xx.xx (order separately) |  |
| 76.083.98.00 | Subplates | Spool | Solenoid, manual override | Solenoid | 76.411.xx.xx (order separately) |  |
| 76.084.08.00 | Subplates | Spool | Solenoid, manual override | Spring (return to centre) | 76.411.xx.xx (order separately) |  |
| 76.084.18.00 | Subplates | Spool | Solenoid, manual override | Spring (return to centre) | 76.411.xx.xx (order separately) |  |

5/2-way Poppet Valves & 5/2-way, 5/3-way Spool Valves

SECTION A

ISO 2 Valves - Cnomo coil

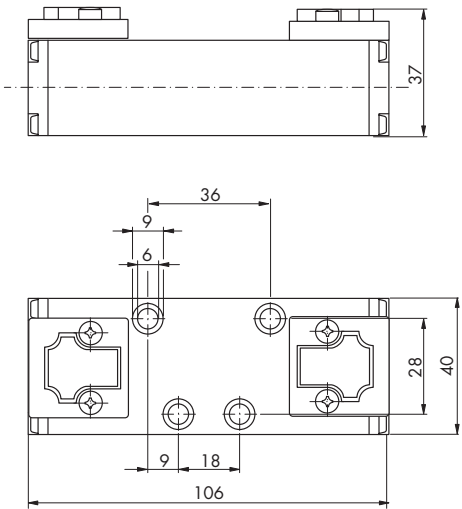
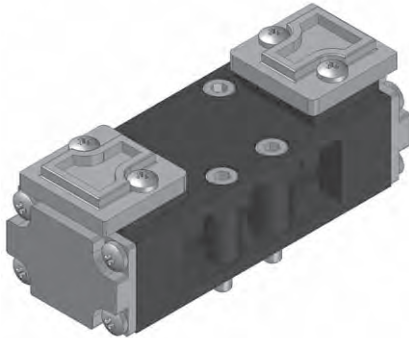


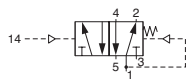
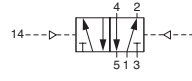
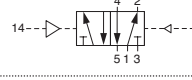
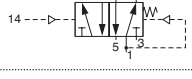
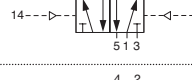
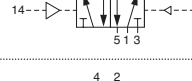
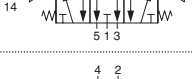
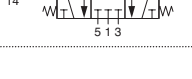
| Code | Connection | Valves | Actuation | Return | Coil Type | Symbol |
|--------------|------------|--------|------------------------------|--------------------------------|------------------------------------|---|
| 76.097.97.00 | Subplates | Poppet | Solenoid, manual override | Spring (pressure supported) | 76.411.xx.xx (order separately) |  |
| 76.097.98.00 | Subplates | Poppet | Solenoid, manual override | Solenoid | 76.411.xx.xx (order separately) |  |
| 76.093.97.00 | Subplates | Spool | Solenoid, manual override | Spring (pressure supported) | 76.411.xx.xx (order separately) |  |
| 76.093.98.00 | Subplates | Spool | Solenoid, manual override | Solenoid | 76.411.xx.xx (order separately) |  |
| 76.094.08.00 | Subplates | Spool | Solenoid, manual override | Spring (return to centre) | 76.411.xx.xx (order separately) |  |
| 76.094.18.00 | Subplates | Spool | Solenoid, manual override | Spring (return to centre) | 76.411.xx.xx (order separately) |  |

5/2-way Poppet Valves & 5/2-way, 5/3-way Spool Valves

SECTION B

ISO 1 Valves

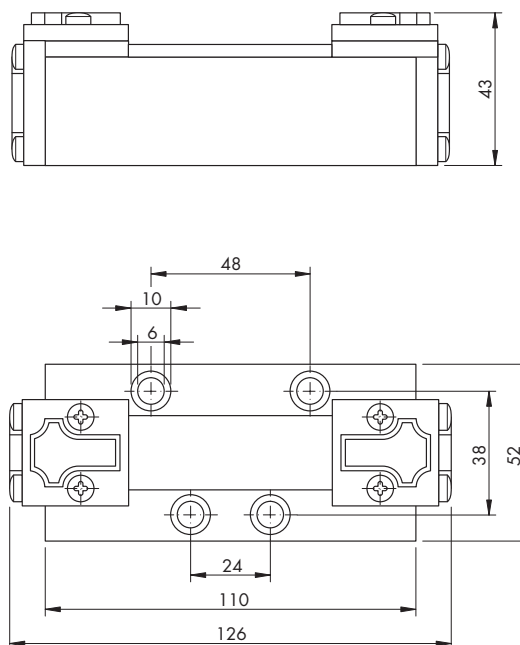
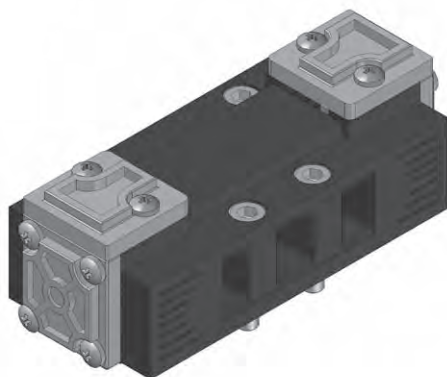


| Code | Connection | Valves | Actuation | Return | Note | Symbol |
|--------------|------------|--------|----------------|------------------------------------|---|---|
| 76.087.71.41 | Subplates | Poppet | pressure at 14 | Spring | Min. control pressure at 14 \geq as pressure at 1 |  |
| 76.087.71.42 | Subplates | Poppet | pressure at 14 | pressure at 12 | |  |
| 76.087.71.47 | Subplates | Poppet | pressure at 14 | pressure at 12 with priority at 14 | |  |
| 76.083.71.41 | Subplates | Spool | pressure at 14 | Spring | Min. control pressure at 14 \geq as pressure at 1 |  |
| 76.083.71.42 | Subplates | Spool | pressure at 14 | pressure at 12 | |  |
| 76.083.71.47 | Subplates | Spool | pressure at 14 | pressure at 12 with priority at 14 | |  |
| 76.084.71.28 | Subplates | Spool | pressure at 14 | Spring (return to centre) | |  |
| 76.084.71.38 | Subplates | Spool | pressure at 14 | Spring (return to centre) | |  |

5/2-way Poppet Valves & 5/2-way, 5/3-way Spool Valves

SECTION B

ISO 2 Valves

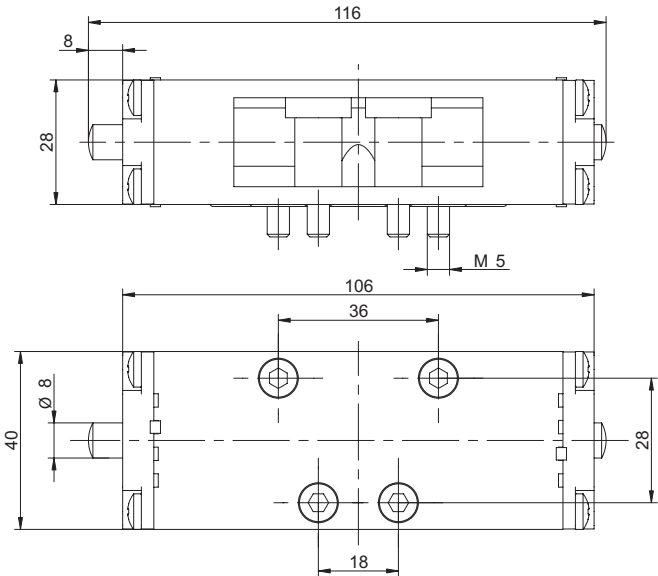
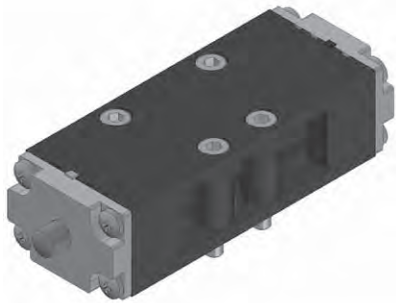


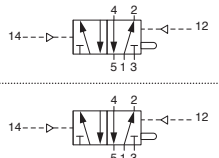
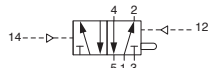
| Code | Connection | Valves | Actuation | Return | Note | Symbol |
|--------------|------------|--------|----------------|------------------------------------|---|--------|
| 76.097.71.41 | Subplates | Poppet | pressure at 14 | Spring | Min. control pressure at 14 \geq as pressure at 1 | |
| 76.097.71.42 | Subplates | Poppet | pressure at 14 | pressure at 12 | | |
| 76.097.71.47 | Subplates | Poppet | pressure at 14 | pressure at 12 with priority at 14 | | |
| 76.093.71.41 | Subplates | Spool | pressure at 14 | Spring | Min. control pressure at 14 \geq as pressure at 1 | |
| 76.093.71.42 | Subplates | Spool | pressure at 14 | pressure at 12 | | |
| 76.093.71.47 | Subplates | Spool | pressure at 14 | pressure at 12 with priority at 14 | | |
| 76.094.71.28 | Subplates | Spool | pressure at 14 | Spring (return to centre) | | |
| 76.094.71.38 | Subplates | Spool | pressure at 14 | Spring (return to centre) | | |

5/2-way Poppet Valves & 5/2-way Spool Valves for Pumps

SECTION B

ISO 1 Valves for Pumps

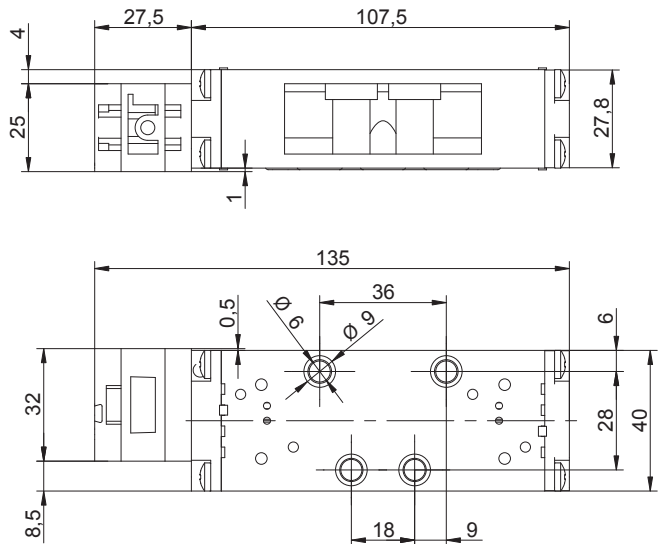
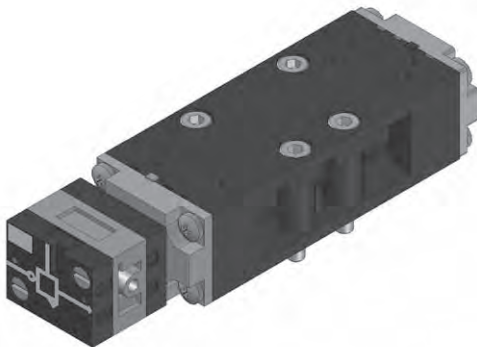


| Code | Connection | Valves | Actuation | Return | Symbol |
|--------------|------------|--------|----------------|------------------------------|---|
| 76.083.71.52 | Subplates | Poppet | pressure at 14 | pressure at 12 pushbutton |  |
| 76.087.71.52 | Subplates | Spool | pressure at 14 | pressure at 12 pushbutton |  |

5/2-way Valves for Direct Mounted Logic Modules

SECTION B

ISO 1 Valve for Direct Mounted Logic Module (Spring Return)



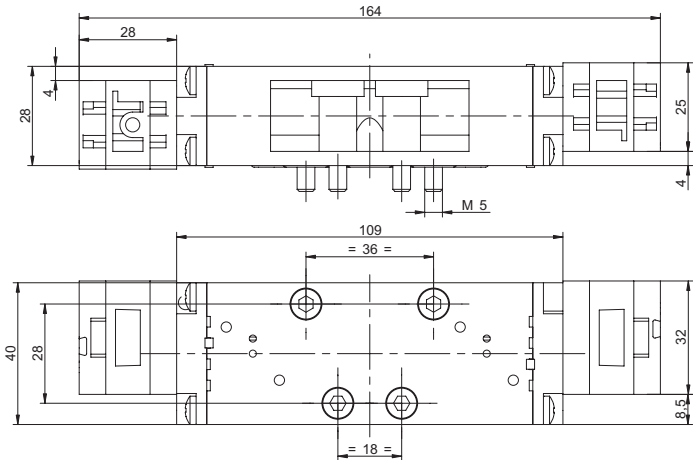
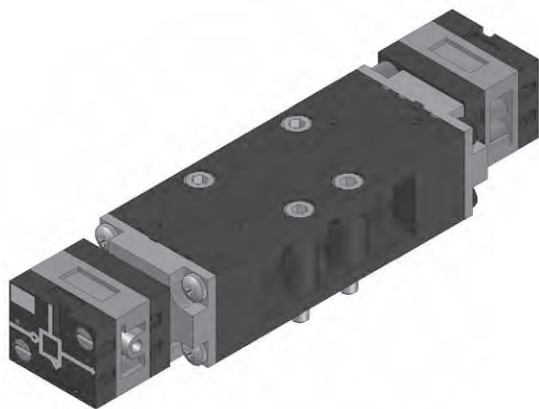
| Code | Connection | Valves | Actuation | Return |
|--------------|------------|--------|--|--------|
| 76.087.72.41 | Subplates | Poppet | "Not" Logic Module (order separately, part no C815.04.025) | Spring |

Note: Order logic module separately.

5/2-way Valves for Direct Mounted Logic Modules

SECTION B

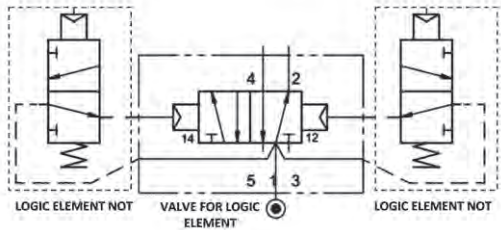
ISO 1 Valve for Direct Mounted Logic Modules (Logic Return)



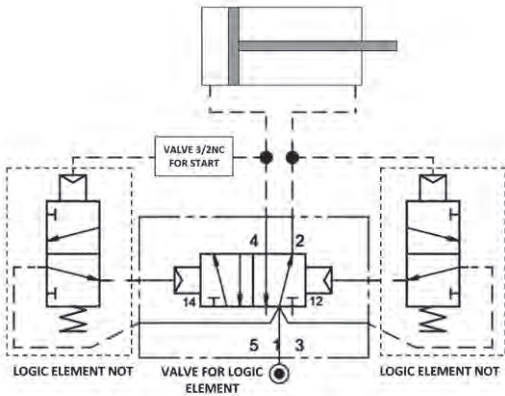
| Code | Connection | Valves | Actuation | Return |
|--------------|------------|--------|--|--|
| 76.083.72.72 | Subplates | Spool | "Not" Logic Module (order separately, part no C815.04.025) | "Not" Logic Module (order separately, part no C815.04.025) |

Note: Order logic module separately.

Valve function



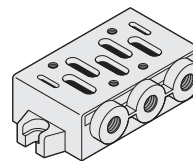
Example of a system



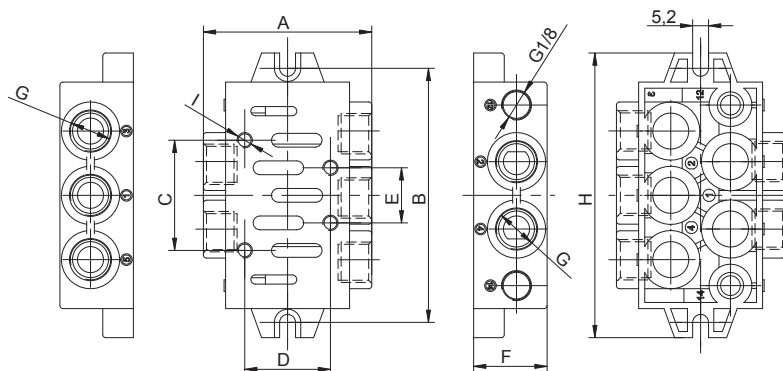
Subplates for ISO 1 and ISO 2 Valves - Single Subplate

Whoever has decided for a machine control with ISO valves most probably uses the variable connection plate system with subplates for valve mounting and the corresponding end plates. For expansion of individual valves or when an ISO valve is to be removed from a control block when in mounted condition, the use of an individual subplate presents itself.

Single subplates for use with ISO valves. Not for modular use.

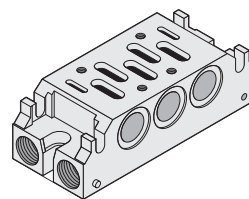


| ISO | Code | A | B | C | D | E | F | G | H |
|-------|--------------|----|-------|----|----|----|----|-------|-------|
| ISO 1 | 76.420.00.11 | 56 | 82.5 | 36 | 28 | 18 | 24 | G 1/4 | 92.5 |
| ISO 2 | 76.420.00.12 | 65 | 100.5 | 48 | 38 | 24 | 30 | G 3/8 | 112.5 |



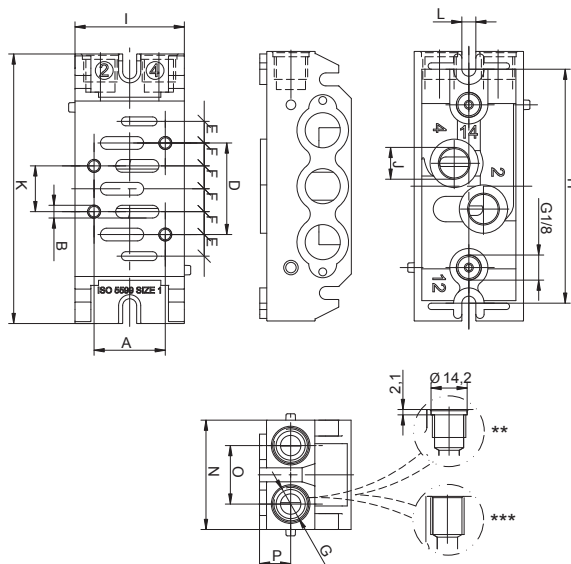
Subplates for ISO 1 and ISO 2 Valves - Single Subplates for Assemblies

Single subplates for use with ISO valves when building assemblies (valve islands). Add end plates, separation modules, intermediate exhaust modules, central supply modules and dummy plates as required.



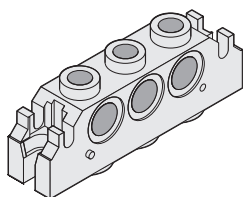
| ISO | Code | A | B | C | D | E | F | G | H | I | J | K |
|----------|--------------|----|----|-----|----|-----|----|-------|-----|----|-------|-----|
| ISO 1 * | 76.420.00.13 | 28 | M5 | 4.5 | 36 | 8.5 | 9 | G 1/4 | 92 | 43 | G 1/4 | 106 |
| ISO 1 ** | 76.420.00.93 | 28 | M5 | 4.5 | 36 | 8.5 | 9 | G 1/4 | 92 | 43 | G 1/4 | 106 |
| ISO 2 ** | 76.420.00.14 | 38 | M6 | 7 | 48 | 10 | 12 | G 3/8 | 102 | 56 | G 3/8 | 120 |

Note: Each subplate is supplied complete with valve seal, 2 dummy plugs, O-rings and connecting screws (M5 DIN 912).



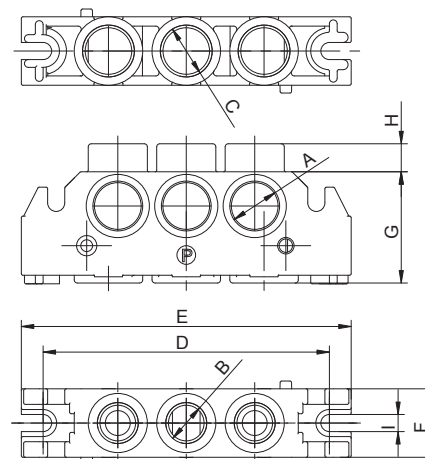
Subplates for ISO 1 and ISO 2 Valves - Universal End Plates

Each sub plate assembly will need 2 end plates, as blocked ends or for supply and exhaust; plus a possible (3rd) central supply plate. These universal end plates have threaded ports on each side and on the top. Supplied with sealed ports, simply break the respective diaphragm as required.



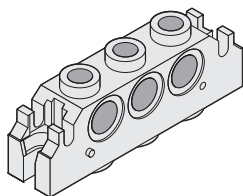
| ISO | Code | A | B | C |
|-------|--------------|-------|-------|-------|
| ISO 1 | 76.420.00.75 | G 3/8 | G 1/4 | G 3/8 |
| ISO 2 | 76.420.00.85 | G 1/2 | G 1/4 | G 1/2 |

Note: The shipment includes 1 subplate, 1 shaped seal, 2 connecting components (M5 screws DIN 912).



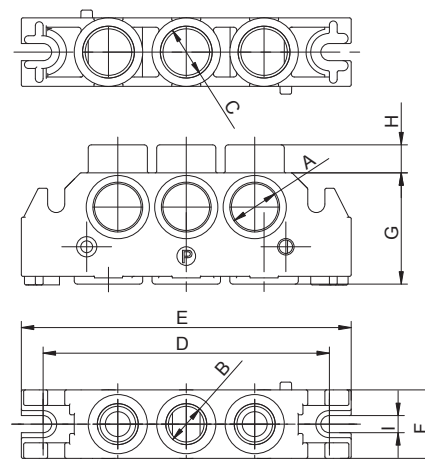
Subplates for ISO 1 and ISO 2 Valves - Separation Module

Externally, the separation module is identical to the end plate. The difference between it and the end plate is, however, that the separation module does not have a connection thread and that all ports are closed. The separation module can be mounted at any position on the connection plate system. Note that you cannot use the closed ports (even if you break the diaphragm), because these ports are not threaded. This module is used to separate pressure levels (or also as closed endplate).



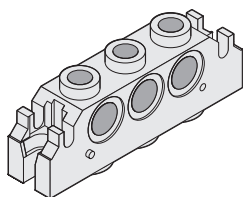
| ISO | Code | A | B | C | D | E | F |
|-------|--------------|-----|-----|----|----|---|-----|
| ISO 1 | 76.420.00.27 | 92 | 106 | 22 | 36 | 8 | 5.5 |
| ISO 2 | 76.420.00.28 | 102 | 120 | 29 | 43 | 7 | 6.5 |

Note: The shipment includes 1 subplate, 1 shaped seal, 2 connecting components (M5 screws DIN 912).



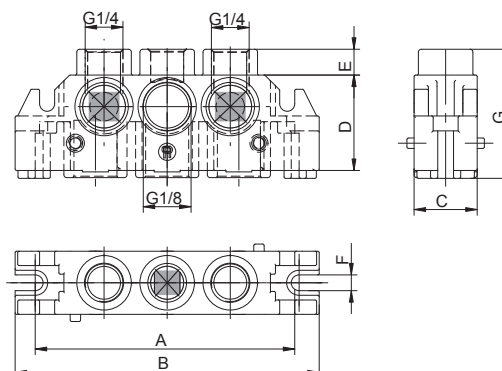
Subplates for ISO 1 and ISO 2 Valves - Intermediate Exhaust Module

Each module has 2 exhaust ports (only) for fitting of flow regulators. Designed for use in addition to the main exhaust ports of the universal end plates.



| ISO | Code | A | B | C | D | E | F | G | I |
|-------|--------------|-----|-----|----|----|---|-----|-----|-----|
| ISO 1 | 76.420.00.29 | 92 | 106 | 22 | 36 | 8 | 5.5 | 5.5 | 5.5 |
| ISO 2 | 76.420.00.30 | 102 | 120 | 29 | 43 | 7 | 6.5 | 6.5 | 6.5 |

Note: The shipment includes 1 subplate, 1 shaped seal, 2 connecting components (M5 screws DIN 912).



Subplates for ISO 1 and ISO 2 Valves - End Plates Set

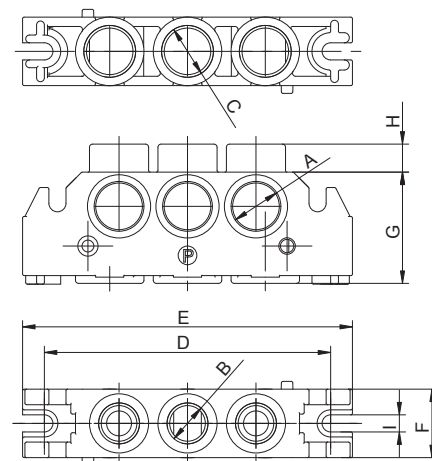
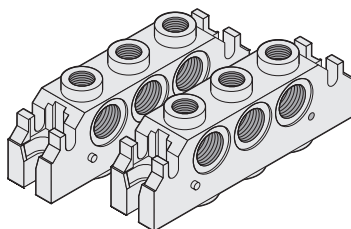
This is the easy and fast way to create a valve island. The endplates set is a kit comprising 2 plates, 2 shaped seal and 4 screws.

One piece is used as the input plate (pressure in).

The second piece could be the end plate (closed) or another input plate.

Depending on the plate, the feeding could be:

- Lateral (A)
- From above (B)
- From below (C)



| ISO Plate | D | E | F | G | H | I |
|-------------|-----|-----|----|----|---|-----|
| ISO 1 plate | 92 | 106 | 22 | 36 | 8 | 5.5 |
| ISO 2 plate | 102 | 120 | 29 | 43 | 7 | 6,5 |

Note: The shipment includes 2 subplates, 2 shaped seal and 4 connecting components (M5 screws DIN 912).

ISO 1

| Code | Type | Thread on the first plate | Thread on the second plate |
|--------------|---------------|--|--|
| 76.420.00.15 | input - end | open lateral (A = G3/8; B and C closed) | A, B and C closed (no thread) |
| 76.420.00.16 | input - input | open lateral (A = G3/8; B and C closed) | open lateral (A = G3/8; B and C closed) |
| 76.420.00.17 | input - end | open from above (B = G1/4; A and C closed) | A, B and C closed (no thread) |
| 76.420.00.18 | input - input | open from above (B = G1/4; A and C closed) | open from above (B = G1/4; A and C closed) |
| 76.420.00.19 | input - end | open from below (C = G3/8; A and B closed) | A, B and C closed (no thread) |
| 76.420.00.20 | input - input | open from below (C = G3/8; A and B closed) | open from below (C = G3/8; A and B closed) |

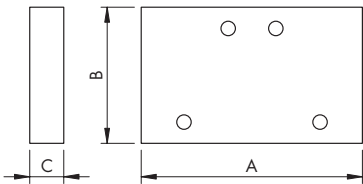
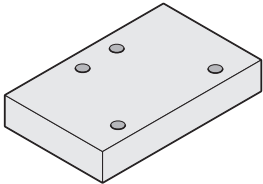
ISO 2

| Code | Type | Thread on the first plate | Thread on the second plate |
|--------------|---------------|--|--|
| 76.420.00.21 | input - end | open lateral (A = G1/2; B and C closed) | A, B and C closed (no thread) |
| 76.420.00.22 | input - input | open lateral (A = G1/2; B and C closed) | open lateral (A = G1/2; B and C closed) |
| 76.420.00.23 | input - end | open from above (B = G1/4; A and C closed) | A, B and C closed (no thread) |
| 76.420.00.24 | input - input | open from above (B = G1/4; A and C closed) | open from above (B = G1/4; A and C closed) |
| 76.420.00.25 | input - end | open from below (C = G1/2; A and B closed) | A, B and C closed (no thread) |
| 76.420.00.26 | input - input | open from below (C = G1/2; A and B closed) | open from below (C = G1/2; A and B closed) |

Note: You cannot use the closed ports (even if you break the diaphragm), because they are not threaded.

Subplates for ISO 1 and ISO 2 Valves - Blanking Plates

Subplate locations that have been provided for in the planning phase but are unused can be sealed with the dummy subplate. The vulcanized gasket ensures a perfect sealing of the air slits. This plate is mounted on the top of the subplate instead of the valve.

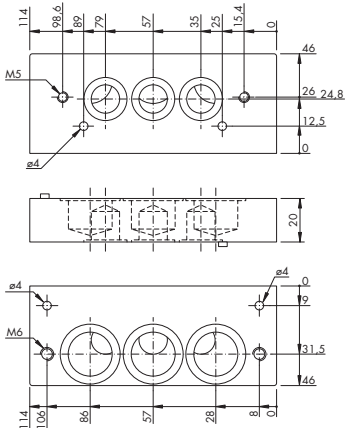
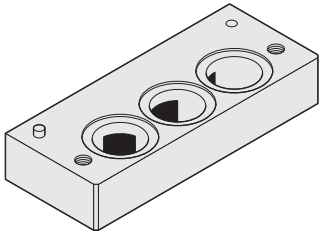


| ISO | Code | A | B | C |
|-------|--------------|----|----|---|
| ISO 1 | 76.420.00.31 | 68 | 40 | 6 |
| ISO 2 | 76.420.00.32 | 80 | 54 | 6 |

Note: The shipment includes 4 screws.

Subplates for ISO 1 and ISO 2 Valves - Adaptor

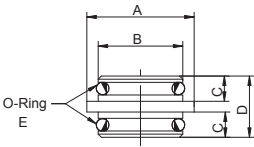
Use this adaptor to connect ISO 1 & ISO 2 sub plate assemblies.



| ISO | Code |
|---------------|--------------|
| ISO 1 & ISO 2 | 76.420.00.33 |

Subplates for ISO 1 and ISO 2 Valves - Dummy Plug

Dummy plugs for sealing the pressure channel in the ISO subplate system. This plug closes the passage of air in the channels of the ISO subplate system.



| ISO | Code |
|-------|--------------|
| ISO 1 | 76.420.00.38 |
| ISO 2 | 76.420.00.39 |

Note: The shipment includes 10 dummy plugs and 20 O-rings.

Subplates System Mounting Instructions

To assemble an ISO valve island you need at least:

- 1) Two Universal Endplates (or, as alternative, one Endplates set)
- 2) Two (or more) Modular use Subplates
- 3) Two (or more) ISO Valves to mount on the Subplates

Almost all demands can be realised with the connection plate system. We differentiate between two plate models:

1. Universal base plate

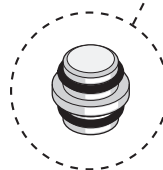
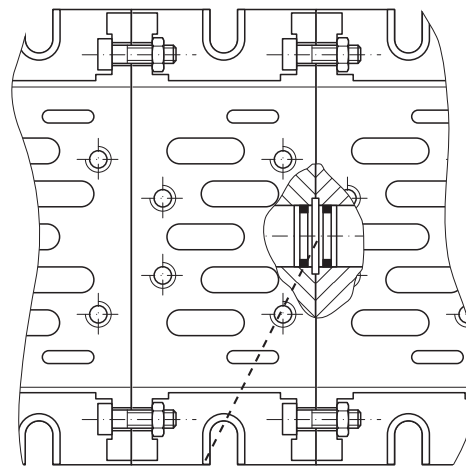
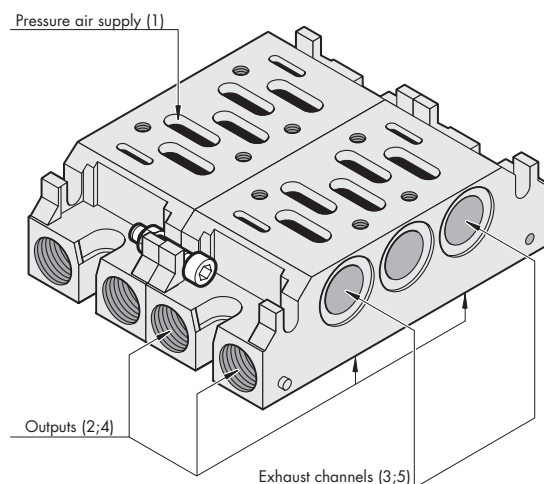
- Pressure air supply (1)
- Exhaust channels (3; 5)
- Outputs (2; 4)

The universal base plate takes the valves. The pressure air supply and exhaust is via central channels in the inside of the plate. The output connections can be screwed in laterally or from above or below. For the pneumatic control of the valve only connection from below is possible. Several plates are connected with imbus screws (DIN 912), whereby the centering is carried out by a lateral peg and a drilling. O-rings are used for the sealing. If various different pressures are to be utilized within the plate system then instead of the O-ring, a dummy plug with 2 sealing O-rings is assembled between the connection plates in the middle air channels.

2. End plates or separation plates

By combining connection, separation and end plates, a multitude of variations can be mounted without difficulty. When mounting the plates, make sure that the O-rings between the plates are centered and that the fixing elements are evenly tightened. Both dummy plugs included in the shipment of the subplates can be screwed either into the outputs (2; 4) from below or onto the front. In case of complex controls, we recommend that an extra valve location that can be closed with a dummy subplate be provided for in the planning phase. This measure pays off in case of a retrofit.

In case of doubts on assembly solutions, please contact our Sales Office.



PILOT VALVES

General information

| Function | Section | Pressure range | Nominal orifice | Housing | Seals | Mounting | Manual override (rotating) |
|----------------|---------|----------------|-----------------|---------|-------|--|----------------------------|
| 3/2-way Valves | A | 0 - 8 bar | 1 mm 1.5 mm | Plastic | NBR | 76 series solenoid valves 76 series ISO valves pilot valve subplates | Yes |
| 3/2-way Valves | B | 0 - 8 bar | 1.5 mm | Plastic | NBR | ISO (Connection holes according to Cnomo) | Yes |
| 3/2-way Valves | | 0 - 9 bar | 1.5 mm | Zamak | NBR | None | No |

Mounting:

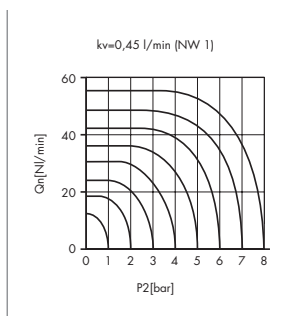
Direct actuation

Fluid:

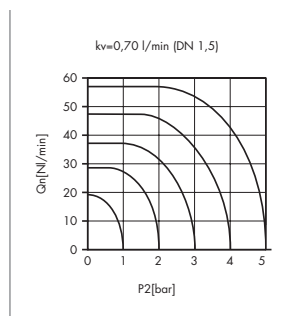
Air and neutral gas

Ambient temperature range:

From -15 °C to +50 °C



Poppet Valves
Orifice 1 mm

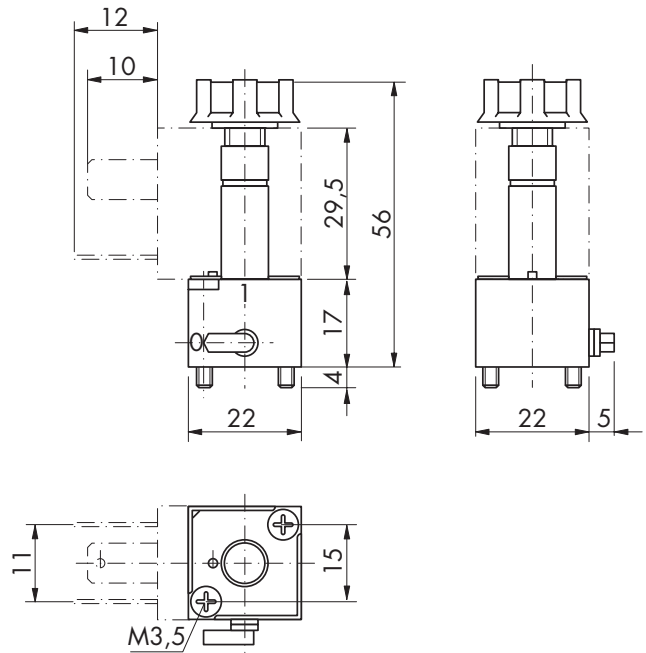


Poppet Valves
Orifice 1.5 mm

3/2-way Valves - Orifice 1 mm / 1.5 mm

SECTION A

Actuation: Solenoid
Return: Spring
Coil Type: 76.410.xx.xx only for 76.136.01.00 (order separately)
76.412.xx.xx only for 76.136.11.00 (order separately)

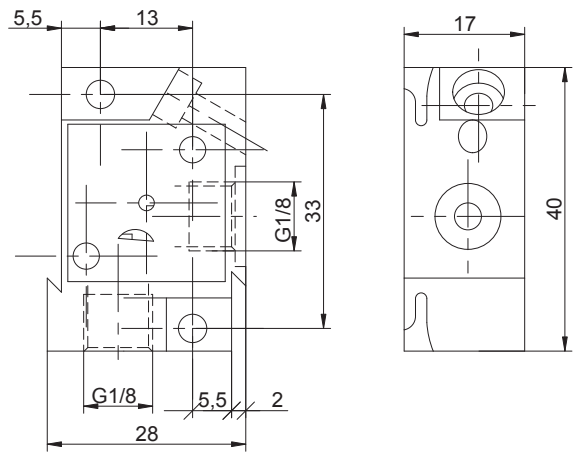
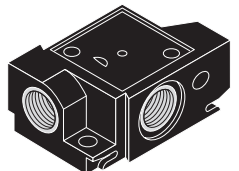


| Code | Orifice | Symbol |
|--------------|---------|--------|
| 76.136.01.00 | 1 mm | |
| 76.136.11.00 | 1.5 mm | |

Subplates

SECTION A

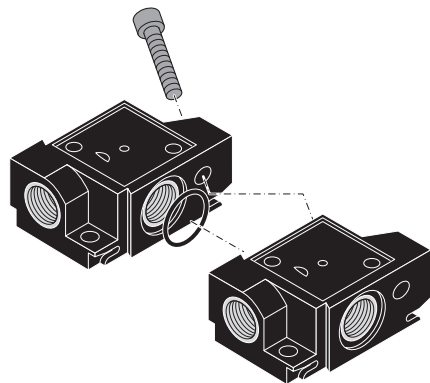
Single Subplate (Endplate)



| Code | Orifice | Material |
|--------------|---------|----------|
| 76.420.03.01 | G 1/8 | Plastic |

Modular Version Subplate

| Code | Orifice | Material |
|--------------|--------------|----------|
| 76.420.03.03 | G 1/8 | Plastic |
| 76.420.03.05 | G 1/8 and M5 | Plastic |



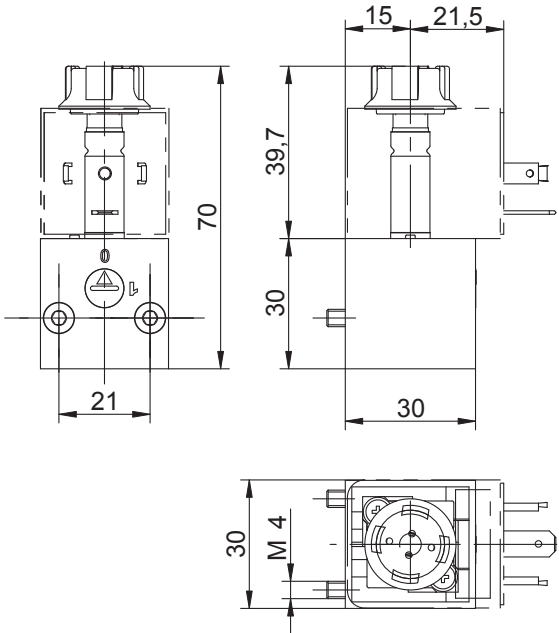
Note: Common air supply. As an endplate a single subplate is to be used.

SERIES 76
PILOT VALVES

3/2-way Valves - Orifice 1.5 mm

SECTION B

Actuation: Solenoid
Return: Spring
Coil Type: 76.411.xx.xx (order separately)



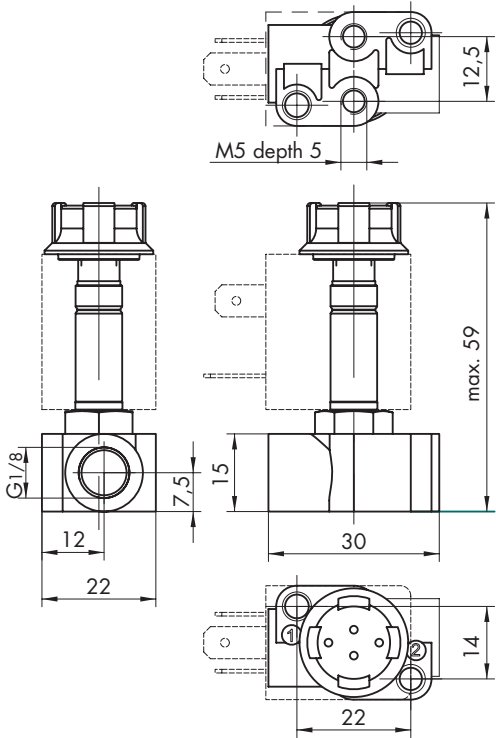
| Code | Orifice | Symbol |
|--------------|---------|--------|
| 76.136.21.00 | 1.5 mm | |

Note: Connection holes according to Cnomo.

3/2-way Valves - Orifice 1.5 mm

SECTION B

Actuation: Solenoid
Return: Spring
Coil Type: 76.412.xx.xx (order separately)



| Code | Orifice | Symbol |
|--------------|---------|--------|
| 76.036.01.00 | 1.5 mm | |

SERIES 76
PILOT VALVES

FOOT-OPERATED VALVES

General information

| Function | Section | Pressure range | Pressure connection (nominal orifice) | Mounting plate | Seals | Housing |
|------------------------------|---------|----------------|---------------------------------------|----------------|-------|--------------------------|
| 3/2-way Foot-Operated Valves | A | 0 - 10 bar | G 1/8 (2 mm) | plastic (IXEF) | NBR | die-cast aluminium alloy |
| 3/2-way Foot-Operated Valves | | 0 - 10 bar | G 1/4 (8 mm) | plastic (IXEF) | NBR | die-cast aluminium alloy |
| 5/2-way Foot-Operated Valves | B | 0 - 10 bar | G 1/4 (8 mm) | plastic (IXEF) | NBR | die-cast aluminium alloy |

Ambient temperature range: From -15 °C to +50 °C

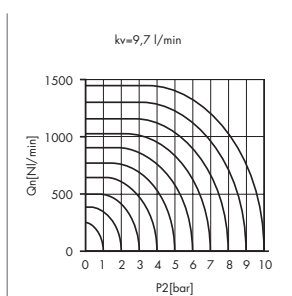
Protective Housing: Plastic (Polycarbonate)

Valve Type: Poppet valves

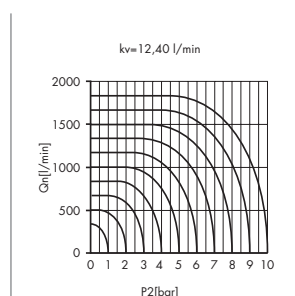
Mounting: Any position

Lubricant: Not required

Operating medium: 5 micron filtered, lubricated (or not) compressed air; also suitable for other media conforming to ISO-VG 10



Orifice 2 mm



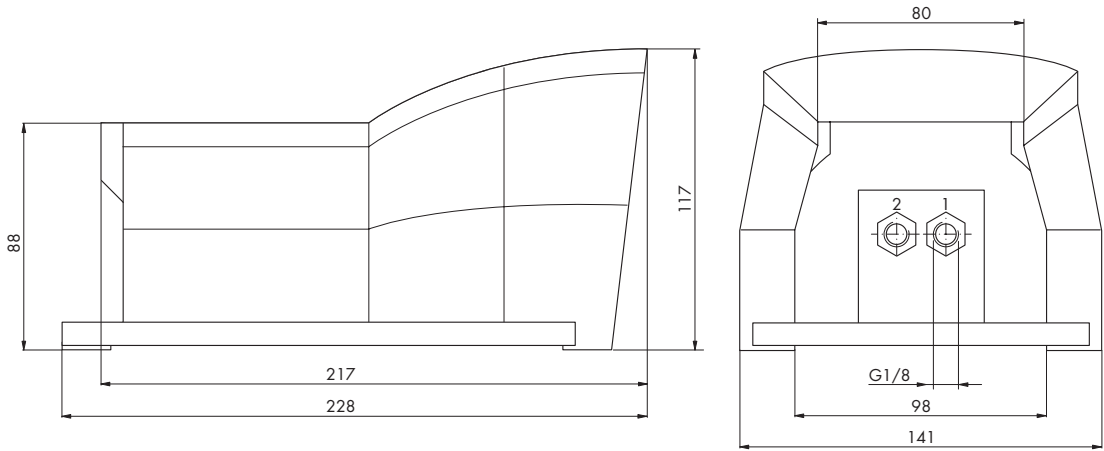
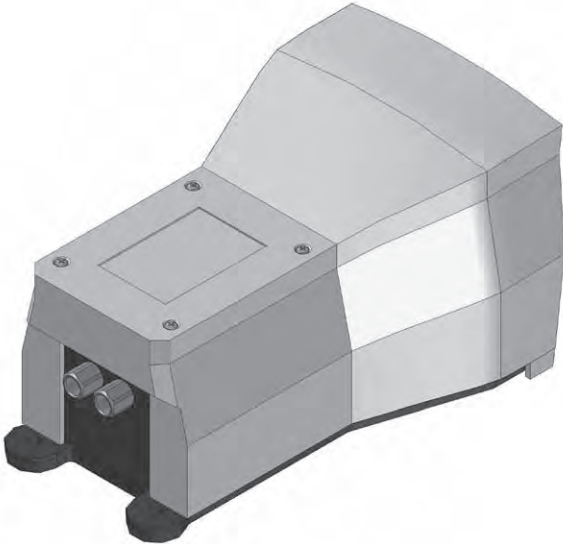
Orifice 8 mm

3/2-way Foot-Operated Valves - G 1/8 (D_{nom} 2 mm)

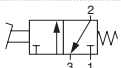
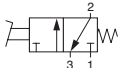
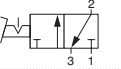
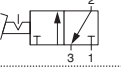
SECTION A

Actuation: Foot-operated

Return: Spring
Maintained position



SERIES 76
FOOT-OPERATED VALVES

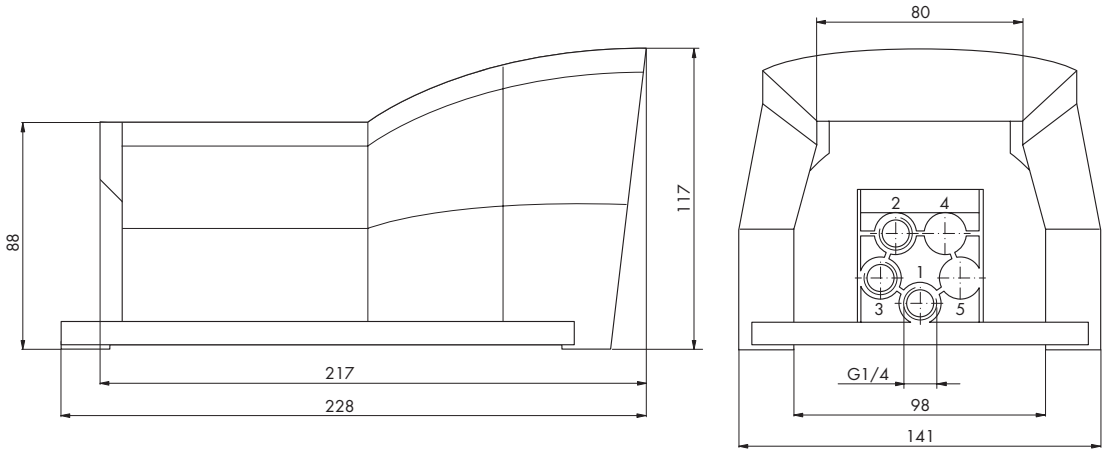
| Code | Return | Colours | Symbol |
|--------------|---------------------|---------|---|
| 76.026.68.21 | Spring | yellow |  |
| 76.026.69.21 | Spring | blue |  |
| 76.026.68.29 | Maintained position | yellow |  |
| 76.026.69.29 | Maintained position | blue |  |

3/2-way Foot-Operated Valves - G 1/4 (D_{nom} 8 mm)

SECTION A

Actuation: Foot-operated

Return: Spring
Maintained position



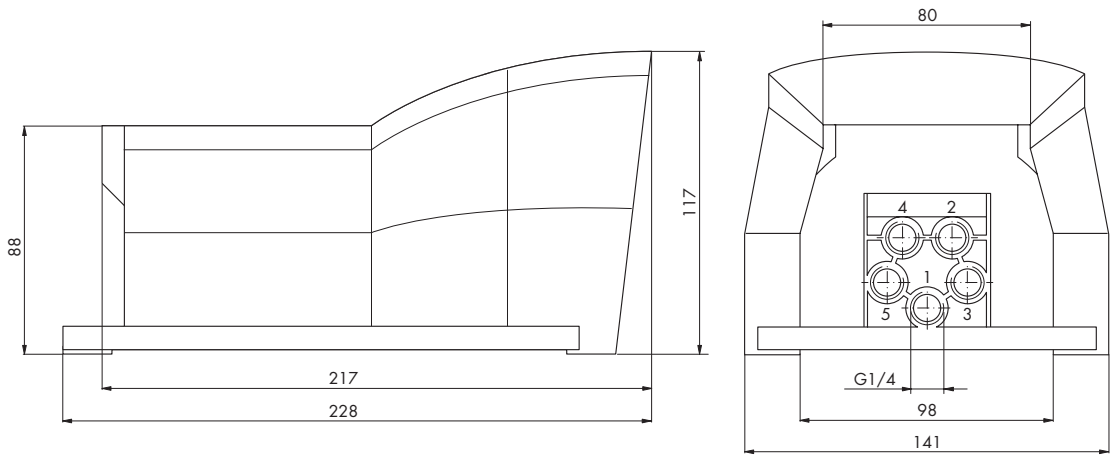
| Code | Return | Colours | Symbol |
|--------------|---------------------|---------|--------|
| 76.046.68.21 | Spring | yellow | |
| 76.046.69.21 | Spring | blue | |
| 76.046.68.29 | Maintained position | yellow | |
| 76.046.69.29 | Maintained position | blue | |

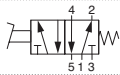
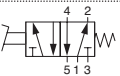
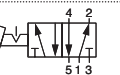
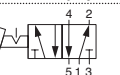
5/2-way Foot-Operated Valves - G 1/4 (D_{nom} 8 mm)

SECTION B

Actuation: Foot-operated

Return: Spring
Maintained position



| Code | Return | Colours | Symbol |
|--------------|---------------------|---------|---|
| 76.047.68.41 | Spring | yellow |  |
| 76.047.69.41 | Spring | blue |  |
| 76.047.68.49 | Maintained position | yellow |  |
| 76.047.69.49 | Maintained position | blue |  |

ATEX & VACUUM VALVES

General information

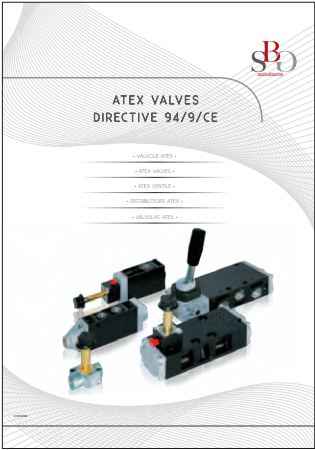
Many 76 series pneumatic and electrically operated directional control valves are available with ATEX certification.

ATEX certified valves are identified by the standard part number plus the suffix EX.

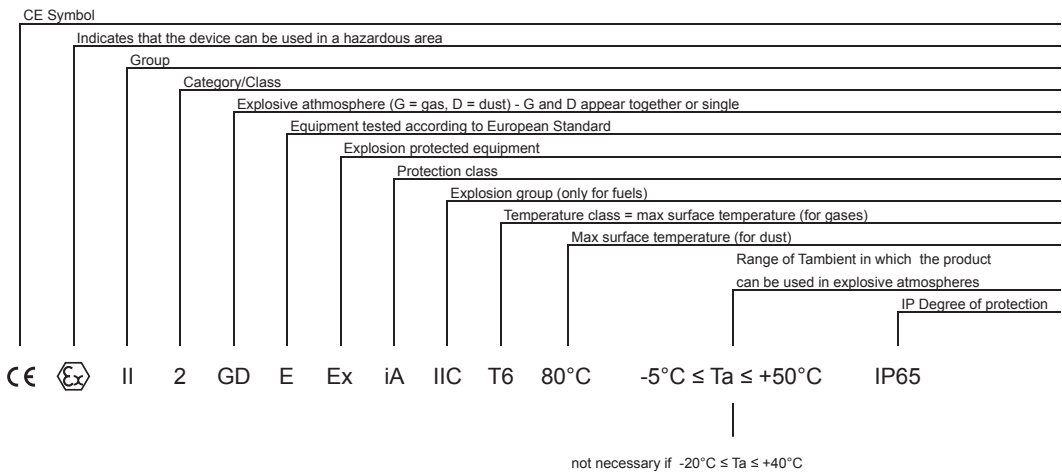
Example

Type: ISO 2
Pneumatic Valve
5/2-way
Poppet valves
Actuation: pneumatic
Return: spring

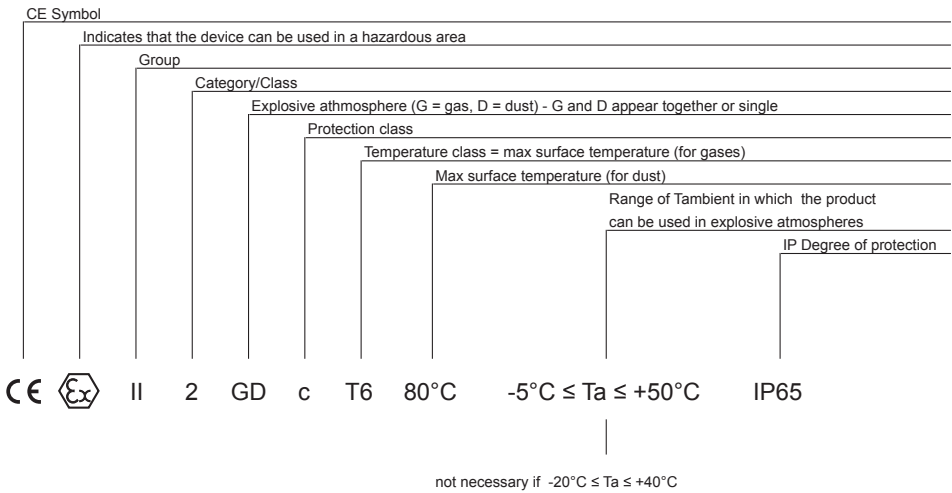
| | |
|------|-----------------|
| Code | 76.097.71.41.EX |
|------|-----------------|



ATEX classification for 76 series solenoids (electrical)



ATEX classification for 76 series pneumatic devices (mechanical)



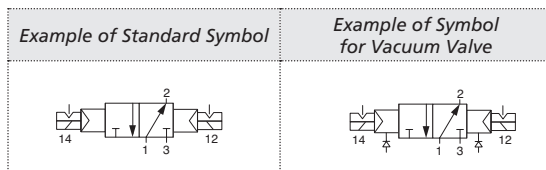
Vacuum Valves

SECTION D

The 76 series range of valves is also available for use with vacuum systems.
Please contact our sales department for other types of vacuum valves.

Actuation: Solenoid (External pneumatic auxiliary port)

Coil Type: 76.410.xx.xx (order separately)



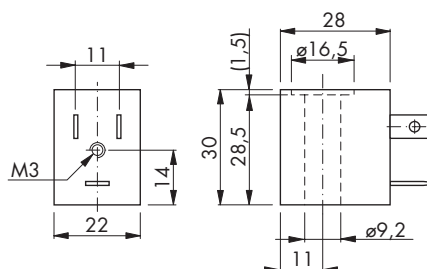
| Code | Function | Pressure connection | Pilot Pressure Connection | Valve Type | Housing | Actuation | Return |
|--------------|----------|---------------------|---------------------------|---------------|--|-----------|--------|
| 76.226.11.00 | 3/2 NO | G1/8 | M5 | Poppet valves | Die-cast and varnished aluminium alloy | Solenoid | Spring |
| 76.226.71.31 | | | | | | Pneumatic | Spring |
| 76.246.11.00 | | G1/4 | M5 | | | Solenoid | Spring |
| 76.246.71.31 | | | | | | Pneumatic | Spring |
| 76.266.11.00 | | G1/2 | G1/8 | | | Solenoid | Spring |
| 76.266.81.31 | | | | | | Pneumatic | Spring |
| 76.226.01.00 | 3/2 NC | G1/8 | M5 | Poppet valves | Die-cast and varnished aluminium alloy | Solenoid | Spring |
| 76.226.71.21 | | | | | | Pneumatic | Spring |
| 76.246.01.00 | | G1/4 | M5 | | | Solenoid | Spring |
| 76.246.71.21 | | | | | | Pneumatic | Spring |
| 76.266.01.00 | | G1/2 | G1/8 | | | Solenoid | Spring |
| 76.266.81.21 | | | | | | Pneumatic | Spring |

COILS

Coils Type 76 - DIN B

These standard coils are common to the whole range of 76 series valves (except for Cnomo models).

| | |
|--------------------------------|---|
| Electrical standards: | EN 60335-1, EN 60730-1 |
| Pull-in power: | Approx. 1.5 x nominal (AC) |
| Insulation class: | F (155 °C) |
| Duty cycle: | Continuous 100% |
| Copper enamelled wire: | Temperature class H (200 °C) |
| Bobbin materials: | PA 6.6 |
| Cover: | Die-cast material PA 6.6 |
| Electrical connections: | 3 spade connectors (6.3 x 0.8 DIN 46247) for plug in socket (order separately) - Type B |



Low Power Version (2.5 W)

| Code | Power | Voltage | Nominal resistance [Ω] | Nominal current [mA] | Return power | Pull-in time | Drop-out time |
|--------------|---|---------|------------------------|----------------------|--------------|--------------|---------------|
| 76.410.00.01 | (DC Version) approx. 2.5 W | 12 | 56 | 214 | 0.1 W | 15-20 ms | 15-20 ms |
| 76.410.00.02 | | 24 | 220 | 109 | | | |
| 76.410.00.03 | | 48 | 900 | 53 | | | |
| 76.410.00.04 | | 110 | 4300 | 25.5 | | | |
| 76.410.02.12 | (AC Version) approx. 4.0 / 3.5 VA (50/60Hz) | 24 | 56 | 167/146 | 1.5 VA | 15-20 ms | 15-20 ms |
| 76.410.02.13 | | 48 | 220 | 84/73 | | | |
| 76.410.02.14 | | 110 | 1280 | 37/32 | | | |
| 76.410.02.15 | | 230 | 4750 | 18/16 | | | |

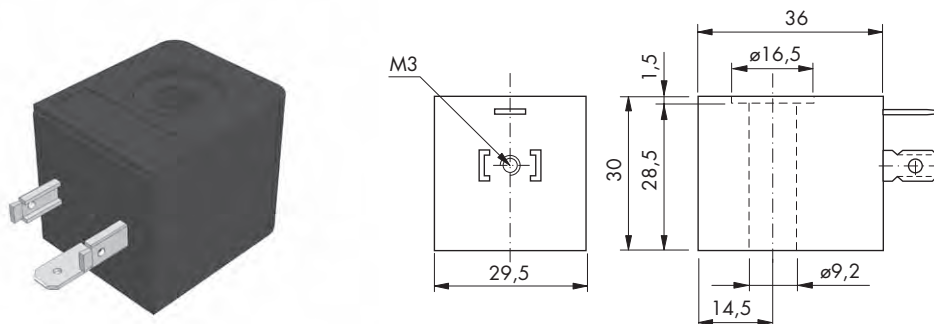
High Power Version (6 W)

| Code | Power | Voltage | Nominal resistance [Ω] | Nominal current [mA] | Return power | Pull-in time | Drop-out time |
|--------------|---|---------|------------------------|----------------------|--------------|--------------|---------------|
| 76.412.00.01 | (DC Version) approx. 6 W | 12 | 24 | 500 | 0.1 W | 15-20 ms | 15-20 ms |
| 76.412.00.02 | | 24 | 95 | 252 | | | |
| 76.412.00.03 | | 48 | 380 | 126 | | | |
| 76.412.00.04 | | 110 | 2200 | 50 | | | |
| 76.412.02.12 | (AC Version) approx. 8.0 / 6.7 VA (50/60Hz) | 24 | 32 | 430/363 | 1.5 VA | 15-20 ms | 15-20 ms |
| 76.412.02.13 | | 48 | 130 | 145/122 | | | |
| 76.412.02.14 | | 110 | 730 | 80/66 | | | |
| 76.412.02.15 | | 230 | 3000 | 40/34 | | | |

Coils Type 76 - DIN A

These coils are only used with 76 series Cnomo valves.

| | |
|--------------------------------|---|
| Electrical standards: | EN 60335-1, EN 60730-1 |
| Pull-in power: | Approx. 1.5 x nominal (AC) |
| Insulation class: | F (155 °C) |
| Duty cycle: | Continuous 100% |
| Copper enamelled wire: | Temperature class H (200 °C) |
| Bobbin materials: | PA 6.6 |
| Cover: | Die-cast material PA 6.6 |
| Electrical connections: | 3 spade connectors (6.3 x 0.8 DIN 46247) for plug in socket (order separately) - Type A |



| Code | Power | Voltage | Nominal resistance [Ω] | Nominal current [mA] | Return power | Pull-in time | Drop-out time |
|--------------|---|---------|------------------------|----------------------|--------------|--------------|---------------|
| 76.411.00.01 | (DC Version) approx. 2 W | 12 | 67 | 179 | 0.1 W | 15-20 ms | 15-20 ms |
| 76.411.00.02 | | 24 | 270 | 89 | | | |
| 76.411.00.03 | | 48 | 1060 | 45 | | | |
| 76.411.00.04 | | 110 | 4850 | 23 | | | |
| 76.411.02.12 | (AC Version) approx. 5.0 / 4.2 VA (50/60Hz) | 24 | 34 | 208/175 | 1.2 VA | 15-20 ms | 15-20 ms |
| 76.411.02.13 | | 48 | 135 | 104/88 | | | |
| 76.411.02.14 | | 110 | 780 | 46/38 | | | |
| 76.411.02.15 | | 230 | 3100 | 23/19 | | | |

PLUG-IN SOCKETS

Plug-in Socket - DIN 43650 Type A

Nominal Voltage AC/DC: 250V AC/DC

Nominal current: 10 A

Contact resistance: $\leq 5 \text{ m}\Omega$

Wire cross section: max 1.5 mm² (AWG 16)

Casing: PA6 GF

LED: none

No. of poles: 2+ground (earth position H12)

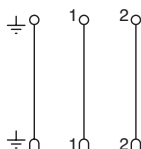
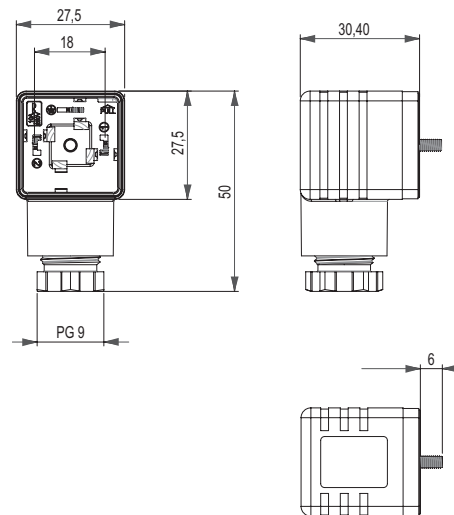
Cable screw connection: Pg 9

Protection: IP 65 (if correctly assembled)

Gasket: flat

Colour: black

Ambient temperature: from -40 °C to +100 °C



| Code | Voltage |
|-------------|------------|
| PAP.00.N000 | Up to 250V |

Plug-in Socket - DIN 43650 Type A (LED)

Nominal Voltage AC/DC: see order code

Nominal current: 4 A

Contact resistance: $\leq 5 \text{ m}\Omega$

Wire cross section: max 1.5 mm²

Casing: PA12

LED: yellow

No. of poles: 2+ground (earth position H12)

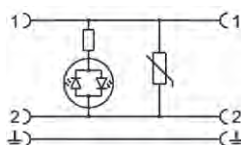
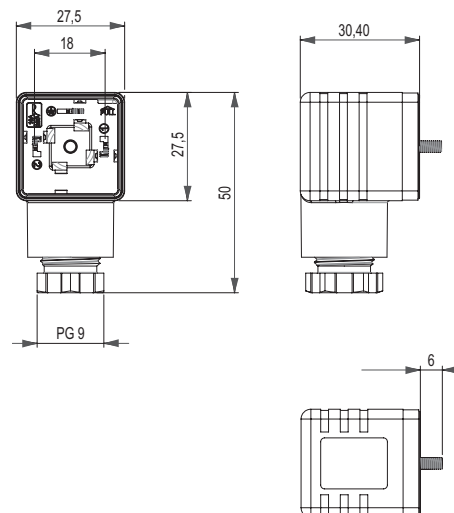
Cable screw connection: Pg 9

Protection: IP 65 (if correctly assembled)

Gasket: flat

Colour: transparent

Ambient temperature: from -20 °C to +80 °C



| Code | Voltage |
|-------------|---------|
| PAP.00.Y024 | 24V |
| PAP.00.Y115 | 115V |
| PAP.00.Y230 | 230V |

Plug-in Socket - DIN 43650 Type B

Nominal Voltage AC/DC: 250V AC/DC

Nominal current: 10 A

Contact resistance: $\leq 5 \text{ m}\Omega$

Wire cross section: max 1.5 mm² (AWG 16)

Casing: PA6 GF

LED: none

No. of poles: 2+ground (earth position H12)

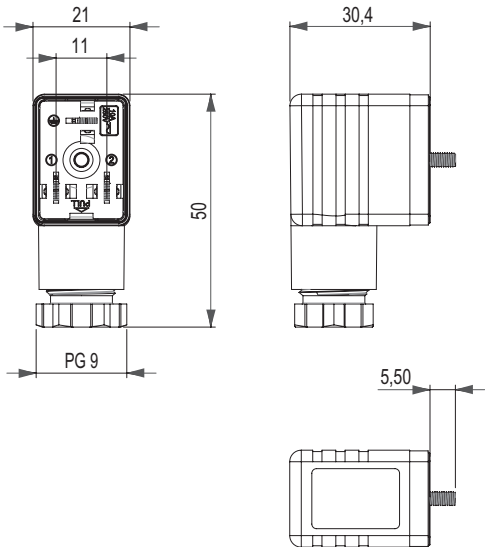
Cable screw connection: Pg 9

Protection: IP 65 (if correctly assembled)

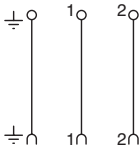
Gasket: flat

Colour: black

Ambient temperature: from -40 °C to +100 °C



| Code | Voltage |
|-------------|------------|
| PBP.00.N000 | Up to 250V |



Plug-in Socket - DIN 43650 Type B (LED)

Nominal Voltage AC/DC: see order code

Nominal current: 4 A

Contact resistance: $\leq 5 \text{ m}\Omega$

Wire cross section: max 1.5 mm²

Casing: PA12

LED: yellow

No. of poles: 2+ground (earth position H12)

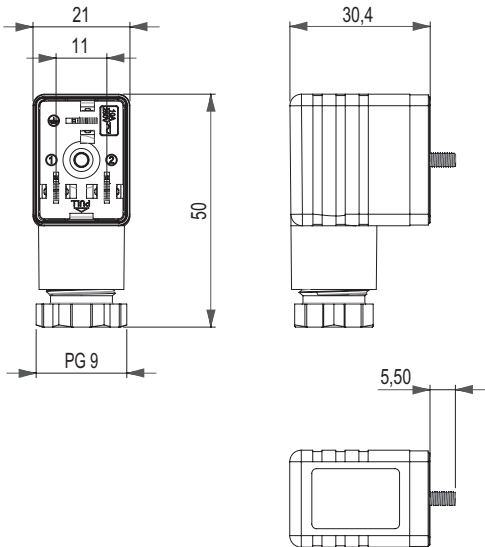
Cable screw connection: Pg 9

Protection: IP 65 (if correctly assembled)

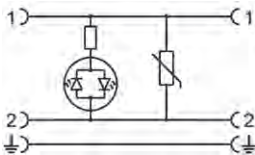
Gasket: flat

Colour: transparent

Ambient temperature: from -20 °C to +80 °C



| Code | Voltage |
|-------------|---------|
| PBP.00.Y024 | 24V |
| PBP.00.Y115 | 115V |
| PBP.00.Y230 | 230V |



PART No. INDEX

Part No. Index

| VALVE | TYPE | ID | PAGE |
|--------------|-------|--------|--------|
| 76.022.21.21 | MECH | 54575 | A - 19 |
| 76.022.21.22 | MECH | 131536 | A - 42 |
| 76.022.22.21 | MECH | 61083 | A - 19 |
| 76.022.23.10 | MECH | 54582 | A - 22 |
| 76.022.23.21 | MECH | 54582 | A - 20 |
| 76.022.23.22 | MECH | 64641 | A - 42 |
| 76.022.24.21 | MECH | 62129 | A - 20 |
| 76.022.25.00 | MECH | 61037 | A - 21 |
| 76.022.25.21 | MECH | 57928 | A - 21 |
| 76.022.25.22 | MECH | 78987 | A - 42 |
| 76.022.26.21 | MECH | 54588 | A - 21 |
| 76.022.27.00 | MECH | 61340 | A - 23 |
| 76.022.27.21 | MECH | 54613 | A - 23 |
| 76.022.27.22 | MECH | 64636 | A - 42 |
| 76.022.32.21 | MECH | 65733 | A - 19 |
| 76.022.33.21 | MECH | 64663 | A - 20 |
| 76.022.34.21 | MECH | 64763 | A - 21 |
| 76.022.41.21 | MECH | 131538 | A - 24 |
| 76.022.42.21 | MECH | 62335 | A - 24 |
| 76.022.43.21 | MECH | 131539 | A - 25 |
| 76.022.44.21 | MECH | 58100 | A - 25 |
| 76.022.45.21 | MECH | 63650 | A - 25 |
| 76.022.46.21 | MECH | 69526 | A - 26 |
| 76.022.47.21 | MECH | 62152 | A - 26 |
| 76.022.48.21 | MECH | 63150 | A - 27 |
| 76.022.49.21 | MECH | 62077 | A - 27 |
| 76.022.51.21 | MECH | 131540 | A - 24 |
| 76.022.52.21 | MECH | 78198 | A - 24 |
| 76.022.53.21 | MECH | 131541 | A - 25 |
| 76.022.54.21 | MECH | 71216 | A - 25 |
| 76.022.55.21 | MECH | 131542 | A - 25 |
| 76.022.56.21 | MECH | 73052 | A - 26 |
| 76.022.57.21 | MECH | 131543 | A - 26 |
| 76.022.58.21 | MECH | 70534 | A - 27 |
| 76.022.59.21 | MECH | 131544 | A - 27 |
| 76.022.61.21 | MECH | 62068 | A - 23 |
| 76.022.61.22 | MECH | 78988 | A - 42 |
| 76.022.61.23 | MECH | 64622 | A - 23 |
| 76.022.61.24 | MECH | 64621 | A - 23 |
| 76.022.62.21 | MECH | 61319 | A - 22 |
| 76.022.62.22 | MECH | 131545 | A - 42 |
| 76.022.62.23 | MECH | 73893 | A - 22 |
| 76.022.62.24 | MECH | 72538 | A - 22 |
| 76.022.65.21 | MECH | 64664 | A - 23 |
| 76.022.65.23 | MECH | 131546 | A - 23 |
| 76.022.65.24 | MECH | 131547 | A - 23 |
| 76.022.66.21 | MECH | 70553 | A - 22 |
| 76.022.66.23 | MECH | 131549 | A - 22 |
| 76.022.66.24 | MECH | 131550 | A - 22 |
| 76.022.71.21 | PNEUM | 58110 | A - 46 |
| 76.022.71.22 | PNEUM | 62147 | A - 46 |
| 76.023.21.41 | MECH | 54616 | A - 29 |
| 76.023.21.42 | MECH | 78990 | A - 42 |
| 76.023.22.41 | MECH | 63373 | A - 29 |
| 76.023.22.42 | MECH | 131553 | A - 42 |
| 76.023.23.10 | MECH | 131554 | A - 32 |
| 76.023.23.41 | MECH | 54639 | A - 30 |

| VALVE | TYPE | ID | PAGE |
|--------------|-------|--------|--------|
| 76.023.23.42 | MECH | 78991 | A - 42 |
| 76.023.24.41 | MECH | 64762 | A - 30 |
| 76.023.24.42 | MECH | 149100 | A - 42 |
| 76.023.25.40 | MECH | 62096 | A - 31 |
| 76.023.25.41 | MECH | 54647 | A - 31 |
| 76.023.25.42 | MECH | 78992 | A - 42 |
| 76.023.26.41 | MECH | 54660 | A - 31 |
| 76.023.27.40 | MECH | 54676 | A - 33 |
| 76.023.27.41 | MECH | 54666 | A - 33 |
| 76.023.27.42 | MECH | 61244 | A - 42 |
| 76.023.32.41 | MECH | 68681 | A - 29 |
| 76.023.33.41 | MECH | 64761 | A - 30 |
| 76.023.34.41 | MECH | 131556 | A - 31 |
| 76.023.41.41 | MECH | 131557 | A - 35 |
| 76.023.42.41 | MECH | 83473 | A - 35 |
| 76.023.42.42 | MECH | 131558 | A - 42 |
| 76.023.43.41 | MECH | 131559 | A - 36 |
| 76.023.44.41 | MECH | 75483 | A - 36 |
| 76.023.45.41 | MECH | 131560 | A - 36 |
| 76.023.46.41 | MECH | 66225 | A - 37 |
| 76.023.47.41 | MECH | 66226 | A - 37 |
| 76.023.48.41 | MECH | 68765 | A - 38 |
| 76.023.49.41 | MECH | 131561 | A - 38 |
| 76.023.51.41 | MECH | 131562 | A - 35 |
| 76.023.52.41 | MECH | 131563 | A - 35 |
| 76.023.53.41 | MECH | 131564 | A - 36 |
| 76.023.54.41 | MECH | 131565 | A - 36 |
| 76.023.55.41 | MECH | 131566 | A - 36 |
| 76.023.56.41 | MECH | 78199 | A - 37 |
| 76.023.57.41 | MECH | 65970 | A - 37 |
| 76.023.58.41 | MECH | 131567 | A - 38 |
| 76.023.59.41 | MECH | 131568 | A - 38 |
| 76.023.61.41 | MECH | 57931 | A - 33 |
| 76.023.61.42 | MECH | 131569 | A - 42 |
| 76.023.61.43 | MECH | 131570 | A - 33 |
| 76.023.61.44 | MECH | 131571 | A - 33 |
| 76.023.62.41 | MECH | 75341 | A - 32 |
| 76.023.62.42 | MECH | 131572 | A - 42 |
| 76.023.62.43 | MECH | 131573 | A - 32 |
| 76.023.62.44 | MECH | 131574 | A - 32 |
| 76.023.65.41 | MECH | 62546 | A - 33 |
| 76.023.65.43 | MECH | - | A - 33 |
| 76.023.65.44 | MECH | - | A - 33 |
| 76.023.66.41 | MECH | 56566 | A - 32 |
| 76.023.66.43 | MECH | - | A - 32 |
| 76.023.66.44 | MECH | 154957 | A - 32 |
| 76.023.71.41 | PNEUM | 61024 | A - 50 |
| 76.023.71.42 | PNEUM | 60950 | A - 50 |
| 76.023.71.47 | PNEUM | 61033 | A - 50 |
| 76.023.72.72 | PNEUM | 78200 | A - 52 |
| 76.023.91.00 | SOLE | 60987 | A - 8 |
| 76.023.92.00 | SOLE | 63651 | A - 8 |
| 76.023.94.00 | SOLE | 64473 | A - 8 |
| 76.023.95.00 | SOLE | 62340 | A - 8 |
| 76.024.02.00 | SOLE | 62881 | A - 8 |
| 76.024.05.00 | SOLE | 78201 | A - 8 |
| 76.024.12.00 | SOLE | 62882 | A - 8 |

Part No. Index

| VALVE | TYPE | ID | PAGE |
|--------------|-------------|--------|--------|
| 76.024.15.00 | SOLE | 63135 | A - 8 |
| 76.024.25.28 | MECH | 65244 | A - 34 |
| 76.024.25.29 | MECH | 62841 | A - 34 |
| 76.024.25.38 | MECH | 62842 | A - 34 |
| 76.024.25.39 | MECH | 54675 | A - 34 |
| 76.024.71.28 | PNEUM | 63375 | A - 50 |
| 76.024.71.38 | PNEUM | 62098 | A - 50 |
| 76.025.21.21 | MECH | 62539 | A - 18 |
| 76.025.23.21 | MECH | 57951 | A - 18 |
| 76.025.24.21 | MECH | 62540 | A - 18 |
| 76.026.01.00 | SOLE | 62883 | A - 4 |
| 76.026.11.00 | SOLE | 62140 | A - 4 |
| 76.026.21.21 | MECH | 54679 | A - 18 |
| 76.026.23.21 | MECH | 54698 | A - 18 |
| 76.026.24.21 | MECH | 62639 | A - 18 |
| 76.026.60.21 | MECH | 131582 | A - 41 |
| 76.026.60.31 | MECH | 78993 | A - 41 |
| 76.026.63.21 | MECH | 78994 | A - 41 |
| 76.026.63.31 | MECH | 78995 | A - 41 |
| 76.026.64.21 | MECH | 78203 | A - 41 |
| 76.026.64.31 | MECH | 131583 | A - 41 |
| 76.026.67.21 | MECH | 131584 | A - 41 |
| 76.026.67.31 | MECH | 131585 | A - 41 |
| 76.026.68.21 | FOOT-OPER. | 58101 | A - 82 |
| 76.026.68.29 | FOOT-OPER. | 62884 | A - 82 |
| 76.026.69.21 | FOOT-OPER. | 63291 | A - 82 |
| 76.026.69.29 | FOOT-OPER. | 62139 | A - 82 |
| 76.026.71.21 | PNEUM | 54704 | A - 44 |
| 76.026.71.31 | PNEUM | 66344 | A - 44 |
| 76.026.74.21 | MECH | 131586 | A - 41 |
| 76.027.60.10 | MECH | 131589 | A - 41 |
| 76.027.60.41 | MECH | 78205 | A - 41 |
| 76.027.60.42 | MECH | 131590 | A - 41 |
| 76.027.64.41 | MECH | 131591 | A - 41 |
| 76.027.67.41 | MECH | 131592 | A - 41 |
| 76.027.67.60 | MECH | 131593 | A - 41 |
| 76.027.70.41 | MECH | 131594 | A - 41 |
| 76.027.71.41 | PNEUM | 54737 | A - 48 |
| 76.027.71.42 | PNEUM | 63376 | A - 48 |
| 76.027.71.47 | PNEUM | 64958 | A - 48 |
| 76.027.74.41 | MECH | 131595 | A - 41 |
| 76.027.91.00 | SOLE | 60977 | A - 5 |
| 76.027.92.00 | SOLE | 62538 | A - 5 |
| 76.027.94.00 | SOLE | 65442 | A - 5 |
| 76.027.95.00 | SOLE | 66978 | A - 5 |
| 76.036.01.00 | DIRECTIONAL | 64116 | A - 79 |
| 76.036.71.21 | PNEUM | 62097 | A - 44 |
| 76.042.25.00 | MECH | 62885 | A - 28 |
| 76.042.25.21 | MECH | 54755 | A - 28 |
| 76.042.25.22 | MECH | 131597 | A - 42 |
| 76.042.27.00 | MECH | 61451 | A - 28 |
| 76.042.27.21 | MECH | 54756 | A - 28 |
| 76.043.25.40 | MECH | 61059 | A - 39 |
| 76.043.25.41 | MECH | 62066 | A - 39 |
| 76.043.25.42 | MECH | 131599 | A - 42 |
| 76.043.27.40 | MECH | 61341 | A - 39 |
| 76.043.27.41 | MECH | 61084 | A - 39 |

| VALVE | TYPE | ID | PAGE |
|--------------|------------|--------|--------|
| 76.043.27.42 | MECH | 66122 | A - 42 |
| 76.043.72.72 | PNEUM | 78207 | A - 52 |
| 76.043.81.41 | PNEUM | 62149 | A - 51 |
| 76.043.81.42 | PNEUM | 62150 | A - 51 |
| 76.043.81.47 | PNEUM | 66092 | A - 51 |
| 76.043.91.00 | SOLE | 61427 | A - 9 |
| 76.043.92.00 | SOLE | 62869 | A - 9 |
| 76.043.94.00 | SOLE | 62886 | A - 9 |
| 76.043.95.00 | SOLE | 62341 | A - 9 |
| 76.044.02.00 | SOLE | 63871 | A - 9 |
| 76.044.05.00 | SOLE | 73387 | A - 9 |
| 76.044.12.00 | SOLE | 58193 | A - 9 |
| 76.044.15.00 | SOLE | 61011 | A - 9 |
| 76.044.25.28 | MECH | 62146 | A - 40 |
| 76.044.25.29 | MECH | 62145 | A - 40 |
| 76.044.25.38 | MECH | 62554 | A - 40 |
| 76.044.25.39 | MECH | 61068 | A - 40 |
| 76.044.81.28 | PNEUM | 63379 | A - 51 |
| 76.044.81.38 | PNEUM | 67238 | A - 51 |
| 76.046.01.00 | SOLE | 60976 | A - 4 |
| 76.046.11.00 | SOLE | 62868 | A - 4 |
| 76.046.60.21 | MECH | 78208 | A - 41 |
| 76.046.60.31 | MECH | 131604 | A - 41 |
| 76.046.63.21 | MECH | 78999 | A - 41 |
| 76.046.64.21 | MECH | 131605 | A - 41 |
| 76.046.64.31 | MECH | 131606 | A - 41 |
| 76.046.67.21 | MECH | 131607 | A - 41 |
| 76.046.67.31 | MECH | 78209 | A - 41 |
| 76.046.68.21 | FOOT-OPER. | 64332 | A - 83 |
| 76.046.68.29 | FOOT-OPER. | 62888 | A - 83 |
| 76.046.69.21 | FOOT-OPER. | 60841 | A - 83 |
| 76.046.69.29 | FOOT-OPER. | 62172 | A - 83 |
| 76.046.70.21 | MECH | 67162 | A - 41 |
| 76.046.70.31 | MECH | 131609 | A - 41 |
| 76.046.71.21 | PNEUM | 54730 | A - 45 |
| 76.046.71.31 | PNEUM | 63088 | A - 45 |
| 76.046.74.21 | MECH | 131610 | A - 41 |
| 76.047.60.10 | MECH | 131611 | A - 41 |
| 76.047.60.41 | MECH | 131612 | A - 41 |
| 76.047.64.41 | MECH | 131613 | A - 41 |
| 76.047.67.41 | MECH | 131614 | A - 41 |
| 76.047.68.41 | FOOT-OPER. | 62890 | A - 84 |
| 76.047.68.49 | FOOT-OPER. | 54760 | A - 84 |
| 76.047.69.41 | FOOT-OPER. | 60842 | A - 84 |
| 76.047.69.49 | FOOT-OPER. | 61075 | A - 84 |
| 76.047.70.41 | MECH | 78210 | A - 41 |
| 76.047.74.41 | MECH | 131619 | A - 41 |
| 76.047.81.41 | PNEUM | 54763 | A - 48 |
| 76.047.81.42 | PNEUM | 54764 | A - 49 |
| 76.047.81.47 | PNEUM | 68960 | A - 49 |
| 76.047.91.00 | SOLE | 61009 | A - 6 |
| 76.047.92.00 | SOLE | 61008 | A - 6 |
| 76.047.94.00 | SOLE | 62887 | A - 6 |
| 76.047.95.00 | SOLE | 60996 | A - 6 |
| 76.066.01.00 | SOLE | 61019 | A - 4 |
| 76.066.11.00 | SOLE | 62843 | A - 4 |
| 76.066.81.21 | PNEUM | 62641 | A - 45 |

Part No. Index

| VALVE | TYPE | ID | PAGE |
|--------------|-------|--------|--------|
| 76.066.81.31 | PNEUM | 63939 | A - 45 |
| 76.067.81.41 | PNEUM | 63380 | A - 49 |
| 76.067.81.42 | PNEUM | 62891 | A - 49 |
| 76.067.81.47 | PNEUM | 63940 | A - 49 |
| 76.067.91.00 | SOLE | 62870 | A - 7 |
| 76.067.92.00 | SOLE | 62144 | A - 7 |
| 76.067.94.00 | SOLE | 66976 | A - 7 |
| 76.067.95.00 | SOLE | 66977 | A - 7 |
| 76.073.91.00 | NAMUR | 74247 | A - 62 |
| 76.073.93.00 | NAMUR | - | A - 62 |
| 76.074.02.00 | NAMUR | 131623 | A - 62 |
| 76.074.12.00 | NAMUR | 131624 | A - 62 |
| 76.077.91.00 | NAMUR | 72335 | A - 62 |
| 76.077.92.00 | NAMUR | 72917 | A - 62 |
| 76.083.71.41 | ISO | 64406 | A - 68 |
| 76.083.71.42 | ISO | 63277 | A - 68 |
| 76.083.71.47 | ISO | 66095 | A - 68 |
| 76.083.71.52 | ISO | 83381 | A - 70 |
| 76.083.72.72 | ISO | 78211 | A - 71 |
| 76.083.88.00 | SOLE | 78212 | A - 10 |
| 76.083.89.00 | SOLE | 64543 | A - 10 |
| 76.083.89.42 | PNEUM | 64985 | A - 53 |
| 76.083.90.00 | SOLE | 78213 | A - 11 |
| 76.083.90.42 | PNEUM | 131627 | A - 54 |
| 76.083.91.00 | ISO | 63268 | A - 64 |
| 76.083.92.00 | ISO | 63270 | A - 64 |
| 76.083.94.00 | ISO | 60971 | A - 65 |
| 76.083.95.00 | ISO | 60970 | A - 65 |
| 76.083.97.00 | ISO | 62141 | A - 66 |
| 76.083.98.00 | ISO | 62854 | A - 66 |
| 76.084.02.00 | ISO | 63279 | A - 64 |
| 76.084.05.00 | ISO | 63273 | A - 65 |
| 76.084.08.00 | ISO | 62856 | A - 66 |
| 76.084.12.00 | ISO | 65945 | A - 64 |
| 76.084.15.00 | ISO | 62537 | A - 65 |
| 76.084.18.00 | ISO | 62555 | A - 66 |
| 76.084.71.28 | ISO | 63416 | A - 68 |
| 76.084.71.38 | ISO | 74646 | A - 68 |
| 76.087.71.41 | ISO | 54795 | A - 68 |
| 76.087.71.42 | ISO | 54796 | A - 68 |
| 76.087.71.47 | ISO | 131632 | A - 68 |
| 76.087.71.52 | ISO | 79001 | A - 70 |
| 76.087.72.41 | ISO | 78214 | A - 70 |
| 76.087.91.00 | ISO | 63269 | A - 64 |
| 76.087.92.00 | ISO | 63272 | A - 64 |
| 76.087.94.00 | ISO | 63719 | A - 65 |
| 76.087.95.00 | ISO | 60969 | A - 65 |
| 76.087.97.00 | ISO | 64005 | A - 66 |
| 76.087.98.00 | ISO | 64764 | A - 66 |
| 76.093.71.41 | ISO | 62151 | A - 69 |
| 76.093.71.42 | ISO | 62099 | A - 69 |
| 76.093.71.47 | ISO | 75769 | A - 69 |
| 76.093.97.00 | ISO | 62143 | A - 67 |
| 76.093.98.00 | ISO | 62142 | A - 67 |
| 76.094.08.00 | ISO | 62857 | A - 67 |
| 76.094.18.00 | ISO | 62858 | A - 67 |
| 76.094.71.28 | ISO | 63384 | A - 69 |

| VALVE | TYPE | ID | PAGE |
|--------------|-------------|--------|--------|
| 76.094.71.38 | ISO | 62808 | A - 69 |
| 76.097.71.41 | ISO | 54811 | A - 69 |
| 76.097.71.42 | ISO | 54812 | A - 69 |
| 76.097.71.47 | ISO | 70399 | A - 69 |
| 76.097.97.00 | ISO | 63720 | A - 67 |
| 76.097.98.00 | ISO | 68961 | A - 67 |
| 76.123.71.41 | PLASTIC | 63144 | A - 57 |
| 76.123.71.42 | PLASTIC | 57860 | A - 57 |
| 76.123.71.47 | PLASTIC | 66762 | A - 57 |
| 76.123.91.00 | PLASTIC | 61428 | A - 56 |
| 76.123.92.00 | PLASTIC | 62339 | A - 56 |
| 76.123.93.00 | PLASTIC | 78217 | A - 56 |
| 76.124.02.00 | PLASTIC | 63872 | A - 56 |
| 76.124.12.00 | PLASTIC | 63873 | A - 56 |
| 76.124.71.28 | PLASTIC | 54829 | A - 57 |
| 76.124.71.38 | PLASTIC | 54836 | A - 57 |
| 76.127.71.41 | PLASTIC | 54837 | A - 57 |
| 76.127.71.42 | PLASTIC | 54859 | A - 57 |
| 76.127.71.47 | PLASTIC | 65441 | A - 57 |
| 76.127.91.00 | PLASTIC | 57837 | A - 56 |
| 76.127.92.00 | PLASTIC | 57836 | A - 56 |
| 76.127.93.00 | PLASTIC | 64013 | A - 56 |
| 76.136.01.00 | DIRECTIONAL | 63926 | A - 78 |
| 76.136.11.00 | DIRECTIONAL | 78218 | A - 78 |
| 76.136.21.00 | DIRECTIONAL | 71541 | A - 79 |
| 76.226.01.00 | VACUUM | 78219 | A - 86 |
| 76.226.11.00 | VACUUM | 131649 | A - 86 |
| 76.226.71.21 | VACUUM | 131650 | A - 86 |
| 76.226.71.31 | VACUUM | 131651 | A - 86 |
| 76.246.01.00 | VACUUM | 78220 | A - 86 |
| 76.246.11.00 | VACUUM | 78221 | A - 86 |
| 76.246.71.21 | VACUUM | 131652 | A - 86 |
| 76.246.71.31 | VACUUM | 131653 | A - 86 |
| 76.266.01.00 | VACUUM | 77315 | A - 86 |
| 76.266.11.00 | VACUUM | 78222 | A - 86 |
| 76.266.81.21 | VACUUM | 131654 | A - 86 |
| 76.266.81.31 | VACUUM | 131655 | A - 86 |
| 76.323.91.00 | SOLE | 131656 | A - 12 |
| 76.323.92.00 | SOLE | 131657 | A - 12 |
| 76.326.01.00 | SOLE | 131658 | A - 12 |
| 76.326.11.00 | SOLE | 79006 | A - 12 |
| 76.327.91.00 | SOLE | 131659 | A - 12 |
| 76.327.92.00 | SOLE | 131660 | A - 12 |
| 76.343.91.00 | SOLE | 131661 | A - 12 |
| 76.343.92.00 | SOLE | 131662 | A - 12 |
| 76.344.02.00 | SOLE | 131663 | A - 12 |
| 76.346.01.00 | SOLE | 100484 | A - 12 |
| 76.346.11.00 | SOLE | 79007 | A - 12 |
| 76.347.91.00 | SOLE | 131664 | A - 12 |
| 76.347.92.00 | SOLE | 131665 | A - 12 |
| 76.366.01.00 | SOLE | 131666 | A - 12 |
| 76.366.11.00 | SOLE | 131667 | A - 12 |
| 76.367.91.00 | SOLE | 79008 | A - 12 |
| 76.367.92.00 | SOLE | 79009 | A - 12 |
| 76.367.95.00 | SOLE | 131668 | A - 12 |
| 76.383.97.00 | SOLE | 131669 | A - 12 |
| 76.384.05.00 | SOLE | 79010 | A - 12 |

Part No. Index

| VALVE | TYPE | ID | PAGE |
|--------------|---------|--------|--------|
| 76.387.94.00 | SOLE | 131670 | A - 12 |
| 76.387.97.00 | SOLE | 79011 | A - 12 |
| 76.387.98.00 | SOLE | 131671 | A - 12 |
| 76.393.97.00 | SOLE | 131672 | A - 12 |
| 76.393.98.00 | SOLE | 131673 | A - 12 |
| 76.397.97.00 | SOLE | 131674 | A - 12 |
| 76.410.00.01 | COILS | 62154 | A - 87 |
| 76.410.00.02 | COILS | 57843 | A - 87 |
| 76.410.00.03 | COILS | 61976 | A - 87 |
| 76.410.00.04 | COILS | 60915 | A - 87 |
| 76.410.02.12 | COILS | 60972 | A - 87 |
| 76.410.02.13 | COILS | 61086 | A - 87 |
| 76.410.02.14 | COILS | 62499 | A - 87 |
| 76.410.02.15 | COILS | 55476 | A - 87 |
| 76.411.00.01 | COILS | 62859 | A - 88 |
| 76.411.00.02 | COILS | 62860 | A - 88 |
| 76.411.00.03 | COILS | 62861 | A - 88 |
| 76.411.00.04 | COILS | 63620 | A - 88 |
| 76.411.02.12 | COILS | 62862 | A - 88 |
| 76.411.02.13 | COILS | 67908 | A - 88 |
| 76.411.02.14 | COILS | 62864 | A - 88 |
| 76.411.02.15 | COILS | 55482 | A - 88 |
| 76.412.00.01 | COILS | 64117 | A - 87 |
| 76.412.00.02 | COILS | 64338 | A - 87 |
| 76.412.00.03 | COILS | 64337 | A - 87 |
| 76.412.00.04 | COILS | 78772 | A - 87 |
| 76.412.02.12 | COILS | 64573 | A - 87 |
| 76.412.02.13 | COILS | 64572 | A - 87 |
| 76.412.02.14 | COILS | 70003 | A - 87 |
| 76.412.02.15 | COILS | 64118 | A - 87 |
| 76.420.00.01 | PLASTIC | 55489 | A - 58 |
| 76.420.00.05 | PLASTIC | 57918 | A - 58 |
| 76.420.00.06 | PLASTIC | 55496 | A - 58 |
| 76.420.00.09 | SOLE | 63360 | A - 14 |
| 76.420.00.11 | ISO | 55403 | A - 72 |
| 76.420.00.12 | ISO | 55404 | A - 72 |
| 76.420.00.13 | ISO | 55406 | A - 72 |
| 76.420.00.14 | ISO | 55417 | A - 72 |
| 76.420.00.15 | ISO | 58003 | A - 74 |
| 76.420.00.16 | ISO | 55454 | A - 74 |
| 76.420.00.17 | ISO | 62865 | A - 74 |
| 76.420.00.18 | ISO | 55436 | A - 74 |
| 76.420.00.19 | ISO | 63652 | A - 74 |
| 76.420.00.20 | ISO | 63274 | A - 74 |
| 76.420.00.21 | ISO | 62633 | A - 74 |
| 76.420.00.22 | ISO | 55458 | A - 74 |
| 76.420.00.23 | ISO | 62866 | A - 74 |
| 76.420.00.24 | ISO | 55460 | A - 74 |
| 76.420.00.25 | ISO | 63653 | A - 74 |
| 76.420.00.26 | ISO | 63654 | A - 74 |
| 76.420.00.27 | ISO | 58051 | A - 73 |

| VALVE | TYPE | ID | PAGE |
|----------------------|-------------|--------|--------|
| 76.420.00.28 | ISO | 62153 | A - 73 |
| 76.420.00.29 | ISO | 58052 | A - 73 |
| 76.420.00.30 | ISO | 62867 | A - 73 |
| 76.420.00.31 | ISO | 55468 | A - 75 |
| 76.420.00.32 | ISO | 55473 | A - 75 |
| 76.420.00.33 | ISO | 58054 | A - 75 |
| 76.420.00.34 | SOLE | 58056 | A - 15 |
| 76.420.00.35 | SOLE | 63275 | A - 15 |
| 76.420.00.36 | SOLE | 58061 | A - 15 |
| 76.420.00.36 | PLASTIC | 58061 | A - 58 |
| 76.420.00.37 | SOLE | 63276 | A - 15 |
| 76.420.00.37 | PLASTIC | 63276 | A - 58 |
| 76.420.00.38 | ISO | 62871 | A - 75 |
| 76.420.00.39 | ISO | 62872 | A - 75 |
| 76.420.00.46 | SOLE | 68312 | A - 13 |
| 76.420.00.47 | SOLE | 78773 | A - 13 |
| 76.420.00.48 | SOLE | 78774 | A - 13 |
| 76.420.00.49 | SOLE | 78775 | A - 13 |
| 76.420.00.54 | MECH | 81699 | A - 21 |
| 76.420.00.54 | MECH | 81699 | A - 34 |
| 76.420.00.55 | MECH | 131682 | A - 28 |
| 76.420.00.55 | MECH | 131682 | A - 40 |
| 76.420.00.75 | ISO | 62518 | A - 73 |
| 76.420.00.85 | ISO | 65119 | A - 73 |
| 76.420.00.93 | ISO | 78782 | A - 72 |
| 76.420.00.98 | PLASTIC | 78783 | A - 58 |
| 76.420.00.99 | PLASTIC | 78784 | A - 58 |
| 76.420.01.xx (02-12) | SOLE | - | A - 14 |
| 76.420.02.xx (01-12) | SOLE | - | A - 13 |
| 76.420.03.01 | DIRECTIONAL | 63576 | A - 78 |
| 76.420.03.03 | DIRECTIONAL | 63929 | A - 78 |
| 76.420.03.05 | DIRECTIONAL | 78787 | A - 78 |
| 76.440.00.10 | SOLE | 63580 | A - 14 |
| 76.440.01.xx (02-12) | SOLE | - | A - 14 |
| 76.440.02.xx (01-10) | SOLE | - | A - 13 |
| 76.523.91.00 | PLASTIC | 79013 | A - 60 |
| 76.524.02.00 | PLASTIC | 131688 | A - 60 |
| 76.527.91.00 | PLASTIC | 78223 | A - 60 |
| 76.527.92.00 | PLASTIC | 131689 | A - 60 |
| KE.023.71.41 | PNEUM | 64642 | A - 47 |
| KE.023.71.42 | PNEUM | 81652 | A - 47 |
| KE.023.71.47 | PNEUM | 126071 | A - 47 |
| PAP.00.N000 | PLUG-IN | - | A - 89 |
| PAP.00.Y024 | PLUG-IN | - | A - 89 |
| PAP.00.Y115 | PLUG-IN | - | A - 89 |
| PAP.00.Y230 | PLUG-IN | - | A - 89 |
| PBP.00.N000 | PLUG-IN | - | A - 90 |
| PBP.00.Y024 | PLUG-IN | - | A - 90 |
| PBP.00.Y115 | PLUG-IN | - | A - 90 |
| PBP.00.Y230 | PLUG-IN | - | A - 90 |



BSG Kuhnke Solutions S.r.l.

Via R. Colpi, 38
35010 Limena (PD) - Italy

Tel. +39 049 86 57 711
Fax +39 049 88 41 571

sales@bsgkuhnkesolutions.com
www.bsgkuhnkesolutions.com