Series K directly operated solenoid valves

3/2-way - Normally Closed (NC) and Normally Open (NO)

Series K directly operated solenoid valves are available as 3/2-way either NC or NO versions. Both versions can be mounted on single sub-bases or manifolds and they are equipped with a manual override which makes the plants setting easier.

» Can be mounted on a single base (M5 connections) or on manifold (M5 connections).

### TECHNICAL FEATURES

<table>
<thead>
<tr>
<th>Function</th>
<th>3/2 NC - 3/2 NO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operation</td>
<td>direct acting poppet type</td>
</tr>
<tr>
<td>Pneumatic connections</td>
<td>on subbase by means of screws</td>
</tr>
<tr>
<td>Nominal diameter</td>
<td>0.85 mm</td>
</tr>
<tr>
<td>Nominal flow</td>
<td>10 Nl/min (air @ 6 bar ΔP 1 bar)</td>
</tr>
<tr>
<td>Flow coefficient kV (l/min)</td>
<td>0.15</td>
</tr>
<tr>
<td>Operating pressure</td>
<td>0 ÷ 5 (NO) … 7 bar (NC)</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>0°C ÷ 50°C</td>
</tr>
<tr>
<td>Media</td>
<td>filtered compressed air, un lubricated, according to ISO 8573-1 class 3.4.3, inert gas</td>
</tr>
<tr>
<td>Response time</td>
<td>ON &lt;10 msec – OFF &lt;10 msec</td>
</tr>
<tr>
<td>Manual override</td>
<td>monostable button</td>
</tr>
<tr>
<td>Installation</td>
<td>in any position</td>
</tr>
</tbody>
</table>

### MATERIALS IN CONTACT WITH THE MEDIUM

<table>
<thead>
<tr>
<th>Body</th>
<th>PBT technopolymer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seals</td>
<td>NBR (FKM on demand)</td>
</tr>
<tr>
<td>Internal parts</td>
<td>stainless steel</td>
</tr>
</tbody>
</table>

### ELECTRICAL FEATURES

<table>
<thead>
<tr>
<th>Voltage</th>
<th>24 V DC - 12 V DC - 6 V DC - other voltages on demand</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage tolerance</td>
<td>±10%</td>
</tr>
<tr>
<td>Power consumption</td>
<td>0.9 W, 0.95 W with LED</td>
</tr>
<tr>
<td>Duty cycle</td>
<td>ED 100%</td>
</tr>
<tr>
<td>Electrical connection</td>
<td>connector - thin cables L = 300 mm</td>
</tr>
<tr>
<td>Protection class</td>
<td>IP50</td>
</tr>
</tbody>
</table>

Special versions available on demand
## CODING EXAMPLE

<table>
<thead>
<tr>
<th>K</th>
<th>0</th>
<th>00</th>
<th>-</th>
<th>3</th>
<th>0</th>
<th>3</th>
<th>-</th>
<th>K</th>
<th>2</th>
<th>3</th>
</tr>
</thead>
</table>

**K**

**SERIES**

0  BODY DESIGN:
   0 = single sub-base (only M5) or interface
   1 = manifold

00  NUMBER OF POSITIONS:
   00 = interface
   01 = single base (only M5)
   02 + 99 = manifold number of positions

3  NUMBER OF WAYS - FUNCTIONS:
   0 = manifold or single base
   3 = 3-way NC
   4 = 3-way NO
   5 = 3-way NC electric part revolved by 180°
   6 = 3-way NO electric part revolved by 180°

0  PORTS:
   0 = interface
   2 = M5 side outlets

3  NOMINAL DIAMETER:
   3 = ø 0.65

K  MATERIALS:
   K = PBT body, HNBR poppet
   F = PBT body, FKM poppet

2  ELECTRICAL CONNECTION:
   1 = 90° connection with protection and led
   2 = 90° connection with protection
   3 = 90° connection
   B = in-line connection with protection and led
   C = in-line connection with protection
   D = in-line connection
   F = cable (300mm) with protection and led
   G = cable (300mm) with protection
   H = cable only (300mm)

3  SOLENOID VOLTAGE:
   1 = 6V DC
   2 = 12V DC
   3 = 24V DC

FIXING:
   = standard version for mounting on plastic interface
   M = with screws for mounting on metal interfaces (on demand).

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3/2-way NC solenoid valve - 90° electrical connection

Supplied with:

1x interface seal
2x screws
CONTROL > Series K solenoid valves

3/2-way NO solenoid valve - 90° electrical connection

Supplied with:
1x interface for NO version  
   (connections 1 and 3 are inverted)  
2x interface seals for NO version  
2x screws

3/2-way NO solenoid valve - 90° electrical connection

Supplied with:
1x interface for NO version  
   (connections 1 and 3 are inverted)  
2x interface seals for NO version  
2x screws

3/2-way NC solenoid valve - in-line electrical connection

Supplied with:
1x interface seal  
2x screws

3/2-way NO solenoid valve - in-line electrical connection

Supplied with:
1x interface for NO version  
   (connections 1 and 3 are inverted)  
2x interface seals for NO version  
2x screws

The interface for NO version is required if the valve is mounted on a manifold. In case of a single or customised base, on the contrary, it is necessary to use screws M1.6x16 (mod. K303/61).
3/2-way NC solenoid valve with cable 300 mm
Supplied with:
1x interface seal
2x screws

3/2-way NO solenoid valve (with cable 300 mm)
Supplied with:
1x interface for NO version
(connections 1 and 3 are inverted)
2x interface seals for NO version
2x screws

The interface for NO version is required if the valve is mounted on a manifold. In case of a single or customised base, on the contrary, it is necessary to use screws M1,6x16 (mod. K303/61).

Single sub-base
Note: use solenoid valves with mounting screws on metal interfaces (see codification).
Manifold Mod. K1**-02

** Number of positions
With side outlets and conveyed inlet and exhaust.

Note: use solenoid valves with mounting screws on metal interfaces (see codification).

<table>
<thead>
<tr>
<th>Mod.</th>
<th>A</th>
<th>B</th>
<th>Number of ports</th>
</tr>
</thead>
<tbody>
<tr>
<td>K102-02</td>
<td>35.5</td>
<td>26.5</td>
<td>2</td>
</tr>
<tr>
<td>K103-02</td>
<td>46</td>
<td>37</td>
<td>3</td>
</tr>
<tr>
<td>K104-02</td>
<td>56.5</td>
<td>47.5</td>
<td>4</td>
</tr>
<tr>
<td>K105-02</td>
<td>67</td>
<td>58</td>
<td>5</td>
</tr>
<tr>
<td>K106-02</td>
<td>77.5</td>
<td>68.5</td>
<td>6</td>
</tr>
<tr>
<td>K107-02</td>
<td>88</td>
<td>79</td>
<td>7</td>
</tr>
<tr>
<td>K108-02</td>
<td>98.5</td>
<td>89.5</td>
<td>8</td>
</tr>
<tr>
<td>K109-02</td>
<td>109</td>
<td>100</td>
<td>9</td>
</tr>
<tr>
<td>K110-02</td>
<td>119.5</td>
<td>110.5</td>
<td>10</td>
</tr>
</tbody>
</table>

Excluder tap

Supplied with:
1x excluder tap
1x interface seal
2x screws

<table>
<thead>
<tr>
<th>Mod.</th>
<th>Description</th>
<th>Colour</th>
<th>L = cable length (mm)</th>
<th>Cable holding</th>
</tr>
</thead>
<tbody>
<tr>
<td>K000-TP</td>
<td>Connector Mod. 121-8..</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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