Series 1 and 3 mechanically operated valves

Series 1: 3/2-way and 5/2-way, ports G1/8 and G1/4
Series 3: 3/2-way and 5/2-way, ports G1/8

These mechanically operated valves have been designed with three different types of actuation:
- plunger
- lever/roller
- unidirectional lever/roller
In each case, return is triggered by a mechanical spring.

Series 3 3/2-way monostable valves are normally closed in the rest position when pressure is supplied in 1 and are normally open when pressure is supplied on connection 3, the user port 2 remaining unchanged.

Series 3 5/2-way valves can be supplied via the ports 3 and 5 with two different pressures if a cylinder has to be operated using a delivery pressure which is different from the return pressure.

GENERAL DATA

<table>
<thead>
<tr>
<th>Construction</th>
<th>Spool-type (Series 3), poppet-type (Series 1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Valve group</td>
<td>3/2, 5/2 way/pos.</td>
</tr>
<tr>
<td>Material</td>
<td>Aluminium body, poppet OT58, stainless steel spool, NBR seals</td>
</tr>
<tr>
<td>Ports</td>
<td>G1/8, G1/4</td>
</tr>
<tr>
<td>Ambient temperature</td>
<td>0°C to 60°C</td>
</tr>
<tr>
<td>Medium temperature</td>
<td>0°C to 50°C</td>
</tr>
<tr>
<td>Operating pressure</td>
<td>See models</td>
</tr>
<tr>
<td>Fluid</td>
<td>Filtered air, without lubrication. If lubricated air is used, it is recommended to use ISO VG32 oil. Once applied the lubrication should never be interrupted.</td>
</tr>
</tbody>
</table>
### CODING EXAMPLE

<table>
<thead>
<tr>
<th>3</th>
<th>3</th>
<th>8</th>
<th>-</th>
<th>94</th>
<th>5</th>
</tr>
</thead>
</table>
| **SERIES:** & 1 & & & & & 
| & 3 & & & & & 
| **FUNCTION:** & 3 = 3/2 ways NC & 4 = 3/2 ways NO (only Series 1) & 5 = 5/2 ways & & & 
| **PORTS:** & 8 = G1/8 & 4 = G1/4 (only Series 1) & & & & 
| **ACTUATION:** & 94 = plunger & 95 = lever/roller & 96 = unidirectional roller & & & 
| **RESETTING:** & 5 = spring return & & & & & 

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**Valve Mod. 338-945**

Operating pressure = -0.9 ÷ 10 bar  
Flow rate = 700 Nl/min.  
Actuating force = 32N

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[Diagram of valve mod. 338-945]
**Valve**

- Operating pressure = -0,9 + 10 bar
- Flow rate = 700 Nl/min.
- Actuating force = 35N

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**Valve**

- Operating pressure = -0,9 + 10 bar
- Flow rate = 700 Nl/min.
- Actuating force = 15N

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**Valve**

- Operating pressure = -0,9 + 10 bar
- Flow rate = 700 Nl/min.
- Actuating force = 17N
Valve
Operating pressure = -0.9 ÷ 10 bar
Flow rate = 700 Nl/min.
Actuating force = 15N

Valve
Operating pressure = -0.9 ÷ 10 bar
Flow rate = 700 Nl/min.
Actuating force = 16N

Valve
Operating pressure = 0 ÷ 10 bar
Flow rate = 500 Nl/min.
Actuating force at 6 bar = 70N

Valve
Operating pressure = 0 ÷ 10 bar
Flow rate = 500 Nl/min.
Actuating force at 6 bar = 70N
Valve
Operating pressure = 0 ÷ 10 bar
Flow rate = 500 Nl/min.
Actuating force at 6 bar = 120N

Valve
Operating pressure = 0 ÷ 10 bar
Flow rate = 500 Nl/min.
Actuating force at 6 bar = 36N

Valve
Operating pressure = 0 ÷ 10 bar
Flow rate = 500 Nl/min.
Actuating force at 6 bar = 92N

Valve
Operating pressure = 0 ÷ 10 bar
Flow rate = 500 Nl/min.
Actuating force at 6 bar = 41N
### Valve

**Mod. 134-945**

- Operating pressure: 0 ÷ 10 bar
- Flow rate: 1250 Nl/min.
- Actuating force at 6 bar: 64N

### Valve

**Mod. 154-945**

- Operating pressure: 0 ÷ 10 bar
- Flow rate: 1250 Nl/min.
- Actuating force at 6 bar: 147N

### Valve

**Mod. 134-955**

- Operating pressure: 0 ÷ 10 bar
- Flow rate: 1250 Nl/min.
- Actuating force at 6 bar: 41N

### Valve

**Mod. 154-955**

- Operating pressure: 0 ÷ 10 bar
- Flow rate: 1250 Nl/min.
- Actuating force at 6 bar: 110N