LIMIT SWITCH

Nominal size DN 10–100

Features
• high-quality materials
• reliable and low-maintenance

Attention
• Limit switch design 1:
  for diaphragm valves MV 308 and MV 309
  for diaphragm valve MV 310 for nominal size DN 10–50
• Limit switch design 2:
  for diaphragm valves MV 310 for nominal size DN 65–100

www.asv-stuebbe.com/produkte/armaturen
Limit switch

Application
• Limit switches for signaling »Open/Closed«

<table>
<thead>
<tr>
<th>Diaphragm valve</th>
<th>Nominal size</th>
<th>Design 1</th>
<th>Design 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>MV 308</td>
<td>DN 12–15</td>
<td>x</td>
<td></td>
</tr>
<tr>
<td>MV 309</td>
<td>DN 15–32</td>
<td>x</td>
<td></td>
</tr>
<tr>
<td>MV 310</td>
<td>DN 15–50</td>
<td>x</td>
<td></td>
</tr>
<tr>
<td></td>
<td>DN 65–100</td>
<td></td>
<td>x</td>
</tr>
</tbody>
</table>

Options
Limit switches:
• Micro switch VCSP
• Inductive proximity switch NJ2-V3-N (NAMUR)
• Inductive proximity switch NBB2-V3-E2 (PNP)

Housing
• Limit switch design 1: PVC-U
• Limit switch design 2: PP

Bonnet
• Limit switch design 1: PVC-U-transparent
• Limit switch design 2: PC (Makrolon)

Sealing element
• EPDM

Screws
• stainless steel (1.4301)

Electrical connection
• Cable connection, type 1: PG 16
• Cable connection, type 2: PG 13.5

Protection class
• IP 65
Limit switch

Technical data

Switch type | VCSP for limit switch design 1: | for limit switch design 2:
--- | --- | ---
Type | - | 024.85
Operating voltage | 125–250 V AC | 250 V AC
Maximum current | 10 A (250 V AC); 3 A (24 V DC) | 6 A
Protection class | IP 44 | IP 65
Temperature | -20–60 °C | -20–60 °C

Switch type | Nj2-V3-N
--- | ---
Type | 024.86
Switching function | NAMUR
Nominal voltage | 8.2 V
Current consumption | 1–3 mA
Switching frequency | 0–1000 Hz
Protection class | IP 65
Temperature | -20–60 °C
ATEX marking, switch | II 1G Ex ia IIC T6...T1 Ga

Switch type | NBB2-V3-E2
--- | ---
Type | 024.87
Switching function | PNP
Operating voltage | 24 V DC (10–30 V)
Output current max. | 100 mA
Switching frequency | 0–1000 Hz
Idle current | < 15 mA
Display | yellow LED
Protection class | IP 65
Temperature | -20–60 °C

Description

A | Connection »OPEN«
B | Connection »CLOSED«

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We reserve the right to make technical changes.
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Limit switch

Limit switch design 1:

Limit switch design 2:

<table>
<thead>
<tr>
<th>Type</th>
<th>VCSP</th>
<th>NJ2-V3-N</th>
<th>NBB2-V3-E2</th>
</tr>
</thead>
<tbody>
<tr>
<td>D</td>
<td>82.0</td>
<td>82.0</td>
<td>82.0</td>
</tr>
<tr>
<td>H</td>
<td>100.0</td>
<td>100.0</td>
<td>100.0</td>
</tr>
<tr>
<td>I</td>
<td>64.0</td>
<td>64.0</td>
<td>64.0</td>
</tr>
</tbody>
</table>

all dimensions in mm / * dimensions in inch

<table>
<thead>
<tr>
<th>Type</th>
<th>VCSP</th>
<th>NJ2-V3-N</th>
<th>NBB2-V3-E2</th>
</tr>
</thead>
<tbody>
<tr>
<td>D</td>
<td>95.0</td>
<td>95.0</td>
<td>95.0</td>
</tr>
<tr>
<td>h</td>
<td>106.0</td>
<td>106.0</td>
<td>106.0</td>
</tr>
<tr>
<td>H</td>
<td>120.0</td>
<td>120.0</td>
<td>120.0</td>
</tr>
<tr>
<td>I</td>
<td>60.0</td>
<td>60.0</td>
<td>60.0</td>
</tr>
</tbody>
</table>

all dimensions in mm / * dimensions in inch
Accessories for design 2:

**Adapter**

<table>
<thead>
<tr>
<th>Position</th>
<th>Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Adapter</td>
</tr>
<tr>
<td>2</td>
<td>Grooved ring</td>
</tr>
<tr>
<td>3</td>
<td>O-ring</td>
</tr>
</tbody>
</table>

**Attention**

- For retrofitting onto NO valves, fit the adapter as an accessory.