TECHNICAL DATA SHEET

PMAFIX IP68 - NVA-V-P - Fitting
45° elbow, PG thread

IP68, metal thread fitting for flexible non-metallic conduit

Applications:
• For applications with high technical requirements

Features & Benefits:
• Very high impact resistance
• High thread and system connection strength
• Vibration-proof connection to PMA conduits
• Easy installation
• High conduit pull-out strength
• Very good chemical properties
• Fits both conduit profiles - fine (T) and coarse (G)

Ingress protection:
• IP66, IP68 & IP69 (EN/IEC 60529)
• IP69, 100 bar with Water impact protection (WPS-ring)

Materials:
• Fitting body: high-grade, specially formulated polyamide 6
• Thread: nickel-plated brass

Compatible with:
• PMAFLEX Pro Conduits
• PMAFLEX Multilayer Conduits
• PMAFLEX Conduits
• PMA Smart Line Conduits

Conforms to:
• EN 45545-2 HL3 (R23 & R23)
• NFPA 130
• UL 94 (V0)
• UL 1696 (UL file E80294)
• CSA C22.2 No. 227.3-05 (CSA file LL 88703)

Weathering resistance:
• Very good UV resistance and weathering characteristics, particularly in black

Colour:
• Black
• Grey

Chemical properties:
• Please refer to www.pma.ch
  (Technical Information / Chemical Resistance)

Environmental properties:
• Free from halogens and cadmium
• RoHS and REACH compliant
## Product selection:

<table>
<thead>
<tr>
<th>Part no.</th>
<th>Thread size</th>
<th>Conduit size</th>
<th>Dimensions in mm (nom.)</th>
<th>Weight</th>
<th>Packing unit</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>black</td>
<td>grey</td>
<td>g</td>
<td>d1</td>
<td>d2</td>
</tr>
<tr>
<td>NVAV-P090</td>
<td>MVAV-P090</td>
<td>9</td>
<td>10</td>
<td>12.0</td>
<td>9.6</td>
</tr>
<tr>
<td>NVAV-P112</td>
<td>MVAV-P112</td>
<td>11</td>
<td>12</td>
<td>12.0</td>
<td>12.5</td>
</tr>
<tr>
<td>NVAV-P137</td>
<td>MVAV-P137</td>
<td>13.5</td>
<td>17</td>
<td>13.0</td>
<td>14.6</td>
</tr>
<tr>
<td>NVAV-P167</td>
<td>MVAV-P167</td>
<td>16</td>
<td>17</td>
<td>13.0</td>
<td>16.5</td>
</tr>
<tr>
<td>NVAV-P213</td>
<td>MVAV-P213</td>
<td>21</td>
<td>23</td>
<td>14.0</td>
<td>22.4</td>
</tr>
<tr>
<td>NVAV-P299</td>
<td>MVAV-P299</td>
<td>29</td>
<td>29</td>
<td>14.0</td>
<td>30.5</td>
</tr>
<tr>
<td>NVAV-P366</td>
<td>MVAV-P366</td>
<td>36</td>
<td>36</td>
<td>17.0</td>
<td>38.5</td>
</tr>
<tr>
<td>NVAV-P488</td>
<td>MVAV-P488</td>
<td>48</td>
<td>48</td>
<td>17.0</td>
<td>51.0</td>
</tr>
</tbody>
</table>

Our customer service dept. or local distribution partner will be pleased to help you concerning product availability and lead time.

![Diagram](https://example.com/diagram.png)
Mechanical Properties:

<table>
<thead>
<tr>
<th>Property</th>
<th>Value:</th>
<th>Test parameters:</th>
<th>Test method:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tensile modulus</td>
<td>1'200 ... 3'700 N/mm²</td>
<td></td>
<td>ISO 527</td>
</tr>
<tr>
<td>Tensile strength</td>
<td>45 ... 65 N/mm²</td>
<td></td>
<td>ISO 527</td>
</tr>
<tr>
<td>Notched bar impact test</td>
<td>4 ... 20 kJ/m²</td>
<td></td>
<td>ISO 180/1C</td>
</tr>
</tbody>
</table>

Vibration and shock standard

Cat. 2

Thermal properties:

<table>
<thead>
<tr>
<th>Property</th>
<th>Value:</th>
<th>Test parameters:</th>
<th>Test method:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Continuous application temperature</td>
<td>-50 ... +105 °C</td>
<td></td>
<td>PMA DO 9.21-4510</td>
</tr>
<tr>
<td>Upper application temperature</td>
<td>+ 120°C</td>
<td>(20'000 h)</td>
<td>PMA DO 9.21-4360</td>
</tr>
<tr>
<td>Short-term</td>
<td>+ 160 °C</td>
<td>(168 h)</td>
<td>PMA DO 9.21-4360</td>
</tr>
</tbody>
</table>

Content of delivery:

- Fitting with conduit locking clip (OVN2)
- Conduit gasket (NVN3)
- Thread gasket (SVN4)

Assembly instructions:

- Please consider the appropriate assembly instructions on www.pma.ch

Fire safety properties:

<table>
<thead>
<tr>
<th>Property</th>
<th>Value:</th>
<th>Test parameters:</th>
<th>Test method:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fire performance</td>
<td>non flame-propagating</td>
<td></td>
<td>IEC EN 61386-1</td>
</tr>
<tr>
<td>Flame class</td>
<td>V0</td>
<td></td>
<td>UL 94</td>
</tr>
</tbody>
</table>

Fire hazard level HL3

Oxygen index > 32 %

Smoke density < 150 Ds max.

Toxicity < 0.75 CITsubP

Fire performance NFPA 130:

- Flammability compliant
- Smoke density compliant

Heat and visible smoke 26.00 MJ/kg

Smoke emission toxicity compliant

Toxicity < 1.5 CITsubP

Fire hazard level HL3

Oxygen index > 32 %

Smoke density < 300 Ds max.

Toxicity < 1.5 CITsubP

Fire performance NFPA 130:

- Flammability compliant
- Smoke density compliant

Heat and visible smoke 26.00 MJ/kg

Smoke emission toxicity compliant

Toxicity < 1.5 CITsubP

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