TECHNICAL DATA SHEET

PMAFIX IP66 - BVAD-P - Fitting
45° elbow, PG thread

One-piece, polyamide fitting for flexible non-metallic conduit

Applications:
• For cable protection systems in a wide range of applications

Features & Benefits:
• Easy installation: simple push fit assembly
• Very high impact resistance
• Vibration-proof connection to PMA conduits
• High conduit pull-out strength
• Can be easily re-opened with a screwdriver
• Very good chemical properties
• Fits both conduit profiles - fine (T) and coarse (G)

Ingress protection:
• IP66 (EN/IEC 60529)

Materials:
• High-grade, specially formulated polyamide 6

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

Conforms to:
• EN 45545-2 HL3 (R22 & 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
<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>PG</td>
<td>NW</td>
<td>g</td>
</tr>
<tr>
<td>BVAD-P090GT</td>
<td>SVAD-P090GT</td>
<td>9</td>
<td>10</td>
<td>11.0</td>
<td>20.0</td>
</tr>
<tr>
<td>BVAD-P112GT</td>
<td>SVAD-P112GT</td>
<td>11</td>
<td>12</td>
<td>11.0</td>
<td>24.0</td>
</tr>
<tr>
<td>BVAD-P132GT</td>
<td>SVAD-P132GT</td>
<td>13.5</td>
<td>12</td>
<td>11.0</td>
<td>24.0</td>
</tr>
<tr>
<td>BVAD-P137GT</td>
<td>SVAD-P137GT</td>
<td>13.5</td>
<td>17</td>
<td>11.0</td>
<td>30.0</td>
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<tr>
<td>BVAD-P167GT</td>
<td>SVAD-P167GT</td>
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<td>17</td>
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<td>30.0</td>
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<td>BVAD-P213GT</td>
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<td>BVAD-P299GT</td>
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<td>12.0</td>
<td>44.0</td>
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<td>BVAD-P366GT</td>
<td>SVAD-P366GT</td>
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<td>53.0</td>
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<td>BVAD-P488GT</td>
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<td>48</td>
<td>13.0</td>
<td>65.0</td>
</tr>
</tbody>
</table>

Our customer service dept. or local distribution partner will be pleased to help you concerning product availability and lead time.
### 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>1200 ... 3700 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 IEC 61373, IEC 60968-2-27 / -64

### 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>&gt;120 °C</td>
<td>(20,000 h)</td>
<td>PMA DO 9.21-4360</td>
</tr>
<tr>
<td>Short-term</td>
<td>&gt;160 °C</td>
<td>(168 h)</td>
<td>PMA DO 9.21-4360</td>
</tr>
</tbody>
</table>

### 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>
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</tbody>
</table>

**Fire hazard level**
- HL3

**Oxygen index**
- >32%

**Smoke density**
- <150 Ds max.

**Toxicity**
- <0.75 CIT

**Smoke density**
- <0.75 CIT

**Heat and visible smoke**
- 26.00 MJ/kg

**Smoke emission toxicity**
- compliant

**Smoke emission toxicity**
- compliant

**Fire performance NFPA 130:**
- Flammability compliant
- Smoke density compliant

**Assembly instructions:**
- Push-in with a slight twist and pull back slightly to ensure the conduit clicks into place
- Please consider the appropriate assembly instructions on www.pma.ch

**Content of delivery:**
- Fitting with premounted conduit locking clip (AFN2)

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