FP-5300M/FP-5300CM
Schedule 80 PVC and CPVC
Molded Installation Fittings
SAFETY INSTRUCTIONS

1. Confirm chemical compatibility before use.
2. Do not exceed maximum temperature or pressure specifications of fittings or sensors.
3. Do not use this product for any purpose other than for which it was designed.
4. Use schedule 80 pipe.
5. Use with liquids only.
6. Improper pipe fitting installation may result in pressure failure, personal injury, and/or property damage.
7. Always match fitting and piping materials.
8. Always use piping cement designed for your specific fitting and piping material.
9. Install according to local, state and federal guidelines.

Compatibility

The Omega schedule 80 molded fittings are designed to be used with the following Omega flow sensors:
- FMG series magmeters
- FP-5600 paddlewheel sensor series
- FP-5100 paddlewheel sensor series
- FP-5300 paddlewheel sensor series
- FP-5600 paddlewheel sensor series
- FP8500 paddlewheel sensor series
- FP8500A paddlewheel sensor series
- FPB-100 paddlewheel sensor series

Identification

Sensor alignment notch
Glue trap
45° marker
Pipe end marker
**K-Factors**

A **K-Factor** is the number of pulses a sensor will generate for each engineering unit of fluid that passes the sensor. K-Factors for water are listed below in U.S. gallons and liters. For example, in a 1 inch SCH 80 PVC pipe, the FP-5100 paddlewheel generates 172.07 pulses per gallon of water passing the rotor.

**K-Factors are for Schedule 80 pipe.**

<table>
<thead>
<tr>
<th>PIPE SIZE</th>
<th>SCH. 80 FITTING</th>
<th>SCH 80 PVC</th>
<th>SCH 80 CPVC</th>
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<tbody>
<tr>
<td>1/2&quot;</td>
<td>FP-5305M, FP-5305CM</td>
<td>137.42</td>
<td>520.12</td>
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<tr>
<td></td>
<td>1/2&quot;</td>
<td>271.37</td>
<td>1027.1</td>
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<tr>
<td>3/4&quot;</td>
<td>FP-5307M, FP-5307CM</td>
<td>78.61</td>
<td>297.52</td>
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<tr>
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<td>3/4&quot;</td>
<td>154.08</td>
<td>583.19</td>
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<td>FP-5310M, FP-5310CM</td>
<td>45.46</td>
<td>172.07</td>
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<td>1&quot;</td>
<td>88.65</td>
<td>335.53</td>
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<tr>
<td>1-1/4&quot;</td>
<td>FP-5312M, FP-5312CM</td>
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<td>36.32</td>
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<td>18.87</td>
<td>71.44</td>
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Pressure Rating

The pressure ratings are for the fitting only. NEVER EXCEED the pressure rating of the installed sensor.

Follow plastic piping cement manufacturer’s recommended preparation and gluing instructions. Avoid excess cement in fitting joints to prevent any port obstruction.

Specifications

Rigid PVC and CPVC Material Compounds Specification:
ASTM D 1784

Dimensional and Compound Plastic Pipe Fittings Specifications:
ASTM D 2467
ASTM F 439

Standard Test Methods Specification:
ASTM F 1970
OMEGA ENGINEERING, INC. warrants this unit to be free of defects in materials and workmanship for a period of 13 months from date of purchase. OMEGA’s WARRANTY adds an additional one (1) month grace period to the normal one (1) year product warranty to cover handling and shipping time. This ensures that OMEGA’s customers receive maximum coverage on each product.

If the unit malfunctions, it must be returned to the factory for evaluation. OMEGA’s Customer Service Department will issue an Authorized Return (AR) number immediately upon phone or written request. Upon examination by OMEGA, if the unit is found to be defective, it will be repaired or replaced at no charge. OMEGA’s WARRANTY does not apply to defects resulting from any action of the purchaser, including but not limited to mishandling, improper interfacing, operation outside of design limits, improper repair, or unauthorized modification. This WARRANTY is VOID if the unit shows evidence of having been tampered with or shows evidence of having been damaged as a result of excessive corrosion; or current, heat, moisture or vibration; improper specification; misapplication; misuse or other operating conditions outside of OMEGA’s control. Components in which wear is not warranted, include but are not limited to contact points, fuses, and triacs.

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The purchaser is responsible for shipping charges, freight, insurance and proper packaging to prevent breakage in transit.

FOR WARRANTY RETURNS, please have the following information available BEFORE contacting OMEGA:
1. Purchase Order number under which the product was PURCHASED,
2. Model and serial number of the product under warranty, and
3. Repair instructions and/or specific problems relative to the product.

OMEGA’s policy is to make running changes, not model changes, whenever an improvement is possible. This affords our customers the latest in technology and engineering.

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