LOW-FLOW POLYPROPYLENE AND TFE LIQUID FLOWMETERS

FPR300 Series

- Impeller Design With Only One Moving Part
- Excellent Replaceable Sensor
- Excellent Low-Flow Performance
- Versatile Square-Wave Signal

The FPR300 Series comprises versatile impeller flowmeters in ³⁄₈ to 1" nominal pipe size that employ jewel bearings for very low minimum flows. The 6 to 24 Vdc pulse output of these meters is compatible with many different types of control, including a full range of OMEGA® rate displays and controls. The FPR300 Series body material is polypropylene, with transparent acrylic covers for visual flow indication. Polypropylene covers are available as an option. The FPR310 Series has TFE housing, TFE cover (not visual), PVDF rotor, and a ceramic shaft.

SPECIFICATIONS

Accuracy: 1% FS
Max Temperature: 70°C (160°F)
Max Pressure: 10 bar (150 psi)
Power: 6 to 24 Vdc @ 2 mA
Output: NPN open collector

MATERIALS

Body:
- FPR300 Series: Polypropylene
- FPR310 Series: TFE

Cover:
- FPR300 Series: Acrylic, polypropylene (sold separately)
- FPR310 Series: TFE

Rotor: PVDF

Shaft:
- FPR300 Series: Nickel tungsten carbide
- FPR310 Series: Zirconia silicon

Bearings: Ruby

O-Ring:
- FPR300 Series: EPDM
- FPR310 Series: FKM

Dimensions: 56 H x 104 L x 53 mm D (2.2 x 4.1 x 2.1")
Cable: 5.5 m (18")

Max Pressure Drop:
- FPR301, FPR311: 15 psi
- FPR302, FPR312: 20 psi
- FPR303, FPR313: 20 psi
- FPR304, FPR314: 20 psi

To Order

<table>
<thead>
<tr>
<th>Polypropylene (Translucent)</th>
<th>TFE Opaque/Non-Visual</th>
<th>Nominal K Factors (pulses/gallon)</th>
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<tbody>
<tr>
<td>Model No.</td>
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<td>Connection/Range</td>
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<tr>
<td>FPR301</td>
<td>FPR311</td>
<td>³⁄₈ NPT, 0.07 to 5 GPM</td>
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<tr>
<td>FPR302</td>
<td>FPR312</td>
<td>¹⁄₂ NPT, 0.1 to 10 GPM</td>
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<tr>
<td>FPR303</td>
<td>FPR313</td>
<td>³⁄₄ NPT, 0.2 to 20 GPM</td>
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<tr>
<td>FPR304</td>
<td>FPR314</td>
<td>1 NPT, 0.5 to 40 GPM</td>
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Accessories

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
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<tbody>
<tr>
<td>FPR300-SENSOR</td>
<td>Replacement sensor with 5.5 m (18&quot;) cable</td>
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<tr>
<td>FPR300-V</td>
<td>Replacement FKM O-ring, for FPR310 units</td>
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<tr>
<td>FPR300-E</td>
<td>Replacement EPDM O-ring, for FPR300 units</td>
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<tr>
<td>FPR300-PCOVER</td>
<td>Polypropylene cover</td>
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<tr>
<td>DPF701</td>
<td>Rate or total panel meter</td>
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Comes complete with operator’s manual and 5.5 m (18") cable.

Ordering Examples:
- FPR302, ¹⁄₂ NPT polypropylene, 0.1 to 10 GPM.
- FPR314, 1 NPT TFE, 0.5 to 40 GPM.