

LOW-FLOW POLYPROPYLENE AND TFE LIQUID FLOWMETERS

FPR300 Series



- ✓ Impeller Design With Only One Moving Part
- ✓ Field 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.



FPR301 with translucent cover, shown smaller than actual size.



FPR311 with opaque cover.

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

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:

FPR300 Series: PVDF

Shaft:

FPR300 Series: Nickel tungsten carbide

FPR310 Series: zirconia ceramic, silicon

Bearings:

FPR300 Series: Ruby

To Order

Polypropylene (Translucent)		TFE Opaque/Non-Visual		Nominal K Factors (pulses/gallon)
Model No.	Model No.	Connection/Range		
FPR301	FPR311	3/8 NPT, 0.07 to 5 GPM		1200 to 1380
FPR302	FPR312	1/2 NPT, 0.1 to 10 GPM		600 to 680
FPR303	FPR313	3/4 NPT, 0.2 to 20 GPM		375 to 460
FPR304	FPR314	1 NPT, 0.5 to 40 GPM		215 to 270

Accessories

Model No.	Description
FPR300-SENSOR	Replacement sensor with 5.5 m (18') cable
FPR300-V	Replacement FKM O-ring, for FPR310 units
FPR300-E	Replacement EPDM O-ring, for FPR300 units
FPR300-PCOVER	Polypropylene cover
DPF701	Rate or total panel meter

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.