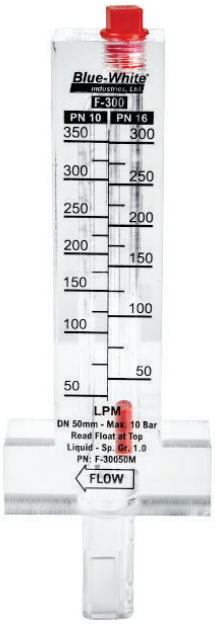
# F-300M

## Variable Area Flow Meter (Metric)




Video link:

### Features

> Easy to read dual scale (PN10 / PN 16)

> Reads Horizontal flow

> Acceptable for outdoor installations

> Pitot Tube design makes it easy to install on existing pipe

> One-piece, machined acrylic meter body

> Mounts direclty to pipe. No adapters needed.

> Optional Flow Switch available

### Highlights

**Flow range**

30 - 5,100 LPM (PN 10)
30 - 4,500 LPM (PN 16)

**Pressures up to**

5.2 bar
75 PSI

**Max. fluid temp.**

88 ˚C
190 ˚F

**Body material**

Acrylic

**Pipe sizes**

32mm to 200mm

**Warranty**

1 Year

For more help and information regarding **F-300M**, please visit www.blue-white.com or scan this QR code.

# Engineering Specifications

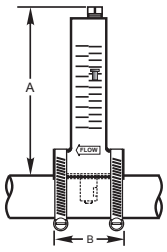


| | |
|---|---|
| **Pipe Requirements** | Metric pipe size (DIN 8062) |
| **Maximum Working Pressure** | 5.2 bar (75 PSI) at 70 ˚F (21 ˚C) |
| **Fluid Temperature Range** | 0˚ to 190 ˚F / -18 to 88 ˚C @ 0 PSI |
| **Ambient Temp Range** | 0˚ to 110 ˚F / -18 to 43 ˚C |
| **Full Scale Accuracy** | 32mm, 50mm, 63mm, 75mm, and 90mm pipe size: +/- 5% |
| | 110mm, 160mm and 200mm pipe size: +/- 10% of rate |
| **Calibration Fluid** | Water, specific gravity 1.0 |
| **Approximate Shipping Weight** | 32mm - 90mm units: 1 lb (.45kg), 110mm - 200mm units: 2 lb (.90kg) |

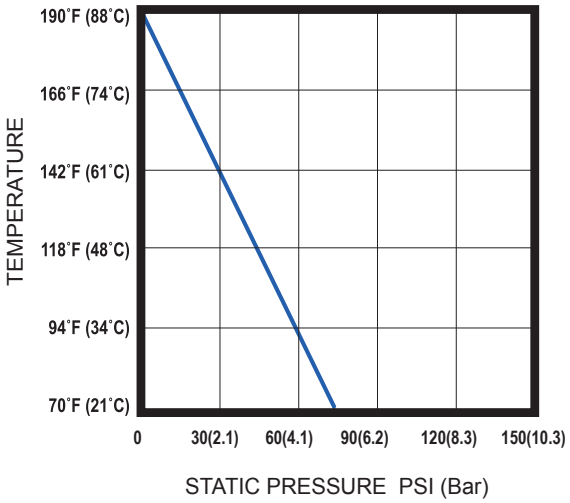
# Dimensions

**F-300M Series**

| Pipe Size (mm) | A (mm) | B (mm) |
|---|---|---|
| **32** | 150 | 62 |
| **50** | 150 | 62 |
| **63** | 150 | 62 |
| **75** | 150 | 62 |
| **90** | 150 | 62 |
| **110** | 150 | 62 |
| **160** | 190 | 62 |
| **200** | 190 | 62 |




# Maximum Temperature vs. Pressure



## Materials of Construction

| Wetted Components: | |
|---|---|
| **Meter Body** | Acrylic |
| **Float** | PVDF |
| **Gasket** | Neoprene |
| **Pipe Clamp** | 316SS |

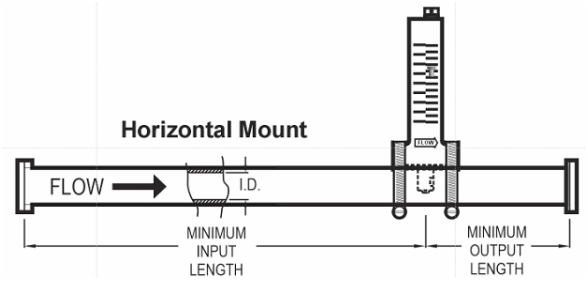
## Output Specifications

Models for Mounting on Horizontal Pipe
Models for Metric Pipe PN10 & PN16
(DIN 8062)

| Model | Pipe size | PN 10 LPM | PN 16 LPM |
|---|---|---|---|
| F-30032M | 32 mm | 30 to 150 | 30 to 130 |
| F-30050M | 50 mm | 50 to 350 | 50 to 300 |
| F-30063M | 63 mm | 100 to 475 | 75 to 400 |
| F-30075M | 75 mm | 150 to 700 | 150 to 600 |
| F-30090M | 90 mm | 200 to 850 | 200 to 800 |
| F-30110M | 110 mm | 600 to 1800 | 550 to 1600 |
| F-30160M | 160mm | 900 to 3200 | 800 to 2800 |
| F-30200M | 200mm | 1500 to 5100 | 1500 to 4500 |

## Installation Requirements

The meter's accuracy is affected by disturbances such as pumps, elbows, tees, valves, etc., in the flow stream. Install the meter in a straight run of pipe as far as possible from distrubances. The distance required for accuracy is 5 times the nominal pipe diameter before the meter and 2 times the nominal pipe diameter after the meter.




### Mounting location

- The meter is designed to withstand outdoor conditions.
- F-300M series meters must be mounted at vertical (12 o'clock) postion on horizontal pipe.
- The pipe must be completely full of water at all times.
- The meter can accurately measure flow from one direction only.

# Model Number Matrix

## F-300M Model Number

| | |
|---|---|
| **F** | Standard Flow Meter (Horizontal Flow) |

### Series

| | |
|---|---|
| **30** | F-300M Acrylic Body |

### LPM Scale PN10 / PN16

| | |
|---|---|
| **032** | 32mm Pipe, 30 - 150 LPM PN10 (30 - 130 LPM PN16) |
| **050** | 50mm Pipe, 50 - 350 LPM PN10 (50 - 300 LPM PN16) |
| **063** | 63mm Pipe, 100 - 475 LPM PN10 (75 - 400 LPM PN16) |
| **075** | 75mm Pipe, 150 - 700 LPM PN10 (150 - 600 LPM PN16) |
| **090** | 90mm Pipe, 200 - 850 LPM PN10 (200 - 800 LPM PN16) |
| **110** | 110mm Pipe, 600 - 1800 LPM PN10 (550 - 1600 LPM PN16) |
| **160** | 160mm Pipe, 900 - 3200 LPM PN10 (800 - 2800 LPM PN16) |
| **200** | 200mm Pipe, 1500 - 5100 LPM PN10 (1500 - 4500 LPM PN16) |

### Pipe Units

| | |
|---|---|
| **M** | METRIC (DIN 8062) |

| | | | | | |
|---|---|---|---|---|---|
| **F** | **-** | **30** | **032** | **M** | **Sample Model Number** |

**NOTE:** Accessories sold separately.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