Blue-White®

Industries, Ltd.

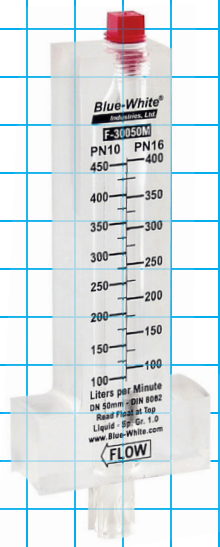
Pitot Tube Insertion Meters

Engineering and Technical Data

F-300M

Clamp-on Insertion Mount

Dual PN10 / PN16 scale



Features:

- **Dual PN10/PN16 scale printed on both sides of the meter.**
- **32mm through 200mm pipe sizes.**
- **Flow rates from 30 to 5100 LPM.**
- **Corrosion resistant 316SS, PTFE, or PVDF internal float materials.**
- **One piece machined acrylic body.**
- **Mounts to existing pipe. No unions or adapters required.**
- **Models for mounting on horizontal pipe.**
- **Mounting clamps and gasket included.**

Specifications:

Pipe Requirements: ..... Metric pipe size (DIN 8062)
Max. Bar (psi): ..... 10.3 Bar (150 PSI) @ 21° C (70° F)
Fluid temp. range: ..... 32° to 110° F/ 190° F (88° C) @ 0 PSI
Ambient temp. range: ...32° to 110° F/ -10° to 43° C
***Note**: Temperature & Pressure ratings of meter only. Actual pipe rating may vary.*

Full scale accuracy: .....32mm, 50mm, 63mm, 75mm, and 90mm +/- 5%, all other +/- 10%
Power requirement: ..... No power required
Enclosure: ..... IP56 (NEMA 4X)
Approximate shipping wt: ... 32mm - 110mm units: 0.45 kg (1 lb)
110mm - 200mm units: 0.91 kg (2 lb.)

Materials of Construction:

Meter Body: .....Cast Acrylic
Float: .....Standard range models = PVDF or 316 SS
Low range models = PTFE

Gasket: ..... Neoprene
Pipe Clamp: .....300 series Stainless Steel
Pitot screw: .....(40mm-110mm models only) 300 series stainless Steel

Installation Requirements:

Minimum Straight Pipe Length Requirements

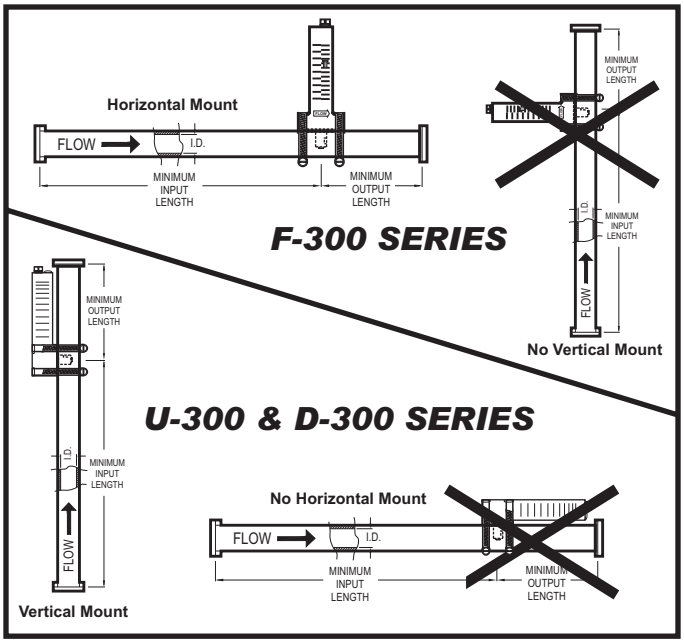
The meter's accuracy is affected by disturbances such as pumps, elbows, tees, valves, etc., in the flow stream. Install the meter in a straight run of pipe **as far as possible** from any disturbances. The distance required for accuracy is 10 times the nominal pipe diameter before the meter and 4 times the nominal pipe diameter after the meter. **Note:** 32mm, 50mm, 63mm, 75mm, and 90mm models require only 5 times the nominal pipe diameter before the meter and 2 times after.

Example of Minimum Straight Pipe Length Requirements

Nominal Pipe Diameter	Minimum Inlet Pipe Length	Minimum Outlet Pipe Length
32mm	160mm (5 x 32mm)	64mm (2 x 32mm)
63mm	315mm (5 x 63mm)	126mm (2 x 63mm)
160mm	1600mm (10 x 160mm)	640mm (4 x 160mm)

Mounting location

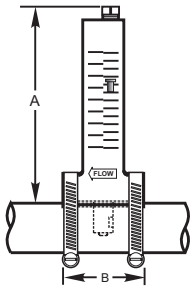
- The meter is designed to withstand outdoor conditions.
- F-300M series meters must be mounted at the vertical (twelve o'clock) position on horizontal pipe only.
- The pipe must be completely full of water at all times.
- See the minimum straight length of pipe requirement chart above.
- The meter can accurately measure flow from one direction only.



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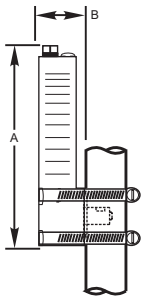
Dimensions:



F-300 Series

Pipe Size	A	B
32	110	62
40	110	62
50	110	62
63	110	62
75	110	62
90	110	62
110	110	62
160	108	62
200	108	62

Millimeters

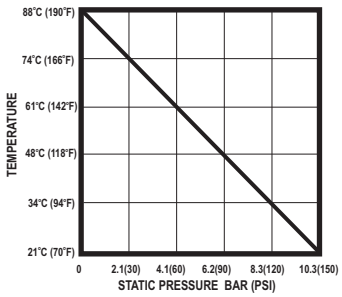


U/D-300 Series

Pipe Size	A	B
50	152	40
63	152	40

Millimeters

Maximum Temperature vs. Pressure



Flow Stream Requirements:

Low viscosity fluids with a specific gravity of 1.0.

Model Number Matrix:

F - 30 063 M - R

Meter Series
30 = 300 series meter

Pipe Size (DN)
032 = 32mm
040 = 40mm
050 = 50mm
063 = 63mm
075 = 75mm
090 = 90mm
110 = 110mm
160 = 160mm
200 = 200mm

Pipe Specification
M = METRIC (DIN 8062)

Calibration Flow Range
NONE = Standard Range
R = Reduced flow range

Pipe Size, Flow Range and Display Model Options:

Models for METRIC PN10 Pipe (DIN 8062)

Display in Liters per Minute for Pn10 and PN 16 pipe

DN Pipe	LPM PN10 Range	LPM PN16 Range	Model Number
32mm	30 to 150	30 to 130	**F-30032M**
40mm	70 to 310	60 to 270	**F-30040M**
50mm	50 to 350	50 to 300	**F-30050M**
63mm	100 to 475	75 to 400	**F-30063M**
75mm	150 to 700	150 to 600	**F-30075M**
90mm	200 to 850	200 to 800	**F-30090M**
110mm	600 to 1800	550 to 1600	**F-30110M**
160mm	900 to 3200	800 to 2800	**F-30160M**
200mm	1500 to 5100	1300 to 4500	**F-30200M**

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