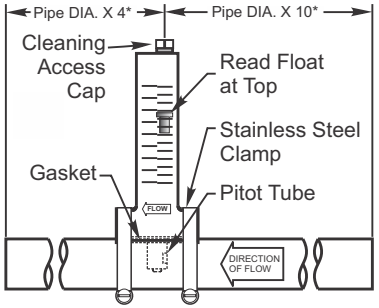
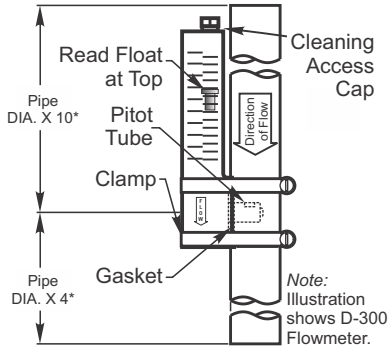
# Flowmeter Installation Instructions
## F-300 | D-300 | U-300

**F-300**




* Minimum acceptable dimensions.
Must be straight horizontal piping.

**D-300 and U-300**

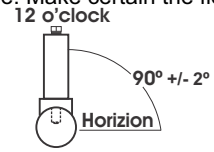



* Minimum acceptable dimensions.
Must be straight vertical piping.

**General:** Flowmeter should only be used on the schedule 40 IPS (ASTM-D-1785) size and type of pipe for which it is intended. Incorrect use will result in inaccurate readings and leakage problems.

**Models with suffix "P" or "PR" = PVC pipe, Schedule 40 (IPS pipe, ASTM - D-1785)**
**Models with suffix "T" or "TR" = COPPER TUBING, Type "K" or "L".**

**Installation:** Install the flowmeter downstream from the filter if possible, with at least the minimum straight pipe dimensions called for in installation drawings. Drill the pitot tube hole in the top (12 o'clock position) of horizontal pipe or anywhere around vertical pipe. Carefully remove all burrs. Insert the pitot tube, with gasket in place, into the drilled hole. Tighten the clamps alternately, a little at a time. Make certain the flow direction is towards the pitot tube opening.




| Flowmeter size | Drill size for pitot tube |
|---|---|
| 1" thru 4" | 5/8" to 41/64" |
| 6" thru 8" | 3/4" to 49/64" |

| Flowmeter size | Drill size for pitot tube |
|---|---|
| 40 mm | 16 - 16.25 mm |
| 110 mm | 16 - 16.25 mm |
| 160 mm - 200 mm | 19 - 19.5 mm |

**Maintenance:** Should the meter fail to read, make certain the openings in the front and rear of the pitot tube are not clogged, that the pitot tube opening faces the direction of the flow, and that you have installed the meter on the correct IPS (ASTM-D-1785) type and size pipe. Periodically clean the inside of the meter with a soft bottle brush and mild soap solution. Note that the top of the float is the largest diameter.

**Accuracy** = +/- 10% (of the full scale reading)

Max Temperature = 190°F / 87.7°C, Maximum Pressure = 150 psi / 10.3 bar
Pressure and temperature limits are inversely proportional

Note: If used on Schedule 80 PVC pipe, the reading will be 12% higher than actual.

**Blue-White® warrants the meter for water use only.**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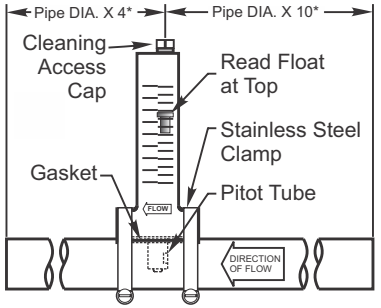


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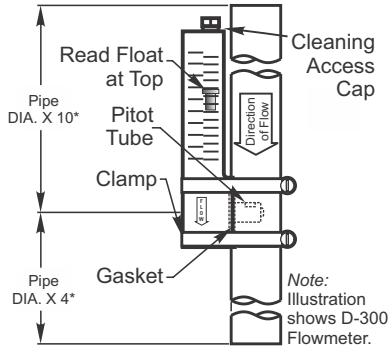


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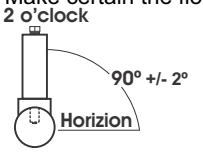


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**Blue-White® guarantees the meter is suitable with air and water only.**

## Maintenance

Minimal flowmeter maintenance is required. Should the meter fail to read, make certain the pitot tube opening is unobstructed, that the pitot tube opening faces the direction of the flow, and that you have installed the meter on the correct type and size pipe.

## Cleaning

The flowmeter body and all other parts can be cleaned by washing in a mild soap and water solution. A soft bristle brush will simplify cleaning inside the meter body. Note the float's up position for re-assembly.

**Maximum Temperature** = 190°F at 0 Psi (87.8°C at 0 Bar)

**Maximum Pressure** = 150 PSI at 70°F (10.34 Bar at 21.1°C)

**Accuracy** = +/- 10% (of the full scale reading)

Pressure and temperature limits are inversely proportional.

We cannot guarantee our flowmeters will not be damaged either at or below the suggested limits simply because of many factors which influence meter integrity; stress resulting from meter misalignment, damage due to excessive vibration and/or deterioration caused by contact with certain chemicals as well as diret sunlight. These situations and others tend to reduce the strength of the materials from which the meters are manufactured. Flowmeters are tested and calibrated for water or air only.

Although meters may be suitable for others chemicals, Blue-White cannot guarantee their suitability.

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