

# Meter Run Assembly



Meter runs are supplied as a complete unit of normally 1M length to ensure the necessary straight pipe length to achieve highest possible efficiency.

These are available with line sizes mostly below 50mm with corner tap. These are used for the measurement of small flow rates precisely where high accuracy of flow rates is required.

IBR Form IIC certificate can be provided for meter runs as per requirement.



## Types of Meter Runs:

1. Orifice Flange union with Meter - run.
2. Orifice flange union with Carrier ring & Meter - run.

Generally Meter-run pipe is recommended with upstream length of 750mm and downstream length of 250mm.

Meter runs sizes above 50mm are also available as per the customers or process requirements.

MOC: Orifice Plate in SS 316, SS 304 & other on request.

End Connection: Socket Weld, Screwed and Flanged ends with meter run piping suitable to ANSI, IS & DIN flanges

We comply Meter Tube Internal Diameter Roundness Tolerance, in strict accordance as per American Gas Association Report No. 3 Part 2.

Any internal diameter measured in distance one pipe diameter will be less than the 0.25% of the mean diameter for the upstream side.

$$\left| \frac{\text{Any diameter within one } DJ-D_{\text{mean}}}{D} \times 100 \right| \leq 0.25\%$$

Also the percentage difference between the maximum and minimum measured internal diameter through all upstream meter tube will be less than 0.5%

$$\left| \frac{\text{Maximum Diameter}-\text{Minimum Diameter}}{D_{\text{mean}}} \times 100 \right| \leq 0.5\%$$

For the downstream side any internal diameter measured will be less than 0.5% of the mean diameter for the downstream side.

$$\left| \frac{\text{Any downstream diameter } DJ-D_{\text{mean}}}{D} \times 100 \right| \leq 0.5\%$$

# Meter Run Assembly



## Specification:

Material of construction of pipe chamber	SS316, SS316L, A106, SS304, SS304L, Monel, Hastalloy, PP, PTFE
Material of orifice plate	SS316, SS316L, SS304, SS304L, Monel, Hastalloy, PP, PTFE
Material of construction of the end connection	SS316, SS316L, A106, SS304, SS304L, Monel, Hastalloy, PP, PTFE
End connections	Flanged, BWE
Line size assemblies	1/2 to 2" for integral meter run assemblies and till 40" for meter run
Manifold block	3 way or 5 way in SS316 or SS316L or in A105
Isolation valve	Ball, needle, globe, 1/2" NPT F in A105, SS316, SS316L, SS304, SS304L, monel, PP, PTFE
Pressure Rating	150# to 2500#
Application	Integral meter Run - where direct mounting of DPT is required. Meter tube - where high accuracy measurement required each as gas metering, custody transfer and application
Orifice plates	Square edge, concentric, segmental, eccentric, quadrant edge
Media	Steam, steam water, water, acids, mixed phase, air, gasses, liquids all forms, liquids not less than Reynolds 1250

