

ORIFICE FLANGE ASSEMBLY

FITZER Orifice Plate with holding Flanges ,Nut Bolt & Gaskets are called Orifice Flange Assembly. The Orifice Assembly Products Based on Differential Pressure principal for suitable to wide Range Of line size for accurate Flow Measurement like any Liquid ,Gases, OR Steam. Orifice Plate is Primary Element to Generate Differential Pressure for Rate of Flow Measurement. The orifice Bore Design & made according to ISO -5167 -2 : 2003 as per Pipe schedule ,Exact Pipe ID, Fluid Data , Operating Pressure Operating Temperature, Maximum Flow rate with Maximum Across Pressure Drop (D.P.). By-Pass Rotameter Or D.P. Transmitter Use With Orifice Flange Assembly For Direct Flow Measurement. Generally Orifice Flange are of Four Types A) Weld-neck B) Slip-On C) Carrier Ring D) Integral Orifice Assembly Type

FIG.1



FIG.2



FIG.3



Weld Neck Orifice Flange Assembly (Fig.1)

The Weld neck Flange is Normally referred to as "High Hub " Flange. It is Design to Transfer Stresses to the Pipe, thereby reducing High Tress Concentrations at the Base of the Flange. The Pressure Tapings are provided through the Flange which are at a Distance of 1 Inch from the face of the Plate (Shown in the Drawings)

SLIP ON ORIFICE FLANGE ASSEMBLY (Fig.2)

The Slipon Flanges as a "Low Hub " because the pipe Slips into the Flange Prior to the Welding. It is Welded both from inside & out to provide sufficient strength and prevent Leakage. The Slip-On Flanges are Bored Slightly Larger than the OD of the Matching Pipe.

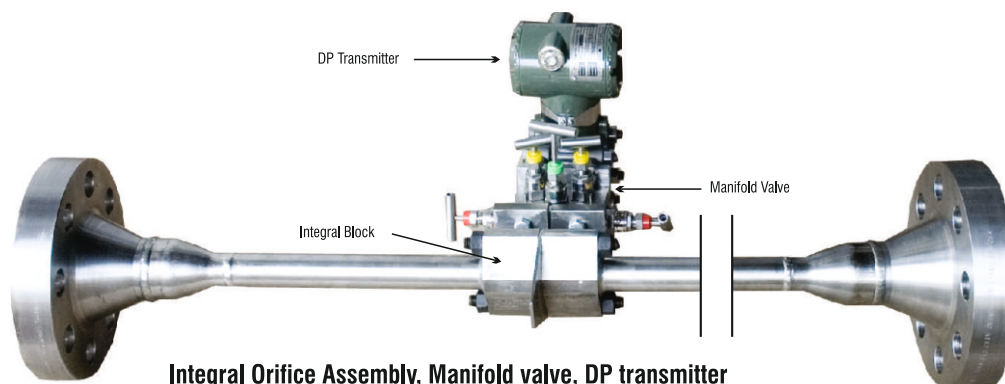
CARRIER RING ORIFICE ASSEMBLY (Fig.3)

The Construction is similar to the above except Carrier Ring provide a Low Cost solution (Corner Tapping). The Carrier Ring Machined from single block is also offered in place of Male Female Carrier, Wafer Type Mounting is used for Carrier Ring.

INTEGRAL ORIFICE ASSEMBLY (Fig.4)

Integral Flow Orifice Assembly is used for the small bore pipe sizes of 2" & below. However due to process Temperature limit of the transmitter, this Assembly can not be use for process Temperature above 120 Deg C. The Assembly Consist of an Orifice Plate between two Integral Blocks / Flanges having the corner Taps. Generally meter run pipe is recommended with up stream Length 750 MM & Down Steam Length of 250

FIG.4



GENERAL SPECIFICATION

FLANGE ASSEMBLY

FLANGE TYPE: Weld Neck, Slip-On, Socket Weld, Flanges are
Accordance with ASME B 16.5 Rating Min. 300

#

FLANGE MOC : ASTM A 105 as standard, ASTM A 182 F 11,
ASME ASTM A 350, ASTM A 182 F 316 , ASTM
A 182 F 304, ASTM A 182 F 316 L ASTM
A182F 304 L, PP, FRVE etc.

PRESSURE TAPPING : Corner Tappings are recommended for size
up to 1½'' & Flange Tap from 2'' on word

STUDS / NUTS : ASTM A 193, Gr.B 7/A-194 Gr.2 H as Standard
other material On request

GASKET : S.S. Spiral Wound + Grafoil , S. S. Spiral Wound +
PTFE Are normally supplied as per process
requirement. Other material Available on request

ORIFICE PLATE

TYPE : Square edge Concentric as Standard other type on
request

ORIFICE THICK : In-between 3.18 MM to 12.7 MM as per Line
Size.

ORIFICE MOC : AISI S.S.316 as Standard S S 304 , S S 316 L,
Haustella -C Monel , P.P ,PVC, PTFE Coated

Extra

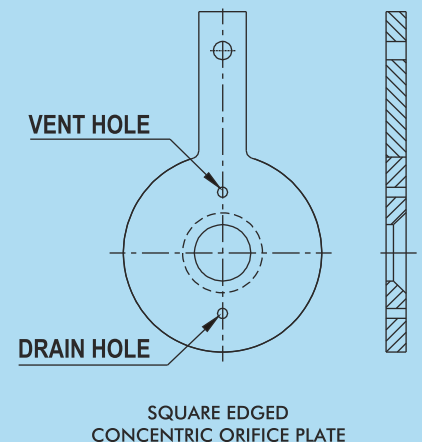
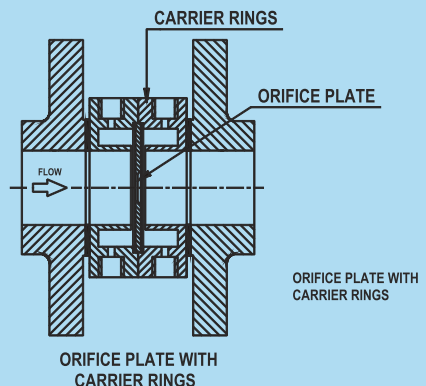
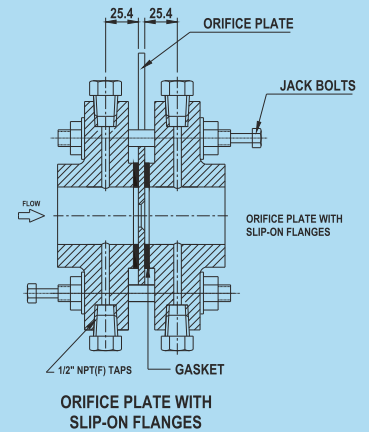
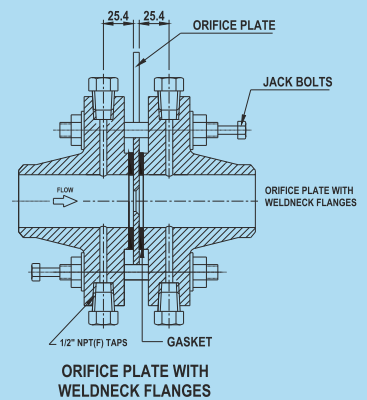
etc can be given on request

VENT / DRAIN : Vent Or Drain Holes are Provided Customer's
requirement.

ORIFICE BORE : In Accordance with ISO 5167-2: 2003

DATA REQUIRE FOR SIZING

- * Name of Fluid
- * SP.GR., Viscosity , Pressure , Temperature at Operating
Condition
- * Measuring Range
- * Line Size
- * Material of Construction



FITZER
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