

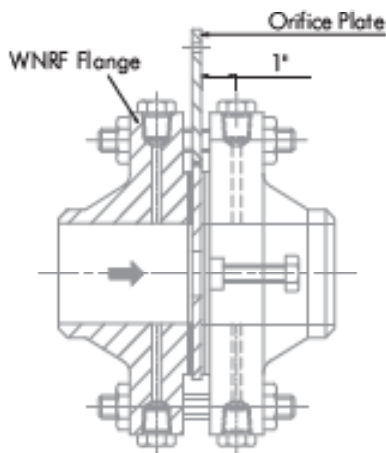
Orifice Assemblies



Orifice plates with flange assemblies are employed for measuring the rate of flow or quantity of moving fluids like liquids, gases or vapours.

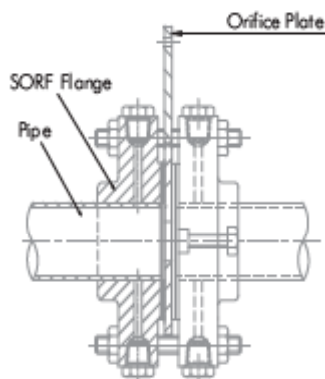
Types of Orifice Assemblies

➤ Orifice Plate with weld neck flange union



The weld neck flange is normally referred to as “High Hub” flange. It is designed to transfer stresses to the pipe, thereby reducing high stress concentration at the base of the flange. The pressure tapping's are provided through the flange which are at a distance of 1” from the face of the plate as in fig. Weld neck flanges are preferred where radiography on welding is involved.

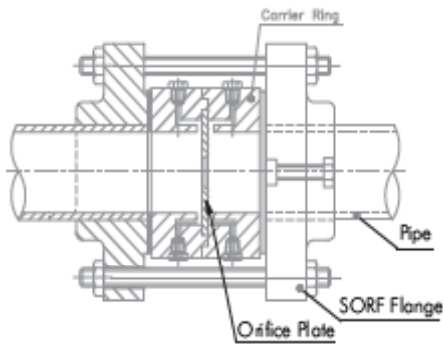
➤ Orifice Plate with slip on flange union



The slip on flange has a low hub because the pipe slips into the flange prior to welding. It is welded both from inside and outside to provide better strength and prevent leakage. The slip on flanges are bored slightly larger than Outside diameter of the pipe.



➤ Orifice Plate with carrier ring and flange union



Specifications:

- Design** : Conforms to ISA RP 3.2, DIN 1952, BS 1042, ISO - 5167
- Types** : Square Edged Concentric, Quadrant Edged, Conical Entrance, Eccentric, Segmental.
- Orifice Bore** : In accordance with ISO 5167, BS 1042, ASME MFC 3M, R W Miller, L K Spink, AGA- 3
- Plate Material** : SS 304, SS 316, SS 316L as standard. Hastelloy-C, Monel, PP, PVC, PTFE coated etc can also be given on request.
- Tab Plate** : In the same material as plate and is welded to the Orifice Plate. Tab plate integral to the Orifice plate (i.e. without welding) can also be given as on request.
- Flange Union** : Weld neck, Slip on, Threaded , Socket weld with RF or RTJ facing Orifice flanges are in accordance with ASME B 16.36 with minimum flange rating of #300 for sizes up to 8" or Male - Female flanges as ASME B 16.5
- Pressure Tapping's** : Corner Tapping's are recommended for sizes up to 1 ½"; Flange taps for sizes 2" to 16"; D-D/2 taps for higher sizes.
- Vent / Drain** : Vent or Drain van be provided as per customer . The diameter of the vent or drain holes as per ISA RP 3.2
- Gaskets** : CAF as per IS :2712 Gr.0/1, Spiral wound + CAF, SS spiral wound + Grafoil, SS spiral wound + PTFE are normally supplied as per process requirement.
For RTJ flanges, the plate is fixed on the plate holder. The plate holder is in soft iron material and acts as gasket
- Stud / Nuts** : ASTM A 193 Gr. B7 / A 194 2H as standard, Others on request.
- Jack Screws** : ASTM A 193 Gr. B7 / A 194 2H as standard, Others on request.