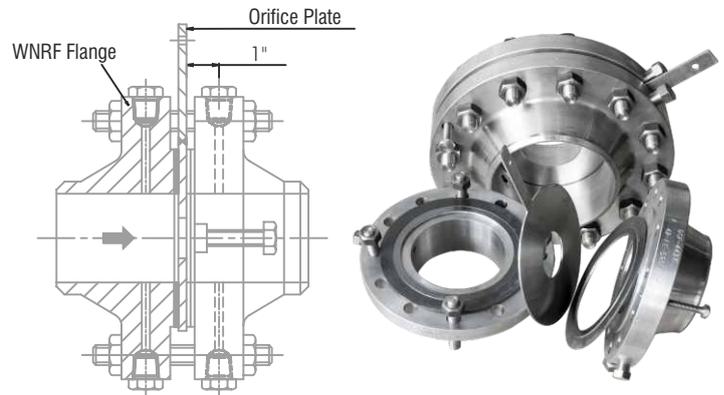


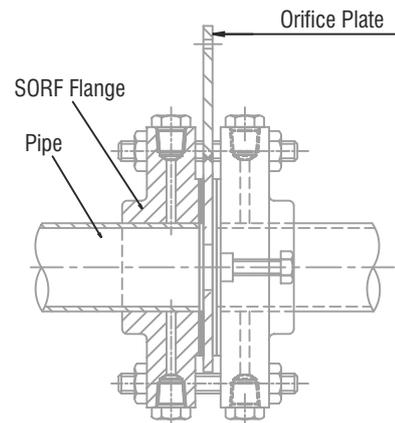
Various types of orifice assemblies

- The weld neck flange assembly is designed to transfer stresses to the pipe, thereby reducing high stress concentrations at the base of the flange. The pressure tappings are provided through the flange which are at a distance of 25.4mm (1") from the relevant face of the plate. Weldneck flanges are preferred since the joint between flange and pipe can be subjected to radiography, to ensure quality of welding joint



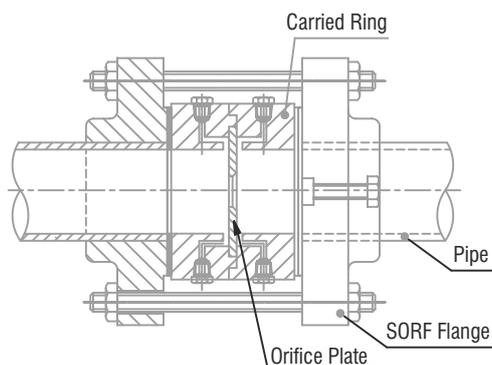
Orifice Assembly with WNRF Flange & Flange Taps

- The slip on flange has a low hub because the pipe slips into the flange prior to the welding. It is welded both from inside and out to provide sufficient strength and prevent leakage. The slip on flanges are bored slightly larger than the OD of the matching flange. SORF flanges are not preferred where pressure tapping through flange is required, since after welding in line blocks the tapping holes which need to be redrilled at site after welding in line.



Orifice Assembly with SORF Flange & Flange Taps

- Orifice assembly with carrier ring and flange union is provided to facilitate pressure tapping, by means of corner tappings. This construction is generally used for lower sizes (less than 2"). However carrier rings can be used for higher line sizes also.



Orifice Plate with Carrier Ring & Flange Union



Carrier Ring

The Plate Holder Assembly is a combination of plate holder and an orifice plate designed for ring tongue joint (RTJ) flanges. The plate holder has a function of holding the orifice plate and also a function as a gasket to prevent leakage of the process fluid. The plate holder has an oval or octagonal ring for mounting between ring tongue joint flanges. This metallic sealing system is applicable to a fluid of high temperature and high pressure. The pressure tapping system normally is of the flange tap type.

Orifice plate is screwed to the plate holder. Generally the plate holder is of soft iron material. The Orifice plate is available in standard material such as SS316, SS304, SS316L, Monel, Hastelloy-C, etc. Other materials are available on request. The plate holder along with the orifice plate can be also machined from one piece.

RTJ holder material is selected so that the RTJ holder hardness is less than that of flange hardness.

