

Tab Handled Orifice Plates

- Design to BS EN ISO 5167
- Range of Orifice Types
 - Concentric Square Edge
 - Conical Entrance
 - Quarter Circle
 - Segmental
 - Eccentric
- Wide range of materials
- Proven technology
- Suitable for 1" lines and above
- Orifice sizing on request

General Description

The orifice plate is the most common differential pressure flow primary element. It is based on proven technology, has no moving parts and is suitable for high temperature and pressure applications. Orifice plates are recommended for clean liquids, gases and low velocity steam flows.

Dimensions

The outside diameter of the orifice plate is equal to the bolt circle diameter of the connecting flanges minus the diameter of the bolt. This ensures that the plate is centred accurately in the line.

Plate thicknesses depend on line size and differential pressure, and should be sufficient to prevent the plate from bending under operating conditions. Recommended plate thicknesses are shown in the product data sheet

Orifice plates can be made in accordance with customer drawings as required.

Materials

Standard material grades include 316 Stainless Steel, 304 Stainless Steel, 310 Stainless Steel, Hastelloy® C276, Hastelloy® B3, Duplex Stainless Steel, Super Duplex Stainless Steel, Monel® 400, Carbon Steel, Titanium, Incoloy® 800, Incoloy® 825, Inconel® 600, Inconel® 625, Tantalum, PTFE and PVDF.

Please contact the PIROVAT for other grades.

Incoloy, Inconel and Monel and are trademarks of INCO Alloys International Inc. Hastelloy is a trademark of Haynes International Inc.

Orifice Bore Sizing

Orifice calculations are performed to the latest revision of BS EN ISO 5167, when requested.

Orifice Carrier Assemblies

Orifice plates can be supplied complete with one or two piece orifice carriers, or ANSI B16.36 orifice flanges. Orifice meter runs are also available.

