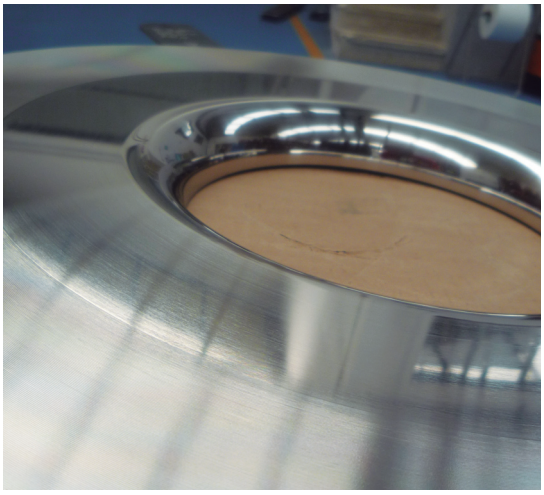
EIPSA
ESPAÑOLA DE INSTRUMENTACIÓN PRIMARIA, S.A.

FLOW

Orifice flanges and plates (conical and quarter circle)

DESCRIPTION: Differential pressure flow measurement is widely used to its excellent relationship between installation cost, maintenance and performance. The new designs of differential pressure transmitters, increasingly precise and capable of integrating a greater number of process variables, ratify the versatility, reliability and validity of this primary elements.
Conical and quarter circle plates are used for very viscous flows with low Reynolds numbers.



APPLICATIONS

- Flow measurement in highly viscous fluids with low Reynolds number.
- For all types of industrial plants such as:
  - Energy generation.
  - Chemical and petrochemical industries.
  - Renewable energy.
  - Food industry.
  - Water treatment.

DESIGN

- Calculation standards:	ISO/TR 15377, ASME FLUID METER
- Materials:	Carbon steels, low alloys and steel alloys (orifice flanges). Stainless steel and high alloys (orifice plates).
- Size of Manufacture:	≤20”
- Flange finishes:	RF, FF, RTJ.

SPECIFICATIONS

- Beta:	Conical: 0.1 - 0.316 Quarter Circle: 0.245 - 0.6
- Reynolds:	Conical: 80 - $2x10^5\beta$ Quarter Circle: $f(\beta) \leq Re_D \leq 10^5\beta$
- Accuracy:	1 - 2%

NOTES

- Maximum operating temperature: According to the rating of the flanges, pipe thickness and materials used.

- Maximum operating pressure: According to the flange rating, pipe thickness and materials used.