

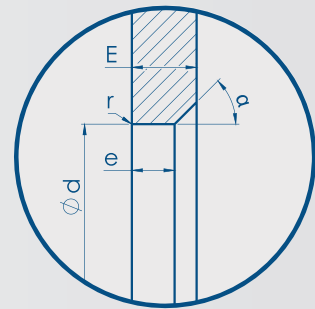
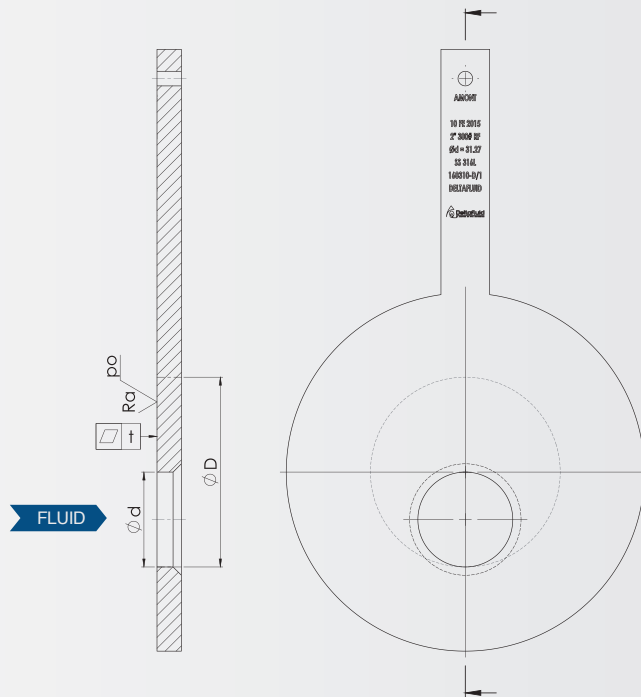
ECCENTRIC ORIFICE PLATE

Recommended for dirty fluids with small particles or two-phase fluids

GENERAL DATA

- Standard: ISO/TR 15377
- Flange mounting⁽¹⁾:
 - o ISO PN 2.5 to PN 420
 - o ASME 150# to 2500#
 - o Others: upon request
- Material:
 - o Standard: stainless steel 304L / 316L
 - o Others⁽¹⁾ : according to your application
- Fluid: liquid, gas, steam
- Pipes from ϕ 100 to 1 000 mm
- Accuracy: 1 % of the max flow rate
- Repeatability of measurement: 0.1 %

ΔP
0/0
pressure tap⁽¹⁾



Optional: stellite coating⁽¹⁾

TECHNICAL CHARACTERISTICS

		ISO/TR 15377
Re_D	Reynolds number in the pipe	$42\,000 \leq Re_D \leq 8.4 \cdot 10^5$
D	Inside pipe diameter	$100\text{ mm} \leq D \leq 1\,000\text{ mm}$
d	Orifice diameter	$d \geq 50\text{ mm}$
β	d/D	$0.46 \leq \beta \leq 0.84$
R_a	Upstream face roughness	$R_a \leq 10^{-4} \cdot d$
r	Radius of the upstream sharp edge	$r < 0.000\,4 \cdot d$
e	Cylindrical orifice thickness	$0.005 \cdot D \leq e \leq 0.02 \cdot D$
E	Plate thickness	$e \leq E \leq 0.05 \cdot D$
α	Angle of the downstream bevel if needed	$\alpha = 45^\circ \pm 15^\circ$
t	Flatness tolerance	$t < 0.005 \cdot (D - d)/2$

⁽¹⁾ For more details, see «Technical information» section on page 54.