CONDITIONING ORIFICE PLATE

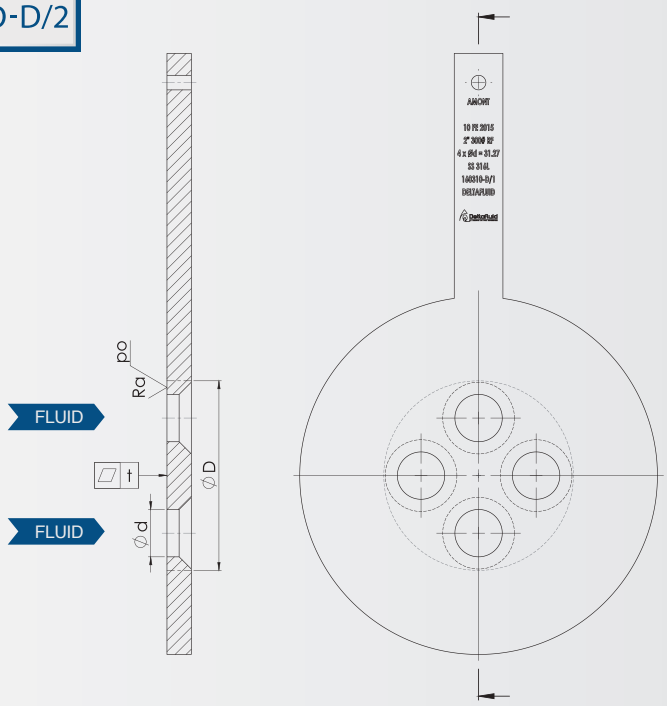
Cost-saving solution thanks to reduced upstream and downstream straight lengths

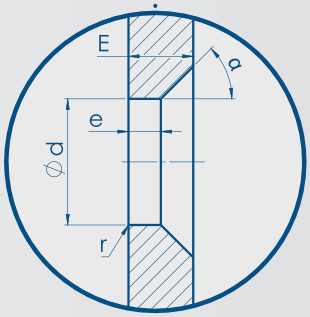
GENERAL DATA

- Design based on ISO 5167-1&2 or ASME MFC-3M standards
- 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 25 to 1 000 mm
- Accuracy: 0.5 % of the max flow rate
- Repeatability of measurement: 0.1 %

ΔP 0/0 | ΔP 25/25 | ΔP D-D/2

pressure taps[1]





Optional: stellite coating[1]

TECHNICAL CHARACTERISTICS

Re_D	Reynolds number in the pipe	$5\,000 \leq Re_D \leq 10^8$
D	Inside pipe diameter	25 mm ≤ D ≤ 1 000 mm
d	Orifice diameter	d ≥ 6 mm
ß	d/D	0.2 ≤ ß ≤ 0.65
Ra	Upstream face roughness	$Ra \leq 10^{-4}.d$
r	Shard edge radius	r < 0.000 4.d
e	Sharp edge orifice thickness	0.005.D ≤ e ≤ 0.02.D
E	Plate thickness	e ≤ E ≤ 0.05.D
α	Angle of the downstream bevel if needed	α = 45° ± 15°
t	Flatness tolerance	t < 0.005.(D - d)/2

[1] For more details, see «Technical information» section on page 54.