

SEGMENTAL ORIFICE PLATE

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

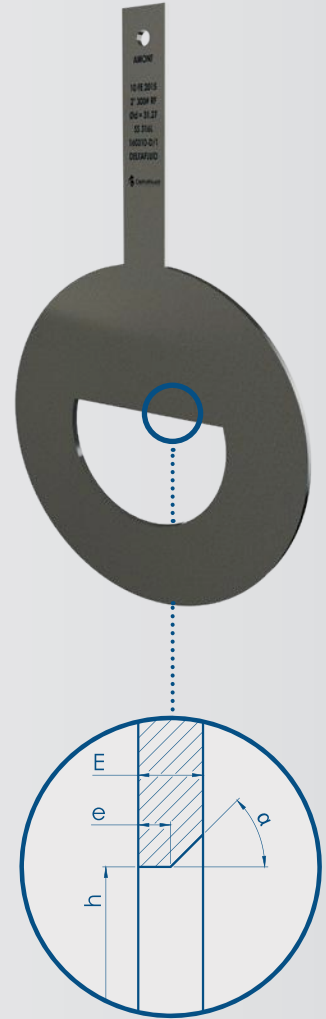
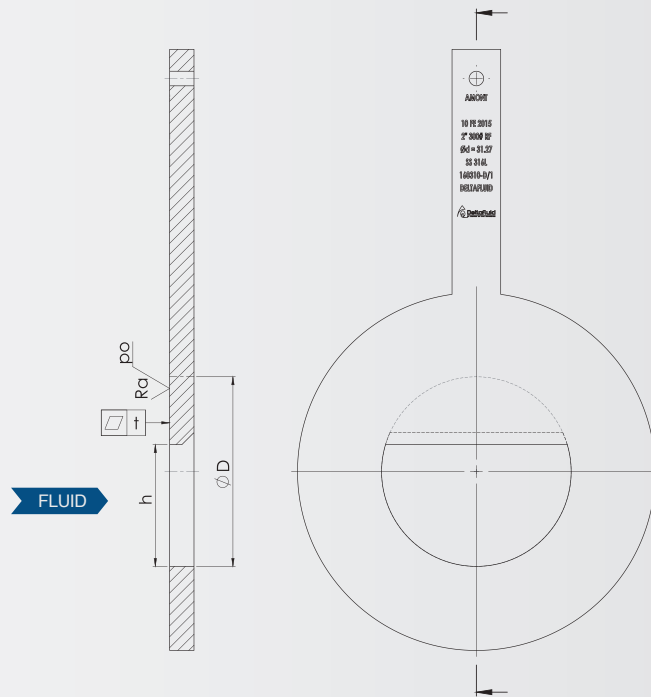
GENERAL DATA

- Standard: DIN VDI/VDE 2041
- 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 350 mm
- Accuracy: 1.2 % of the max flow rate
- Repeatability of measurement: 0.1 %

ΔP
0/0

ΔP
25/25

pressure taps⁽¹⁾



Optional: stellite coating⁽¹⁾

TECHNICAL CHARACTERISTICS

TECHNICAL CHARACTERISTICS		DIN VDI/VDE 2041
Re_D	Reynolds number in the pipe	$10^4 \leq Re_D \leq 10^6$
D	Inside pipe diameter	$50 \text{ mm} \leq D \leq 500 \text{ mm}$
h	Orifice height	$h \geq 12.5 \text{ mm}$
β	h/D	$0.316 \leq \beta \leq 0.707$
Ra	Upstream face roughness	$Ra \leq 10^{-4} \cdot h$
e	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	$t < 0.005 \cdot (D - h)/2$

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