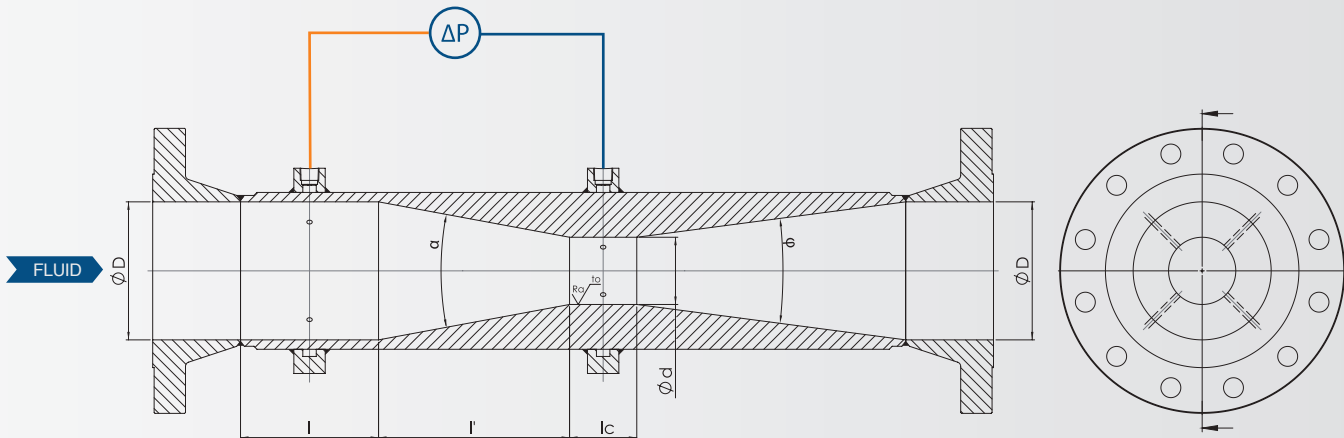


# MACHINED VENTURI TUBE

Suitable for small diameters and/or low permanent pressure drop

## GENERAL DATA

- Standards: ISO 5167-1&4 or ASME MFC-3M
- Weld-end (BW) or flanged connection<sup>(1)</sup>
- Material:
  - o Standard: carbon steel, stainless steel
  - o Others<sup>(1)</sup>: according to your application
- Fluid: liquid, gas, steam
- Pipes from  $\phi$  50 to 250 mm
- Accuracy: 1 % of the max flow rate
- Repeatability of measurement: 0.1 %



Upstream and throat pressure taps: annular chambers or four tappings with a «triple-T» arrangement

## TECHNICAL CHARACTERISTICS

		ISO 5167-1&4	ASME MFC-3M
$Re_D$	Reynolds number in the pipe	$2 \cdot 10^5 \leq Re_D \leq 10^6$	$2 \cdot 10^5 \leq Re_D \leq 6 \cdot 10^6$
D	Inside pipe diameter	$50 \text{ mm} \leq D \leq 250 \text{ mm}$	
$\beta$	$d/D$	$0.40 \leq \beta \leq 0.75$	$0.30 \leq \beta \leq 0.75$
$Ra$	Throat roughness	$Ra \leq 10^{-4} \cdot d$	
	Entrance cylinder and convergent roughness	$Ra \leq 10^{-4} \cdot d$	
I	Entrance cylinder minimal length	$I = D$	
I'	Entrance convergent length	$I' = 2.7 \cdot (D - d)$	
$\alpha$	Entrance convergent angle	$\alpha = 21^\circ \pm 1^\circ$	
$I_c$	Throat length	$I_c = d \pm 0.03 \cdot d$	
$\phi$	Exit divergent angle	$7^\circ \leq \phi \leq 15^\circ$	

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