

# ISA 1932 NOZZLE

Suitable for large flow rates with high speeds

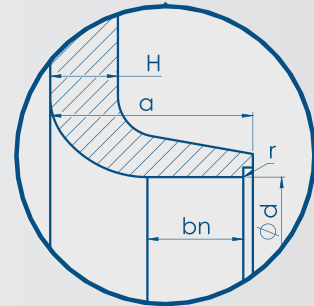
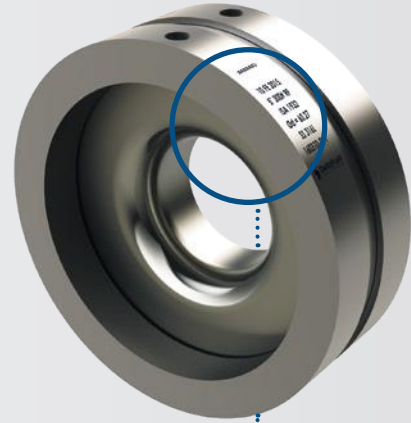
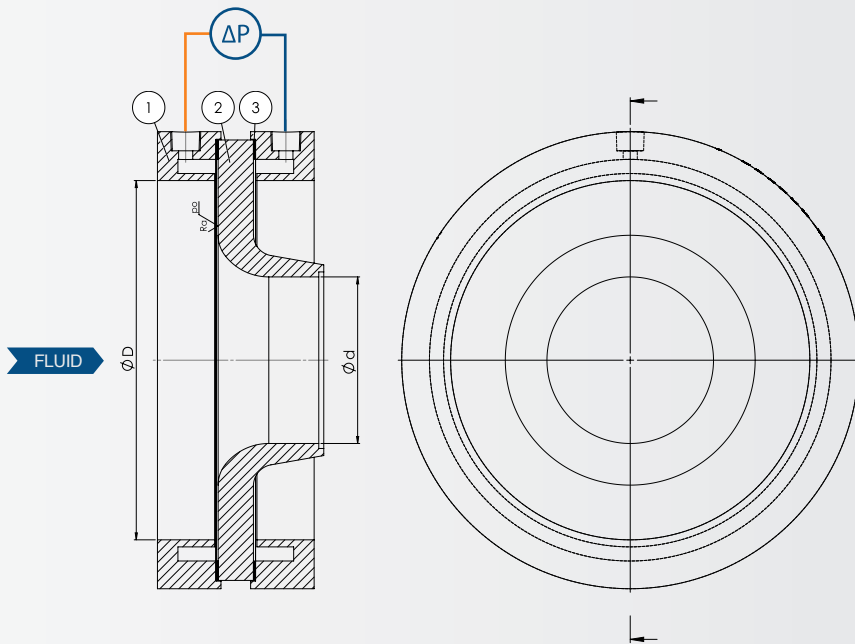
## GENERAL DATA

- Standards: ISO 5167-1&3 or ASME MFC-3M
- Flange mounting<sup>(1)</sup> :
  - o ISO PN 2.5 to 420
  - o ASME 150# to 2500#
  - o Others: upon request
- or weld-end connection (BW)
- 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 500 mm
- Accuracy: 0.8 % of the max flow rate
- Repeatability of measurement: 0.1 %

$\Delta P$   
O/O

pressure tap<sup>(1)</sup>

MARK	DESIGNATION
1	Annular chamber
2	ISA 1932 nozzle
3	Gasket



Optional: stellite coating<sup>(1)</sup>

## TECHNICAL CHARACTERISTICS

ISO 5167-1&3 & ASME MFC-3M

$Re_D$	Reynolds number in the pipe	$2 \cdot 10^4 \leq Re_D \leq 10^7$
D	Inside pipe diameter	$50 \text{ mm} \leq D \leq 500 \text{ mm}$
$\beta$	$d/D$	$0.3 \leq \beta \leq 0.8$
Ra	Roughness of the upstream face and throat	$Ra \leq 10^{-4} \cdot d$
$b_n$	Cylindrical throat length	$b_n = 0.3 \cdot d$
$a$	Nozzle total length	Upon request
r	Downstream sharp edge radius	$r < 0.000 \cdot 4 \cdot d$
H	Thickness	$H \leq 0.1 \cdot D$

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