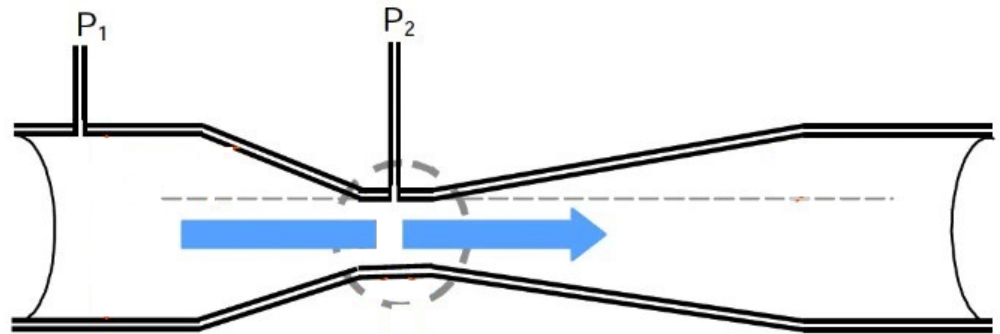


# VENTURI TUBES

## VT Series



### DESCRIPTION

Classical Venturi Tubes flowmeters (FE) are applied where a low permanent pressure loss is important, or when the upstream static pressure is low.

They allow the measurement of a higher flow rate than the orifice plate, with the same size. Are made by gradually narrowing with a truncated cone, where the fluid accelerates. The throat is the measuring point. The pipe line dimension is restored by divergent section always with a truncated cone.

### FEATURES

- Complete production control fully integrated inside the company and highly competent local suppliers.
- Qualified welders and welding procedures compliant with ASME IX and EN ISO 15614.
- Completely customizable on client's needs thanks to the support of our technical and sales departments.
- Over 60 years company experience with instruments installed in the entire world.
- Long working life ensured by high quality materials.

PROS	CONS
Suitable for a wide range of fluids, gases and vapours	Medium to high cost
Low permanent pressure loss.	Minimum Reynolds No. $> 2 \cdot 10^5$
Suitable for low upstream static pressure	
Suitable for high flow rates	
Lower upstream / downstream straight length compared to orifice plate	

### APPLICATIONS

- Oil & Gas plants, Refineries
- Chemical and petrochemical plants
- WATER / GAS treatment and distribution
- Power generation



## TYPICAL PERFORMANCES

- Range: 1 ÷ 4 (1 ÷ 5)
- Max. Pressure and Temperature, allowed by used materials
- Accuracy:  $\pm 1 - 2\%$  of F.S.
- Repeatability:  $\pm 0.1\%$

## ACCESSORIES ON REQUEST

- Nipples and Valves, Fittings, Condensing pots
- Manifold and Differential Pressure Transmitter
- Calibration

## TECHNICAL SPECIFICATIONS

USE	Liquids, Gases, Vapors	
DIMENSIONS	Machined from stock bar type	ND 2" ÷ 10" / DN 50 ÷ 300, option up to 14" / DN 350
	Rough welded sheet type	ND 12" ÷ 48" / DN 300 ÷ 1200 or higher on request
DESIGN	Flow Calculation and Construction	According to ISO-5167-4, ASME MFC-3M
	Pressure Taps Option	According to norm
	Option	Variants or extensions can be adapted to project requirements
ARRANGEMENTS	Flange ANSI B16.5 / ANSI B16.47 A - B / API 6B - 6BX	
	Flange EN-1092-1 / UNI 2223 / DIN	
RATING	ANSI/ASME - 150, 300, 600, 1500, 2500	
	EN-PN - 10, 16, 25, 40, 63, 100	
PROCESS CONNECTION	ANSI/ASME - RF, FF, RTJ with sealing surface AARH 125 ÷ 250, 63, or BW	
	EN-PN - Type 01, 11, 12 with sealing surface Type A, B1 e B2, or BW	
INSTRUMENT CONNECTION	With direct Pressure Taps	NPT-F - SW / Flanged RF - RTJ
	With Anular Chamber and Pressure Taps	NPT-F - SW / Flanged RF - RTJ
	With Piezometric Ring and Pressure Taps	NPT-F - SW / Flanged RF - RTJ
OTHER OPTIONS	Our technical and commercial departments are available to discuss any variation or customization not mentioned in this catalogue	

## MATERIALS

GENERAL	As per project specifications, however mainly according to ANSI/ASME/AISI code or according to EN/UNI/DIN codes. Certificates with requirements like NACE MR-0175 e MR-0103 /ISO 15156, Dual grade, and PED. Others to be evaluated on request.
VENTURI	Generally, according to project specification. Mainly Carbon Steel, Low Carbon Steel, Alloy Steel, Stainless Steel, Duplex / Super Duplex, Nichel Alloy Steel



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