

VENTURI TUBES

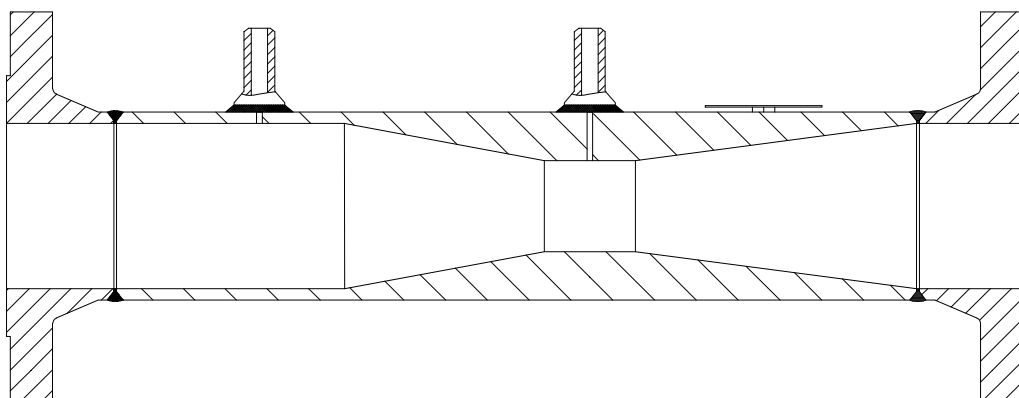
VT Series



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.



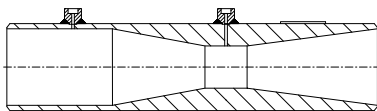
FEATURES

- 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

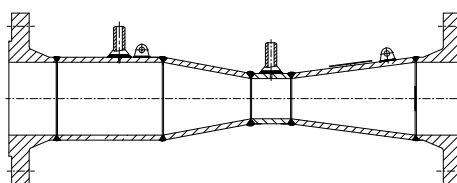
- Range: $1 \div 4$ ($1 \div 5$)
- Max. Pressure and Temperature, allowed by used materials
- Accuracy: $\pm 1 - 2\%$ of F.S.
- Repeatability: $\pm 0.1\%$

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" \div 10" / DN 50 \div 300, option up to 14" / DN 350
	Rough welded sheet type	ND 12" \div 48" / DN 300 \div 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 \div 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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