VENTURI TUBE

ELECTRONET™

Features

- Venturi Design as per BS EN ISO 5167
- Bi–Directional & Uni–directional Design available
- Range of Venturi Types
  1) Classical Venturi Tubes
  2) Venturi Nozzles
- Construction Fabricated / Machined
- Flanged or Weld–In Construction
- Available in wide variety of materials
- No moving parts, simple construction
- Maintenance Free

Description

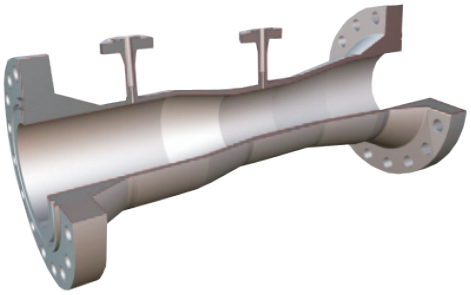
Electronet series Venturi is the second most common differential pressure primary flow element. It is based on proven technology ,has no moving parts and is suitable for high temperature and pressure applications. Venturi tubes offer advantages including an extremely low pressure loss, a higher durability and a lower chance of catching a sludge media and sediment than other throttle elements. The Venturi tube is mostly used for measurements of flow wherever a minimal loss of pressure is important. The major advantage of the Venturi over orifice plates and flow nozzles is in the area of pressure recovery . Typically, unrecovered pressure is in the region of 10 – 30% of measured DP as opposed to 40 – 90% for an orifice plate (depending onbeta ratio).

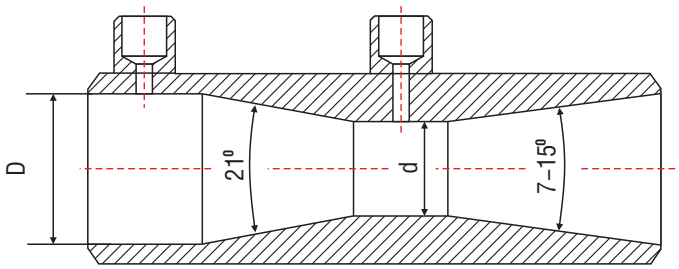
Technical Specifications

Line Size	Type A : 100 – 600 NB (4” – 24”)
	Type B : 50 – 250 NB (2” – 10”)
	Type C : 200 – 1200 NB (8” – 48”)
Types	Type A : Cast Convergent Section
	Type B– Machined Convergent
	Type C – Rough Welded Sheet– Iron Convergent Section
Accuracy	Type A : ± 0.7 %, Type B : ± 1.0 % Type C : ± 1.5 %

Classical Venturi

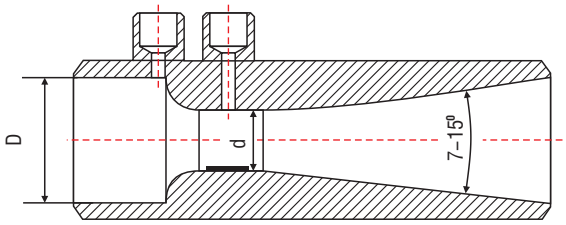
The basic design Classical Venturi (Machined) is as shown





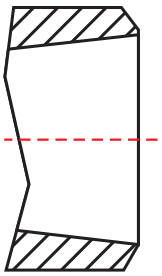
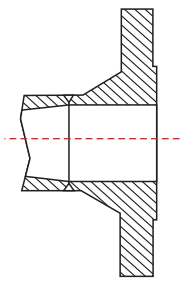
Venturi Nozzle

The basic design Venturi Nozzle (Machined) is as shown



End Connections

Venturis are available with ends prepared for welding into the pipeline, or fitted with flanges.

End Prepared for Welding	Flange Weldneck
	

Ordering Information

Sample Order Code :

FT 15	A1	B1	C2	D2	E4	G3	H2	I1	J1	K2	L2	M2	N3	O2	P4

Parameter		Code	Description	Code	Description	Code	Description
FT	Flow Tube	FT 15	15 NB	FT 100	100 NB	FT 450	450 NB
		FT 20	20 NB	FT 125	125 NB	FT 500	500 NB
		FT 25	25 NB	FT 150	150 NB	FT 600	600 NB
		FT 32	32 NB	FT 200	200 NB	FT 700	700 NB
		FT 40	40 NB	FT 250	250 NB	FT 800	800 NB
		FT 50	50 NB	FT 300	300 NB	FT 900	900 NB
		FT 65	65 NB	FT 350	350 NB	FT 1000	1000 NB
		FT 80	80 NB	FT 400	400 NB	FT Y	Other

Parameter		Code	Description
A	Flange Standard	A1	ASME B 16.36
		A2	ASME B 16.5
		A3	ASME B 16.47 (A)
		A4	ASME B 16.47 (B)
		AY	Other
		Ax	NA
B	Flange Rating	B1	ANSI 150#
		B2	ANSI 300#
		B3	ANSI 600#
		B4	ANSI 900#
		B5	ANSI 1500#
		B6	ANSI 2500#
		BX	NA
C	Flange Material	C1	A 105 C. S.
		C2	A 182 GR F11
		C3	A 182 GR F12
		C4	A 182 GR F22
		C5	A 182 GR F9
		C6	A 182 GR F 304
		C7	A 182 GR F 304L
		C8	A 240 GR 304
		C9	A 240 GR 304L
		C10	A 182 GR F 316
		C11	A 182 GR F 316L
		CY	Other
		CX	NA
D	Tapping Pairs	D1	1
		D2	2
		D3	3
		DY	Other
		DX	NA
E	Line Schedule	E1	Schedule 5
		E2	Schedule 10
		E3	Schedule 20
		E4	Schedule 30
		E5	Schedule 40
		E6	Schedule 60
		E7	Schedule 80
		E8	Schedule 100
		E9	Schedule 120
		E10	Schedule 140
		E11	Schedule 160
		E12	Schedule STD
		E13	Schedule XS
		E14	Schedule XXS
		E15	Schedule 5S
		E16	Schedule 10S
		E17	Schedule 40S
		E18	Schedule 80S
		E19	Schedule Low / A Class
		E20	Schedule Medium / B Class
		E21	Schedule Heavy / C Class
		EY	Other

Parameter		Code	Value
G	Plug Size & MOC	G1	½" NPT (M) C.S.
		G2	½" NPT (M) S.S.
		G3	½" BSP C.S.
		G4	½" BSP S.S.
		GY	Other
		GX	NA
H	Certification	H1	IBR
		H2	NON IBR
		H3	NACE
		HY	Other
		HX	None
I	Venturi Type	I1	Machined Convergent
		I2	Rough Welded Sheet Iron
		I3	Cast Convergent
J	Venturi End Connection	J1	Flanged
		J2	Butt Welded
K	Venturi End Flange Type	K1	WNRF
		K2	SORF
		K3	RTJ
		K4	Slip on RF
		KY	Other
		KX	NA
L	Venturi Type Of Tapping	L1	Threaded
		L2	Socket Weld
		L3	Welding Nipple
		LY	Other
M	Convergent & Divergent Cone MOC	M1	A 106 GR B
		M2	A 335 – GR P11
		M3	A 335 – GR P22
		M4	A 335 – GR P91
		M5	A 312 – TP 304
		M6	A 312 – TP 316
		M7	A 312 – TP 304L
		M8	A 312 – TP 316L
		M9	A 276 Gr – SS304
		M10	A 276 Gr – SS316
		M11	A 276 Gr – SS304L
		M12	A 276 Gr – SS316L
		M13	IS 2062 Gr–B
		M14	IS 516–60 / 70
		M15	A 240 – SS304
		M16	A 240 – SS316
		M17	A 240 – SS304L
		M18	A 240 – SS316L
		MY	Other

Note :
- Due to our continuous product revisions, design specification and model numbers are subject to change without notice.
- Accuracy defined at Lab Conditions.
- For other requirement please consult factory.

Ordering Information

Sample Order Code :

FT 15	A1	B1	C2	D2	E4	G3	H2	I1	J1	K2	L2	M2	N3	O2	P4

	Parameter	Code	Value
N	Ventury Throat MOC	N1	A 276 Gr – SS304
		N2	A 276 Gr – SS316
		N3	A 276 Gr – SS304L
		N4	A 276 Gr – SS316L
		N5	A 106 GR B
		N6	A 335 – GR P11
		N7	Hastelloy C
		N8	A312 TP–304
		N9	A312 TP–316
		N10	A312 TP–304L
		N11	A312 TP–316L
		N12	IS 2062 Gr–B
		N13	IS 516–60 / 70
		N14	A 240 – SS304
		N15	A 240 – SS316
		N16	A 240 – SS304L
		N17	A 240 – SS316L
		NY	Other
		NX	NA
O	Venturi Inlet Cylinder MOC	O1	A 276 Gr – SS304
		O2	A 276 Gr – SS316
		O3	A 276 Gr – SS304L
		O4	A 276 Gr – SS316L
		O5	A 106 GR B
		O6	A 335 – GR P11
		O7	Hastelloy C
		O8	A312 TP–304
		O9	A312 TP–316
		O10	A312 TP–304L
		O11	A312 TP–316L
		O12	IS 2062 Gr–B
		O13	IS 516–60 / 70
		O14	A 240 – SS304
		O15	A 240 – SS316
		O16	A 240 – SS304L
		O17	A 240 – SS316L
		NY	Other
		NX	NA

	Parameter	Code	Value
P	Venturi Outlet Cylinder MOC	P1	A 276 Gr – SS304
		P2	A 276 Gr – SS316
		P3	A 276 Gr – SS304L
		P4	A 276 Gr – SS316L
		P5	A 106 GR B
		P6	A 335 – GR P11
		P7	Hastelloy C
		P8	A312 TP–304
		P9	A312 TP–316
		P10	A312 TP–304L
		P11	A312 TP–316L
		P12	IS 2062 Gr–B
		P13	IS 516–60 / 70
		P14	A 240 – SS304
		P15	A 240 – SS316
		P16	A 240 – SS304L
		P17	A 240 – SS316L
		NY	Other
		NX	NA

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