



## VENTURI TUBE

### 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

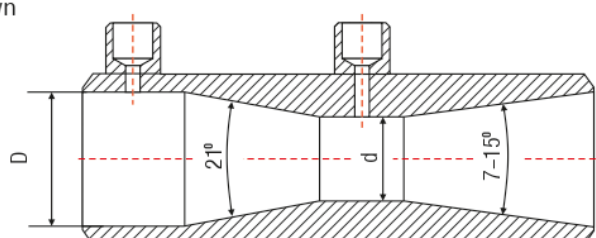
Electronet series Venturi is the second most common differential pressure primary flow element. It is based on proven technology, has no moving parts and is suitable for high temperature and pressure applications. Venturi tubes offer advantages including an extremely low pressure loss, a higher durability 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 on beta 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 : $\pm 0.7\%$ ,                               | Type B : $\pm 1.0\%$ | Type C : $\pm 1.5\%$ |

### Classical Venturi

The basic design Classical Venturi (Machined) is as shown

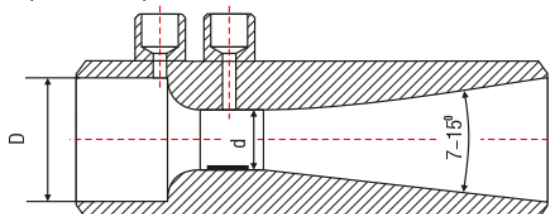




# VENTURI TUBE

## Venturi Nozzle

The basic design Venturi Nozzle (Machined) is as shown



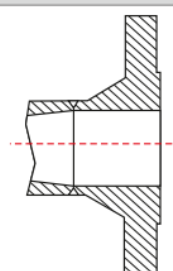
## End Connections

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: Venturi Tube-FT15-A1-B1-C1-D1-E1-F1-G1-H1-I1-J1-K1-L1-M1-N1

| Parameter |                         | Code   | Value           | Code    | Value        |
|-----------|-------------------------|--------|-----------------|---------|--------------|
| FT        | Line Size               | FT 15  | 15NB            | FT 250  | 250NB        |
|           |                         | FT 20  | 20NB            | FT 300  | 300NB        |
|           |                         | FT 25  | 25NB            | FT 350  | 350NB        |
|           |                         | FT 32  | 32NB            | FT 400  | 400NB        |
|           |                         | FT 40  | 40NB            | FT 450  | 450NB        |
|           |                         | FT 50  | 50NB            | FT 500  | 500NB        |
|           |                         | FT 65  | 65NB            | FT 600  | 600NB        |
|           |                         | FT 80  | 80NB            | FT 700  | 700NB        |
|           |                         | FT 100 | 100NB           | FT 800  | 800NB        |
|           |                         | FT 125 | 125NB           | FT 900  | 900NB        |
|           |                         | FT 150 | 150NB           | FT 1000 | 1000NB       |
|           |                         | FT 200 | 200NB           | FTY     | Other        |
|           |                         | A      | Flange Standard | A1      | ASME B 16.36 |
| A2        | ASME B 16.5             |        |                 |         |              |
| A3        | ASME B 16.47 Series (A) |        |                 |         |              |
| A4        | ASME B 16.47 Series (B) |        |                 |         |              |
| AY        | Other                   |        |                 |         |              |
| B         | Flange Rating           | B1     | ANSI 150#       |         |              |
|           |                         | B2     | ANSI 300#       |         |              |
|           |                         | B3     | ANSI 600#       |         |              |
|           |                         | B4     | ANSI 900#       |         |              |
|           |                         | B5     | ANSI 1500#      |         |              |
|           |                         | B6     | ANSI 2500#      |         |              |
|           |                         | BY     | Other           |         |              |

| Parameter |               | Code | Value           |
|-----------|---------------|------|-----------------|
| C         | Flange MOC    | 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              |

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

| Parameter |                 | Code | Value                     |
|-----------|-----------------|------|---------------------------|
| 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                     |
| F         | Plug Size & MOC | F1   | ½" NPT (M) C.S.           |
|           |                 | F2   | ½" NPT (M) S.S.           |
|           |                 | F3   | ½" BSP C.S.               |
|           |                 | F4   | ½" BSP S.S.               |
|           |                 | FY   | Other                     |
|           |                 | FX   | NA                        |
| G         | Certification   | G1   | IBR                       |
|           |                 | G2   | Non IBR                   |
|           |                 | G3   | NACE                      |
|           |                 | GY   | Other                     |
|           |                 | GX   | NA                        |

| Parameter                                                                                                                                                                                                                                                                                                                                                                                                                                          |                         | Code | Value                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|------|-------------------------|
| H                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Venturi Type            | H1   | Machined Convergent     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         | H2   | Rough Welded Sheet Iron |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         | H3   | Cast Convergent         |
| I                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Venturi End Connection  | I1   | Flanged                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         | I2   | Butt Welded             |
| J                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Venturi End Flange Type | J1   | WNRF                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         | J2   | SORF                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         | J3   | RTJ                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         | JY   | Other                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         | JX   | NA                      |
| K                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Venturi Type of Tapping | K1   | Threaded                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         | K2   | Socket Weld             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         | K3   | Welding Nipple          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         | KY   | Other                   |
| L                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Convergent Cone MOC     | L1   | 516 GR 60               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         | L2   | SS 316                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         | L3   | SS 304                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         | LY   | Other                   |
| M                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Divergent Cone MOC      | L1   | 516 GR 60               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         | L2   | SS 316                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         | L3   | SS 304                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         | LY   | Other                   |
| N                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Throat MOC              | N1   | SS 316                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         | N2   | SS 304                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         | NY   | Other                   |
| Note : <ul style="list-style-type: none"><li>Due to our continuous product revisions, design specification &amp; model numbers are subject to change without notice.</li><li>To be used for industrial applications.</li><li>Accuracy defined at Lab Conditions.</li><li>For other requirement please consult factory.</li><li>This product is meant for laboratory/Process application only &amp; not for custody transfer application.</li></ul> |                         |      |                         |

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