



Venturi Tubes

Venturi tubes are reliable, easy to use and maintenance free flow meters. Venturi tubes are particularly well suited to the measurement of clean liquids and gases. Venturi tubes are preferred over other differential pressure flow meters as their design encourages a higher pressure recovery and reduced upstream and downstream pipe requirements. Also Venturi tubes do not require the use of flow conditioning devices upstream of the high pressure tapping.

STVEN-02

FEATURES

- Sur-Tech Venturi tubes are available from 2" to 50" line sizes weld x weld or any flanged arrangement. There are typically 3 manufacturing methods of Venturi tube;

ISO 5167-4

- Cast form - for sizes 4" to 32", betas 0.3 to 0.75
- Machined - for sizes 2" to 10", betas 0.4 to 0.75
- Welded form - for sizes 8" to 48", betas 0.4 to 0.7

ASME MFC-3M part 4

- Cast form - for sizes 4" to 48", betas 0.3 to 0.75
- Machined - for sizes 2" to 10", betas 0.3 to 0.75
- Welded form - for sizes 4" to 48", betas 0.3 to 0.75

Venturi tubes are available in 3 length forms:

- Long form (7° convergent angle outlet)
- Short form (15° convergent angle outlet)
- Truncated (reduction of the convergent outlet by 35%)

ORDERING INFORMATION

| | | | |
|----------------|---|---|---|
| SIZES | Nominal line size 2" to 48" (50DN to 1200DN) – other sizes available upon request | | |
| SCHEDULE | Pipe schedule or custom ID | | |
| PRESSURE | 150-2500 ANSI & up to 10,000 PSI | | |
| CONFIGURATION | Weld x Weld 'W', Flange x Flange 'F' or Hub x Hub 'H' | | |
| FLANGE FACINGS | RF = Raised Face RTJ = Ring Type Joint | BX = API C = Custom | (Flanges to ASME B16.5, B16.47, API 6A) |
| FORM | Long Form 'L', Short Form 'S' and Truncated 'T' | | |
| QTY | Number of pairs of Tappings or if Annular quantity is 1 pair | | |
| TAPPINGS | Thread-o-let 'T', Flanged 'F', Annular Ring 'A' or custom 'C' | | |
| MATERIALS | C = Carbon Steel 316 = 316 St. Steel | D = Duplex SD = Super Duplex | M = Monel |

WORKED EXAMPLES

Part number format for ordering is as follows;

SIZE-SCH-PRESSURE-CONFIG-FACING-FORM-QTY&TAP-MTL

| | |
|-------------------------------|--|
| STVEN-8-80-600-F-RF-L-2T-316 | 8" Sch.80 600# RF Flange x RF Flange Long Form Venturi with 2 pairs of Thread-o-lets taps in 316 |
| STVEN-24-120-900-F-RTJ-S-2F-C | 24" Sch.120 900# RTJ Flange x RTJ Flange Short Form Venturi with 2 pairs of Flanged taps in Carbon |