



Sur-Tech Differential Pressure Cone Meter

The Differential Pressure Cone Flow Meter has a cone-shaped element which shapes the flow profile ahead of the differential pressure (DP) measurement port without impacting the flow against a sharp surface, creating an extremely stable signal for measurement with minimal wear on the cone edge.

The differential pressure cone meter utilizes the center element to straighten the flow and create an ideal dynamic which allows differential pressure technology to be used in a unique way providing extensive flexibility in a wide variety of applications.

SUR-TECH FLANGED DIFFERENTIAL PRESSURE CONE METER

STCM-05

FEATURES

- Precise accuracy and repeatability
- Little or no straight run piping requirements; Low head loss
- No additional flow conditioning devices needed
- Low maintenance (no moving parts) and long life
- Designed and manufactured in accordance to ISO 5167-5
- ANSI rating 10,000 PSI

OPERATING PRINCIPLE

The V-Cone differential pressure meter utilizes the center element to straighten the flow and create an ideal dynamic which allows differential pressure technology to be used in a unique way providing extensive flexibility in a wide variety of applications.

SPECIFICATIONS

Size	1" - 24"
End Connections	Wafer, Threaded, Flanged, Butt Weld
ANSI	10,000 PSSI
Construction Materials	304/304L, 316/316L stainless steel, A106 carbon steel, other materials on request
Approvals	CRN, NACE MRO130, NACE MRO175
Applications	Liquids, steam, air and industrial gases
Flow Range	10:1 and greater
Installation Piping Requirements	Typically 0... 3 diameters upstream and 0... 1 diameters downstream of the cone are required, depending on fittings or valves in the adjacent pipeline
Standard Beta Ratio	0.40... 0.80 (special betas available)
Repeatability	± 0.1% or better

WORKED EXAMPLE Part number format as follows; **SIZE-ANSI-SCH-CONFIG-FACING-TAP-MTL**

STCM-4-600-80-F-RF-F-316	Cone Meter 4" 600# Sch.80 Flange RF x Flange RF, 2 Flanged taps in 316 Stainless Steel
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