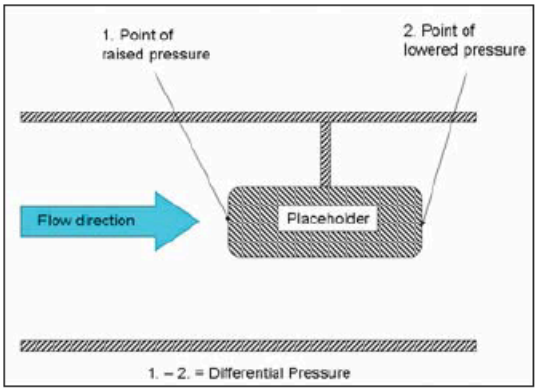
PROTEK
Processteknik GH AB

Nivå och Flödesutrustning

(Flow Sensors working acc. to the differential pressure principle)

Product Description



Once an object is brought into a laminar flowing fluid inside a pipe, the fluid will dam up in front of the object, which generates a raise of pressure. Passing the object the fluid gets accelerated due to the smaller pipe cross section. This acceleration generates a pressure drop on the backside of the object. As all operational conditions at the place of measurement are known, the volume of flow can be calculated by using the difference of the two pressures. D.P. flow elements are Itabar-Flow-Sensors, Orifices and:

Integral Orifice

- Small pipe diameters
- High precision
- With differential pressure transmitter
- Easy installation / simple maintenance

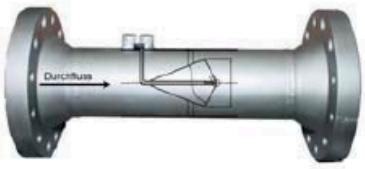
Wedge Meter

- Suitable for a wide Reynolds range of flow measurement, for measuring clean and non-clean fluids such as slurries. With shorter lengths of straight pipe for upstream & downstream compared to other fluid meter with excellent repeatability and accuracy. Wedge tube can be manufactured according to end user's specification.

Venturi with flanged process connection

- Slurry fluids, viscous fluids, low temperature
- Saturated or superheated steam

Cone Flow Meter



♦ A new concept of flow measurement by differential pressure principle. It eliminates the weak points of orifice plate & Vortex flow meter.
♦ Turn down ratio 1 : 10

Venturi

♦ Used for flow measurement when the most important point is to keep the permanent pressure loss on a minimum. Known for a long life span.

Flow Nozzle

All differential pressure instruments are available in C.S., Stainless Steel, Alloy Steel and Titanium. Other materials on request.

Level and Flow Measuring Management