Hot Tap Models

Differential Pressure Flow Sensors

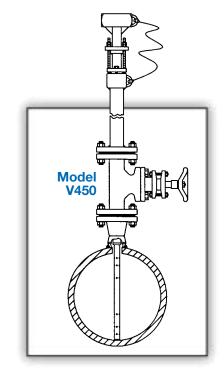
V450 Low Pressure Hand Insertion Flanged Components

The Most Accurate and Reliable Technology for Measuring Gas, Liquid and Steam...

Developed from aerospace technology, the *Verabar*[®] averaging pitot flow sensor provides unsurpassed accuracy and reliability. With its solid, one-piece construction and bullet shape, the *Verabar* makes flow measurement leak proof and precise.

The unique sensor shape reduces drag and flow induced vibration.

The location of the low-pressure ports eliminates the potential for clogging and improves signal stability.

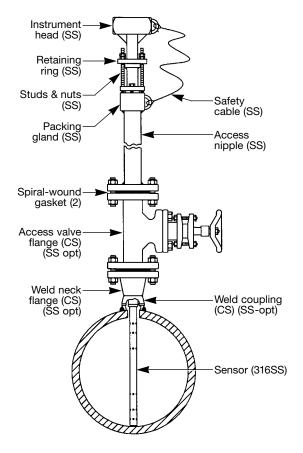


V450 Hot Tap					
Pipe Connection	Flanged				
Mounting Type	Flanged ball or gate access valves				
Features and Benefits	 Lowest cost flanged hot tap model Installation, insertion & retraction without system shutdown Hand insertion and retraction for low pressures (no threaded rods) Retaining ring loads sensor to the opposite wall Can mount to existing flanges or valves 				
Applications	Low pressure Air Stack/flue gas Water Hydrocarbon and other gases				
Special Designs— Consult Factory	Custom mounting, lengths, materials, instrument connections, etc. Short straight run				

Model Specifications	V450				
Sensor Code	10	15			
Sensor Diameter	7/8" (22mm) 1-3/8" (35mm)				
Max Pressure	30 psig (2.1 Bars)	10 psig (0.7 Bars)			
Pipe Size	6"- 42" (150mm -1050mm)	12"- 60" (300mm -1500mm)			
Instrument Connection	1/2" NPT or Direct Mount				
Components Furnished	Weld coupling, weldneck flange, access valve, gaskets, studs & nuts				
Flange Size	1-1/2"	2"			

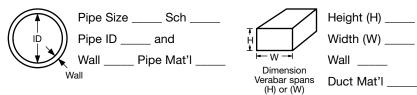
Verabar. Hot Tap Models

V450 Low Pressure



Furnish the following information:

1. Enter Pipe Dimensions or Duct Dimensions



2. Pipe or Duct Orientation



3. Enter Flow Conditions

Fluid Name:		Maximum	Normal	Minimum	Units
Flow Rate					
All Fluids	Temperature @ Flow				
	Pressure @ Flow				
Gas	Specific Gravity, or Molecular Weight				
Liquid	Specific Gravity				
Steam	Veracalc Program can calculate Density from Temperature and Pressure				

4. Select Model from page 3.

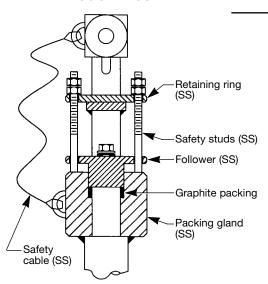
Use the Ordering Information table on page 3 to determine your model number.

5. Flow Calculation



All Verabar applications require a flow calculation to verify the DP, pressure and temperature limits, structural limits and to size the transmitter. The Veracalc PC Program is for use by representatives and end users. It is easy to operate and *includes steam tables*.

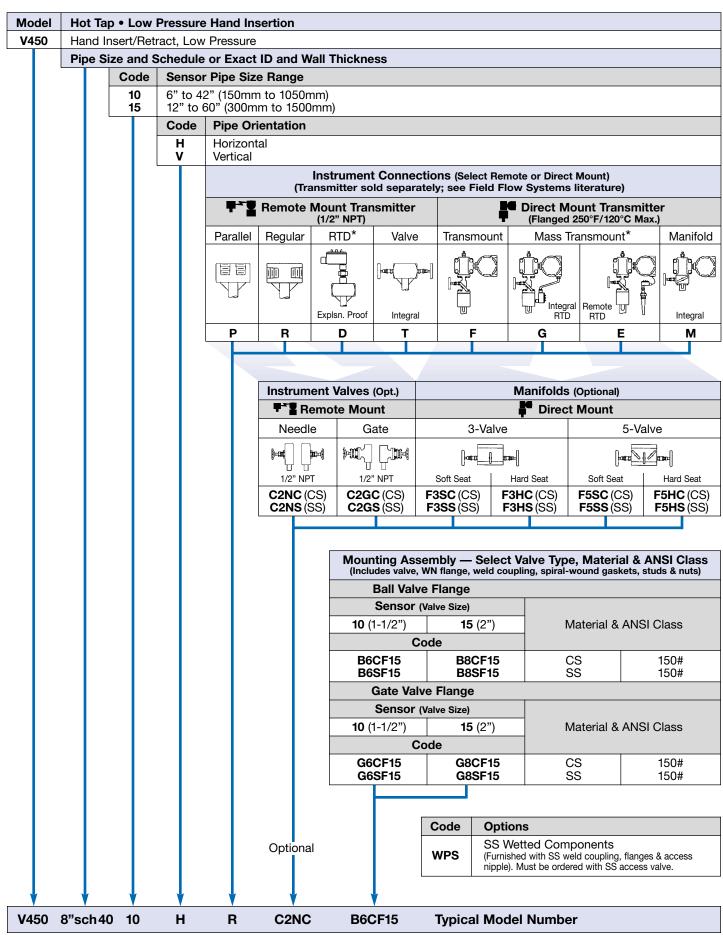
Model V450



Retaining Hardware

- Eliminates drive rods.
- Safety cable ensures proper sealing of packing gland during retraction.
- Retaining ring loads sensor to opposite pipe wall.

Ordering Information



^{*} For high pressure (>500psig) and high temperature (>500°F) remote mount RTD in a thermowell is preferred.

