



V450 Low Pressure Hand Insertion

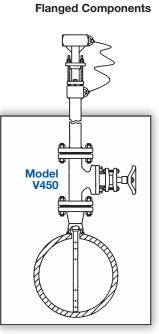
Hot Tap Models

Differential Pressure Flow Sensors

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)			
Accuracy	±1% of flow rate; ±0.5% if calibrated				
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"			

Reading Office

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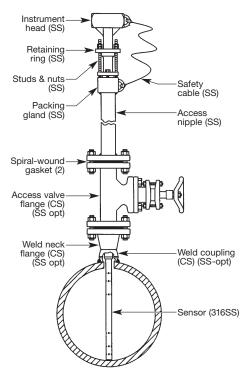




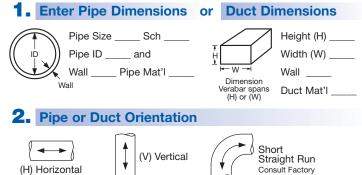


Hot Tap Models

V450 Low Pressure



Furnish the following information:



3. Enter Flow Conditions

Fluid Name:		Maximum	Normal	Minimum	Units
Flow Rate					
All	Temperature @ Flow				
Fluids	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

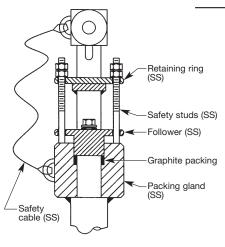
Use the Ordering Information table on Page 3 to determine your model number.

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 limits retraction length to ensure proper sealing of packing gland
- Retaining ring loads sensor to opposite pipe wall

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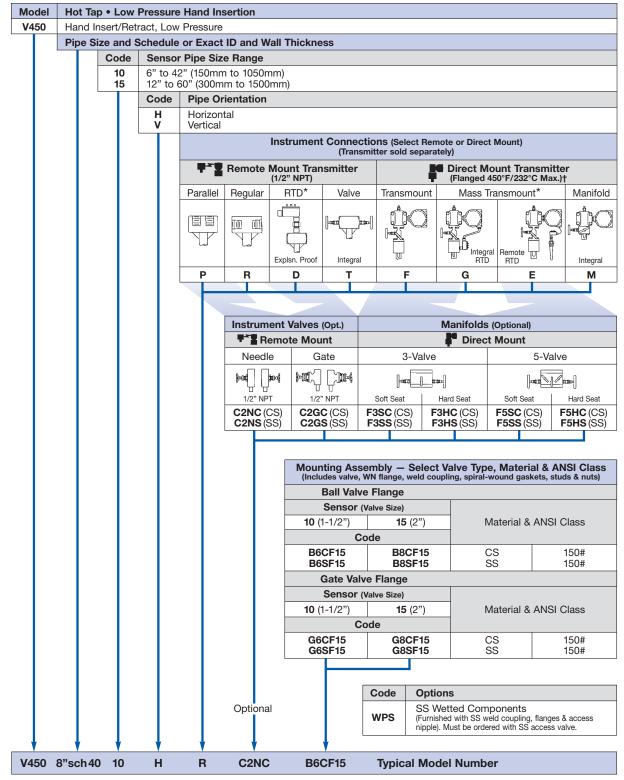








Ordering Information



* For high pressure (>500psig) or high temperature (>500°F), remote mount RTD in a thermowell is preferred. † Assuming adequate heat dissipation for transmitter.

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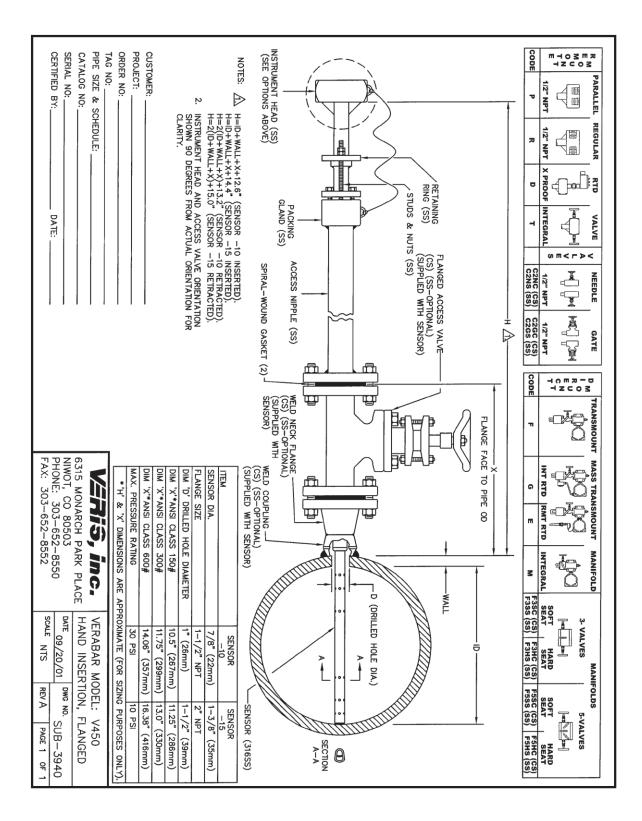
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