



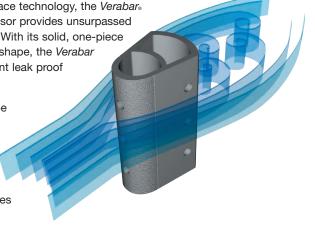
# Regular Models

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.



Model V150
///////////////////////////////////////

V150 Spring Lock **Threaded Components** 

V150 Spring Lock						
Pipe Connection	Threaded (NPT)					
Mounting Type	Spring loaded sensor with packing gland					
Features and Benefits	Best valued model Blow-out and leak proof design Preloads sensor to opposite wall Four times stronger than conventional mountings Eliminates need for opposite end support Compensates for changes in pipe diameter due to pressure, temperature or mechanical force					
Applications  • Air (compressed, combustion) • Natural gas • Water (raw, cooling, feedwater) • High velocity fluids • Steam						
Special Designs – Consult Factory	<ul> <li>Custom mounting, lengths, materials, instrument connections, etc.</li> <li>Short straight run</li> </ul>					

Temperature Pressure Limits (ANSI Class)*
600#
1440 psig @ 100°F (99.3 Bars @ 38°C)
825 psig @ 800°F (56.9 Bars @ 426°C)

<b>Model Specifications</b>	V150				
Sensor Code	05	10	15		
Sensor Diameter	7/16" (11mm)	7/8" (22mm)	1-3/8" (35mm)		
Accuracy	±1% of flow rate; ±0.5% if calibrated				
ANSI Class*	600#	600#	600#		
Pipe Size	2"-6" (50mm-150mm)	6"- 42" (150mm-1050mm)	12"-60" (300mm-1500mm)		
Instrument Connection	1/2" NPT	1/2" NPT or Direct Mount			
Components Furnished	Weld coupling, Spring lock mounting assembly				
Weld Coupling Size	3/4" NPT	1" NPT 2" NPT			

<sup>\*</sup> DIN and JIS flanges available. Consult factory.





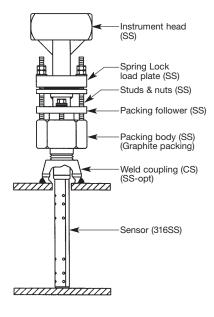






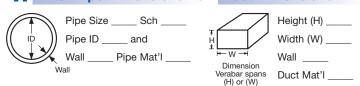
## Regular Models

#### V150 Spring Lock



#### 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

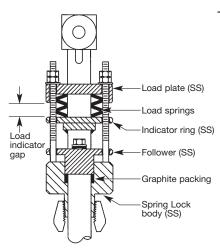
Use the Ordering Information table on Page 3 to determine your model number.

### 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 V150



#### **Spring Lock Mount**

- Design ensures the sensor is sealed, locked and pre-loaded to the opposite wall, regardless of changes in pipe diameter due to pressure, temperature or mechanical vibrations.
- Leak-proof...compensates for differential in packing and body growth rates due to increased temperatures.
- Increases sensor strength (eliminates the need for an opposite wall support). A locked, pre-loaded sensor is four times stronger than a non pre-loaded, cantilevered sensor.
- Spring Lock is engineered with three standard spring configurations equivalent to ANSI class 150#, 300# and 600# ratings.
- By loading the sensor and packing independently, the sensor can move axially to maintain a precise load on the pipe wall.

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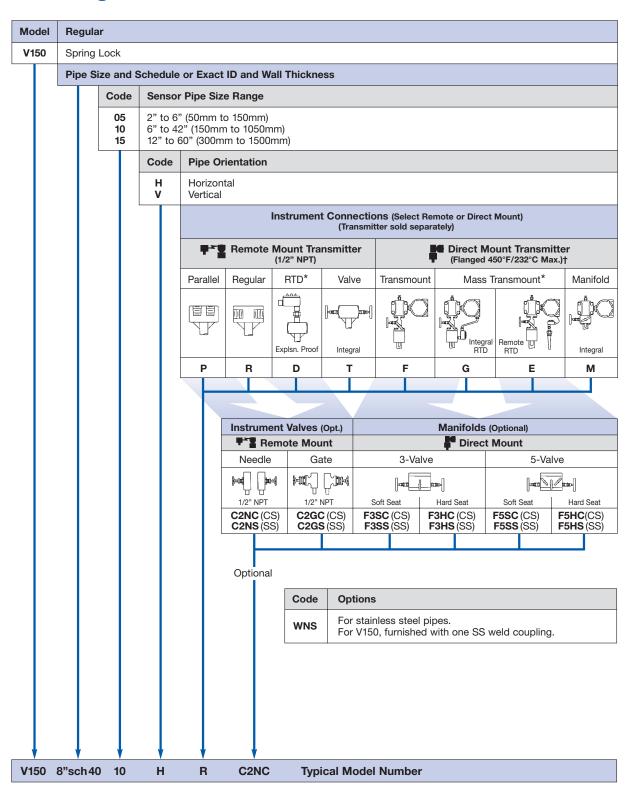








## **Ordering Information**



<sup>\*</sup> 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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