Flanged Models

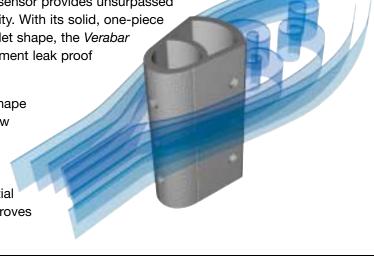
Differential Pressure Flow Sensors

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.

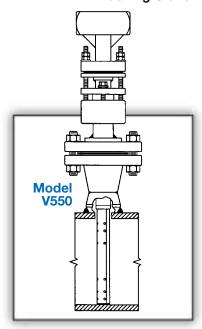
The location of the low-pressure ports eliminates the potential for clogging and improves signal stability.



V550 Flanged Spring Lock				
Pipe Connection Flanged				
Mounting Type	Spring loaded sensor mounted on flange with packing gland			
Features and Benefits	 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 Can mount to existing flanges 			
Applications	 Air Natural gas Water (raw, cooling, feedwater) Hydrocarbon liquids and gases High velocity fluids Hazardous fluids Steam 			
Special Designs— Consult Factory	 Custom mounting, lengths, materials, instrument connections, etc. Short straight run 			

Model Specifications	V550				
Sensor Code	05	10	15		
Sensor Diameter	7/16" (11mm)	7/8" (22mm) 1-3/8" (35mn			
ANSI Class	150#, 300# and 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	Spring lock mounting assembly, weld coupling, weldneck flange, gasket, studs & nuts				
Flange Size	1"	1-1/2"	2"		

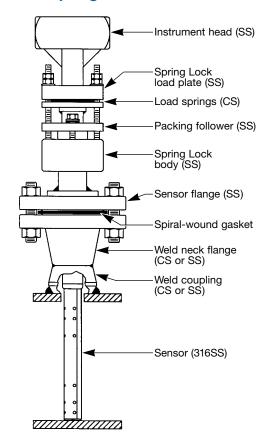
V550 Spring Lock Flanged Connection with Packing Gland



Temperature Pressure Limits (ANSI Class)
150#
275 psig @ 100°F (19 Bars @ 38°C)
80 psig @ 800°F (5.5 Bars @ 426°C)
300#
720 psig @ 100°F (49.6 Bars @ 38°C)
330 psig @ 800°F (22.8 Bars @ 426°C)
600#
1440 psig @ 100°F (99.3 Bars @ 38°C)
660 psig @ 800°F (45.5 Bars @ 426°C)

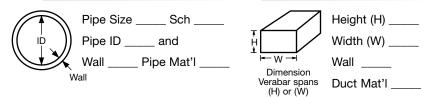
Verabar. Flanged Models

V550 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.

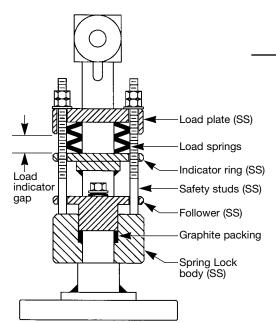
Use the Ordering Information table on page 3 to determine your model number.

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*.

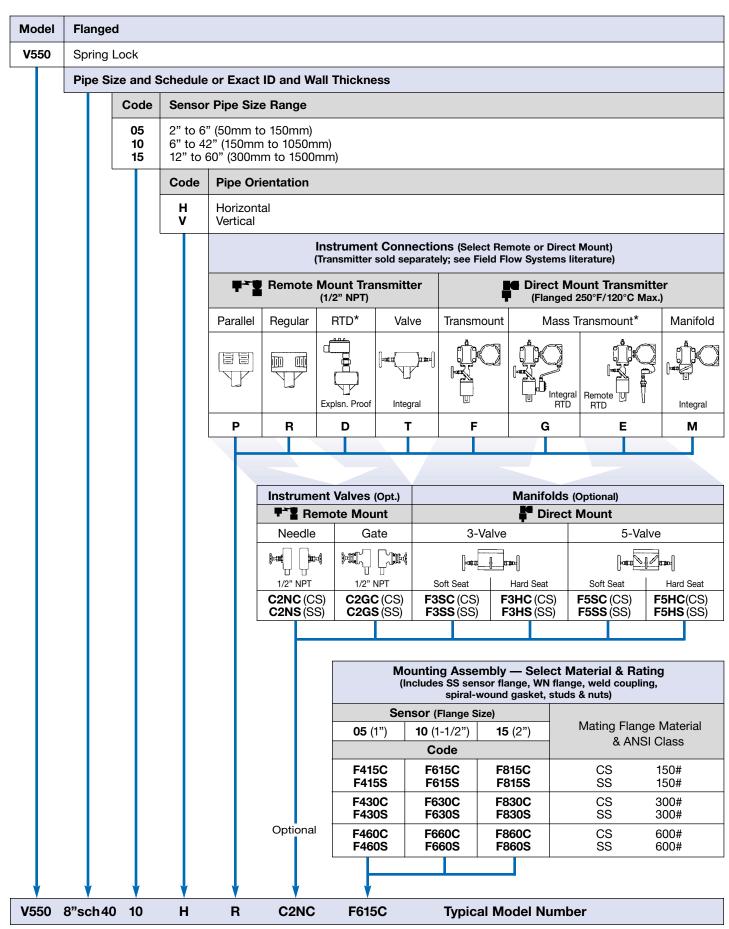
Model V550



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.

Ordering Information



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

