

Flanged Models

Differential Pressure Flow Sensors

V500 Single Support V510 Double Support Flanged Components

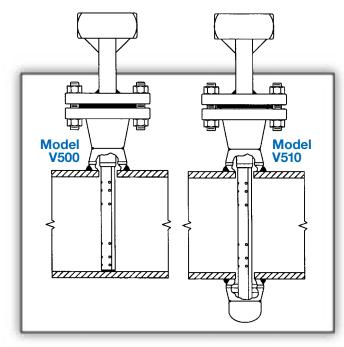
The Most Accurate and Reliable Technology for Measuring Gas, Liquid and Steam...

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.



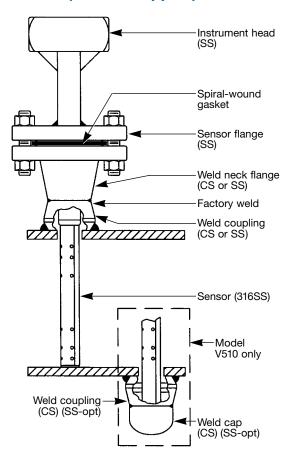
V500 Single Support V510 Double Support					
Pipe Connection	Flanged				
Mounting Type	Flanged up to ANSI Class 2500#				
Features and Benefits	 All welded mounting Preferred mounting in power, petrochemical and refining industries Can mount to existing flanges 				
Applications	 Air Natural gas Hydrocarbon liquids and gases Water (raw, cooling, feedwater) Hazardous fluids Steam Large pipes and ducts 				
Special Designs— Consult Factory	 Custom mounting, lengths, materials, instrument connections, etc. Short straight run 				

Model Specifications	V500 and V510				
Sensor Code	05	10	15		
Sensor Diameter	7/16" (11mm)	7/8" (22mm) 1-3/8" (35mm)			
ANSI Class	150#, 300#, 600#, 1500# and 2500#				
Pipe Size	2"-6" (50mm-150mm)	6"-48" 12"-192" (300mm-5000			
Instrument Connection	1/2" NPT or Socket Weld	1/2" NPT, Socket Weld or Direct Mount			
Components Furnished	Weld coupling, weldneck flange, gasket, studs & nuts V510 includes additional weld coupling and pipe cap.				
Flange Size	1"	1-1/2" 2"			

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)					
1500#					
3600 psig @ 100°F (248.2 Bars @ 38°C)					
205 psig @ 1500°F (14.1 Bars @ 815°C)					
2500#					
6000 psig @ 100°F (413.7 Bars @ 38°C)					
345 psig @ 1500°F (23.8 Bars @ 815°C)					

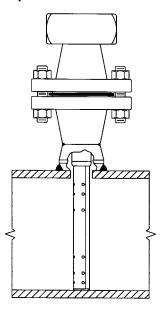
Verabar. Flanged Models

V500 (Single Support) V510 (Double Support)



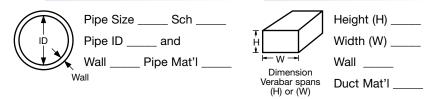
High Pressure and Temperature

Applications up to ANSI Class 2500#



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*.

Unique Design Features

High Pressure Threaded (HPT) and High Pressure Socket (HPS) designs offer the highest possible pressure and temperature capabilities. When pressure containment and safety are primary concerns, the HPT/HPS has the strongest and safest design in the industry.

As with all Veris designs, it meets ANSI/ASME B31.1 and can be supplied with code welding (ASME Section IX), hydrostatic testing, N.A.C.E. and material traceability.

Applications

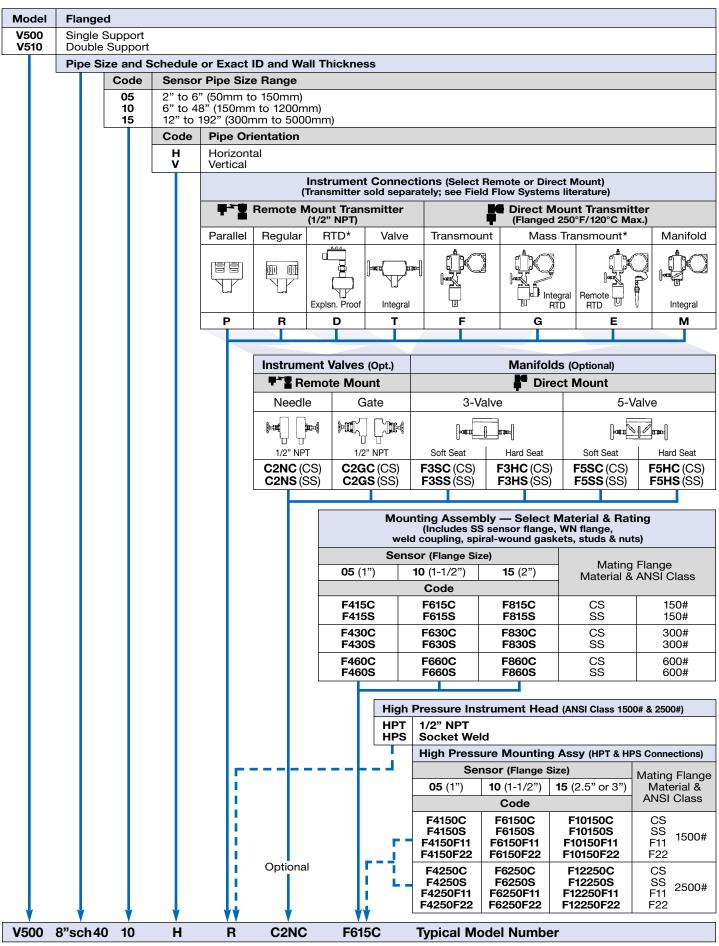
Main Header Steam Lines Used for high pressure and temperature applications such as main header steam lines.

For these applications, pipe mounting assemblies are available in chrome-moly material (ASTM A182 F11 & F22).

Other Applications

- High pressure and temperature gasses and liquids.
- · Natural gas transmission lines.
- Boiler feed water lines.
- Oil well injection lines.

Ordering Information



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

