# V100 & V110 Compression Fitting

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

Developed from aerospace technology, the VERIS Verabar® averaging pitot flow sensor provides unsurpassed accuracy and reliability.

V100



With its solid, one-piece construction and bullet shape, the VERIS Verabar® makes flow measurement leak resistant and precise. The unique sensor shape reduces drag and flow induced vibration. The location of the low-pressure ports significantly reduces the potential for clogging and improves signal stability.

V110



V100 Single Support and V110 Opposite Support				
Pipe Connection	Connection Threaded (NPT)			
Mounting Type	unting Type Tube fitting			
Features and Benefits  • Most cost effective model • Installed in less than one hour • Low and medium pressures				
Applications	<ul> <li>Pipes (steel, PVC, FRP, copper)</li> <li>Air (compressed, combustion)</li> <li>Natural gas</li> <li>Stack/flue gas</li> <li>Water (raw, cooling, feedwater)</li> <li>Low pressure steam</li> <li>Non-hazardous fluids</li> </ul>			
Special Designs — Consult Factory	Custom mounting, lengths, materials,instrument connections, etc.     Short straight run			

Model Specifications	V100 and V110				
Sensor Code	05	10			
Sensor Diameter	7/16" (11mm) 7/8" (22mm)				
Accuracy	±1% of flow rate; up to +/-0.5% if calibrated				
ANSI Class*	600# 300#				
Pipe Size	2"- 6" (50mm-150mm)	6"- 48" (150mm-1200mm)			
Instrument Connection	1/2" NPT or Direct Mount				
Components Furnished	Weld coupling, tube fitting; V110 includes additional weld coupling and plug				
Weld Coupling Size	3/4" NPT 1" NPT				

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

Temperature Pressure Limits (ANSI Class)*				
300#				
740 psig @ 100°F (51.0 bar @ 38°C)				
410 psig @ 800°F (28.3 bar @ 426°C)				
600#				
1440 psig @ 100°F (99.3 bar @ 38°C)				
825 psig @ 800°F (56.9 bar @ 426°C)				



### 1. Enter Pipe Dimensions or Duct Dimensions



Pipe Size \_\_\_\_ Sch \_\_\_\_

Pipe ID \_\_\_\_ and

Wall \_\_\_\_\_ Pipe Material \_\_\_\_\_



Height (H) \_\_\_\_\_

Width (W)

Wall \_\_\_\_\_

Dimension Verabar® spans (H) or (W) Duct Material \_\_\_\_\_

### 2. Pipe or Duct Orientation (Check one box)







(V) Vertical

Straight Run Consult Factory

### 3 Enter Flow Conditions

3. Enter Flow Conditions					verana	
Fluid Name:		Maximum	Nominal	Minimum	Units	
Flow Ra	ite					
All Fluids	Pressure @ Flow					
	Temperature @ Flow					
Gas	Specific Gravity, or Molecular Weight					
Liquid	Specific Gravity					
Steam	VeraCalc Program can calculate Density from Temperature and Pressure					

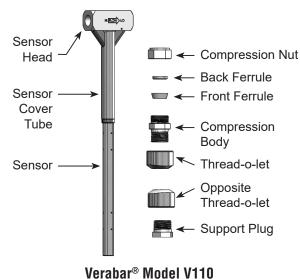
## 4. Select Model from Page 3

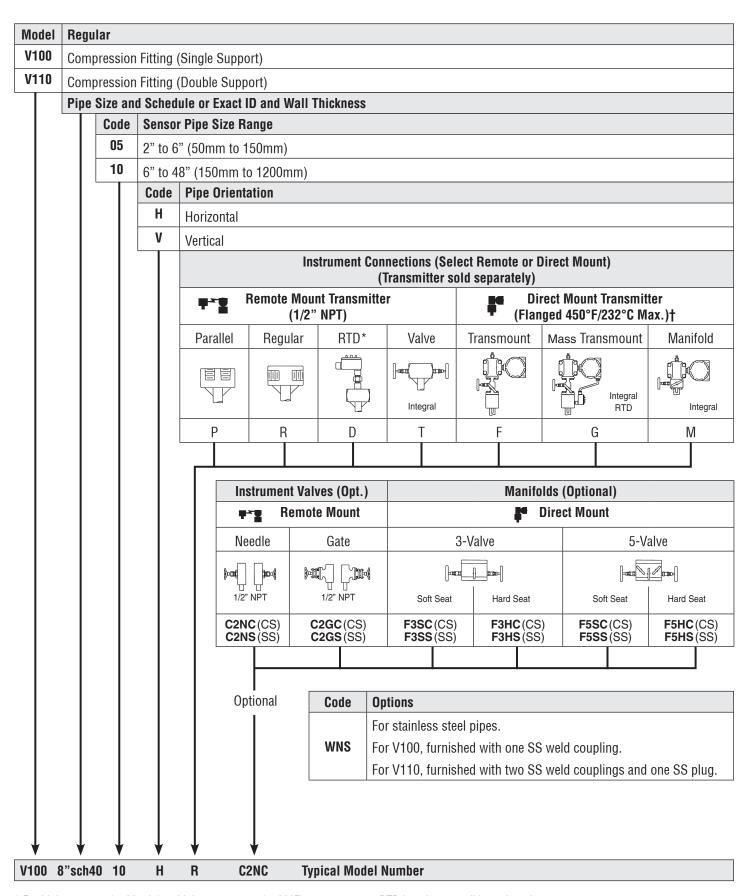
Use the Ordering Information table on Page 3 to determine your model number.

#### 5. Flow Calculation

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

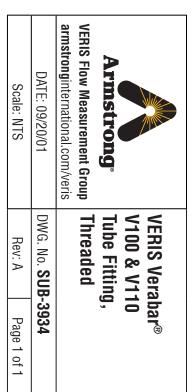
Verabar® Model V100

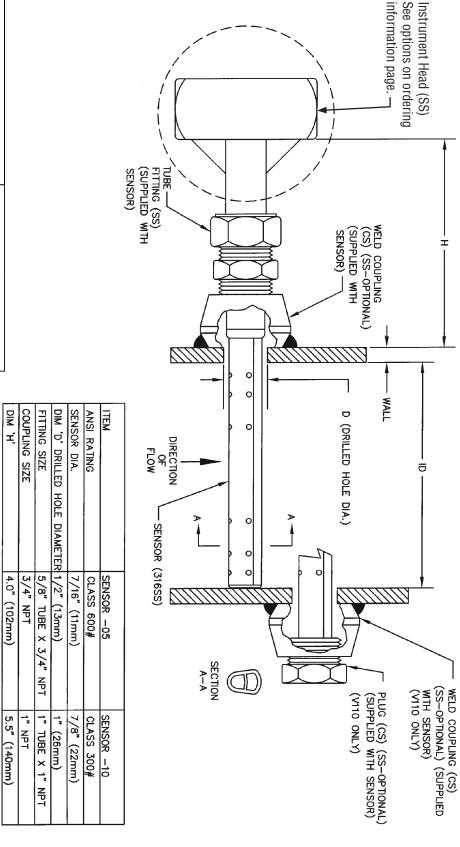




<sup>\*</sup> For high pressure (>500psig) or high temperature (>500°F), remote mount RTD in a thermowell is preferred.

<sup>†</sup> Assuming adequate heat dissipation for transmitter.





Designs, materials, weights and performance ratings are approximate and subject to change without notice. Visit armstronginternational.com for up-to-date information.



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