



Hot Tap Models

Differential Pressure Flow Sensors

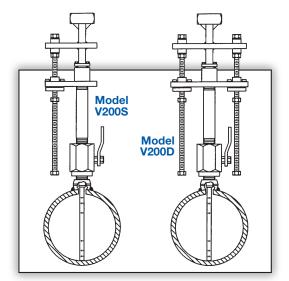
V200 Screw Drive **Threaded Components**

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.



	Temperature			
Pipe Connection	Threaded (NPT)	Pressure Limits		
Mounting Type	Ball or gate access valve			
Features and Benefits	Most commonly used hot tap model	(ANSI Class Rating)*		
	 Installation, insertion & retraction without system shutdown Economical single threaded rod for most applications 	150#		
	 Two threaded rods for high pressures Synchro drive simultaneously rotates both rods (double rod drives only) 	275 psig @ 100°F (19 Bars @ 38°C)		
	 Patented, anti-seize orbital bearing aligns threaded rods and eliminates galling Can mount to existing valves 	80 psig @ 800°F (5.5 Bars @ 426°C)		
Applications	 Air (compressed, combustion) Natural gas 	600#		
	Water (raw, cooling, feedwater) Steam	1440 psig @ 100°F (99.3 Bars @ 38°C)		
Special Designs – Consult Factory	 Custom mounting, lengths, materials, instrument connections, etc. Short straight run 	825 psig @ 800°F (56.9 Bars @ 426°C)		

Model Specifications	V200S		V200D			
Sensor Code	05	10	15	10	15	
Sensor Diameter	7/16" (11mm)	7/8" (22mm)	1-3/8" (35mm)	7/8" (22mm)	1-3/8" (35mm)	
Accuracy	±1% of flow rate; ±0.5% if calibrated					
ANSI Class*	600#	150#	150#	600#	600#	
Drive Rods		Single		Double		
Pipe Size	2"- 6" (50mm -150mm)	6"- 42" (150mm-1050mm)	12"- 60" (300mm -1500mm)	6"- 42" (150mm - 1050mm)	12"- 60" (300mm-1500mm)	
Instrument Connection	1/2" NPT 1/2" NPT or Direct Mount		1/2" NPT or Direct Mount			
Components Furnished	Weld coupling, close nipple, access nipple and valve					
Weld Coupling Size	3/4" NPT	1-1/4" NPT	2" NPT	1-1/4" NPT	2" NPT	

* DIN and JIS flanges available. Consult factory.

Reading Office

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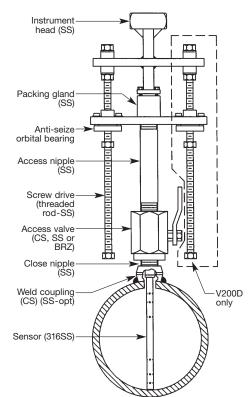




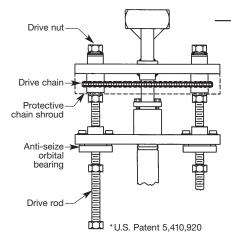


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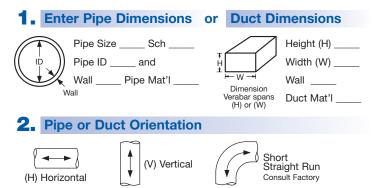
V200S (Single Rod) V200D (Double Rod)



Synchro-Drive (Option SYN)



Furnish the following information:



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.*

Synchro-Drive Description

• Designed for pressures greater than ANSI Class 150#, Synchro-Drive is equipped with two drive rods that are coupled together by a protected chain drive system. Turning either drive nut simultaneously rotates both rods.

Synchro-Drive Benefits

- 95% faster and easier insertion and retraction.
- Equal load distribution over both rods maintains sensor alignment and eliminates binding.

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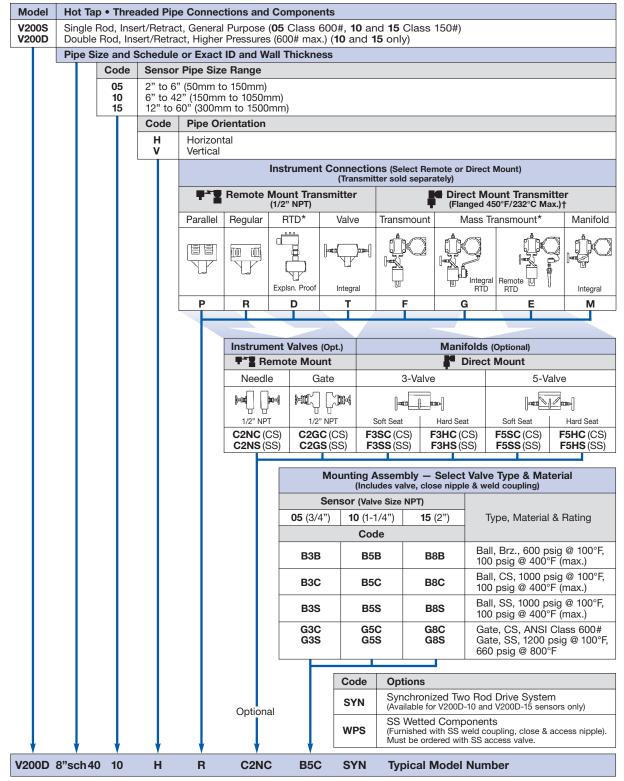








Ordering Information



* 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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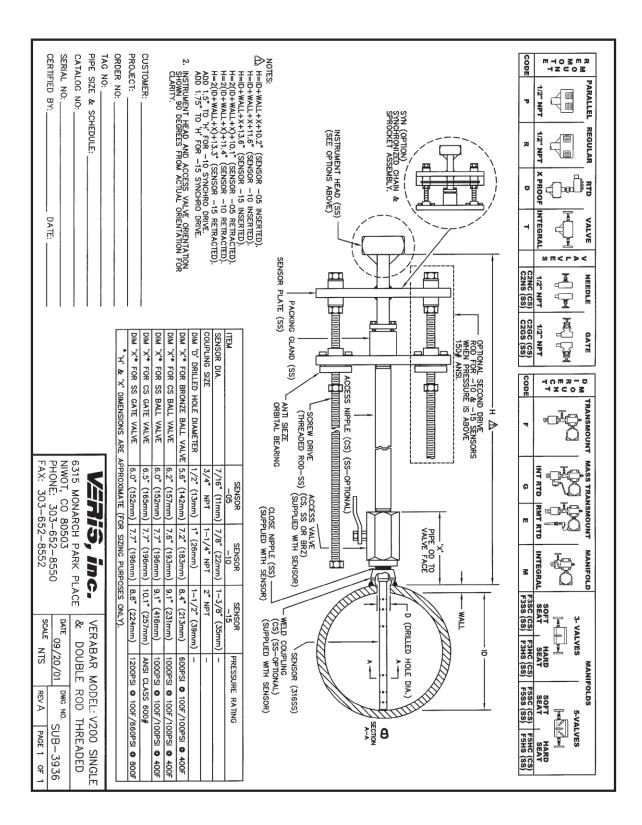
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