



V500 Single Support V510 Double Support Flanged Components

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.

		Mode	1
V500			
	\$ \$		

	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)			
Accuracy	±1% of	flow rate; ±0.5% if ca	alibrated			
ANSI Class*	150#, 3	800#, 600#, 1500# and	d 2500#			
Pipe Size	2"- 6" (50mm -150mm)	6"- 48" (150mm - 1200mm)	12"- 192" (300mm - 5000mm)			
Instrument Connection	1/2" NPT or Socket Weld	1/2" NPT, Socket W	eld or Direct Mount			
Components Furnished	Weld coupling, V510 includes a	Weld coupling, weldneck flange, gasket, studs & nuts V510 includes additional weld coupling and pipe cap.				
Flange Size	1"	1-1/2"	2"			



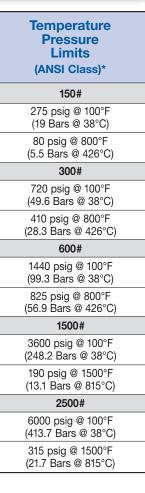
Reading Office

Cutbush Park, Danehill, Lower Earley, Reading, Berkshire. RG6 4UT. UK. Tel: +44 (0)118 9311188 Email: info@able.co.uk

Aberdeen Office

Unit 6 Airside Business Park, Kirkhill Industrial Estate, Internet: www.able.co.uk Dyce, Aberdeen. AB21 0GT. UK. Tel: +44 (0)1224 725999 Email: ab@able.co.uk

e-procurement: www.247able.com Registered in England No: 01851002 VAT No: GB 417 2481 61





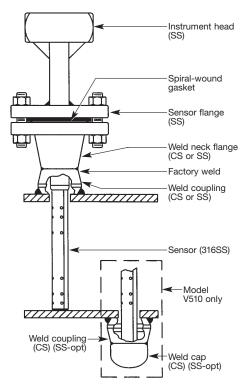






Flanged Models

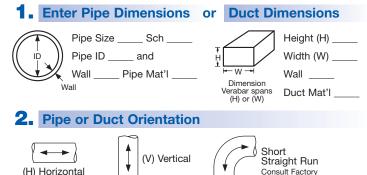
V500 (Single Support) V510 (Double Support)



Applications up to ANSI Class 2500#

Щ

Furnish the following information:



3. Enter Flow Conditions

Fluid Name:		Maximum	Normal	Minimum	Units	
Flow Rate						
All	Temperature @ Flow					
Fluids	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.*

High Pressure and Temperature Head Option

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 & F91).

Other Applications

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

Reading Office

Cutbush Park, Danehill, Lower Earley, Reading, Berkshire. RG6 4UT. UK. Tel: +44 (0)118 9311188 Email: info@able.co.uk

Aberdeen Office

Email: ab@able.co.uk

Щ

hann

Unit 6 Airside Business Park, Kirkhill Industrial Estate, Dyce, Aberdeen. AB21 0GT. UK. Tel: +44 (0)1224 725999

Internet: www.able.co.uk e-procurement: www.247able.com Registered in England No: 01851002 VAT No: GB 417 2481 61







Ordering Information

	Single Suppor									
V510	Double Suppo		or Exact	ID and Wa	all Thickne	ss				
	Code			e Range						
	05			to 150mm)						
	10 15			n to 1200m mm to 500						
		Code	, i	rientation	,					
		Н	Horizon	tal						
		V	Vertical		Instrumon	t Connool	tions (Salast B	moto or Diro	at Mount)	
					Instrument Connections (Select Remote or Direct Mount) (Transmitter sold separately)					
			F		lount Tran 1/2" NPT)	smitter			ount Transmit 50°F/232°C Ma	
			Parallel	Regular	RTD*	Valve	Transmount	: Mass	Transmount*	Manifol
						1			Ů.	7
									- K	r F
					Explsn. Proof	Integral		U Integ		Integral
			Р	R	D	T	F	G	E	M M
										_
				Instrum	ent Valves	(Opt.)		Manifold	s (Optional)	
				P R	emote Mo	unt		P Direc	ct Mount	
				Needl	e G	ate	3-Val	ve	5-V	alve
) at						
				1/2" NP	- - L	2" NPT	Soft Seat	Hard Seat	Soft Seat	Hard Seat
				C2NC (0		C (CS)	F3SC (CS)	F3HC (CS)	F5SC (CS)	F5HC (CS
				C2NS		S (SS)	F3SS (SS)	F3HS (SS)	F5SS (SS)	F5HS (SS
							ting Assembly (Includes SS s coupling, spira	ensor flange,	WN flange,	-
							or (Flange Size)		Mating	Flange
					05 (*	1") 1	10 (1-1/2")	15 (2")		ANSI Class
					F415	50	Code F615C	E815C	CS	150#
					F415 F415		F615C F615S	F815C F815S	CS SS	150# 150#
					F415 F430	5S DC	F615C F615S F630C	F815S F830C	SS CS	150# 300#
					F415	5S 0C 0S	F615C F615S	F815S	SS	150#
					F415 F430 F430	5S DC DS DC	F615C F615S F630C F630S	F815S F830C F830S	SS CS SS	150# 300# 300#
					F415 F430 F430 F430	5S 0C 0S 0C 0S	F615C F615S F630C F630S F660C F660S	F815S F830C F830S F860C F860S	SS CS SS CS SS	150# 300# 300# 600# 600#
					F415 F430 F430 F430	5S 0C 0S 0C 0S	F615C F615S F630C F630S F660C	F815S F830C F830S F860C F860S	SS CS SS CS SS	150# 300# 300# 600# 600#
					F415 F430 F430 F430	5S DC DS DC DS High F	F615C F615S F630C F630S F660C F660S Pressure Instr 1/2" NPT Socket Weld	F815S F830C F830S F860C F860S ument Head	SS CS SS CS SS (ANSI Class 1500	150# 300# 300# 600# 600# 0# & 2500#)
					F415 F430 F430 F430	5S DC DS DC DS High F HPT	F615C F615S F630C F630S F660C F660S Pressure Instr 1/2" NPT Socket Weld High Pressure	F815S F830C F830S F860C F860S ument Head	SS CS SS CS SS (ANSI Class 1500 Assy (HPT & HP	150# 300# 300# 600# 600# 0# & 2500#)
			F		F415 F430 F430 F430	5S DC DS DC DS High F HPT	F615C F615S F630C F630S F660C F660S Pressure Instr 1/2" NPT Socket Weld High Pressur Sens	F815S F830C F830S F860C F860S ument Head e Mounting a or (Flange Siz	SS CS SS CS SS (ANSI Class 1500 Assy (HPT & HP re)	150# 300# 300# 600# 600# 0# & 2500#)
					F415 F430 F430 F430	5S DC DS DC DS High F HPT	F615C F615S F630C F630S F660C F660S Pressure Instr 1/2" NPT Socket Weld High Pressur Sens	F815S F830C F830S F860C F860S ument Head e Mounting J or (Flange Siz	SS CS SS CS SS (ANSI Class 1500 Assy (HPT & HP	150# 300# 600# 600# 00# 00# 00# 00# 00# 00# 00
					F415 F430 F430 F430	5S DC DS DC DS High F HPT	F615C F615S F630C F630C F630S F660C F660S Pressure Instr 1/2" NPT Socket Weld High Pressur Sens 05 (1") F4150C	F815S F830C F830S F860C F860S ument Head or (Flange Siz 10 (1-1/2") 1 Code F6150C	SS CS SS CS SS (ANSI Class 1500 Assy (HPT & HP te) 15 (2.5" or 3") F10150C	150# 300# 300# 600# 600# 600# 500# 500# 500# 500# 5
					F415 F430 F430 F430	5S DC DS DC DS High F HPT	F615C F615S F630C F630S F660C F660S Pressure Instr 1/2" NPT Socket Weld High Pressur High Pressur Sens 05 (1") - F4150C F4150S	F815S F830C F830S F860C F860S ument Head or (Flange Siz 10 (1-1/2") 1 Code	SS CS SS CS SS (ANSI Class 1500 Assy (HPT & HP re) 5 (2.5" or 3")	150# 300# 600# 600# 0# & 2500#) S Connections Mating Flan Material & ANSI Class
				Optiona	F415 F430 F430 F460 F460	5S DC DS DC DS High F HPT	F615C F615S F630C F630S F660C F660S Pressure Instr T/2" NPT Socket Weld High Pressurs 05 (1") - F4150C F4150S F4150F11 F4150F11	F815S F830C F860C F860S ument Head or (Flange Siz 10 (1-1/2") 11 Code F6150C F6150S F6150F22	SS CS SS CS SS (ANSI Class 1500 Assy (HPT & HP (ANSI Class 1500 (ANSI Class	150# 300# 600# 600# 0# & 2500#) S Connections Mating Flan Material & ANSI Class CS SS F11 F22
				Optiona	F415 F430 F430 F460 F460	5S DC DS DC DS High F HPT	F615C F615S F630C F630S F660C F660S Pressure Instr 1/2" NPT Socket Weld High Pressure High Pressure Sens 05 (1") 7 F4150C F4150S11 F4150F11 F4150F22 F4250C F4250S F4250S F4250S11	F815S F830C F830S F860C F860S ument Head or (Flange Siz 10 (1-1/2") 11 Code F6150C F6150S F6150F11	SS CS SS CS SS (ANSI Class 1500 Assy (HPT & HP re) 15 (2.5" or 3") F10150S F10150S F10150F11	150# 300# 600# 600# S Connections Mating Flan, Material & ANSI Class CS SS SS 51 1500

* For high pressure (>500psig) or high temperature (>500°F), remote mount RTD in a thermowell is preferred.
 † Assuming adequate heat dissipation for transmitter.

Reading Office

Cutbush Park, Danehill, Lower Earley, Reading, Berkshire. RG6 4UT. UK. Tel: +44 (0)118 9311188 Email: info@able.co.uk

Aberdeen Office

Unit 6 Airside Business Park, Kirkhill Industrial Estate, Internet: www.able.co.uk Dyce, Aberdeen. AB21 0GT. UK. Tel: +44 (0)1224 725999 Email: ab@able.co.uk

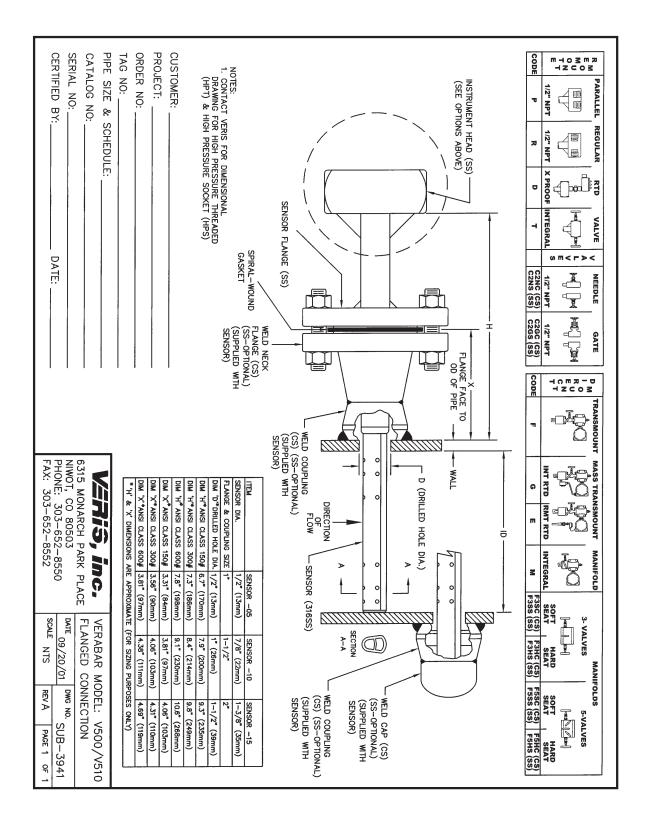
e-procurement: www.247able.com Registered in England No: 01851002 VAT No: GB 417 2481 61











Reading Office

Cutbush Park, Danehill, Lower Earley, Reading, Berkshire. RG6 4UT. UK. Tel: +44 (0)118 9311188 Email: info@able.co.uk

Aberdeen Office

Unit 6 Airside Business Park, Kirkhill Industrial Estate, Dyce, Aberdeen. AB21 0GT. UK. Tel: +44 (0)1224 725999 Email: ab@able.co.uk

Internet: www.able.co.uk e-procurement: www.247able.com Registered in England No: 01851002 VAT No: GB 417 2481 61

