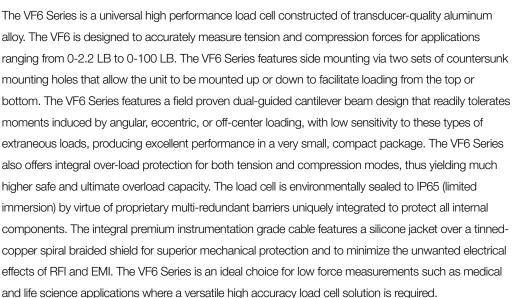


Bending Beam Load Cell

VF6Series

The VF6 Series is a universal high performance load cell constructed of transducer-quality aluminum alloy. The VF6 is designed to accurately measure tension and compression forces for applications ranging from 0-2.2 LB to 0-100 LB.











For more information call 1-888-545-8988

APPLICATIONS

- Tension/Compression Measurements
- Ultra Low Force Measurements
- High Accuracy and Repeatability
- Medical and Life Science Weighing
- Moment/Off-Center Load Applications
- OEM and VAR Solutions

FEATURES

- 2.2 LB to 100 LB Capacities
- 0.02% Accuracy Class
- 2 mV/V Full Scale Output
- 5 FT Silicone Cable
- Miniature Compact Size
- IP67 Environmental Sealing
- Anodized Aluminum Construction
- Dual Guided Beam Over Load Protected
- Universal Tension and Compression

VF6 Series Specifications

Innovative Measurement Solutions



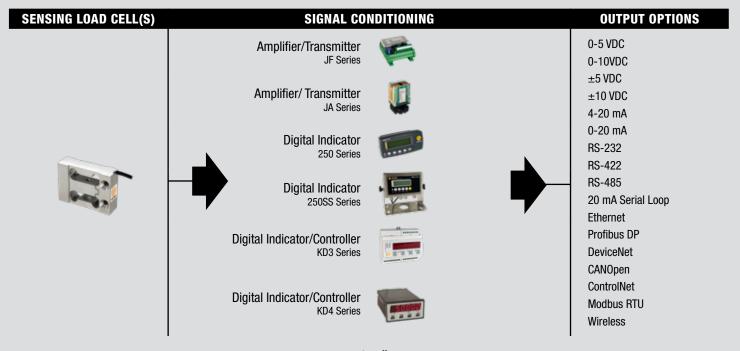
PERFORMANCE	
Rated capacities (LB)	2.2, 5, 10, 25, 50, 100
Rated Output (FSO)	2 mV/V
Output Tolerance	± 0.15 % R.O.
Combined Error Band	≤ 0.02 % FS0
Non-Linearity	≤ 0.02 % FS0
Hysteresis	≤ 0.02 % FS0
Non-Repeatability	≤ 0.02 % FS0
Zero Balance	≤ 3 % FS0
Creep (30 Minutes)	≤ 0.03 % of Load

MECHANICAL			
Material	Aluminum		
Finish	Anodized		
Safe overload	Compression 250 LB Tension 250 LB		
Ultimate overload	Compression 350 LB Tension 350 LB		
Deflection	See Dimension Table		
Weight	See Dimension Table		
Mounting Bolt Torque	See Dimension Table		

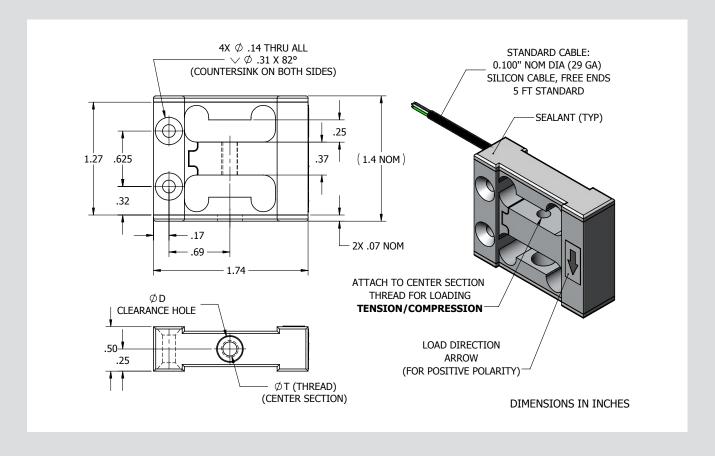
ELECTRICAL			
Input Impedance	1048 ohms nom		
Output Impedance	1000 ohms nom		
Insulation Resistance	>1000 Megohms		
Excitation Voltage	10 V AC/DC (15 V maximum)		
Cable Color Code	 + Excitation (red) - Excitation (black) + Signal (green) - Signal (white) Shield (bare) 		
Cable Type	4 conductor, 29 AWG, Silicon Cable, Diameter: 0.100"		
Cable Length	See Dimension Table		
Cable Termination	Finished Conductors		
Cable Seal	Epoxy Gland Seal		

ENVIRONMENTAL			
Temperature, Operating	-40 to +200 °F (-40 to +94°C)		
Temperature, Compensated	14 to +104 °F (-10 to +40°C)		
Temperature Effects	Zero < 0.005% FS0/°F < 0.009% FS0/°C		
Temperature Effects	Output < 0.005% of Rdg./°F < 0.009% Rdg./°C		
Sealing	IP67; Multi-redundant; Limited Immersion Tolerance		

VF6 Typical System Configuration

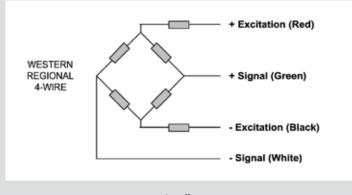




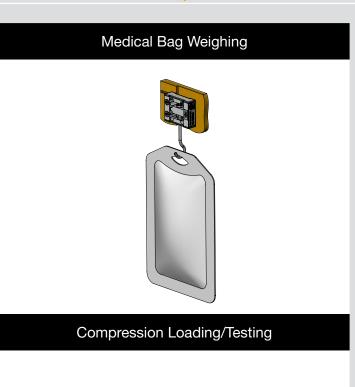


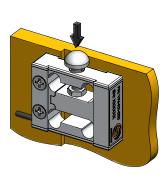
Capacity (LB)	D	T(THREAD)	SCREW/BOLT SIZE	RECOMMENDED BOLT Torque	DEFLECT	WEIGHT
2.2, 5	0.28	10-32 UNF THRU	#6	15 IN-LB	0.005	0.1 LB
10, 25, 50, 100	0.28	10-32 UNF THRU	#6	15 IN-LB	0.004	0.1 LB

VF6 Wiring Diagram

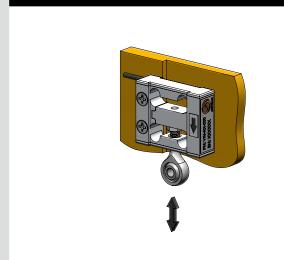


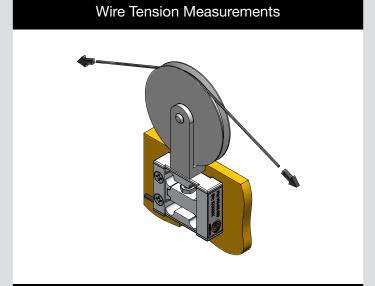


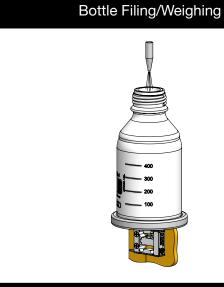




Tension/Compression Measurements







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