



- Ranges up to 45,000 psi
- Accuracy: $\pm 1\%$ FS BSL
- Continuous operation at 260°C or 500°F
- Thin Film Technology on Stainless Steel
- Output: 5-10 mV from 5V dc supply
- Small size: $\frac{1}{2}$ " Diameter

The VB series has been designed specifically for those applications where very high pressures up to 45,000 psi are to be measured, and temperatures might be as high as 500°F. Typical applications range from oil field instrumentation, including MWD down hole, to turbine engine monitoring. The performance is achieved by using the very latest processes in thin film strain gauge techniques and is offered without any active amplification or compensation. The VB2100 shown above, is a specific example offering small size and fast frequency response through the flush diaphragm. This has been a specialty of PMC for more than 40 years. The technology is available in a number of different configurations, and we invite potential customers to contact our technical staff at the factory for any required customization.

There are many options available on the VB series pressure transducer. These include the following :

- Pressure range and engineering units
- Accuracy (non-linearity & hysteresis)
- Thermal performance
- Electrical connection
- Process connection
- Housing material
- Overall Package

Suitable for the following applications:

- Hydraulics & Pneumatics
- Autoclave & Sterilization
- Engine monitoring
- Specialized laboratory testing
- Mechanical engineering
- Oil field monitoring
- Down hole drilling

Specifications

■ Full Scale Ranges

0-15000, 20000, 25000, 30000 and 45000psi sg
Other ranges and units can be specified
Consult PMC for ranges from 150-45000psi

■ Accuracy (Static)

±1% FS (BSL) Typical
Combined non-linearity, hysteresis & repeatability
Breakdown
-Hysteresis: < ±0.2% FS
-Repeatability: < ±0.05% FS
-Linearity for all standard ranges: < ±0.5% FS

■ Overpressure (Proof pressure)

Ranges up to 25000psi – 2X full scale
Ranges above 25000psi – 1.5X full scale

■ Burst Pressure

Ranges up to 25000psi – 5X full scale
Ranges above 25000psi - 2X full scale

■ Temperature

Operating: from -100 to 500°F
Compensated: from 0 to 500°F
Other compensated ranges can be specified

■ Temperature Effects (Compensated)

Zero: ± 0.01% FS/°F
Span: ± 0.01% FS/°F
Others can be specified

■ Electrical

Supply voltage: 5V dc (can be 0.5 to 10)
Output: Ratiometric from 1.0 to 1.9mv/V
Fully Active Bridge with 5KΩ nominal resistance
Contact PMC for output of specific ranges

■ Construction

Laser welded Stainless Steel 17-4 PH
Contact PMC for other materials

■ Mechanical

Vibration: Mil-Std-810C, Curve L, 20g.
Shock: 1000g, 1mS.

PMC adopts a continuous development program which sometimes necessitates specification changes without notice

Specifications

■ Pressure Connection Options

Open Face (flush) shown
Others available, contact PMC

■ Electrical Connection Options

12" – 4 flying leads, Perfluoroalkoxy (PFA) insulated
Other lengths and insulation available

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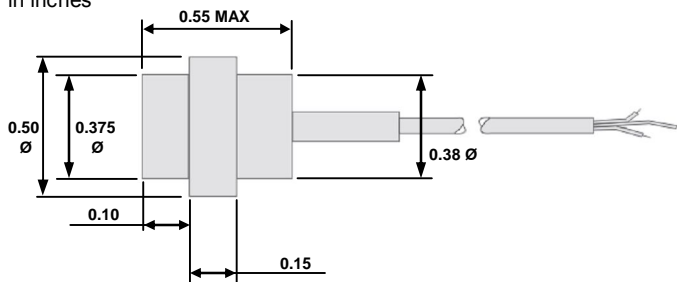
How to Order

■ Please provide the following:

-VB Series (specify VB2100 for standard product)
-Pressure range i.e. 10000psi sg
-Accuracy, i.e. ±1%
-Temperature Compensation Range
-Supply Voltage, i.e. 5V dc
-Pressure Connection, i.e. Flush
-Electrical Connection, i.e. 4 leads, PFA, 12"
Contact PMC for codes

Standard Configuration

All dimensions nominal
in inches



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