

# VW Piezometers

## VWP-3000 SERIES



### VWP-3000

Standard construction with high & low air entry filters to measure groundwater elevations and pore pressures.

### VWP-3100

Heavy duty body for direct burial in fills and dam embankments. Available with high & low air entry filters.

### VWP-3200

Low pressure version to measure groundwater elevations and pore pressures. Available with high & low air entry filters.

### VWP-3300

A low pressure vented version to compensate for barometric pressure changes. Available with high & low air entry filters.

### VWP-3400

Heavy duty Drive-in Type 1 featuring inclined ports to minimise smearing affects.

### VWP-3500

Slim line Drive-in Type 2 featuring large surface area porous filter.

### VWP-3000



### VWP-3100



### VWP-3200/3300



### VWP-3400



### VWP-3500



Geosense® VWP-3000 Series of Vibrating Wire piezometers use the well-proven method of converting fluid pressures on a sensitive diaphragm into a frequency signal.

Frequency signals are particularly suitable for the demanding environment of Civil Engineering applications, since the signals are capable of long transmission distances without degradation, tolerant of wet wiring conditions and resistant to external electrical noise.

## Applications

- ~ Pore pressure measurement in soils and rocks
- ~ Fluid pressures in hydro-fracture and pump tests

## Features

- ~ Reliable long-term performance
- ~ Rugged, suitable for demanding environments
- ~ High accuracy
- ~ Insensitive to long cable lengths
- ~ All non drive-in models can have threaded adaptors to customer specifications

## Filter Options

- ~ LAE (Low resistance to air entry)  
50µ 316 sintered stainless steel
- ~ HAE (High resistance to air entry)  
1µ alumo silicate ceramic - 3 bar  
2µ alumo silicate ceramic - 1 bar

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## VWP-3000 SERIES

### Specifications

TYPE	DESCRIPTION	PRESSURE RANGE KPA	OVER RANGE	RESOLUTION	ACCURACY	NON-LINEARITY	TEMP RANGE	THERMAL EFFECT	DIAMETER X LENGTH	WEIGHT
VWP-3000	Standard LAE	345, 518, 690, 1034, 2068, 3447, 5171, 6895 kPa	2 x rated pressure	0.025% FS	± 0.1% FS	<0.5% FS	-20 to + 80 °C	<0.05% FS/°C	20 x 140mm	210g
VWP-3001	Standard HAE	345, 518, 690, 1034, 2068, 3447, 5171, 6895 kPa	2 x rated pressure	0.025% FS	± 0.1% FS	<0.5% FS	-20 to + 80 °C	<0.05% FS/°C	20 x 140mm	210g
VWP-3100	Heavy Duty LAE	345, 518, 690, 1034, 2068, 3447, 5171, 6895 kPa	2 x rated pressure	0.025% FS	± 0.1% FS	<0.5% FS	-20 to + 80 °C	<0.05% FS/°C	25 x 151mm	450g
VWP-3101	Heavy Duty HAE	345, 518, 690, 1034, 2068, 3447, 5171, 6895 kPa	2 x rated pressure	0.025% FS	± 0.1% FS	<0.5% FS	-20 to + 80 °C	<0.05% FS/°C	25 x 151mm	450g
VWP-3200	Low Pressure LAE	70, 173, 345, 518, 690 kPa	2 x rated pressure	0.025% FS	± 0.1% FS	<0.5% FS	-20 to + 80 °C	<0.05% FS/°C	25x 151mm	600g
VWP-3201	Low Pressure HAE	70, 173, 345, 518, 690 kPa	2 x rated pressure	0.025% FS	± 0.1% FS	<0.5% FS	-20 to + 80 °C	<0.05% FS/°C	25x 151mm	600g
VWP-3300	Low Pressure Vented LAE	70, 173, 345, 518, 690 kPa	2 x rated pressure	0.025% FS	± 0.1% FS	<0.5% FS	-20 to + 80 °C	<0.05% FS/°C	25 x 151mm	600g
VWP-3301	Low Pressure Vented HAE	70, 173, 345, 518, 690 kPa	2 x rated pressure	0.025% FS	± 0.1% FS	<0.5% FS	-20 to + 80 °C	<0.05% FS/°C	25 x 151mm	600g
VWP-3400	Drive-in Type 1	345, 518, 690, 1034, 2068, 3447, 5171, 6895 kPa	2 x rated pressure	0.025% FS	± 0.1% FS	<0.5% FS	-20 to + 80 °C	<0.05% FS/°C	38x 190mm	1335g
VWP-3500	Drive-in Type 2	345, 518, 690, 1034, 2068, 3447, 5171, 6895 kPa	2 x rated pressure	0.025% FS	± 0.1% FS	<0.5% FS	-20 to + 80 °C	<0.05% FS/°C	33 x 470mm	2100g

### DESCRIPTION

Materials	Stainless Steel
Excitation	Pluck or swept frequency
Over voltage protection	90V gas plasma arrester
Thermistor	3k Ohms @ 25°C
Range	2200-3500 Hz
Nominal zero value	3130 Hz
Thermal effect	0.05% F.S./°C

### Ordering Information

- ~ Type
- ~ Cable length
- ~ Pressure Range



Specifications may change without prior notice

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