

BENTLY NEVADA 330500 VELOMITOR SYSTEMS

Product Data Sheet

330500-01-01

piezo-velocity vibration sensor

FUNCTION	FAMILY	ORIGIN	WEIGHT
piezo-velocity vibration sensor	Bently Nevada 330500 Velomitor system	United States	0.50 kg

330500 and 330525 Piezo-Velocity Sensor 330500-01-01 is a piezo-velocity vibration sensor for the Bently Nevada 330500 Velomitor systems. The values below are limited to the exact documented article.

01

VERIFIED TECHNICAL DATA

Exact Article Code	330500-01-01
Product Class	Piezo-Velocity Vibration Sensor
Product Family	Bently Nevada 330500 Velomitor systems
Measurement	Casing vibration velocity
Sensitivity	3.94 mV/mm/s nominal
Frequency Range	4.5 to 1000 Hz
Amplitude Range	50.8 mm/s peak
Mounting Thread	1/4-28 UNF
Connector	Two-pin MIL style
Temperature Range	-55 to +121 °C

Transverse Sensitivity	5% maximum
Housing	Stainless steel
Approval Option	01

- Supervise reciprocating compressor condition during process-gas: In the automation chain for the cylinder, rod-position and casing sensors, 330500-01-01 serves its documented function as a piezo-velocity vibration sensor. During process-gas transition, the system uses this function to associate mechanical signals with the compression cycle, helping it separate process influence from a developing mechanical fault.
- Control mill-stand vibration with Piezo Velocity: During operation of the roll bearings and stand housings, 330500-01-01 performs its assigned control role as a piezo-velocity vibration sensor. During material entry, the system uses this function to relate vibration response to the rolling pass, helping it show chatter or bearing change before product quality is affected.
- Monitor high-lift pump protection during peak-flow operation: Inside the radial bearings and shaft-position probes, 330500-01-01 handles its designated signal or control duty as a piezo-velocity vibration sensor. During peak-flow operation, the system uses this function to observe shaft behavior while hydraulic demand rises, helping it support protection of the critical pumping duty.

Match 330500-01-01 to the installed Bently Nevada 330500 Velomitor systems, complete wiring, mating hardware, revision and approved configuration. A similar article number does not establish direct interchangeability.

[Bently Nevada official product documentation and manufacturer catalog](#)

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