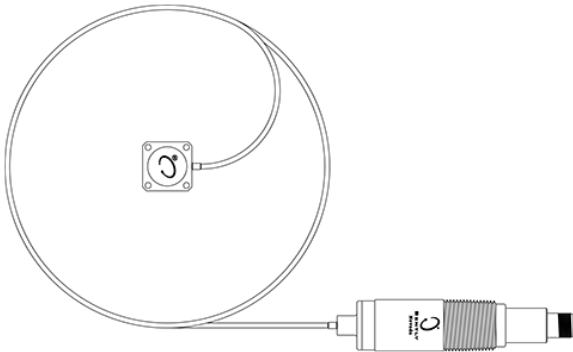


330750 and 330752 High Temperature Velomitor System

Datasheet

Cordant™

141639 Rev. U



Description

The 330750 and 330752 High Temperature Velomitor System sensor head and integral cable are designed for high temperature environments. This enables you to mount the sensing head on surfaces with temperatures up to +400°C (+752°F).



Earlier versions of the 330750 and 330752 High Temperature Velomitor System were limited to environments with a maximum temperature of +300°C (+572°F). The serial number of current versions that measure up to +400°C (+752°F) are preceded by the letter "G".

To accomplish this, the transducer design segregates the sensing element from the signal conditioning electronics. The two are permanently connected using an integrated cable. The integrated cable eliminates connectors which are a significant source of transducer failures.

The cable enables you to position the signal conditioning electronics in a cooler location. The internal electronics withstands temperatures of 55°C to +121°C (-67°F to +250°F). The integrated design makes it possible to capture machinery performance data comparable to other Bently Nevada Velomitor transducers, but at significantly higher temperatures.

For lower temperature environments, use the standard 330500 Velomitor Piezo-velocity Sensor. You can install it in locations with a maximum operating temperature of +121°C (+250°F).



Baker Hughes 

Ordering Information



For the detailed listing of country and product specific approvals, refer to the *Approvals Quick Reference Guide* (108M1756) available from Bently.com.

330750-AA-BB

A: Length

20	2 meters
40	4 meters
60	6 meters
80	8 meters

B: Approvals

0 5	Multiple Approvals (CSA, ATEX, and IECEx)
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330752-AA-BB

A: Length

25	2.5 meters
40	4 meters
60	6 meters
80	8 meters

B: Approvals

0 5	Multiple Approvals (CSA, ATEX, and IECEx)
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Interconnection Cables

The standard cable lengths below are available. You can order custom cable lengths in increments of one foot at additional cost. Some cables have a minimum and maximum length. For details, see each part description below.


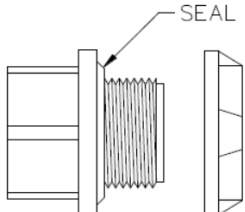
Standard Cable Lengths


Feet	Meters (approximate)
6 ft	1.8 m
8 ft	2.4 m
10 ft	3.0 m
12 ft	3.6 m
15 ft	4.5 m
17 ft	5.0 m
20 ft	6.0 m
25 ft	7.6 m
30 ft	9.0 m
33 ft	10.0 m
50 ft	15.2 m
99 ft	30.0 m

Cable Part Numbers

Part number	Description
 <p>When entering a part number, use 'NN' in the part numbers to specify the length (in feet) of the cable you want to order.</p>	
9571-NN	<p>Standard interconnect cable</p> <p>Shielded 0.382 mm² (22 AWG) cable with a moisture-resistant female connector at the HTVS end and ring lugs at the monitor end. Temperature range -29°C to 121°C (-20°F to 250°F). See Standard Interconnect Cable on page 13.</p>
84661-NN	<p>Standard armored interconnect cable</p> <p>Stainless steel armor over shielded 0.382 mm² (22 AWG) cable with a moisture-resistant female connector at the HTVS end and ring lugs at the monitor end. Temperature range -29°C to 121°C (-20°F to 250°F). See Standard Armored Interconnect Cable on page 13.</p>
89477-NN	<p>Right angle interconnect cable</p> <p>Standard Armored Interconnect Cable. See Standard Right-angle Interconnect Cable on page 13.</p>

Part number	Description
122129-NN	<p>Short run interconnect cable</p> <p>Shielded 0.963 mm² (18 AWG) cable with a moisture-resistant female connector at the HTVS end and ring lugs at the monitor end. Temperature range -29°C to 121°C (-20°F to 250°F). See Short Run Interconnect Cable on page 14.</p>
02173034	<p>CE installation interconnect cable (**required for CE installations)</p> <p>Shielded 0.382 mm² (22 AWG) cable with a splash-proof boot over a female connector at the HTVS end and flush cut at the monitor end. Temperature range -55°C to 125°C (-67°F to 257°F). See CE Installation Interconnect Cable on page 14.</p>
02173006	<p>0.963 mm² (18 AWG) bulk cable</p> <p>Shielded twisted pair. Same cable as used on 89477-NN and 122129-NN. Specify the number of feet.</p>
02173007	<p>0.382 mm² (22 AWG) bulk cable</p> <p>Shielded twisted pair. Same cable as used on 9571-NN and 84661-NN. Specify the number of feet. The maximum length that should be used with the HTVS is 305 m (1000 ft)</p>
00502025	<p>Spare connector</p> <p>Same connector as used on 9571-NN and 84661-NN</p>

Part number	Description
101212-01	Right angle connector Right angle connector kit. Same connector as used on 89477-NN.
00531061	Spare mating connector Mating connector for 330750 and 330752 Velomitor System.
330535	Standard temperature cable 22 AWG, double-shielded cable
00530574	Cable Mounting Clamp Mating connector clamp to be used with 00531061
03818073	Electronics Housing Strap One-inch rigid conduit strap for securing the electronics housing. 
03818071	Electronics Mounting Hub One-inch weather tight hub used to mount the electronics housing in a weatherproof enclosure. 

Part number	Description
03818072	Seal Ring One-inch sealing lock ring used to mount the electronics housing. Two rings are required to mount the electronics. 
169546	Cable Clamp Stainless steel mesh tie down clamp for the hardline cable. For temperatures greater than 260C (500F). 