

# Bently Nevada 330906&330907 Series Service Manual

330907-05-30-05-02-CN

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## 1. Description

"Manufacturer : Bently Nevada

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## 3. Product Information



"Manufacturer : Bently Nevada

Product No. : 330907-05-30-05-02-CN

Product type : 3300 NSv Reverse Mount Probe

Made in U.S.A

Ordering information:

330907-05-30: M10X1 threads

Total Length Option : 05 0.5 meter (20 in)

Connector Option :02 Miniature coaxial ClickLoc  
connector, standard cable

Agency Approval Option : CN =Country Specific

The NSv probe has increased chemical  
resistance compared to the 3300 RAM probe,  
which allows its use in many process  
compressor applications. The side-view  
characteristics of the 3300 NSv probe are also  
superior to those of the 3000-series 190 probe  
when gapping the 3300 NSv probe at the same  
distance from the probe target.

The 3300 NSv probe comes in varying probe  
case configurations, including armored and  
unarmored 1/4-28, 3/8-24, M8X1 and M10X1  
probe threads. The reverse mount 3300 NSv  
probe comes standard with either 3/8-24 or  
M10X1 threads. All components of the  
transducer system have gold-plated brass  
ClickLoc connectors. ClickLoc connectors lock  
into place and prevent the connection from  
loosening. The patented TipLoc molding  
method provides a robust bond between the  
probe tip and the probe body.

Probe dc Resistance

Probe Length

(m) 0.5

Resistance from the Center

Conductor to the Outer

Conductor (RPROBE)

(ohms)

$4.0 \pm 0.5$

Field Wiring

0.2 to 1.5 mm<sup>2</sup> (16 to 24

AWG)[0.25 to 0.75 mm<sup>2</sup> (18

to 23 AWG) with ferrules].

Recommend using threeconductor shielded triad

cable. Maximum length of

305 meters (1,000 feet)

between the 3300 XL NSv

Proximito Sensor and the

monitor. See the frequency

response graphs Figure 16

and Figure 17 for signal

rolloff at high frequencies

when using longer field

wiring lengths.

Linear Range

1.5 mm (60 mils). Linear

range begins at

approximately 0.25 mm (10

mils) from target and is

from 0.25 to 1.75 mm (10 to



70 mils) (approximately -1  
to -13 Vdc).  
Recommended  
Gap Setting 1.0 mm (40 mils)  
Mechanical  
Probe Tip  
Material Polyphenylene sulfide (PPS).  
Probe Case  
Material AISI 304 stainless steel (SST)  
Probe Case  
Torque  
Maximum  
Rated Recommended  
Reverse  
mount  
probes  
22.6 N•m  
(200 in•lb)  
7.5 N•m  
(66 in•lb)  
System Weight (typical)  
Probe Approximately 14 to 150 g  
(0.5 to 5.3 oz)  
Probe  
Case  
Thread  
Maximum Length of Thread  
Engagement  
M10x1 15 mm  
Probe Temperature Range  
Operating  
Temperature  
-52°C to +177°C (-62°F to  
+351°F)  
Storage  
Temperature  
-52°C to +177°C (-62°F to  
+351°F)  
Exposing the probe  
to temperatures  
below -34°C (-30°F)  
for a sustained  
period of time may  
cause premature  
failure of the  
pressure seal.  
Probe  
Pressure  
3300 NSv probes are  
designed to seal differential  
pressure between the probe  
tip and case. The probe  
sealing material consists of a  
Viton O-ring.  
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