

# Bently Nevada 330901&330902&330908&330909 Series Service Manual

330901-20-32-10-02-05

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## 1. Description

Manufacturer : Bently Nevada

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## 3. Product Information



Manufacturer : Bently Nevada

Product Type : 3300 NSv Proximity Probes

Product No :330901-20-32-10-02-05

Product Type : 3300 NSv Proximity Probes

Made in U.S.A

330901 = 3300 NSv Probe, 1/4-28 UNF thread, without armor

Unthreaded Length Option : 20 = 2.0 in

Overall Case Length Option :32=3.2 in

Total Length Option : 10 =1.0 meter (39 in)

Connector and Cable-Type Option :02= Miniature coaxial ClickLoc connector,  
standard cable

Agency Approval Option :05= Multiple Approvals

Probe Case Material : AISI304 stainless steel (SST).

Probe Tip Material : Polyphenylene sulfide (PPS).

Probe Cable Specifications: 75  $\Omega$  coaxial, fluoroethylene propylene (FEP) insulated probe cable in the following total probe lengths: 0.5, 1, 5, or 7 metres.

Probe dc Resistance

Probe Length (m) 1.0m

Resistance from the Center

Conductor to the Outer

Conductor (RPROBE)

(ohms)

4.2  $\pm$  0.5

Connector-to-connector Torque

Probe Case

Torque

Maximum

Rated Recommended

3/8-24 or

M10X1 probe

cases

33.9 N•m

(300 in•lb)

11.3 N•m

(100 in•lb)

3/8-24 or

M10X1 probe

cases – first

three

threads

22.6 N•m

(200 in•lb)

7.5 N•m

(66 in•lb)

Thread Engagement Limits

Probe

Case

Thread

Maximum Length of Thread

Engagement

3/8-24 0.563 in

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. Probes are not  
pressure tested prior to  
shipment.

Probe Approximately 14 to 150 g  
(0.5 to 5.3 oz)

#### Temperature

#### Classification

#### Ambient Temperature

(Probe Only)

For EPL Ga and Gc

T1 -55°C to +232°C

T2 -55°C to +177°C

T3 -55°C to +120°C

T4 -55°C to +80°C

T5 -55°C to +40°C

For EPL Dc

T280°C @ Ta -55°C to +232°C

T225°C @ Ta -55°C to +177°C

T170°C @ Ta -55°C to +120°C

T130°C @ Ta -55°C to +80°C

T105°C @ Ta -55°C to +100°C

T90°C @ Ta -55°C to +40°C

