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

330909-00-80-70-02-00

1. Description

Product No :330909-00-80-70-02-00

3. Product Information

Product No :330909-00-80-70-02-00

Product Type : 3300 NSv Proximity Probes

Made in U.S.A

330909 3300 NSv Probe, 3/8-24 UNF thread,

with armor

Unthreaded Length Option : 00 = 0.0 in

Overall Case Length Option : 80= 8.0 in

Total Length Option : 70 =7.0 meters (23.0 feet)

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

standard cable

Agency Approval Option :00 = Not required

Probe Case Material : AISI304 stainless steel (SST).

Probe Tip Material : Polyphenylene sulfide (PPS).

Probe Cable Specifications: 75 Ω 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) 7.0

Resistance from the Center

Conductor to the Outer

Conductor (RPROBE)

(ohms)

5.9 ± 0.9

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 3/8-24

Maximum Length of Thread

Engagement

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)
Counterbore
Minimum: 9.5 mm (0.375
in)
Recommended minimum:
13 mm (0.5 in)
Counterbores smaller than
13 mm (0.5 in) generally
result in a change in scale
factor at far gaps.
Reducing the gap between
the probe and the target
will allow the transducer
system to maintain its
Average Scale Factor (ASF)
over a reduced linear
range. .