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

330901-14-43-05-02-05

1. Description

Manufacturer : Bently Nevada

3. Product Information

Manufacturer : Bently Nevada

Product Type : 3300 NSv Proximity Probes

Product No :330901-14-43-05-02-05

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 :14 = 1.4 in

Overall Case Length Option :43=4.3 in

Total Length Option : 05 = 0.5 meter (20 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 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) 1.0m

Resistance from the Center

Conductor to the Outer

Conductor (RPROBE)

(ohms)

4.2 ± 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 -55C 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