

Identity and Work Boundary

Bently Nevada 31000-32-05-15-030-02-02

This field sequence applies only to the A32 NSv-probe 31000 housing with C15 standoff, D030 penetration, E02 fittings and F02 mounting thread. Use the site-approved isolation, machine and monitoring-channel procedures.

Before Disturbing the Installed Assembly

CONTROL	REQUIRED RECORD
Exact identity	Capture the complete ordering mark, installed probe and approval marking.
Machine state	Place the shaft and monitor in the approved maintenance condition.
Mounting	Record the existing case connection and retained sleeve arrangement.
Signal chain	Record probe, connector, cable route, Proximitor sensor and channel.
Conduit	Document the installed two-fitting/one-plug arrangement before removal.
Hazardous area	Identify applicable barrier, area approval and controlled drawing.

Release hold point

Do not treat a matching external shape as sufficient. The probe family, fitting selection, protective function and installed system must agree with the controlled record.

Related Bently Nevada Products on Apter Power

Bently Nevada 31000-16-05-00-070-03-02
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Bently Nevada 32000-28-05-00-070-03-02
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Mechanical Preparation and Mounting

Inspect Before Assembly

ITEM	ACCEPTANCE ACTION
PPS housing	Check for cracks, abrasion, moisture paths and sound cover closure.
Metal sleeve	Check corrosion, retention and external mounting engagement.
O-ring	Inspect sealing condition and apply the controlled replacement rule.
A32 probe	Check the NSv probe, tip, lead and connector protector.
F02 connection	Confirm the selected 3/4-14 NPT thread mates with the case.
E02 kit	Account for both conduit fittings and the single plug.

Controlled Installation Sequence

STAGE	FIELD DECISION
Seat	Fit the retained outer sleeve and verify proper mechanical seating.
Align	Maintain the C15 standoff and D030 penetration selections in the approved geometry.
Secure	Use the manufacturer's retaining-nut torque on the intended joint.
Route	Protect the probe cable and connector at the conduit transition.
Close	Inspect the cover, seals, fittings and enclosure closure.

Assembly Constraints from the Datasheet

BOUNDARY	INSTALLATION DECISION
Casing location	For radial vibration, confirm the machine casing is affixed to the bearing.
Probe access	Retain external access for future gap adjustment and replacement.
Conduit	Use the selected E02 fittings; do not add a redundant fitting to flexible conduit.
Pressure	Do not use the plastic housing as a pressure-retaining enclosure.
Hazardous area	Apply the approved transducer system and barrier installation, not enclosure appearance.

Signal Chain and Gap Acceptance

Electrical and Monitoring Checks

CHECK	REQUIRED EVIDENCE
Probe match	Confirm the installed NSv probe is the ordered A32 component.
Connector	Mate the protected connector to the approved companion cable.
Cable route	Check strain relief and isolation from damage along the full run.
Sensor	Match the Proximitor sensor to the documented NSv transducer system.
Monitor	Verify the channel input and approved alarm or reference behavior.
Static gap	Set and record the probe gap with the manufacturer's NSv procedure.
Dynamic response	Confirm the expected vibration or phase-reference signal.
Area safety	Recheck the installed approval and barrier arrangement before return.

Acceptance boundary

The housing is not a substitute for the approved transducer-system manual. Unexpected output requires a controlled check of target, gap, connector, cable, Proximitor and monitor setup.

Related Bently Nevada Products on Apter Power

Bently Nevada 32000-28-05-06-020-07-02

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Bently Nevada 32000-16-05-04-135-03-02

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Release Record and Source

Five Release Decisions

DECISION	EVIDENCE TO RETAIN
Identity	A32/B05/C15/D030/E02/F02 selections agree with the installed label.
Mechanical	Mounting, cover, sleeve, seal and fitting positions are accepted.
System	NSv probe, companion cable, Proximitor and monitoring channel match.
Signal	Static gap, observed output and alarm/reference response are recorded.
Area	Approval, intrinsic-safety barriers and drawings match the installed area.

Manufacturer source

Bently Nevada 31000 and 32000 Proximity Probe Housing Assemblies Datasheet 141610 Rev. R. Housing description and warnings: pages 1-2; materials and protection: pages 3-4; ordering code: pages 5-6. This is the sole technical source for this guide.

Source-Coverage Questions

QUESTION	ENGINEERING ANSWER
What must be confirmed before hazardous-area service?	The housing is not explosion-proof. Confirm the installed probe approval, approved system, appropriate intrinsic-safety barriers and applicable installation drawing.
Can the probe gap be adjusted without opening the machine case?	Yes. The 31000 housing gives external access to the probe and extension cable for controlled gap adjustment or probe replacement, subject to the site's isolation procedure.

Related Bently Nevada Products on Apter Power

Bently Nevada 32000-29-10-04-048-03-02

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