

Ordered Assembly and System Role

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

Bently Nevada 31000-32-05-15-030-02-02 is an externally mounted proximity-probe housing assembly ordered with a 3300 XL NSv probe, connector protector and multiple-approval probe option. Its PPS housing gives external access for controlled probe-gap adjustment and service on a matched monitoring system.

Six Ordering-Code Decisions

CODE	DOCUMENTED CONTENT
A32 probe	3300 XL NSv probe; connector protector; multiple-approval probe selection
B05 cable	Manufacturer-coded probe-cable selection; confirm the installed route
C15 adapter	Manufacturer-coded standoff adapter; retain the approved position
D030 penetration	Manufacturer-coded adjustable penetration; verify the final probe gap
E02 fittings	Two 3/4-14 NPT fittings and one plug
F02 thread	3/4-14 NPT mounting-thread selection

Functional boundary

The 31000 housing is an external mechanical and environmental enclosure for the ordered probe. It allows service access, but does not by itself establish complete NSv system performance or hazardous-area approval.

Documented Installation Roles

ROLE	ENGINEERING INTERPRETATION
Through-case mounting	The housing positions the ordered probe through the machine case.
Radial monitoring	Use a casing affixed to the bearing for relative radial vibration.
External service	The probe and extension cable remain accessible for gap adjustment.

Qualification boundary

The manufacturer's API 670 statement applies to the external housing design. The installed NSv transducer chain, mounting, barriers and approvals still require application-specific confirmation.

Materials, Protection and Installation

Manufacturer-Published Housing Facts

AREA	PUBLISHED FACT
Housing	Glass-reinforced PPS thermoplastic containing conductive fibers.
Sleeve and chain	AISI 304 stainless steel.
Outer sleeve and screws	AISI 303 stainless steel.
Sealing	Neoprene housing O-ring; inspect against the controlled installation.
Environmental protection	Type 4X and IP66 for the assembled housing as published.
NSv probe temperature	-34 to +177 C operating range for the ordered NSv probe family.
Retaining nut	Recommended tightening torque 29.4 N.m (260 in.lb).

Do Not Overstate the Enclosure

QUESTION	CONTROLLED ANSWER
Explosion-proof?	No. The manufacturer's 31000 warning explicitly excludes explosion-proof use.
Pressure vessel?	No. The plastic housing is not designed for internal or external pressure.
Intrinsically safe?	Only with approved transducer system, appropriate barriers and installed markings.
Radial vibration?	The machine casing must be affixed to the bearing for accurate relative vibration.

Related Bently Nevada Products on Apter Power

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Questions, Source and Related Products

Exact-Configuration Questions

QUESTION	ANSWER
Which probe is built into this A32 housing option?	A32 selects a 3300 XL NSv probe with connector protector and a multiple-approval probe option in the manufacturer's 31000 ordering table.
How does the 05 cable option affect installation?	Option 05 supplies the manufacturer-coded probe cable; route it without strain and keep its connector protector in the intended position.
What fittings are furnished by the E02 selection?	E02 supplies two 3/4-14 NPT fittings and one plug, unlike E01's one-fitting and two-plug arrangement.

Verified manufacturer source

Bently Nevada 31000 and 32000 Proximity Probe Housing Assemblies Datasheet 141610 Rev. R. Ordering options on pages 5-6; housing role, materials and protection on pages 1-4. Related links below are site navigation, not source evidence.

Related Bently Nevada Products on Apter Power

Bently Nevada 31000-16-10-00-050-03-02

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Bently Nevada 31000-31-05-20-058-00-02

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