

24701-34-05-00-041-03-02

Proximity Probe Housing Assembly

Bently Nevada 24701-34-05-00-041-03-02 is a stainless-steel proximity probe housing assembly. It positions and protects a 3300 XL 8 mm probe at an external machine mounting point.

Manufacturer	Bently Nevada
Product family	21000 and 24701 Probe Housing Assemblies
Part number	24701-34-05-00-041-03-02
Country of origin	USA
Source	21000 and 24701 Proximity Probe Housing Assemblies Datasheet — 141600 Rev. AC

Product role

- 1

Protects and positions an externally mounted proximity probe
- 2

Provides controlled insertion adjustment at the machine case
- 3

Routes the probe lead through a sealed conduit entry
- 4

Supports service access without opening the machine casing

Document purpose

Technical review	Model identity and manufacturer-published values
Installation review	Mounting, connection and companion-hardware checks
Commissioning review	Controlled signal, diagnostic and functional response

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1. Technical specifications

The following values are transcribed only from the manufacturer records named in this document.

Housing material	Stainless steel
Probe family option	3300 XL 8 mm
Probe cable length	20 in (0.5 m)
Standoff adaptor	None
Probe penetration	4.1 in (104 mm approximately)
Housing body material	303 stainless steel
Housing sleeve material	304 stainless steel
Mounting thread	3/4-14 NPT
Conduit accessories	3/4-14 NPT plug; 3/4-to-1/2 NPT reducer; cable seal grip
Adjustment range	13 mm
Environmental enclosure	CSA Type 4
Industry conformance	API 670

Configuration identity checks

Complete model	24701-34-05-00-041-03-02
Manufacturer part	24701-34-05-00-041-03-02
Installed family	21000 and 24701 Probe Housing Assemblies
Record authority	141600 Rev. AC

2. System function and integration

Bently Nevada 24701-34-05-00-041-03-02 is a stainless-steel proximity probe housing assembly. It positions and protects a 3300 XL 8 mm probe at an external machine mounting point.

Compatible installation elements

Component 1	3300 XL 8 mm proximity probe
Component 2	machine case 3/4-14 NPT port
Component 3	sealed conduit system
Component 4	matched proximity transducer loop

Engineered application matrix

Turbine bearing-case probe mounting	Protects and positions an externally mounted proximity probe
Compressor shaft-vibration probe access	Provides controlled insertion adjustment at the machine case
External axial-position probe housing	Routes the probe lead through a sealed conduit entry
API 670 machinery installation	Supports service access without opening the machine casing

Related products on Apter Power

330106-05-30-05-02-00	3300 XL 8 mm reverse-mount probe	Open product page
330103-00-12-10-02-00	3300 XL 8 mm metric probe	Open product page
330103-00-16-10-02-05	3300 XL 8 mm approved probe	Open product page
330130-045-00-00	3300 XL extension cable	Open product page

3. Installation and commissioning controls

Set 24701-34-05-00-041-03-02 penetration and sleeve position from the machine drawing, seal the conduit accessories and confirm full shaft clearance before final probe gapping.

- 1

Verify the complete 24701-34-05-00-041-03-02 configuration before assembly.
- 2

Place the machine and probe channel in the approved maintenance state.
- 3

Inspect the NPT machine port, housing threads and sealing surfaces.
- 4

Establish penetration without allowing the probe tip to contact the shaft.
- 5

Secure the sleeve and cable seal grip after the final adjustment.
- 6

Maintain conduit drainage and enclosure sealing appropriate to the installation.
- 7

Confirm probe cable routing and matched-system length before connection.
- 8

Record final penetration, gap voltage and controlled channel-test results.

Acceptance record

Identity	24701-34-05-00-041-03-02 recorded
Mounting / connection	3300 XL 8 mm proximity probe
Companion hardware	machine case 3/4-14 NPT port
Functional duty	Turbine bearing-case probe mounting
As-left evidence	Connections, diagnostics and controlled response recorded

Return-to-service sequence

1	Confirm physical security and connector condition
2	Restore the documented channel or system configuration
3	Observe stable diagnostics before applying a controlled test
4	Record the final process response and release authorization

4. Engineer FAQ and source record

What installation control is important for 24701-34-05-00-041-03-02?	Use the model-specific mounting arrangement, protect mating surfaces and maintain the documented cable support and mechanical clearance for 24701-34-05-00-041-03-02.
How is 24701-34-05-00-041-03-02 checked during commissioning?	Apply the approved controlled test for turbine bearing-case probe mounting, verify polarity or direction where applicable, and compare the measured response with the configured channel.
Can parameters from a similar model be used for 24701-34-05-00-041-03-02?	No. Retain only values and configuration details that apply directly to the complete 24701-34-05-00-041-03-02 ordering code and installed system.
What maintenance evidence should be retained for 24701-34-05-00-041-03-02?	Retain the full 24701-34-05-00-041-03-02 identity, as-left mounting and connections, continuity or bias checks, diagnostics and the final functional-test result.
What should be verified before returning 24701-34-05-00-041-03-02 to service?	Confirm secure mounting, connector integrity, restored configuration, stable signal behavior and the intended response of the associated monitoring channel.
What must be matched before replacing 24701-34-05-00-041-03-02?	Match the complete 24701-34-05-00-041-03-02 marking, proximity probe housing assembly, installed mounting or connector execution and the approved equipment record before removal.
Which system components should be checked with 24701-34-05-00-041-03-02?	Confirm the installed 3300 XL 8 mm proximity probe, machine case 3/4-14 NPT port and the assigned monitoring or connection point are the documented combination for 24701-34-05-00-041-03-02.
How should wiring or cabling for 24701-34-05-00-041-03-02 be recorded?	Record conductor identity, shield termination, connector orientation, cable route and the as-found diagnostic state before disconnecting 24701-34-05-00-041-03-02.

Manufacturer source identifiers

Document title	21000 and 24701 Proximity Probe Housing Assemblies Datasheet
Publication / revision	141600 Rev. AC
Manufacturer	Bently Nevada / Baker Hughes

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