

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.

APTER POWER SALES TEAM

WHATSAPP / PHONE
+86 180 3023 5313

EMAIL
sales13@apterpower.com

WEBSITE
www.apterpower.com



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

Manufacturer	Bently Nevada
Product name	Proximity Probe Housing Assembly
Product family	21000 and 24701 Probe Housing Assemblies
Part number	24701-34-05-00-041-03-02
Country of origin	USA

Core system roles

- 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

Engineering note

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. Technical data

Official manufacturer values for the complete product record are arranged below for engineering review.

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 verification

Complete model	24701-34-05-00-041-03-02
Official product family	21000 and 24701 Probe Housing Assemblies
Primary source	21000 and 24701 Proximity Probe Housing Assemblies Datasheet — 141600 Rev. AC
Installation record	Physical marking and installed interfaces retained

Parameter authority	Only values directly assigned to the complete model are used
Identity authority	Physical marking and manufacturer ordering code
Change control	Installed arrangement retained before replacement
Acceptance authority	Approved site test and final diagnostic record

2. Functions, components and applications

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

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 Apter Power product pages

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

Integration statement

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.

3. Precautions and return-to-service evidence

- 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.

Commissioning evidence matrix

Identity	Full 24701-34-05-00-041-03-02 marking confirmed
Installed component	3300 XL 8 mm proximity probe
Paired hardware	machine case 3/4-14 NPT port
Primary duty	Turbine bearing-case probe mounting
Functional test	Protects and positions an externally mounted proximity probe
Release record	Diagnostics and as-left response retained

Turbine bearing-case probe mounting	Verify the protects and positions an externally mounted proximity probe response under controlled conditions
Compressor shaft-vibration probe access	Verify the provides controlled insertion adjustment at the machine case response under controlled conditions
External axial-position probe housing	Verify the routes the probe lead through a sealed conduit entry response under controlled conditions
API 670 machinery installation	Verify the supports service access without opening the machine casing response under controlled conditions

4. Engineer FAQ and controlled 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.

Source identifiers

Manufacturer	Bently Nevada / Baker Hughes
Official document	21000 and 24701 Proximity Probe Housing Assemblies Datasheet
Publication / revision	141600 Rev. AC
Applied product	24701-34-05-00-041-03-02