

146055-10-02-00

3300 Reverse-Mount Ceramic-Capped Probe

Bently Nevada 146055-10-02-00 is a reverse-mount ceramic-capped probe with 3/8-24 UNF threads and 1.0 m standard cable. Its sealed front interface is designed for installations exposed to corrosive

ENGINEERING QUICK REFERENCE

MODEL DETAIL	DOCUMENTED VALUE
Base model	146055
Mounting	Reverse mount
Mounting thread	3/8-24 UNF
Total probe length	1.0 m
Connector	Miniature coaxial ClickLoc
Cable	Standard FEP-insulated coaxial
Armor	Not available

PRODUCT SNAPSHOT

BRAND
Bently Nevada

FAMILY
Bently Nevada 3300 Ceramic

PART
146055-10-02-00

DOCUMENT STATUS
Controlled engineering copy

APTER POWER

WHATSAPP / PHONE
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WEBSITE
www.apterpower.com



PRODUCT OVERVIEW

146055-10-02-00 provides non-contacting measurement through a front-sealed reverse-mount ceramic probe for a matched Bently Nevada 3300 Ceramic Capped Probe System installation.

Exact article identity 146055-10-02-00

3300 Reverse-Mount Ceramic-Capped Probe

Documented role: non-contacting measurement through a front-sealed reverse-mount ceramic

Controlled installation, diagnostics and functional verification

RELATED APTER POWER PAGES					
1	Bently Nevada 330171-00-14-10-02-05	2	Bently Nevada 330171-00-24-10-02-00	3	Bently Nevada 330905-00-11-05-02-00
4	Bently Nevada 330851-04-000-030-10-00-05	5	Bently Nevada 330190-040-00-05	6	Bently Nevada 330101-00-70-10-02-05
7	Bently Nevada 330880-28-15-042-00-02	8	Bently Nevada 330171-00-08-90-01-05	9	Bently Nevada 330173-00-04-20-12-05

SYSTEM COMPONENTS

DOCUMENTED COMPONENT	ROLE IN SYSTEM
Proximity probe	Matched extension cable
Proximitor Sensor	AISI 4140 target

ENGINEERING CONTEXT

The component remains matched to its documented host position, mating hardware, wiring or cable route and approved configuration. Commissioning preserves that architecture and verifies controlled response.

TECHNICAL DATA

PARAMETER	VALUE	PARAMETER	VALUE
Base model	146055	Probe tip	Alumina ceramic
Mounting	Reverse mount	Case	AISI 304 stainless steel
Mounting thread	3/8-24 UNF	Probe cable impedance	75 ohm
Total probe length	1.0 m	1 m probe DC resistance	7.59 +/- 0.50 ohm
Connector	Miniature coaxial ClickLoc	System linear range	1.52 mm
Cable	Standard FEP-insulated coaxial	Recommended gap	1.0 mm
Armor	Not available	Front seal pressure	34 bar nitrogen
Connector protector	Not available	Probe temperature range	-51 to +177 C
Approval option	Not required	Suitable housings	31000 or 21000

RELATED PRODUCT PAGES

1

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330173-00-04-20-12-05

TECHNICAL NOTE

Install 146055-10-02-00 only in the documented Bently Nevada 3300 Ceramic Capped Probe System position. Preserve exact mating interfaces and the as-found record, then verify diagnostics and non-contacting measurement through a front-sealed reverse-mount ceramic probe under controlled conditions.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Machinery-protection planned maintenance

Restores non-contacting measurement through a front-sealed reverse-mount ceramic probe in the documented monitoring architecture.

3300 Reverse-Mount Ceramic-Capped Probe replacement

Uses exact 146055-10-02-00 identity instead of an adjacent order-code execution.

Monitoring-system refurbishment

Preserves the installed host position, mating interfaces, wiring and approved configuration.

Controlled recommissioning

Confirms diagnostics and the affected measurement or communication function before operation.

PRODUCT PRECAUTIONS

- 1
- Confirm the complete 146055-10-02-00 marking, product role and documented installation position.
- 2
- Place the machinery protection system and connected process in the approved maintenance state.
- 3
- Isolate power and field circuits, prove the safe state and apply ESD controls where required.
- 4
- Record every mating component, terminal, connector, shield, cable route and configuration assignment.
- 5
- Verify all manufacturer-documented mechanical and electrical values for this exact execution.
- 6
- Restore the matched host, interfaces, grounding, shielding and approved configuration.
- 7
- Energize under control and review rack, channel or transducer-loop diagnostics.
- 8
- Complete a controlled functional test of non-contacting measurement through a front-sealed reverse-mount ceramic probe before service release.

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ENGINEER FAQ

Q1 Which direction is 146055 mounted?

Reverse mount with 3/8-24 UNF threads.

Q2 Where is its ceramic seal?

At the front ceramic-to-metal interface.

Q3 Is the rear also sealed?

No. Keep the rear away from water, ammonia and hydrogen sulfide.

Q4 What does option 10 set?

A 1.0 m total probe length.

Q5 Can reverse mount have armor or a protector?

No. Those options are unavailable for 146055 reverse-mount probes.

Q6 How is its gap different from a standard probe?

Set approximately 1.0 mm electrically; the linear range is 1.52 mm.

Q7 What front-seal pressure is published?

34 bar (500 psi) nitrogen at the front seal.

Q8 Which housings are depicted for 146055?

The 31000 and 21000 housings.

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SOURCE 3300 Ceramic Capped Probe Datasheet 172932 Rev. J | Baker Hughes / Bently Nevada manufacturer datasheet

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