

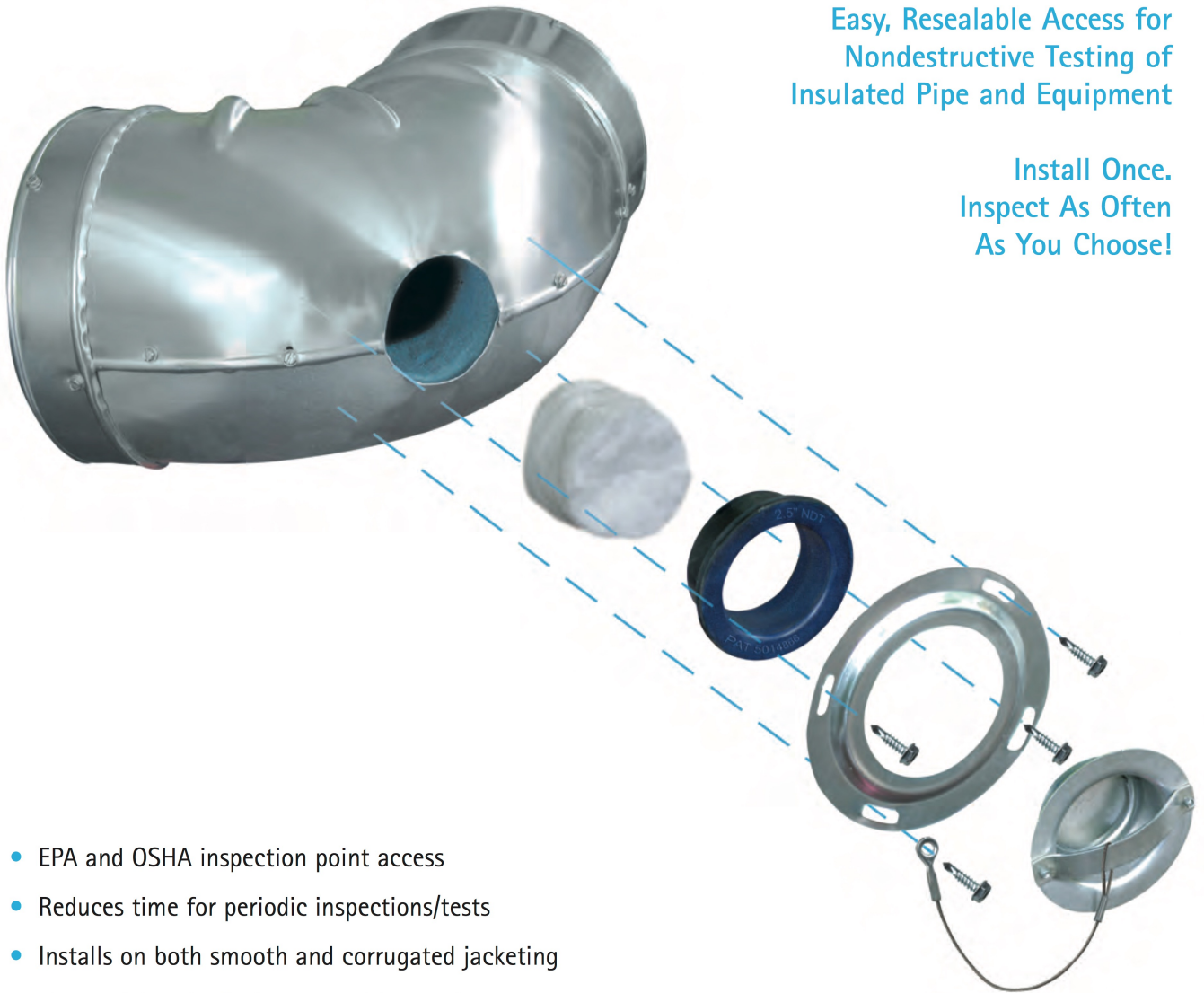


NDT Inspection Plugs

Petroleum Refining · Chemical · Petrochemical · Paper and Pulp · Power Generation · Air Handling · Manufacturing · Transportation

Easy, Resealable Access for
Nondestructive Testing of
Insulated Pipe and Equipment

Install Once.
Inspect As Often
As You Choose!



- EPA and OSHA inspection point access
- Reduces time for periodic inspections/tests
- Installs on both smooth and corrugated jacketing
- No special tools, O-rings, transition gaskets, contoured flanges or "goof plates" required
- Reusable
- Patented design seals and protects against corrosion under the insulation (CUI), chemical and UV exposure of the elastomer sleeve
- Lanyard stops plug cap loss
- Available in 1.5, 2.5, 3.0 and 5.0 in. (38, 64, 76 and 127 mm) sizes with or without handle, lanyard and locking ring, as shown

NDT Equipment Producer, Distributor & Advanced Service Provider

28 Pinnacle House, Juniper Drive, SW18 1JE
London, United Kingdom



info@advanspec.uk



www.advanspec.uk



+44 (0) 7463 745496



Material Specifications

The NDT Inspection Plug consists of an elastomer sleeve and a metal cap, with or without handle, lanyard and locking ring. The elastomer Sleeve is available in either EPDM (ethylene propylene) or silicone.

	EPDM	Silicone
Color	Black	Gray
ASTM Designation	D2000 2BA 510 A14 B13 C12 F17	D2000 2GE 506 A19 B37 F19
Temperature Range	-65° to +300° F -54° to +149° C	-65° to +400° F -54° to +204° C
Ozone Resistance	Outstanding	Excellent
Weathering Resistance	Outstanding	Excellent

The metal Cap is available in either 5052 aluminum or 304 stainless steel. The optional handle and locking ring would be of the same material. All lanyards are 304 stainless steel.

Also available are hole saws, arbors and TML Inspection Point Labels.

Design Specifications

NDT Plug Sizes Available	Recommended for Insulation Jacket OD
1.5 in. (38 mm)	Small Diameter Piping
2.5 in. (64 mm)	Minimum 6 in. (152 mm)
3.0 in. (76 mm)	Minimum 9 in. (229 mm)
5.0 in. (127 mm)	Vessels & Equipment

ISO-9001:2008 CERTIFIED

Reference to:

OSHA 29 CFR 1910.119/261
(Monitor Process Equipment)

API 510/570/653
(Inspection Codes)

API RP 578/579/581

US Patent #5,014,866

Inspection Access Procedure

- Locate and mark the insulation jacket where the test is required.
- Use either tin snips or a hole saw to penetrate the insulation.
- Remove the final layer of insulation in the safest and most convenient manner (using your hand or knife) to expose the substrate for electronic and visual inspection.
- After inspection, re-insert the insulation or replace with a high density material.
- Insert the Sleeve. (Caulk around the sleeve for cold applications is recommended.)
Secure the Locking Ring and Lanyard (if applicable).
Insert the Plug Cap to affect a seal.

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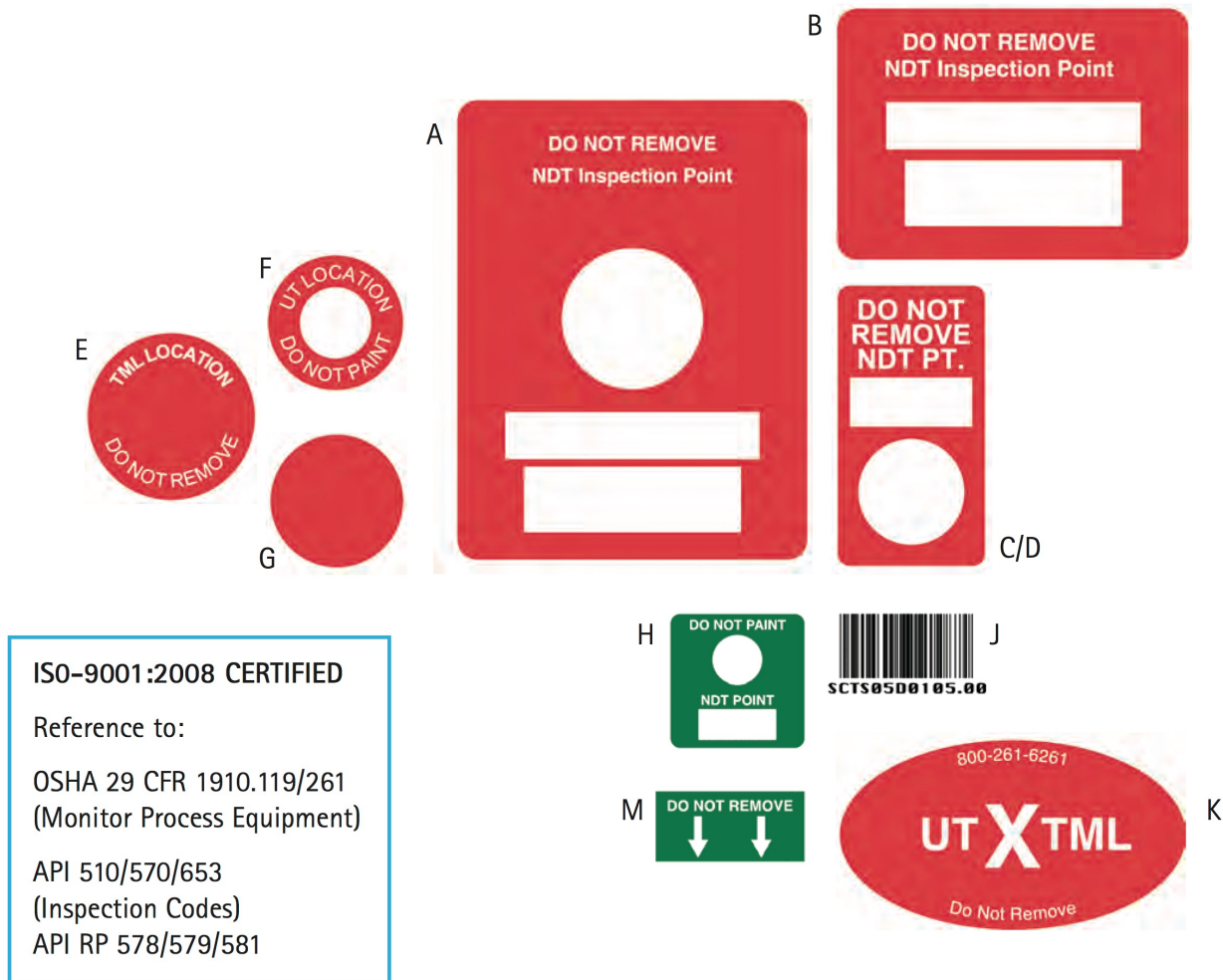
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NDT Inspection Point Labels

Petroleum Refining · Chemical · Petrochemical · Paper and Pulp · Power Generation · Air Handling · Manufacturing · Transportation

- High Quality Thickness Measurement Location (TML) Labels for Pipe and Equipment Process Safety Management
- Low-Leachable, High-Strength Adhesive
- Temperature Resistance -40°F to +300°F (-40°C to +149°C)



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Standard Label Product Descriptions

Label A - Measures 3" x 3.875" with a 1.25" diameter opening for inspection and blank spaces for on-site inscription. A UV laminate is an integral part of the label with a removable tab to overlay the inscribed marking. The standard label is bright orange. Wording: DO NOT REMOVE, NDT INSPECTION POINT.

Label B - Measures 3"x 2" with blank spaces for on-site inscription. A UV laminate is an integral part of the label with a removable tab to overlay the inscribed marking. The standard label is bright orange. Wording: DO NOT REMOVE, NDT INSPECTION POINT.

Label C - Measures 1 " x 2" with a .75" diameter opening for inspection and a blank space for on-site inscription. The standard label is bright orange. Wording: DO NOT REMOVE, NDT PT.

Label D - Identical to Label C with a UV laminate supplied as an integral part of the label with a removable tab to overlay the inscribed marking.

Label E - Measures 1.5" in diameter. The standard label is bright orange. Wording: TML LOCATION, DO NOT REMOVE.

Label E2 - (Not Pictured) Identical to Label E in size, color and wording, but the label stock is 1.8 mil destructible vinyl with UV cured ink. NOTE: Maximum continuous use temperature is +200°F (+93°C).

Label F - Measures 1.25" in diameter with a .75" diameter opening. The standard label is bright orange. Wording: UT LOCATION, DO NOT PAINT.

Label G - Measures 1.25" in diameter.

Label H - Measures 1.5" x 1.5" with a .625" diameter opening and a blank space for on-site inscription. A UV laminate is an integral part of the label with a removable tab to overlay the inscribed marking. The standard label is bright green. Wording: DO NOT PAINT, NDT POINT.

Label J - Measures 2.5" x .75" to accommodate up to 14 characters. These bar-coded TML labels are printed on 2.0 mil white polyester stock, per customer specifications, for on-site application or as an integral part of Labels A or B. Any bar-code symbology can be printed. Set-up charges may apply.

Label K - Measures 2.25" x 1.25". The standard label is bright orange. Wording: 800-261-6261, UT X TML, DO NOT REMOVE.

Label K2 - (Not Pictured) Identical to Label K in size, color and wording, but the label stock is 1.8 mil destructible vinyl with UV cured ink. Note: Maximum continuous use temperature is +200°F (+93°C).

Label L - (Not Pictured) Identical to Label K in stock, color and wording, but is smaller and measures 2.0" x 1.25".

Label M - Measures 1" x .5", produced as a perforated tape for use on any diameter piping. The standard label is bright green. Two arrows and wording: DO NOT REMOVE.

Label N - (not pictured) Measures 1.5" x 2.5" with the same attributes as Label D.

General Product Specifications

The typical label stock is 3.5 mil matte silver mylar polyester material with a 1.0 mil UV laminate. The matte coating resists degradation from scuffing, chemicals, moisture and wide temperature fluctuations.

The adhesive is a high performance acrylic for strong bonding on textured surfaces.

Leachable chloride, fluoride and sulfur in the adhesive, as measured by ion chromatography - PPM - is 3, less than one, and less than one, respectively.

General Product Application Guidelines

Minimum application temperature for the adhesive is +58°F (+15°C). For best bonding conditions, application surface should be at room temperature or slightly higher.

For maximum bond strength, the surface should be clean and dry. The application surface should be free of loose particulate, such as dust, dirt and corrosion. A typical cleaning solvent is heptane or an industrial grade isopropyl alcohol.

Consult the manufacturer's Material Safety Data Sheet for proper handling and storage of solvents.

The acrylic adhesive requires 48-72 hours to achieve 90% of its ultimate bond strength. Several weeks are required to achieve 100% of its ultimate bond strength. Higher initial bonds are achieved through increased rub down pressure.

Customization and Accessories

Custom design labels (color, size, logos and materials) and metal tags can be quoted.

Industrial strength permanent markers for inspection plugs, labels and tags are available.

WARRANTY: NDT Seals, Inc. warrants that, at the time of manufacture, this product meets the specifications set forth above. Since we have no control over customers' use of the product, NDT Seals, Inc. disclaims all implied warranties of merchantability or fitness for a particular purpose. No warranties beyond those expressed herein are applicable.

Note: As we improve our products, warranties and application information, code approvals and performance specifications are updated. If this piece is more than one year old, please contact the company for the latest information. Mar 2014