

NEW!

Moisture-Proof Seal
Non-Metallic Grease Injection Fitting
Safety Relief Vent



ADVANCE PRODUCTS & SYSTEMS, LLC

KLEERBAND®

FLANGE PROTECTORS & RADOLID® PROTECTION CAPS



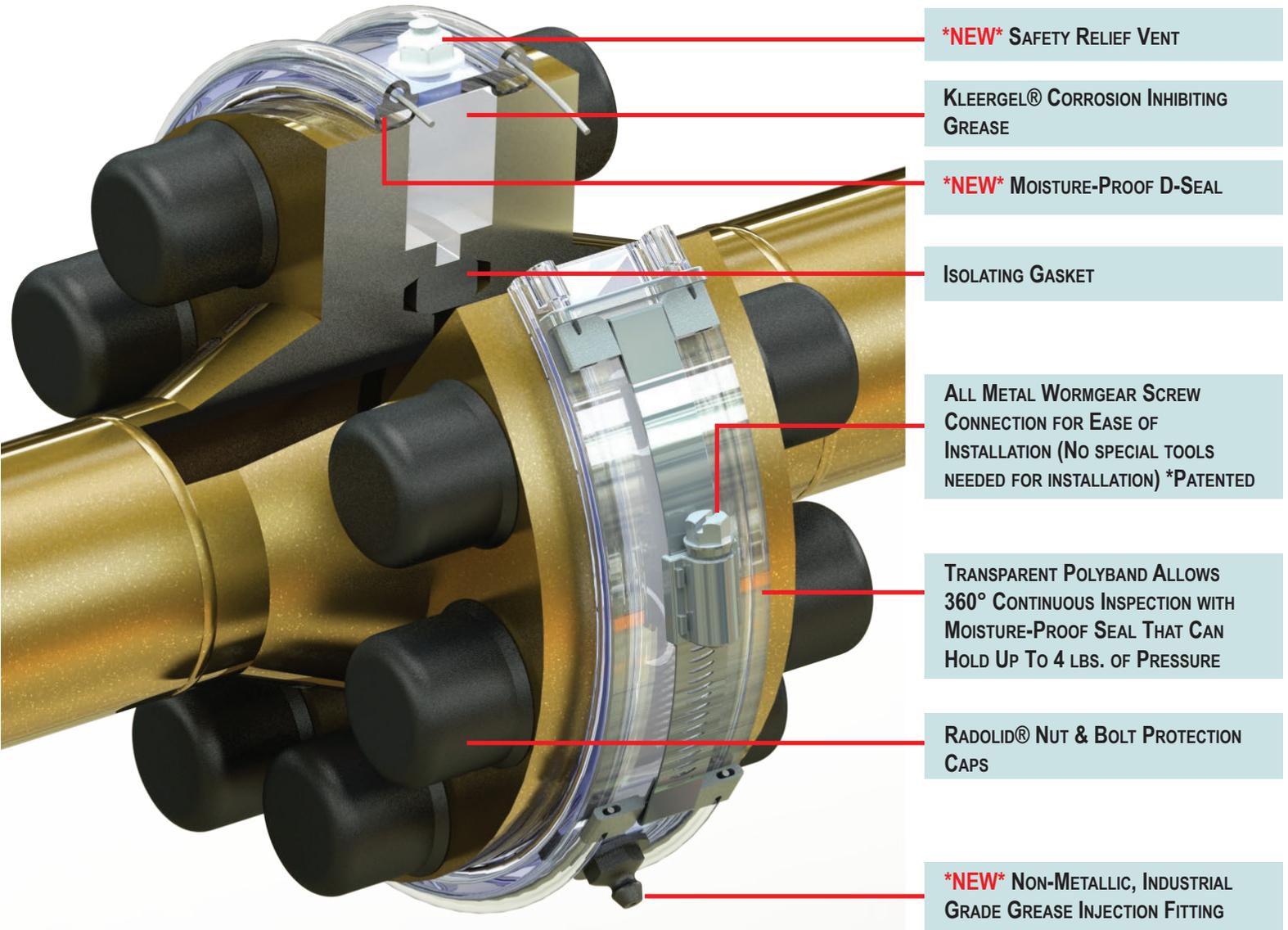
Radolid® Bolt Protection Caps • KLEERGEL® CORROSION INHIBITOR GREASE

**RADOLID® NUT & BOLT
PROTECTION CAPS**

-see page 3

ISO 9001:2015 CERTIFIED COMPANY - FM537405

Kleerband® Flange Protectors:



NEW SAFETY RELIEF VENT

KLEERGEL® CORROSION INHIBITING GREASE

NEW MOISTURE-PROOF D-SEAL

ISOLATING GASKET

ALL METAL WORMGEAR SCREW CONNECTION FOR EASE OF INSTALLATION (NO SPECIAL TOOLS NEEDED FOR INSTALLATION) *PATENTED

TRANSPARENT POLYBAND ALLOWS 360° CONTINUOUS INSPECTION WITH MOISTURE-PROOF SEAL THAT CAN HOLD UP TO 4 LBS. OF PRESSURE

RADOLID® NUT & BOLT PROTECTION CAPS

NEW NON-METALLIC, INDUSTRIAL GRADE GREASE INJECTION FITTING

NEW Moisture-Proof Seal

NEW Non-Metallic Grease Injection Fitting

NEW Safety Relief Vent

Controlling corrosion and being aware of its damaging effects is paramount in pipeline maintenance. With the use of Kleerband® Flange Protectors, Radolid® nut & bolt protection caps, and Kleergel® corrosion inhibiting grease, flanges and hardware remain safe from hazardous and unsightly corrosion that can cause leakage, failure, or even shutdown of equipment. The down time, coupled with the cost of cutting and welding a new flange, replacing flange bolts, nuts and seals, can become very expensive.



encountered in chemical plants, refineries, gas plants, offshore platforms, onshore oil fields, metering stations, water and wastewater plants, pump stations, and underground pipelines.

Kleerband® Flange Protectors are also designed for use on cathodically isolated flanges to prevent foreign matter from shorting out or bridging over an isolating gasket. All Kleerband® Flange Protectors are equipped with an exclusive safety relief vent and non-metallic grease injection fitting that assures complete loading of flange cavities. The extruded, transparent polyband allows continuous visual inspection without removal of the protector and provides a moisture-proof seal that can hold up to 4 lbs. of pressure. In addition, it is non-corroding, providing many years of service life and is completely reusable.

The Kleerband® Flange Protectors are designed to protect flange face, studs, and gaskets on raised face, full face, and ring joint flanges from atmospheric corrosion

APS' Radolid® Protection Caps:

The quick, easy, and cost effective way to apply nut and bolt protection



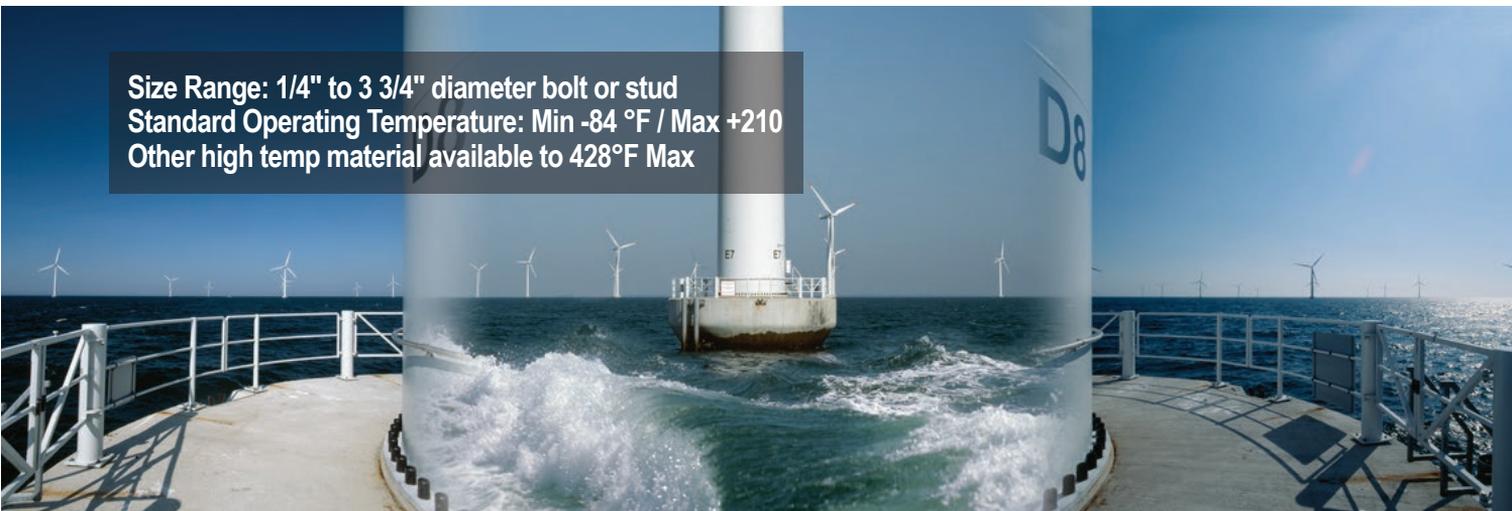
Unprotected

Protected

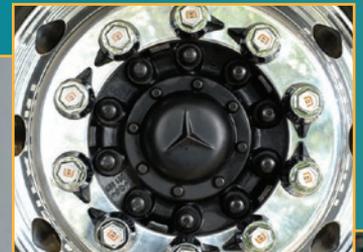


Practical, efficient and reusable

Size Range: 1/4" to 3 3/4" diameter bolt or stud
Standard Operating Temperature: Min -84 °F / Max +210
Other high temp material available to 428°F Max

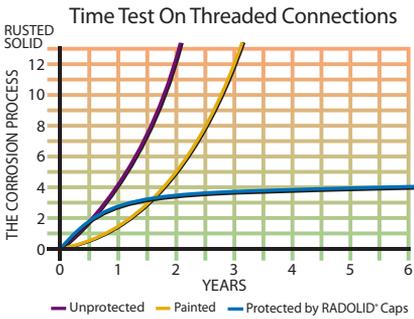


Radolid® Protection Caps are used to eliminate corrosion of nuts and bolts, thus allowing quick removal when necessary. These caps are easily installed by being pressed on to the bolted joint by hand. The barbed edge snaps in place, preventing the caps from accidentally being removed. Manufactured of high density black or white UV-resistant polyethylene, these caps are reusable and will keep nuts and bolts corrosion free for years. (APS recommends coating the nuts, studs and bolt heads with APS Kleergel® Corrosion Inhibitor Grease for added protection.)

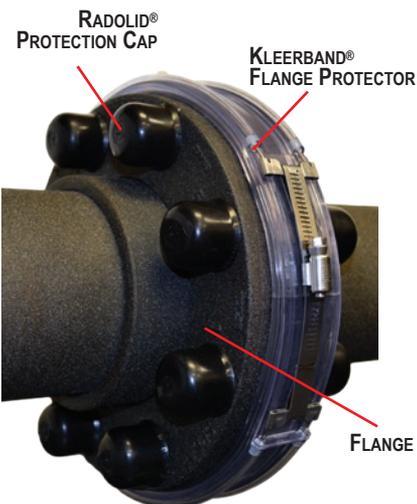


Independent Laboratory Corrosion Test Results Show the Importance of Good Flange and Nut & Bolt Protection

Radolid® Nut Cap Exposure Test



Protects The Entire Flange



Certified copy of test results available on request.

Flange Protection Corrosion Test

Flange assembly #1 was plain and unprotected. Flange #2 was protected with a Kleerband® Flange Protector and Radolid® Nut Caps. Testing consisted of 1000 hours ASTM B 117-18 salt fog exposure. (Actual test result documents available upon request.)

#1 Unprotected Flange



#2 Protected Flange



0-Hours



1000-Hours Disassembled



End result: Flange, nuts and bolts badly corroded making flange seal failure possible and maintenance difficult at best.

End result: Flange, nuts and bolts in good repair with seal integrity safe for years and maintenance able to be achieved with efficiency.

Kleerband® Flange Protectors prevent this type of damage from occurring. Typical cost to replace and repair this 12" ANSI 600# flange full face or RTJ gasket with nuts and bolts is \$1,450.00.



ORDERING INFORMATION:

KLEERBAND® FLANGE PROTECTORS

- Flange size
- ANSI or API

RADOLID PROTECTION CAPS

- Bolt diameter
- Width across flat of nuts
- Special length caps, if required
- Colors other than black

KLEERGEL® CORROSION INHIBITOR GREASE

- 14 oz cartridge
- 35 lb pail



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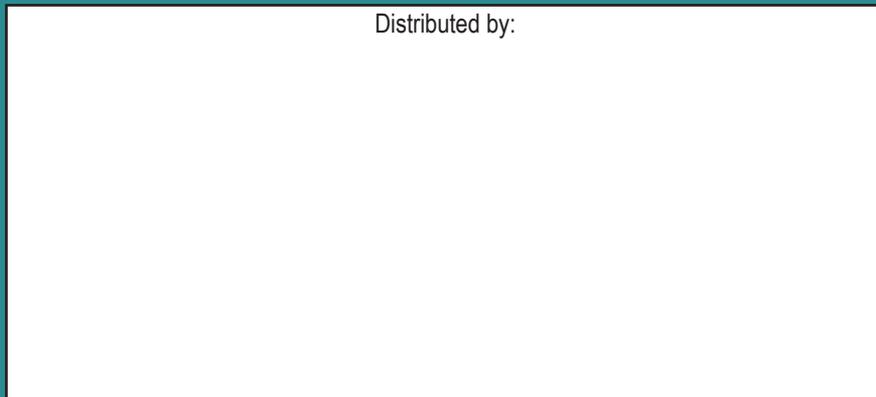
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