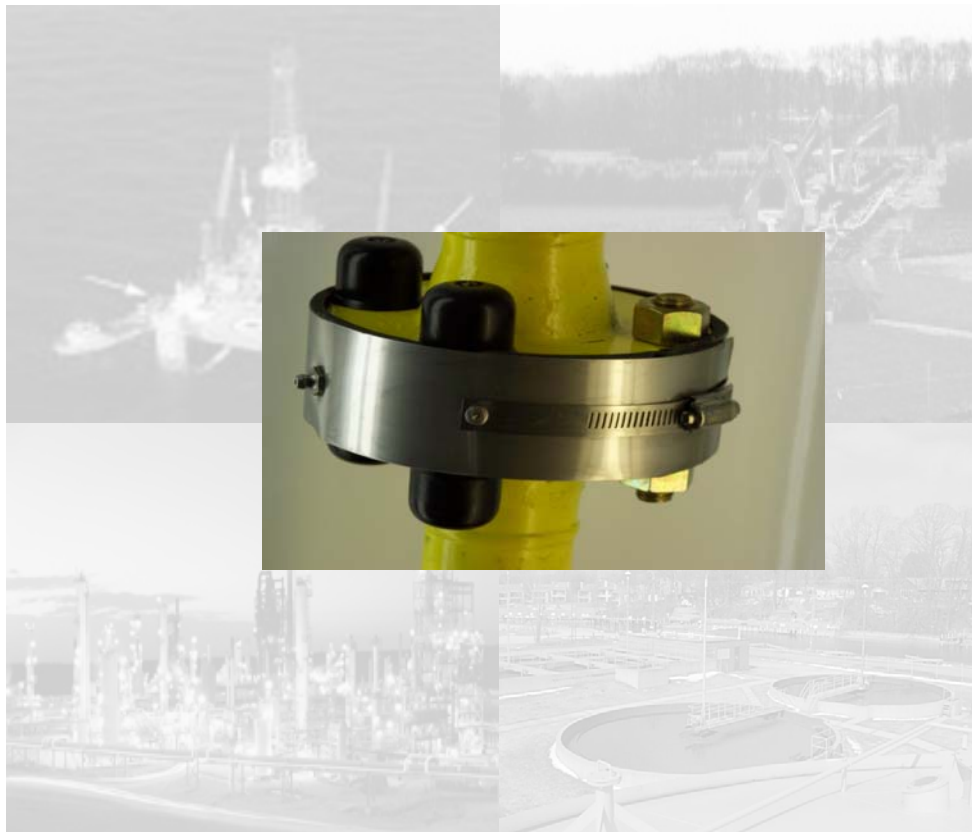


Flange Joint Protection Systems



**Protecting Flanged Connections
From Corrosion In All Industries**

STEP-KO PRODUCTS

Oil & Gas • Pipeline • Water/Wastewater • Industrial

STAINLESS STEEL and Non-Metallic (PLASTIC) FLANGE CONNECTION COVERS

**STOP THIS KIND OF SERIOUS
CORROSION**



**USE THE STEP-KO
FLANGE PROTECTOR SYSTEM**



The Step-Ko Products flange protector covers are used in the protection of flange faces (Raised face or Ring joint type), stud bolts, and gaskets from the elements of corrosion. The Step-Ko flange protector covers are available in 316ss stainless steel as well as Non-Metallic (plastic). Both materials come with the closed cell rubber liner for sealing protection. The Step-Ko protector covers are currently manufactured in sizes for 1/2" to 144" diameter in ANSI, API and AWWA flanged connections. The Step-Ko flange covers systems coupled with the STOPAQ® or E2000/E2400 flange fillers have been used in the protection of flanged connections for many years with much success in harsh conditions.

Flange Cover Construction:

- 316 Stainless Steel Band
OR
- Non-Metallic Band
- 316 ss Injection Fittings
- 316 ss Worm Gear Clamps
- Closed Cell Neoprene Liner
(Temp.—30°F to 180°F)
- ECH Rubber Liner (Temp. —
up to 300°F)
- Safety Relief Valve
available that bleeds at 5 psi



Step-KO Flange Cover Advantages

- **Ease of installation**
- **No special tools required**
- **Easy access to inspect the connection**
- **Durable (Not easily damaged)**
- **UV stable Non-Metallic material**
- **Reusable**

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FLANGE FILLER SYSTEM

FOR TEMPERATURES UP TO 176°F

GENERAL:

FLANGE FILLER is a unique approach in solving corrosion problems in the long run.

FLANGE FILLER is a coating based upon synthetic a-polar polymers. The paste form makes it easy to apply with little preparation. The visco-elastic formulation allows the material to flow into gaps and voids, creating an excellent seal against corrosion.

FLANGE FILLER saves time and money because of the ease of use, giving long term protection.



THE PROPERTIES:

- Excellent bonding to steel, FBE, PU, PE
- High specific electric resistance
- Weather/salt resistant
- Temperatures range from -60° to 176° F
- Fills the complete space
- Removable/Re-usable
- No heavy surface preparation to the flange connection is required prior to application.
- Ease of injection using the manual or pneumatic gun with the flexible nozzle. This gives assurance that the annulus is completely filled prior to sealing with the CZ wrap.

FOR TEMPERATURES UP TO 250°F

E-2400/E2000 High Temperature Flange Filler

The Step-Ko E2400/E2000 high temperature corrosion preventative flange filler is designed to protect flanged connections from corrosion in high temperatures up to 300 degrees Fahrenheit. The E2400/E2000 is a non-electrolytic approach in the way of a gel to corrosion protection of steel flanges, bolts, pipes and structures.



Flange before the test.

E2400 protected flange after 3300 hrs.

Unprotected flange after 3300 hours



The nut/bolt assembly was tested to ASTM-B117 salt spray test for 2000 hours. The area that was protected with the E2000/2400 could still be turned by hand. The E2400/E2000 when properly installed helps protect flange connections from corrosion for easy corrosion prevention.

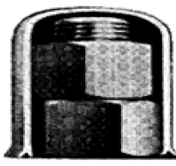
NUT/BOLT PROTECTION COVERS

Step-Ko Products offers polyethylene nut covers to protect the exposed bolt and nut portion of the flange connection from the elements that cause corrosion. These covers are designed to fit tight against the nut therefore protecting from costly repairs or replacements from having to cut stud bolts off. These caps have been used from the protection of bridge and tunnel bolt-ing, to the harsh environments of offshore platforms and refinery/chemical plant applications. By choosing to protect steel stud bolts and nuts early, the nut protector will help in costly bolt replacements in the future. This is preventative maintenance at its best!

MODEL 1 & 2 SELF LOCKING CAP

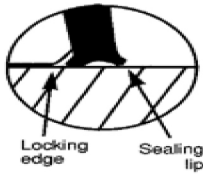


Model 1
For threaded connections without washer.



Model 1 or 2
In different heights for larger bolt ends or locking nuts.

Locking cap type SW with locking edge and sealing lip



MODEL "S" THREAD ON CAP



Ordering Information:

Flange Protector Covers:

Flange Size

Stainless Steel or Non Metallic (if ordering band)

ANSI or API Pressure Class

With Relief Valve or Vent Plug

Bolt/Nut Covers:

Stud Bolt Size

If special size heights are needed

OTHER PRODUCTS:

- HEAT SHRINK SLEEVES
- FLANGE INSULATION GASKET KITS
- SPECIALTY PIPE WRAP TAPES
- DLS POLYSPLIT CASING
- INSUALTED BUILDINGS AND ENCLOSURES
- PIPELINE MARKERS & TEST STATIONS

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