

**RAMCO® ENFORCER G-10T (PTFE TEFLON) ISOLATION KIT**  
**PRODUCT SPECIFICATION**  
**EG10TDWG10G10**

The RAMCO® ENFORCER Flange Isolation Kit is fabricated to be used with piping flanges to provide cathodic protection & galvanic corrosion protection of the flanges. The Flange Isolation Kits (FIK) come standard with one Isolating Gasket w/sealing element, one Isolation sleeve/bolt hole, two Isolation washers/bolt hole, & two backing washers/bolt hole. The ENFORCER KITS are provided with a sealing element integrated into the gasket to ensure effective sealing integrity between the flanges.

**MATERIALS OF CONSTRUCTION:**

BASE RETAINER COLOR	G10/FR4 – PALE GREEN
SEALING ELEMENT COLOR	PTFE/TEFLON – WHITE
SLEEVE COLOR	G10 – PALE GREEN
ISOLATION WASHERS COLOR	G10/FR4 – PALE GREEN
BACKING WASHERS COLOR	ZPS – GRAY/SILVER



**SIZES AVAILABLE:**

- FULL FACE (TYPE “E”)
- RAISED FACE (TYPE “F”)
- NPS: ½” – 144”
- 150#, 300#, 600#, 900#, 1500#, 2500#

**STANDARDS:**      ANSI B16.5      AWWA C207      ASME B16.47      API 6A  
 \*\*\*OTHER INTERNATIONAL STANDARD SIZES OR CUSTOM MANUFACTURING AVAILABLE – PLEASE CONTACT FACTORY\*\*\*

<b>TEMPERATURE RATING:</b>	MIN TEMP F°	MAX TEMP F°	MIN TEMP C°	MAX TEMP C°
	-15°	280°	-26°	138°

**GASKET DESIGN CONSIDERATIONS:**

ASTM		
D149	DIELECTRIC STRENGTH – VOLTS/MIL	500 V/MIL
D695	COMPRESSIVE STRENGTH – PSI	50,000 PSI
D229	WATER ABSORPTION - %	0.1
D257	INSULATING RESISTANCE – Meg Ohms	200,000
D790	FLEXURAL STRENGTH – PSI	60,000
D785	HARDNESS ROCKWELL “M”	115
D256	IZOD IMPACT, STRENGTH FT-LBS/IN	14
D732	SHEAR STRENGTH - PSI	22,000

**TEFLON SEALING ELEMENT:**

The PTFE/Teflon Sealing Element is manufactured from .093” thick virgin PTFE/Teflon & is designed to compress & seal the piping connection once installed & bolts are properly torqued.

## ISOLATION SLEEVE:

The Isolation Sleeve is designed to fit over the bolt diameter & through the flange bolt holes inner diameter. The sleeve extends through both flanges & centers on the isolation washer thickness. Isolation Sleeves have a standard wall thickness of .03125" (.79mm), diameter & length of the isolation sleeve is determined by each application.

## G10 DESIGN CONSIDERATIONS:

Same as gasket retainer material

## ISOLATION WASHERS:

Isolation washers are designed to install over the outer diameter of the Isolation sleeve & sit flush against the flange. Isolation washers are a standard thickness of .125" (3mm)

## G10 DESIGN CONSIDERATIONS:

Same as gasket retainer material

## BACKING WASHERS:

Backing washers are designed to install over the bolt diameter & flush against the Isolation Washer. Standard material for the backing washer is Zinc Plated Steel (ZPS). Backing washers are a standard thickness of .125" (3mm).

\*\*\*304ss, 316ss, & PTFE coated is available upon request\*\*\*

