

Commander Extreme Isolation Kit

PRODUCT

Commander Extreme Isolation Kit

PRODUCT USAGE

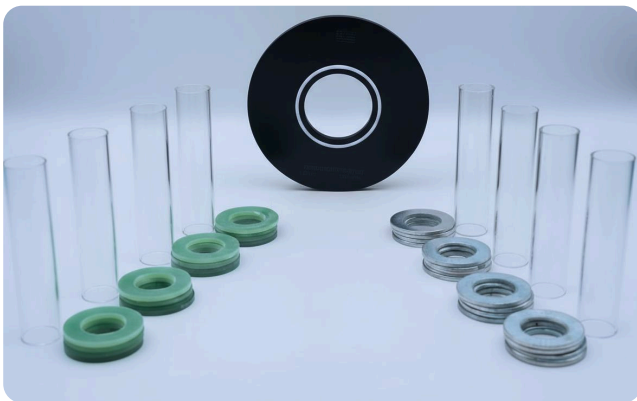
Complete Sealing And Isolation Performance

ADNOC Approved | Compliant Shell MESC 85/201

Commander Extreme Isolation Kit is a tested and field proven system available in a range of materials for every service. Extreme Gaskets provide protection from galvanic corrosion and safely operate in sour conditions. Designed and proven in the most extreme services or any other alloys.

GASKET

The carrier provides isolation of the two flanges and is produced from NEMA LI-1 GRE G10 bonded to a stainless steel 316L core which delivers huge strength and rigidity. Optional materials are NEMA LI-1 GRE G11 for the laminate and various grades of stainless steel, duplex steel and Nickel alloys. Precision machined grooves are cut through the laminate and into the steel core toward the ID of the carrier to carry the seals. High integrity spring loaded PTFE seals are locked into the grooves. The seals are pressure energised creating ever tighter seals as pressures increases. The spring ensures that the seal is always open. Elastomer O Ring can also be fitted to equal effect.



Product Information

Carrier Thickness

6.4mm-3.2MM

Steel Core With 1.5mm Laminate
(Other Thicknesses Available To Special Order)

Maximum Temperature

NEMA LI-1 GRE G10 150°C

With PTFE Or Viton Seals | Standard

NEMA LI-1 GRE G10 200°C

With PTFE Or Viton Seals

Maximum Rating

Class API 15,000

Maximum Diameter

2000 MM

Minimum Temperature

-150°C

(GRE G10 Laminate)

Seal Options

PTFE

Spring Energised Options Of Stainless Steel (Standard) Elgiloy Or Nickel Alloy

O Rings

Nitrile, EPDM, Kalrez And FKM Material Options.

Flange Standards

ASME B16.47

AFNOR

DIN

ANSI B16.5

AWWA

JIS

BS1560

BS10

Flange Type

Raised Face

Flat Face

Ring Joint

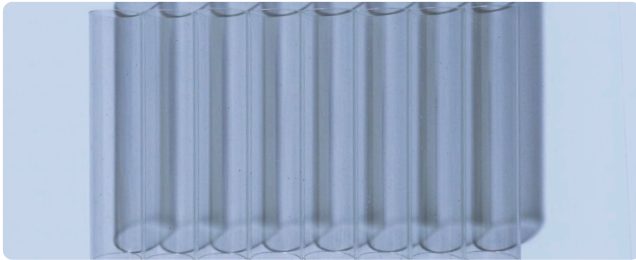
Commander SE gaskets can connect RF flanges to RJ flanges

Commander SE is an ideal replacement for ring type joints where the RJ groove is damaged or isolation is required. Extreme gaskets seal inboard of the RJ groove and require much lower bolt stress. The risk of flange rotation is also much reduced.

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ISOLATION SLEEVES

Isolate the stud bolts from the flanges. material selection is determined by the service temperature and choice of carrier and seals.



Product Information

Wall Thickness
0.75 MM

Mylar

Minimum Temperature
-54°C

Maximum Temperature
+150°C

GRE G10

Minimum Temperature
-150°C

Maximum Temperature
+150°C

GRE G11

Minimum Temperature
-73°C

Maximum Temperature
+200°C

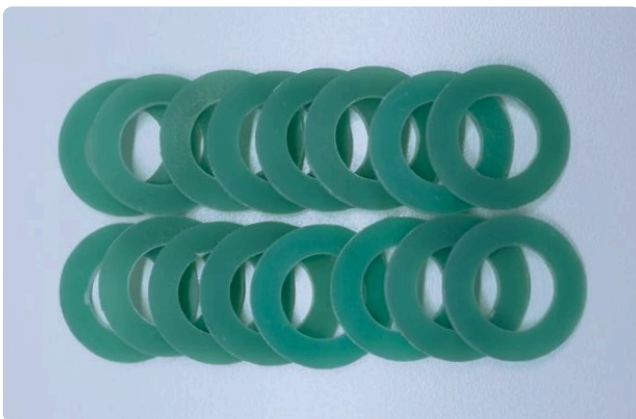
Nomex

Minimum Temperature
-150°C

Maximum Temperature
+210°C

ISOLATION WASHERS

Isolate the nut from the flanges and operate with the isolation sleeve. Key properties are compressive strength to resist stud tightening and dielectric strength. Material selection is determined by temperature.



Product Information

Wall Thickness
3.2 MM

Coated Steel

Minimum Temperature
-100°C

Compressive Strength
65,000 PSI

GRE G10

Minimum Temperature
-150°C

Maximum Temperature
+150°C

Compressive Strength
65,000 PSI

GRE G11

Minimum Temperature
-73°C

Maximum Temperature
+200°C

Compressive Strength
63,000 PSI

Commander Extreme Isolation Kit

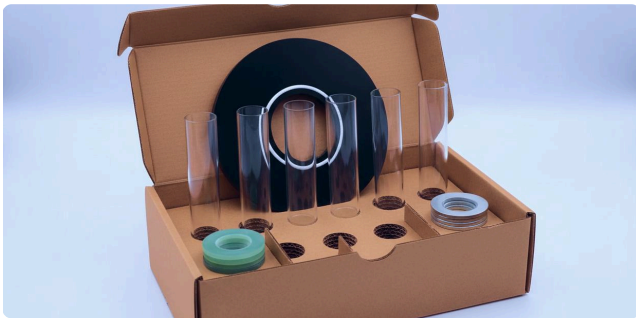
BACKUP WASHERS

Sit between the nut face and the isolating washer. their function is to protect the isolating washers from the torque effect of the nut and to ensure an even transfer of force.



KIT CONTENTS

Each kit contains everything necessary to isolate a standard flange.



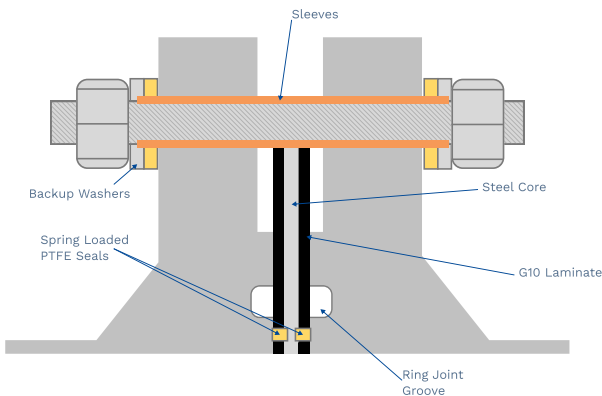
Product Information

Isolating & Sealing Gasket
1 Per Kit

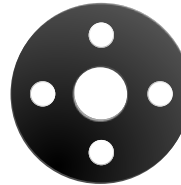
Isolating Sleeves
1 Per Bolt

Isolating Washers
2 Per Bolt

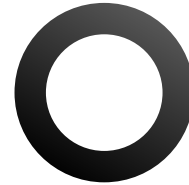
Backup Washers
2 Per Bolt



Type E



Type F



Recommended Flange Surface
3.2 - 6.3 Ra

Formats Available

Type E

Carrier Extends Across The Face Of Flange Including Bolt Holes

Type F

Carrier Extends To The Inside Of The Bolt Circle

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APPROVED BY

