

Commander SE Isolation Kit

PRODUCT

Commander SE Isolation Kit

PRODUCT USAGE

Sealing & Isolation Performance

ADNOC Approved | Compliant Shell MESC 85/201

Commander SE isolation kit is a tested and field proven system available in a range of materials for every service. SE gaskets provide protection from galvanic corrosion and safely operate in sour conditions.

GASKET

The carrier provides isolation of the two flanges and is produced from NEMA LI-1 GRE G10 or NEMA LI-1 GRE G11 as standard. Precision machined grooves are located toward the ID of the carrier which 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 increase. The spring ensures that the seal is always open. Elastomer O rings can also be specified. Phenolic carrier can be specified with nitrile “O” rings for a performance greatly exceeding that of a standard nitrile faced phenolic gasket.



Product Information

Carrier Thickness
3.2 MM
Other Thicknesses Available To Special Order

Maximum Rating
Class 600

Minimum Temperature
-150°C
GRE G10 Carrier & PTFE Seals

Maximum Diameter
2500 MM

Note
Commander SE Gaskets Can Connect RF Flanges To RJ Flanges.

Seal Options

PTFE

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

O Rings

Nitrile, EPDM, Kalrez And FKM Material Options

Maximum Temperature By Carrier

150°C

NEMA LI-1 GRE G10(With PTFE Or Viton Seals) (Standard)

200°C

NEMA LI-1 GRE G10/ GRE G11 (With PTFE Or Viton Seals)

100°C

Phenolic

Potable Water Service

Commander SE Is Recommended For Potable Water (Drinking Water) Applications. A Special GRE G10/ Gre 11 Carrier Is Paired With WRAS Approved EPDM O Ring Seals.

Flange Standards

ASME B16.47	AFNOR	DIN
ANSI B16.5	AWWA	JIS
BS1560	BS10	

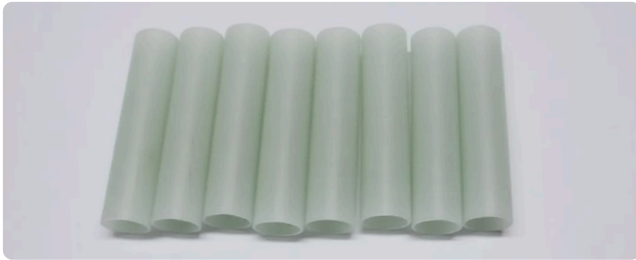
Suitable For Flange Type

**Raised Face
Flat Face
Ring Joint**

Commander SE Isolation Kit

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

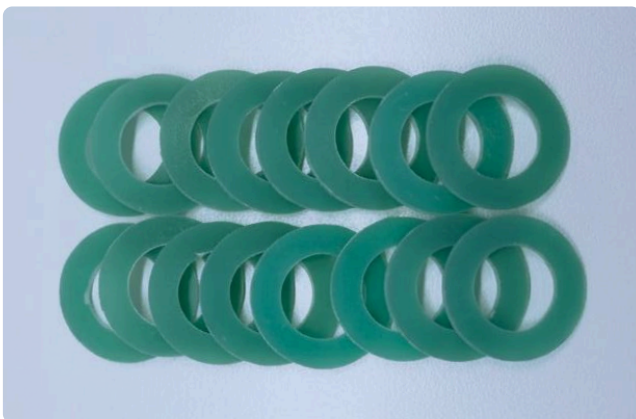
Nomex

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
0.75 MM

Coated Steel

Minimum Temperature
-100°C

Maximum Temperature
+200°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

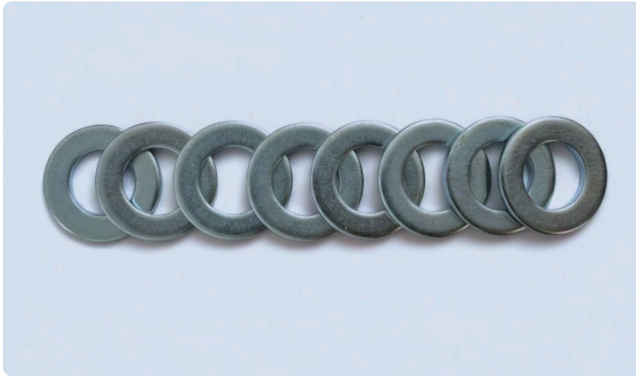
Maximum Temperature
+200°C

Compressive Strength
63,000 PSI

Commander SE 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.



Product Information

Zinc Plated Steel

Thickness	Types (Other Material Available Upon Request)	
3.2 MM	SS304	Alloy 625
	SS316	Alloy 825
	Duplex	Super Duplex

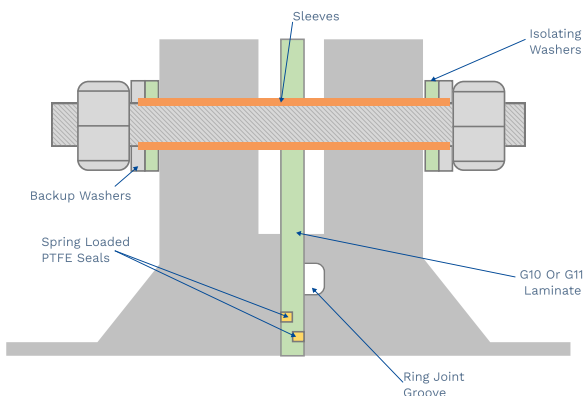
KIT CONTENTS

Each kit contains everything necessary to isolate a standard flange.

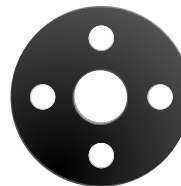


Product Information

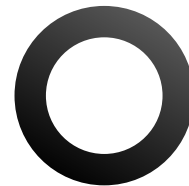
Isolating & Sealing Gasket	Isolating Sleeves	Isolating Washers
1 Per Kit	1 Per Bolt	2 Per Bolt
Backup Washers		
2 Per Bolt		



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



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