

ISOLATION PRODUCTS

Bringing **innovation** to cathodic protection.



www.flexitallic.com

INTRODUCING: ISOFLEX[™] & ISOPRO



Comprehensive product range that addresses both industry and customer-specific requirements.



From economical options to best-in-class proprietary offerings and everything in between.



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Addressing *age-old methods* that focus on *"gasket-to-flange"* contact surfaces and asking, *"Why not in between"?*



Boxed kit availability, including: gaskets, isolating sleeves & washers, metal backup washers.



World-Class Application Engineering Support Available via: phone, email & live chat.

Professional Grade training, workshops and seminars, which are centered on *"Best Practices"* approach to installation / bolt-up procedures. Sessions range from 2 - 6 hours, but are completely customizable to fit your specific needs.



GOOD, BETTER, BEST-IN-CLASS.

ISOFLEX[™]

- Exceeds the current market sealing performance.
- Flexitallic's proprietary and patented designs that incorporate proven technology and proprietary materials.
- A product platform consisting of two best-in-class designs and will evolve over time.

ISOPRO

- Equals performance of products that are currently available within the market.
- Meets difficult-to-change and long-standing written specifications.
- For use in non-critical service and low(er) temperature applications.



COMMON INDUSTRY PITFALLS

- Sole emphasis on the isolating properties at the expense of overall sealability.
- Emphasis exclusively on dielectric strength rather than resistance under compression representative of bolted connection.
- Several high-end designs rely on narrow line seals which are more vulnerable to surface imperfections.
- Positioning of the narrow line seal is towards the inner diameter (ID) of the flange which is not ideal.

- Consequences of metal protrusion on isolating properties, as seen in spring energized seals.
- Creep relaxation of soft sealing components like elastomers and PTFE.
- Reliance (upon compression) on the non-metallic GRE for compressive & mechanical strength can lead to long term problems & failure.
- Possible drawbacks of glass reinforced epoxy (GRE), such as permeation, chemical attack, strength and creep.
- Sleeve length not specific to washers, flanges and gasket thickness combination.

ISOFLEX[™] - FS BEST OF SEALING. BEST OF ISOLATION.

ISOFLEX[™]-FS is a fire safe isolation gasket that is ideal for high pressure & critical service applications utilizing:

- Dual serrated metallic cores (Flexpro®) halves
- Faced with Corriculite[®], a fire safe nonconductive sealing material
- Separated by polyimide isolating film. Dielectric Strength of 3000 V/mil
- Complete with NEMA grade glass reinforced epoxy (GRE) inner and outer rings
- ISOFLEX[™]-FS is API 6FB Fire Safe. One gasket satisfies both general & fire safe services.

THE ISOFLEXTM- FS DESIGN IS AIMED AT ELIMINATING THE CONCERNS AND PITFALLS OF EXISTING MARKET OFFERINGS.



A CLOSER LOOK AT ISOFLEXTM - FS

Seal location is engineered to ideally position the sealing area more closely to the fasteners.

INNER RING: •-----NEMA GRADE GRE

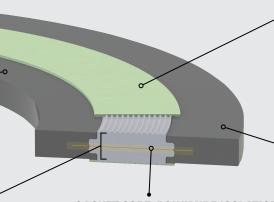
GRE components are auxiliary and are not part of primary seal.

Sealing is exclusively accomplished by faced serrations & polyimide isolation barrier.

DUAL Flexpro® SEAL DESIGN • (304SS KAMMPROFILE).

4X Wider Seal with Flexpro® than Spring Energized Seals. Less susceptible to localized flange damage.

Compressive load rests on the Flexpro® (Kammprofile) to affect excellent tightness.



GASKET CORE: POLYIMIDE ISOLATION BARRIER

Excellent electrical resistance. Boasts a strong combination of thermal, chemical and mechanical properties.

Dielectric Strength (ASTM D149): 3000 V/mil.

Facings & Polyimide Isolating Barrier extend beyond the metal acting as a protective shield.

, CORRICULITE® FACINGS

Prevents the onset of galvanic corrosion and provides gas tight sealing performance with wide range of fluid compatibility.

- API 6FB Fire Safe.
- Inherently non-conductive.

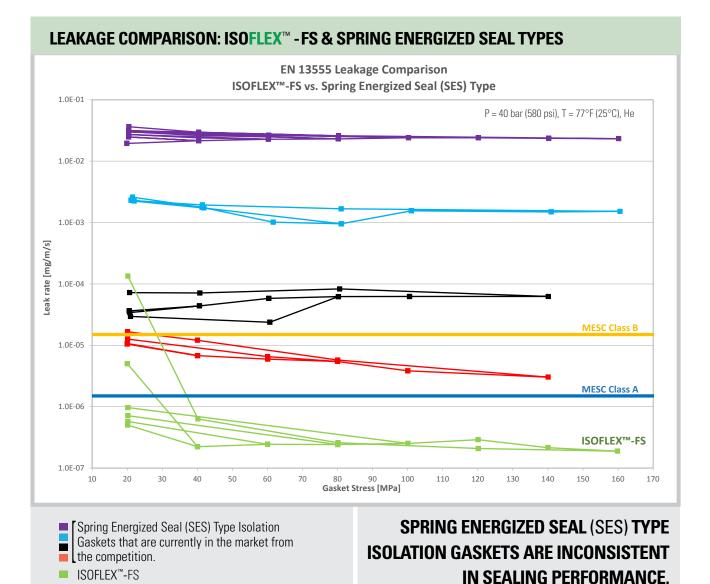
OUTER RING: NEMA GRADE GRE

GRE components are auxiliary and are not part of primary seal.

Sealing is exclusively accomplished by faced serrations & polyimide isolation barrier.



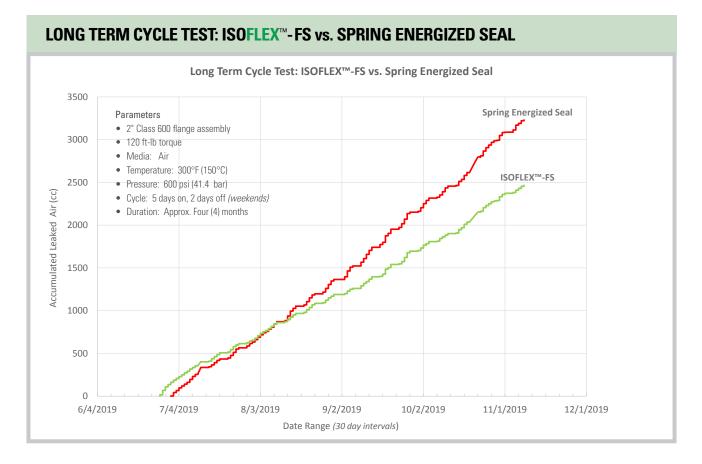
ISOFLEX[™] - FS



POLYIMIDE FILM TYPICAL PROPERTIES

Properties	Test Standard	Typical Value	Unit
Dielectric Strength	ASTM D149	3000	V/mil
Volume Resistivity	ASTM D257	1.0 x 10 ¹⁵	Ohm cm
Tensile Strength	ASTM D882	24	ksi

CORRICULITE®-FACED FLEXPRO® OUTPERFORMS THE SPRING ENERGIZED SEAL IN CYCLING APPLICATIONS





Post Test Observations

- With the Spring Energized Seal Type Load rests on GRE surface and is not concentrated on the SES
- Both load & heat cause the GRE to creep into the flange bore
- ISOFLEX[™]-FS has no issues as zero load rests on GRE
- Also corroborated by EN13555 Pqr testing (0.99 @ 150°C).



ISOFLEX[™] - FS BEST OF SEALING. BEST OF ISOLATION.

ELECTRICAL RESISTANCE TESTING – UNDER COMPRESSIVE LOAD

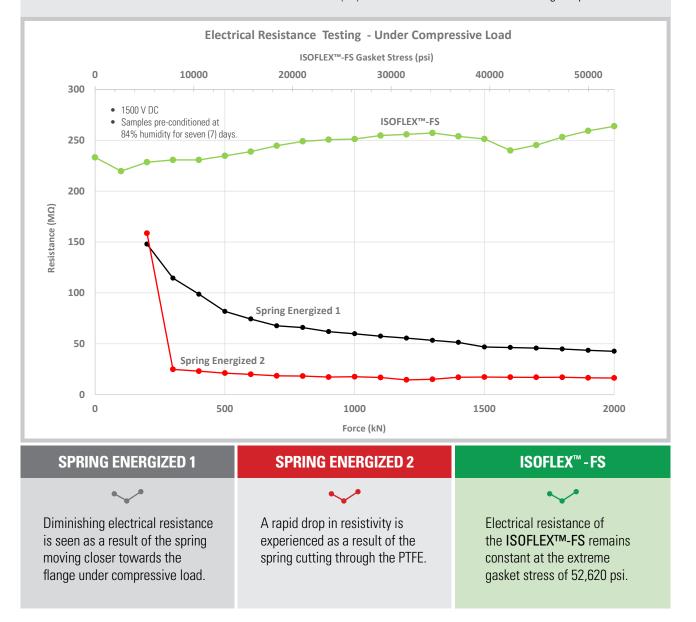


Testing performed at the elevated humidity level of 84%.

Increased relative humidity can lead to more moisture being present. Moisture reduces electrical resistance & isolation properties.



Achieving a high level of electrical resistance with high humidity is a significant result, even more so while under increasing compressive load.



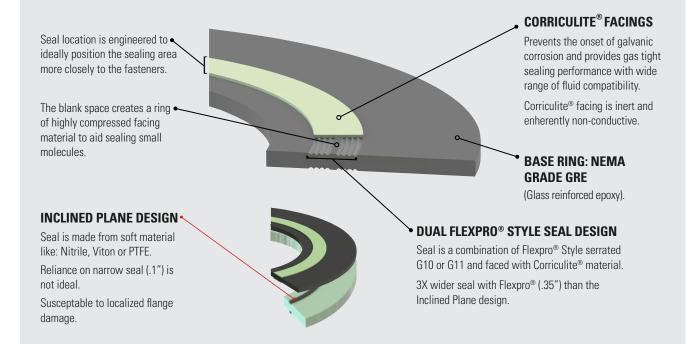
ISOFLEX[™] - LT

THE ISOFLEX^{M-} LT DESIGN IS LESS SUSCEPTABLE TO LOCALIZED FLANGE DAMAGE.

- Base ring is made with NEMA Grade glass reinforced epoxy (GRE).
- Seal design based on trusted Flexpro[®] (*Kammprofile*) style serrations in the GRE base ring.
- Faced with Corriculite[®], to provide a reliable seal.
- The combination of the seal design and Corriculite[®] creates a ring of highly compressed facing material to aid in sealing small molecules.



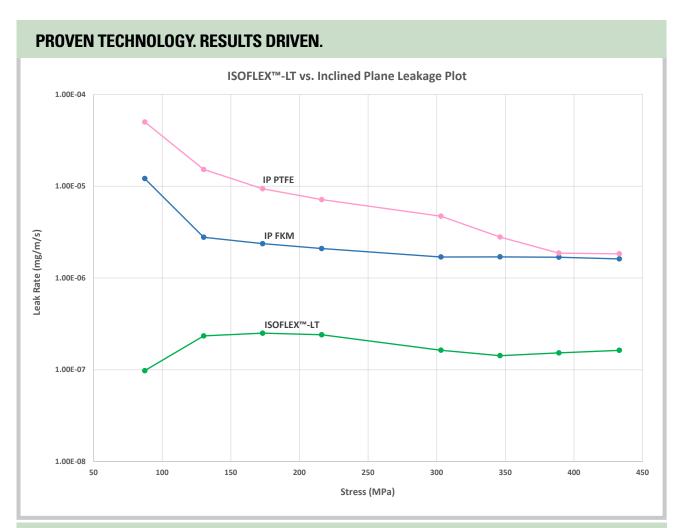
A CLOSER LOOK AT ISOFLEXTM - LT







ISOFLEX[™]-LT SEALS BETTER THAN THE INCLINED PLANE STYLE GASKETS.



ARE YOU FLEXITALLIC SAFE?



Interested in having a technical conversation about Flexitallic's ISOFLEX™ or ISOPRO Products?

Our team of World-Class Application Engineers are available to answer any of your technical questions via: phone, email or live chat.



Phone: +1 281.604.2400

Email: dpengineering@flexitallic.com

Live Chat: https://www.flexitallic.com/us/

ISOPRO-IP

ISOPRO-IP IS A FLANGE ISOLATION GASKET UTILIZING NEMA GRADE GLASS REINFORCED EPOXY (GRE) THAT IS MACHINE-GROOVED WITH A RECESS AND INCLINED PLANE IN WHICH CONTAINS A SOFT SEALING ELEMENT.

- A better alternative to neoprene or nitrile faced phenolic. Available in G10 or G11.
- The engineered groove geometry enables the internal pressure to energize the sealing element.
- Ideal for low to medium pressure classes and general service use.
- Choice of sealing elements available: Nitrile, Viton, or PTFE.



ISOPRO-NFP IS A FLANGE ISOLATION GASKET MADE WITH A PHENOLIC CORE AND NITRILE FACINGS.

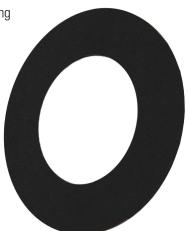
- A good alternative to neoprene based material, the ISOPRO-NFP isolation gasket offers a more broad temperature range.
- Available as a cut ring (Style F) or full face (Style E).
- Gasket OD is sized to the bolt hole's edge to allow adequate room for the sleeves.



ISOPRO - NEO

ISOPRO-NEO IS A NEOPRENE BASED SHEET SEALING MATERIAL.

- An economical gasket option in applications or services where temperature and pressure are non-demanding.
- Available as a cut ring (Style F) or full face Style E).
- Gasket OD is sized to the bolt hole's edge to allow adequate room for the sleeves.



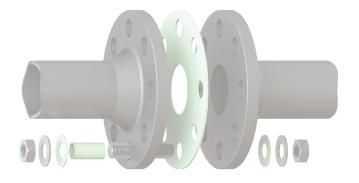


KIT COMPONENTS

FULL KIT AVAILABILITY, INCLUDING:

- ISOLATING SLEEVES & WASHERS
- METALLIC BACK-UP WASHERS
- NON-CONDUCTIVE ANTI-SEIZE





ISOLATING SLEEVES AND WASHERS

Isolating Sleeves - Typical Temperature Limits

	Mylar	Nylon	Phenolic	PTFE	G10	G11
Max Temp °F (°C)	302 (150)	150 (65)	250 (121)	500 (260)	302 (150)	392 (200)
Min Temp °F (°C)	-94 (-70)	-20 (-29)	-65 (-54)	-400 (-240)	-200 (-129)	-200 (-129)

Note: Sleeves are cut to length accounting for double washer (DW) or single washer (SW) use, flange thickness including raised face height, and gasket thickness.

Isolating Washers - Typical Temperature Limits			
Phenolic	G10	G11	Mica Faced CS Flexpro®**
250 (121)	302 (150)	392 (200)	1000 (538)
-65 (-54)	-200 (-129)	-200 (-129)	-58 (-50)
	250 (121)	250 (121) 302 (150)	250 (121) 302 (150) 392 (200)

Note: Standard metallic washer offering is Zinc Plated Carbon Steel. Stainless Steel available upon request. ** Provided when Fire Safety is required.

WHAT IS CORRICULITE®? THE NEW STANDARD FOR SEALING SOLUTIONS IN CORROSIVE ENVIRONMENTS

THE BENEFITS OF CORRICULITE® ARE CLEAR			
FIRE SAFE - PASSES API 6FB FIRE TEST	PROVIDES GAS TIGHT SEALING PERFORMANCE	WIDE RANGE OF CHEMICAL COMPATIBILITY	
MATERIAL IS INERT AND INHERENTLY NON CONDUCTIVE	PREVENTS THE ONSET OF GALVANIC CORROSION	NOT SUSCEPTIBLE TO COLD FLOW LIKE PTFE OR ELASTOMERS	
TEMPERATURE RANGE -49°F (-45°C) TO +440°F (225°C)	SEALS TIGHTER THAN GRAPHITE	COST EFFECTIVE, FLANGE CORROSION PROTECTION	

S flooritallic.

Responding to customer demands for an improved material with strong anti-corrosion characteristics.

Flexitallic created Corriculite[®] - a filler material for spiral wounds and facing for Isolation gaskets.

Corriculite[®] was specifically designed for use in corrosion-sensitive environments, such as seawater and hydrocarbon services.

To date, our proprietary material is widely utilized across a number of industries, including oil and gas, power and marine.



A WINNING COMBINATION OF OPTIMUM SEALING AND ANTI-CORROSION PROPERTIES.

A PROVEN SOLUTION

A number of benchmark tests have been carried out to validate the performance of Corriculite® as sealing material in corrosion sensitive conditions.

For more information visit: Corriculite.com



An example of corrosion caused by use of conventional graphite gaskets.



Joints in hydrocarbon and seawater services are vulnerable to gasket degradation and flange face corrosion, which results in increased costs, lost production as well as safety and environmental concerns, unscheduled downtime and reduced asset availablity.



ISOLATION OFFERING CHART

Image: section of the sectin of the section of the section of the section of the		ISOPRO		
GASKET OVERVIEW Neoprene cut gasket Nitrile faced phenolic cut gasket "Inclined Plane" type - Glass Reinforced Epoxy (GRE) with machined recess & soft sealing element. PRIMARY ISOLATION Neoprene (polychloroprene) material Phenolic Core with nitrile facings NEMA Grade GRE (glass-reinforced epoxy) G10 or G11 PRIMARY SEALING N/A Nitrile No additonal facing 1/8" (0125") 1/8" (0125") 1/8" (0125") 1/8" (0125") THEMPERATURE RANGE 20"F (-29°C) to 170°F (77°C) -65"F (-54°C) to 250"F (121°C) Refer to datasheet. OLOR Black Black Green Green CERTIFICATION SLEEVE MATERIALS Mylar, Nylon, Phenolic, PTFE, G10 or G11 Mylar, Nylon, Phenolic, PTFE, G10 or G11 Mylar, Nylon, Phenolic, PTFE, G10 or G11 ISOLATION NUASHER MATERIALS Phenolic, G10 or G11 Mylar, Nylon, Phenolic, G10 or G11 Phenolic, G10 or G11 ISOLATION WASHER MATERIALS Phenolic, G10 or G11 Phenolic, G10 or G11 Phenolic, G10 or G11 METALLIC WASHER MATERIALS Phenolic, G10 or G11 Phenolic, G10 or G11 Phenolic, G10 or G11 METALLIC WASHER MATERIALS Phenolic, G10 or G11 Phenolic, G10 or G11 Phenolic, G10 or G11 METALLIC WASHER MATERIALS Phenolic, G10 or G11				
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material epoxy) G10 or G11 PRIMARY SEALING Nide Ntrile FACING MATERIAL(S) N/A Nitrile No additonal facing FACING MATERIAL(S) 1/8" (0125") 1/8" (0125") 1/8" (0125") THICKNESS (in.) 1/8" (0125") 1/8" (0125") 1/8" (0125") TEMPERATURE RANGE 20°F (-29°C) to 170°F (77°C) -65°F (-54°C) to 250°F (121°C) Refer to datasheet. PRESSURE CLASS RANGE Class 150 to 300 Class 150 to 300 Class 150 to 300 Class 150 to 900 CERTIFICATIONS & APPROVALS Black Black Green Green SOLATION SLEEVE MATERIALS Mylar, Nylon, Phenolic, PTFE, G10 or G11 Mylar, Nylon, Phenolic, PTFE, G10 or G11 Mylar, Nylon, Phenolic, PTFE, G10 or G11 S11 ISOLATION SLEEVE MATERIALS Phenolic, G10 or G11 Phenolic, G10 or G11 Mylar, Nylon, Phenolic, PTFE, G10 or G11 Mylar, Nylon, G11 G11 ISOLATION WASHER MATERIAL Inc Plated Carbon Steel Inc Plated Carbon Steel Inc Plated Carbon Steel METALLIC WASHER MATERIAL Inc Plated Carbon Steel Inc Plated Carbon Steel Inc Plated Carbon Steel STYLE TYPE Style "F" (Ring) or Style "E" (Full Face Inc Plated Carbon	GASKET OVERVIEW	Neoprene cut gasket	Nitrile faced phenolic cut gasket	Epoxy (GRE) with machined recess &
Image: constraint of the second state of the secon	PRIMARY ISOLATION		Phenolic Core with nitrile facings	
THICKNESS (in.)1/8" (0125")1/8" (0125")1/8" (0125")TEMPERATURE RANGE-20°F (-29°C) to 170°F (77°C)-65°F (-54°C) to 250°F (121°C) <i>Refer to datasheet.</i> PRESSURE CLASS RANGEClass 150 to 300Class 150 to 300Class 150 to 300Class 150 to 900COLORBlackBlackGreenKIT OVERVIEWISOLATION SLEEVE MATERIALSMylar, Nylon, Phenolic, PTFE, G10 or G11Mylar, Nylon, Phenolic, PTFE, G10 or G11Mylar, Nylon, Phenolic, G10 or G11Mylar, Nylon, Phenolic, G10 or G11ISOLATION WASHER MATERIALPhenolic, G10 or G11Phenolic, G10 or G11Phenolic, G10 or G11Phenolic, G10 or G11METALLIC WASHER MATERIALZinc Plated Carbon SteelZinc Plated Carbon SteelZinc Plated Carbon SteelFUE STYLE TYPEStyle "F" (Ring) or Style "E" (Full Face)Pipe Schedule (Gasket ID matches bore). When not supplied, standard schedule is assumed.Pipe Schedule (Gasket ID matches bore). When not supplied, standard schedule is assumed.Style "F" (Sing) or Single Washer (SW).	PRIMARY SEALING			Nitrile, Viton, PTFE
TEMPERATURE RANGE -20°F (-29°C) to 170°F (77°C) -65°F (-54°C) to 250°F (121°C) Refer to datasheet. PRESSURE CLASS RANGE Class 150 to 300 Class 150 to 300 Class 150 to 900 COLOR Black Black Green CERTIFICATIONS & APPROVALS V V V VENTOVERVIEW V V V V ISOLATION SLEEVE MATERIALS Mylar, Nylon, Phenolic, PTFE, G10 or G11 Mylar, Nylon, Phenolic, PTFE, G10 or G11 Mylar, Nylon, Phenolic, PTFE, G10 or G11 Mylar, Nylon, Phenolic, G10 or G11 ISOLATION WASHER MATERIALS Mylar, Nylon, Class 120 or G11 Phenolic, G10 or G11 Phenolic, G10 or G11 Phenolic, G10 or G11 METALLIC WASHER MATERIALS Plenolic, G10 or G11 Phenolic, G10 or G11 Phenolic, G10 or G11 Phenolic, G10 or G11 METALLIC WASHER MATERIAL Zinc Plated Carbon Steel Zinc Plated Carbon Steel Zinc Plated Carbon Steel Style "F" (Ring) or Style "E" (Full Face) V V Pipe Schedule (Gasket ID matches bore). When not supplied, standard schedule is assumed. VASHER SPECIFICATION Double Washer (DW) or Single Washer (SW).	FACING MATERIAL(S)	N/A	Nitrile	No additonal facing
Image: Constraint of the second of the se	THICKNESS (in.)	1/8" (.0125")	1/8" (.0125")	1/8" (.0125")
COLOR Black Black Green CERTIFICATIONS & APPROVALS CERTIFICATIONS & APPROVALS CERTIFICATIONS & APPROVALS SOLATION SLEEVE MATERIALS Mylar, Nylon, Phenolic, PTFE, G10 or G11 Mylar, Nylon, Phenolic, PTFE, G10 or G11 Mylar, Nylon, Phenolic, G10 or G11 Mylar, Nylon, G10 or G11 Mylar, G10 or G11 Phenolic, G10 or G11 <	TEMPERATURE RANGE	-20°F (-29°C) to 170°F (77°C)	-65°F (-54°C) to 250°F (121°C)	Refer to datasheet.
CERTIFICATIONS & APPROVALS KIT OVERVIEW ISOLATION SLEEVE MATERIALS Mylar, Nylon, Phenolic, PTFE, G10 or G11 Mylar, Nylon, Phenolic, PTFE, G10 or G11 Mylar, Nylon, Phenolic, PTFE, G10 or G11 ISOLATION WASHER MATERIALS Phenolic, G10 or G11 Phenolic, G10 or G11 Phenolic, G10 or G11 METALLIC WASHER MATERIAL Zinc Plated Carbon Steel Zinc Plated Carbon Steel Zinc Plated Carbon Steel STYLE TYPE Style "F" (Ring) or Style "E" (Full Face) Pipe Schedule (Gasket ID matches bore). When not supplied, standard schedule is assumed. WASHER SPECIFICATION Double Washer (DW) or Single Washer (SW). Double Washer (SW).	PRESSURE CLASS RANGE	Class 150 to 300	Class 150 to 300	Class 150 to 900
KIT OVERVIEW ISOLATION SLEEVE MATERIALS Mylar, Nylon, Phenolic, PTFE, G10 or G11 Mylar, Nylon, Phenolic, PTFE, G10 or G11 Mylar, Nylon, Phenolic, PTFE, G10 or G11 ISOLATION WASHER MATERIALS Phenolic, G10 or G11 Phenolic, G10 or G11 Phenolic, G10 or G11 Phenolic, G10 or G11 METALLIC WASHER MATERIAL Zinc Plated Carbon Steel Zinc Plated Carbon Steel Zinc Plated Carbon Steel Style "F" (Ring) or Style "E" (Full Face) Pipe Schedule (Gasket ID matches bore). When not supplied, standard schedule is assumed. Pipe Schedule (SW).	COLOR	Black	Black	Green
ISOLATION SLEEVE MATERIALS Mylar, Nylon, Phenolic, PTFE, G10 or G11 Mylar, Nylon, Phenolic, PTFE, G10 or G11 Mylar, Nylon, Phenolic, PTFE, G10 or G11 ISOLATION WASHER MATERIALS Phenolic, G10 or G11 Phenolic, G10 or G11 Phenolic, G10 or G11 Phenolic, G10 or G11 METALLIC WASHER MATERIAL Zinc Plated Carbon Steel Zinc Plated Carbon Steel Zinc Plated Carbon Steel Zinc Plated Carbon Steel Style Ff" (Ring) or Style "E" (Full Face) Pipe Schedule (Gasket ID matches bore). When not supplied, standard schedule is assumed. Pipe Schedule (SW).	CERTIFICATIONS & APPROVALS			
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REQUIRED FOR ORDERING STYLE TYPE Style "F" (Ring) or Style "E" (Full Face) PIPE SCHEDULE Pipe Schedule (Gasket ID matches bore). When not supplied, standard schedule is assumed. WASHER SPECIFICATION Double Washer (DW) or Single Washer (SW).	ISOLATION WASHER MATERIALS	Phenolic, G10 or G11	Phenolic, G10 or G11	Phenolic, G10 or G11
STYLE TYPE Style "F" (Ring) or Style "E" (Full Face) PIPE SCHEDULE Pipe Schedule (Gasket ID matches bore). When not supplied, standard schedule is assumed. WASHER SPECIFICATION Double Washer (DW) or Single Washer (SW).	METALLIC WASHER MATERIAL	Zinc Plated Carbon Steel	Zinc Plated Carbon Steel	Zinc Plated Carbon Steel
PIPE SCHEDULE Pipe Schedule (Gasket ID matches bore). When not supplied, standard schedule is assumed. WASHER SPECIFICATION Double Washer (DW) or Single Washer (SW).		REQUIRED FO	OR ORDERING	
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	PIPE SCHEDULE			
	WASHER SPECIFICATION			

14. Flexitallic

ISOF	EEX™	
ISOFLEX [™] -LT	ISOFLEX [™] -FS	
Glass Reinforced Epoxy (GRE) with Flexpro® (kammprofile) serrations and Corriculite® facing	Flexpro® (kammprofile) halves with Corriculite® facing separated by polyimide film. GRE inner and outer rings. Fire Safe design.	
NEMA Grade GRE (glass-reinforced epoxy) G10 or G11	Polyimide film	
Corriculite [®] faced serrations precision-machined for concentrated load. (Alternative facing available upon request.)	Two 304SS Flexpro®s with Corriculite® facing. (Alternative materials available upon request.)	
Corriculite®	Corriculite® or Thermiculite® Facing	
1/8" (.0125")	1/4" (.25")	
Refer to datasheet.	Refer to datasheet.	
Class 150 - 900	Class 150 to 2500	
Black & Green	Black & Green	
	Fire Safety API 6FB • Exceeds MESC SPE 85/300-2017 Fugitive Emissions Class A Requirements	
KIT OV	ERVIEW	
Mylar, Nylon, Phenolic, PTFE, G10 or G11	Mylar, Nylon, Phenolic, PTFE, G10 or G11	
Phenolic, G10 or G11	Fire Safe Applications: Mica faced CS Flexpro® Non-fire Safe Applications: G10 or G11	
Zinc Plated Carbon Steel	Zinc Plated Carbon Steel	
REQUIRED FO	DR ORDERING	
Style "F" (Ring) or Style "E" (Full Face)		
Pipe Schedule (Gasket ID matches bore). When not supplied, standard schedule is assumed.		
Double Washer (DW) or Single Washer (SW). Sleeves are sized to extend thru washers to both hex nuts.		

Flexitallic

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About The Flexitallic Group

The Flexitallic Group is a global leader in specialised sealing solutions and products serving the oil and gas, power generation, chemical and petrochemical industries in emerging and developed markets. Focused on the upstream, downstream and power generation sectors, it has operations in France, the United States, Canada, Mexico, the United Kingdom, Germany, Italy, Belgium, the United Arab Emirates, Thailand and China plus a network of worldwide licensing partners and distributors.

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