TUF-FLEX® The World's FIRST Unitized Gasket

Will Not Impart Taste or Odor! No Cross Flavor Contamination.

Revolutionary Construction Exceptional Purity Superior Performance Extended Up-Time 3A Certified Available in EPDM or FKM Core Animal Derived Ingredient Free





TUF-FLEX[®]

Introducing a Technologically Advanced Sanitary Gasket

Tuf-Flex[®], the revolutionary sanitary gasket from Rubber Fab, is the world's FIRST unitized seal setting new standards for purity, performance and flexibility. Designed to meet critical requirements in pharmaceutical, biotechnology, ultra-pure water, WFI (waterfor-injection) and difficult food and beverage processing, Tuf-Flex[®] outperforms other sanitary hygienic seals and increases uptime by helping eliminate costly process interruptions.

Performance Based on a Revolutionary Composition

A Tuf-Flex[®] sanitary gasket's contact surface is a layer of PTFE grafted to an EPDM or FKM rubber inner core. This totally bonded construction provides an exceptionally pure and incredibly flexible seal.

By grafting the elastomer with a layer of PTFE, Tuf-Flex[®] will behave like an elastomer but will prevent product contamination, service interruptions and clean-up costs associated with traditional elastomer seals.

Product Purity Without Changeout

With standard CIP cleaning, Tuf-Flex® sanitary gaskets will NOT impart taste or odor. Because there's no cross flavor contamination, Tuf-Flex® increases processing uptime by minimizing need for changeout.

High Performance With Exceptional Purity

Because its elastomer core is protected by a unitized layer of PTFE, a Tuf-Flex[®] sanitary gasket will not release elastomer extractables or particulates totally eliminating spalling. The result is an exceptionally maintained sanitary tubing I.D. with no I.D. invasiveness or system contamination.

Achieve Higher Results Under SIP/CIP Conditions

- Uniting the flexibility of an elastomer with the chemical resistance of PTFE
- Superior resistance to cold flow and creep
- Excellent chemical resistance
- Minimal thermal expansion
- Exceptional flexibility

Tuf-Flex[®] Prevents Process Interruptions

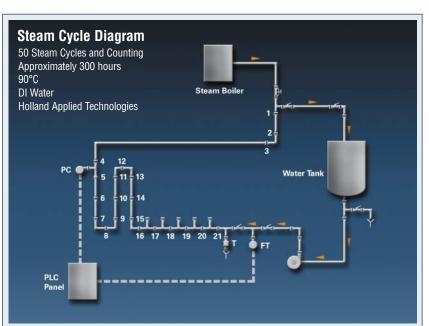
- Perfect cleanability
- No re-torquing
- Up to 500 SIP cycles
 guaranteed
- Outstanding service life
- Leak-proof performance
- Reusable
- Extended uptime
- Maintains seal @ 30 in./lbs.
- Temperature Range: EPDM: -20°F to 300°F FKM: -20°F to 400°F

Tuf-Flex[®] Is Ultra-Pure

- Will not impart taste or odor no cross flavor contamination
- No extractables, TOCs or particulates to contaminate product stream
- No pigment
- No gasket I.D. invasion
- Exceptional cleanability response
- Non-stick surfaces

Tuf-Flex[®] Meets Stringent Standards

- U.S. Pharmacopeia Class VI Certification
- Cytotoxicity Criteria
- Title 21 CFR 177.2600 and 177.1550
- 3-A Certified
- USDA Sanitary Standards
- Current Good Manufacturing
 Practices (CGMP)
- ASME-BPE Standards
- Animal Derived Ingredient Free



TUF-FLEX Sanitary Gasket Life Study

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Product	Material	Durometer Before	Durometer After	I.D. Dia. Before	I.D. Dia. After
TUF-FLEX	PTFE	92	94	1.406	1.39
TUF-FLEX	EPDM	92	95	1.406	1.366

ltem	Unit	Spec.	"A" Type	"В" Туре
Normal Condition Test				
Hardness	HS (JIS A)	80±5	82	77
Tensile Strength	M Fa	9.8 Min.	18.5	16.7
Elongation	%	150 Min.	160	310
Aging Test Hardness Change	POINTS	+5 Max.	+1	+2
· · ·	POINTS %	+5 Max. -15 Max.	+1 -3.2	+2 -7.2
Hardness Change				
Hardness Change Tensile Strength Change	%	-15 Max.	-3.2	-7.2

TUF-FLEX[®] EPDM Core Part Numbers

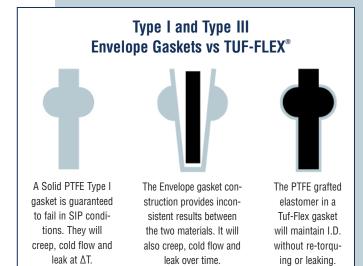
Rubber Fab

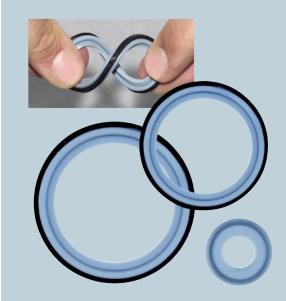
1.5" TUF-FLEX" SANITARY SEAL PARTNO: A40MPGR-TF-1.5-E TYPE: TUF-FLEX" MATERIAL: PTFE/EPDM

1.5

SITE

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SIZE	PART NUMBER	ITEM				
1/2"	A42MPGR-TF-050-E	1/2" Tuf-Flex [®] with EPDM Core				
3/4"	A42MPGR-TF-075-E	3/4" Tuf-Flex [®] with EPDM Core				
1"	A40MPGR-TF-100-E	1" Tuf-Flex [®] with EPDM Core				
1-1/2"	A40MPGR-TF-150-E	1-1/2" Tuf-Flex [®] with EPDM Core				
2"	A40MPGR-TF-200-E	2" Tuf-Flex [®] with EPDM Core				
2-1/2"	A40MPGR-TF-250-E	2-1/2" Tuf-Flex [®] with EPDM Core				
3"	A40MPGR-TF-300-E	3" Tuf-Flex [®] with EPDM Core				
4"	A40MPGR-TF-400-E	4" Tuf-Flex [®] with EPDM Core				
6"	A40MPGR-TF-600-E	6" Tuf-Flex [®] with EPDM Core				
8"	A40MPGR-TF-800-E	8" Tuf-Flex [®] with EPDM Core				
10"	A40MPGR-TF-1000-E	10" Tuf-Flex [®] with EPDM Core				
12"	A40MPGR-TF-1200-E	12" Tuf-Flex [®] with EPDM Core				





TUF-FLEX[®] FKM Core Part Numbers

SIZE	PART NUMBER	ITEM				
1/2"	A42MPGR-TF-050-V	1/2" Tuf-Flex [®] with FKM Core				
3/4"	A42MPGR-TF-075-V	3/4" Tuf-Flex [®] with FKM Core				
1"	A40MPGR-TF-100-V	1" Tuf-Flex [®] with FKM Core				
1-1/2"	A40MPGR-TF-150-V	1-1/2" Tuf-Flex [®] with FKM Core				
2"	A40MPGR-TF-200-V	2" Tuf-Flex [®] with FKM Core				
2-1/2"	A40MPGR-TF-250-V	2-1/2" Tuf-Flex [®] with FKM Core				
3"	A40MPGR-TF-300-V	3" Tuf-Flex [®] with FKM Core				
4"	A40MPGR-TF-400-V	4" Tuf-Flex [®] with FKM Core				
6"	A40MPGR-TF-600-V	6" Tuf-Flex [®] with FKM Core				

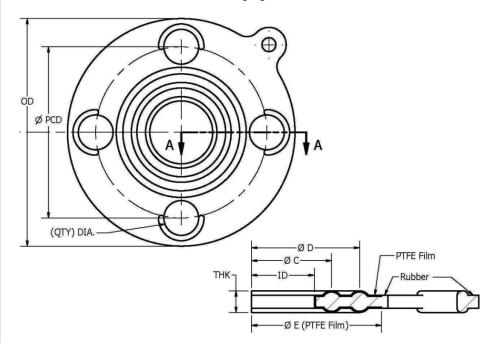
Tuf-Flex[®] FKM core Tri-Clamp[®] gasket is made to order. Please be sure to keep that in mind when ordering.



ANSI-FLEX 150# ANSI FLANGE GASKET

Introducing a Technologically Advanced Ansi Flange Gasket

An Ansi-Flex 150# Ansi Flange Gasket's contact surface is PTFE unitized to an EPDM rubber inner core. This totally bonded construction provides a PTFE gasket with the mechanical characteristics, including memory, of an elastomer gasket with steam resistance. The Ansi-Flex 150# flange gasket has superior and extended service life over standard flange gaskets.



PIPE SIZE	PART NUMBER	OD	ID	THK.	C	D	PCD	# HOLES	E
1/2"	FF-AF-E-050-150#197	3.386	0.708	0.197	1.181	-	2.362	(4) .630	1.654
3/4"	FF-AF-E-075-150#197	3.78	0.866	0.197	1.181	1.654	2.756	(4) .630	2.047
1"	FF-AF-E-100-150#197	4.134	1.142	0.197	1.456	1.968	3.11	(4) .630	2.362
1-1/4"	FF-AF-E-125-150#197	4.528	1.496	0.197	1.811	2.323	3.504	(4) .630	2.756
1-1/2"	FF-AF-E-150-150#197	4.921	1.693	0.197	2.087	2.677	3.858	(4) .630	3.11
2"	FF-AF-E-200-150#197	5.906	2.126	0.197	2.52	3.268	4.764	(4) .748	3.898
2-1/2"	FF-AF-E-250-150#197	6.89	2.716	0.197	3.189	3.976	5.512	(4) .748	4.646
3"	FF-AF-E-300-150#197	7.402	3.15	0.197	3.622	4.409	5.984	(4) .748	5.118
4"	FF-AF-E-400-150#197	8.898	4.055	0.197	4.882	5.827	7.48	(8) .748	6.614
6"	FF-AF-E-600-150#197	10.906	6.024	0.197	6.772	7.717	9.488	(8) .866	8.346
8"	FF-AF-E-800-150#197	13.386	7.874	0.197	8.74	9.685	11.732	(8) .866	10.68

10" & 12" consult factory



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