



# AMERIFLEX™

BREAK-THROUGH AMERICAN MADE GASKETS.



PolyFlex™



## FlowSmart is proud to offer the only line of PTFE bonded to Rubber products made in America.

**P**TFE bonded gaskets offer the best of all Worlds, a PTFE surface with the compressibility and memory of an elastomer. PTFE and Stainless Filled PTFE have excellent chemical resistance and with our innovative gaskets they now have superior sealing characteristics. The combination of rubber and PTFE create a the most compressible PTFE sanitary gaskets products ever. AmeriFlex™ products seal with greater efficiency, extending gasket life, even achieving and maintaining seal performance under vacuum. Seal-ability provided by the elastomer and an inert contact surface makes AmeriFlex™ the most versatile gaskets. So plants can standardize on the right AmeriFlex Gasket™ for every connection in the plant.

## American Quality, Performance and LESS Costly

**M**aybe best reason to make AmeriFlex Gasket™ products the gaskets of choice are that they are made with the FlowSmart's pedigree of compounds that have outperformed our competitors in a number of biotech and pharmaceutical applications and performance studies. All AmeriFlex Gaskets™ feature our Viton GF-600s compound, Platinum Cured Silicone and the high purity process industry's finest performing EPDM compound.

All AmeriFlex Gaskets™ and our compounds are produced in the United States. This ensures consistent, accurate production quality and the gasket performance high purity processors expect. FlowSmart is first at controlling our compounds and providing the highest level of traceability. All of these benefits are available if you buy the AmeriFlex™ gasket products. You don't have to risk your performance, your traceability or the quality of your biotech or pharmaceutical product by buying the Malaysian produced product. Aside from the cost of those risks, American engineering has allowed FlowSmart to produce and sell AmeriFlex Gasket™ products at a lower cost than PTFE grafted Malaysian gaskets.

### Compare Flexibility

**A**meriFlex Gasket™ products are more flexible than the Malaysian products whether you choose the PolyEnvelope™ with the most PTFE coverage or PolyShield™ with the discreet, focused PTFE surface. FlowSmart encourages you to do your homework and trial all bonded PTFE products.

### Material Option

**A**merican production and material control means you have more options. If FlowSmart offers the material in our line we can supply it as an AmeriFlex Gasket™. That includes any PTFE, TFM, or PolySteel® fluoropolymer and any elastomer, EPDM, Viton A, GF-600s, GFLT's, Platinum Silicone, and more.



## AmeriFlex™ is available in three configurations PolyShield™, PolyFlex™ and PolyEnvelope™.



PolyShield™

**PolyShield™** is the most flexible gasket with maximum memory and a discreet PTFE contact surface. PolyFlex is predominantly comprised of Rubber with a discreet PTFE contact area. The design results in a long life gasket with uncompromised seal-ability with PTFE. Steel Shield™ is the ideal gasket for the users that prefer Stainless Steel filled PTFE compounds. FlowSmart combines the 316L Stainless Steel gasket material with an elastomer to create the only gasket comprised of that material to maintain a seal under a vacuum. Never before has a Stainless Filled PTFE material had great seal-ability and flexibility.

**PolyFlex™** also provides a composition that provides memory, flexibility and with the superior chemical resistance of PTFE contact surface.

If you are looking to extend chemical resistance PolyFlex™ provides the maximum PTFE coverage of the elastomer substrate. Providing greater life where chemicals are most aggressive. SteelFlex® is rubber bonded to PolySteel, our stainless steel filled PTFE material. While stainless steel filled PTFE materials provide great steam resistance, that composition has lost market share to products that are more compressible and can hold a seal in vacuum application. SteelFlex is the only Stainless Filled PTFE product that addresses those issues.



PolyFlex™



PolyEnvelope™

**PolyEnvelope™** is a bonded gasket that provides a full PTFE envelope that extends from the ID to the OD of the seal. The PolyEnvelope has tremendous flexibility and memory while providing the maximum PTFE surface.

**AmeriFlex Gaskets™ are tailored to the needs of the customer.  
Find the gasket design that meets your needs:**

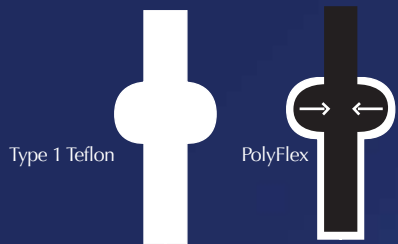
<b>Part Numbers</b>	<b>AmeriFlex Gasket™ Product</b>	<b>AmeriFlex Gasket™ Product Description</b>
PSHLD-E-SIZE PSHLD-SFY-SIZE PSHLD-RXPX-SIZE	<u>PolyShield™ with EPDM</u> <u>PolyShield™ with Viton</u> <u>PolyShield™ with Silicone</u>	Teflon contact surface with maximum flexibility and memory with an engineered elastomer.
SSHLD-E-SIZE SSHLD-SFY-SIZE SSHLD-RXPX-SIZE	<u>SteelShield® with EPDM</u> <u>SteelShield® with Viton</u> <u>SteelShield® with Silicone</u>	PolySteel contact surface with maximum flexibility and memory with the elastomer of your choice.
B40MPGRE-SIZE B40MPGRV-SIZE B40MPGRX-SIZE	<u>PolyEnvelope™ with EPDM</u> <u>PolyEnvelope™ with Viton</u> <u>PolyEnvelope™ with Silicone</u>	A balance of Teflon contact surface and elastomeric material with flexibility and memory molded with the elastomer that works best with your process.
B40PPSE-SIZE B40PPSV-SIZE B40PPSRXPS-SIZE	<u>SteelFlex® with EPDM</u> <u>SteelFlex® with Viton</u> <u>SteelFlex® with Silicone</u>	PolySteel contact from the ID to the location bead bonded to our pedigree of elastomers to provide flexibility and memory.
PENV-E-SIZE PENV-SFY-SIZE PENV-RXPX-SIZE	<u>PolyEnvelope™ with EPDM</u> <u>PolyEnvelope™ with Viton</u> <u>PolyEnvelope™ with Silicone</u>	Maximize the protection of rubber with a PTFE surface that runs out to the OD. The elastomer provides memory and flexibility.

All AmeriFlex Gaskets™ meet the toughest high standards:

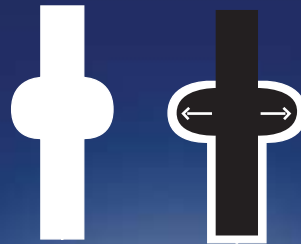
- Full traceability of American manufactured materials.
- Final article testing United States Pharmacopeia Class VI <87> and <88>.
- Made to ASME BPE standards.
- 3A Sanitary tested and audited.
- Animal Derived Ingredient Free to ensure products that are safe from BSE.

During Compression  
PolyFlex achieves better sealing

After Compression



PolyFlex is more compressible under load than solid PTFE and Envelope designs



Teflon does not rebound after compression. PolyFlex rebounds back to its original size



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