



# GORE® Universal Pipe Gasket

## Style 800 – For Chemical Process Piping

### FOR ALL STANDARD FLANGES

GORE® Universal Pipe Gaskets (Style 800) are used to seal all types of flanges in chemical process piping. Designed to meet the needs of many different piping materials, they are ideal for standardizing gasket material across steel, glass-lined steel, and FRP systems, whenever a non-metallic gasket can be used.

Unaffected by even the most aggressive chemicals, Style 800 gaskets combine all the properties of expanded PTFE with exceptional sealability. Engineered to deliver superior bolt load retention, these gaskets exhibit exceptional creep resistance for reliable sealing of steel piping flanges. And due to their unique design, they provide the lowest stress-to-seal for applications in the most fragile plastic and glass-lined flanges.

Look to GORE® Universal Pipe Gaskets for exceptional performance in three important areas: conforming to irregular surfaces, helping to protect flanges, and seal reliability. With over 30 years of manufacturing and technical experience, depend on Gore gaskets when you need the highest level of confidence.

### TECHNICAL DATA

#### MATERIAL

100% expanded PTFE, with multi-directional strength.

#### TEMPERATURE RANGE

-450°F to +600°F (-268°C to +315°C)

#### CHEMICAL RESISTANCE

Resistant to all media in the 0-14 pH range, except molten alkali metals and element fluorine, particularly at elevated temperatures and pressures.

#### OPERATING PRESSURE

Vacuum to 3,000 psig (200 bar)

#### STABILITY

Not subject to aging, and can be stored indefinitely.

#### COMPRESSIBILITY

ASTM F-36 57%

#### PHYSIOLOGICAL SAFETY

Product is made from raw materials listed by the US Food & Drug Administration (FDA) in 21 CFR Parts 175 – 186 for PTFE resins, adhesives and inks.

We do not manufacture our products according to current Good Manufacturing Practice (cGMP) requirements for food contact substances or drug packaging materials.



### KEY FEATURES

- 100% expanded PTFE with multi-directional strength
- Seals at lowest bolt load
- Chemically inert
- Temperature & blowout resistant
- Dimensionally stable
- Resists creep and cold flow

### KEY BENEFITS

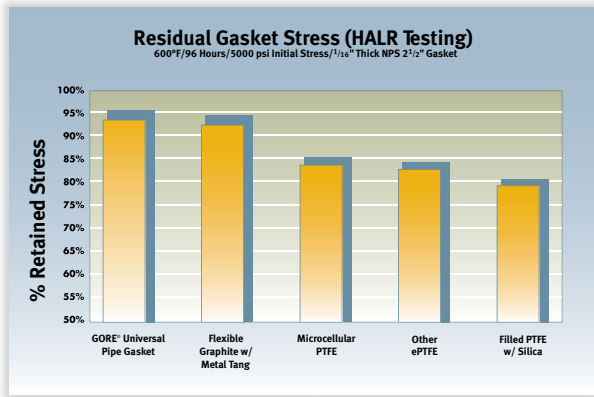
- Seals all types of standard piping
- Standardize ... one gasket system wide
- Protects against use of wrong gasket
- Lowers chemical process emissions
- Superior sealing reliability & longer gasket life
- Lowers total sealing costs



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## MOST RELIABLE SEAL

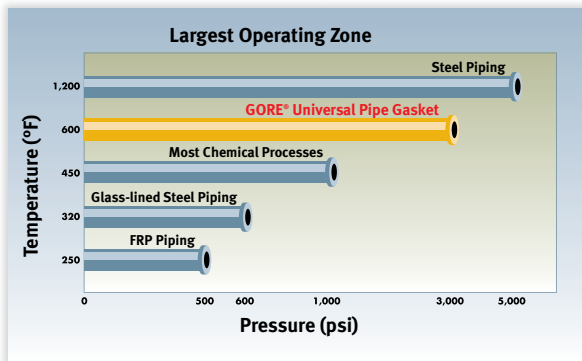
GORE® Universal Pipe Gaskets (Style 800) deliver higher sealing reliability than other PTFE-based gaskets. These gaskets have exceptional bolt load retention and creep resistance characteristics, as demonstrated in HALR (High Temperature Aged Load Relaxation) testing.



Source: HALR testing by independent testing firm.

## STANDARDIZE PIPING SYSTEM GASKETS

When considering the parameters of temperature and pressure, Style 800 gaskets offer the largest operating zone, thus allowing use across virtually all chemical process piping systems. The vast majority of processes run at less than 450°F and 1,000 psi internal pressure. This gasket operates up to 600°F and up to 3,000 psi.



Supplied By: \_\_\_\_\_

All technical information and advice given here is based on our previous experiences and/or test results. We give this information to the best of our knowledge, but assume no legal responsibility. Customers are asked to check the suitability and usability in the specific application, since the performance of the product can only be judged when all necessary operating data are available. Specifications are subject to change without notice. Gore's terms and conditions of sale apply to the purchase and sale of the product.

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## AVAILABLE SIZES

ANSI 150 & 300, 1/2" through 24" nominal pipe flanges.

## SEALABILITY

### Recommended m and Y values

	Plastic/FRP Flanges (<290 psig)*	Glass-Lined Steel Flanges (<580 psig)*	Steel Flanges (<290 psig)*
<b>m</b>	2.5	1.4	2.4
<b>Y</b>	290 psi	725 psi	1,500 psi

\*For a T3 seal based on data from CETIM, reference report no. 774630/6J1/a.

The lower bolt loads needed to seal with the GORE® Universal Pipe Gasket will support standardization of non-metallic gasket materials in steel, FRP, and glass-lined steel flanges.

## BLOWOUT SAFETY

The GORE® Universal Pipe Gasket delivers improved creep relaxation and higher tensile strength, which makes the gaskets more resistant to blowout. In Hot Blowout testing (HOBT), when compared to a leading filled PTFE material, the GORE® Universal Pipe Gasket showed superior results. Tested in accordance with HOBT1 and HOBT2 procedures, blowout of the filled PTFE material occurred when the internal pressure reached 1,900 psi at 450°F. GORE® Universal Pipe Gaskets did not experience blowout at 450°F and 2,900 psi during the tests; thus the temperature was increased with pressure maintained until blowout did occur at 682°F. The significantly higher blowout resistance of the GORE® Universal Pipe Gasket is a result of the improved tensile and mechanical properties achieved with the new technology.

## INSTALLATION

Clean the flange faces and apply the gasket. Tighten to the manufacturer's recommended torque load for the piping system. Torque tables and installation procedures are available on request.

For detailed selection criteria, technical information, installation guideline and the complete listing of local sales offices, please visit [gore.com/sealants](http://gore.com/sealants).

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