



GORE® UNIVERSAL PIPE GASKET

For sealing joints reliably



For all flanges

GORE® Universal Pipe Gasket (Style 800) is 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 standardising gasket materials across steel, glass-lined steel and FRP systems, wherever a non-metallic gasket can be used.

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

Look to GORE® Universal Pipe Gasket (Style 800) for superior performance in three important areas: conforming to irregular surfaces, helping to protect flanges and sealing reliably. With over 30 years manufacturing and technical experience, GORE offers gasketing you can depend on when you need the highest level of confidence.

Technical Data

Material

100% expanded PTFE with high multi-directional tensile strength. Free from asbestos and any other lung damaging component.

Temperature Range of PTFE

-240°C to +270°C;
to +315°C for short periods

Chemical Resistance

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

Recommended Operating Pressure and Temperature Range

- Vacuum to 40 bar (600 psi)
- -240°C to +230°C; from +230°C up to +270°C please contact your GORE product specialist.

Stability

Not subject to ageing and can be stored indefinitely.

Physiological Safety

Physiologically harmless in prolonged installation at temperatures up to +260°C according to VDI/VDE guidelines 2480; complies to the FDA 21 CFR 177.1550 (PTFE) requirements for food.

UNIVERSAL GASKET FOR ALL STANDARD FLANGES

Key Features

- ePTFE with a multi-directionally orientated fibrous structure
- Made from 100% virgin PTFE
- Seals at lowest bolt load
- Highly conformable
- Chemically inert and temperature resistant
- High dimensional stability and creep resistance
- High blow-out resistance

Key Benefits

- Seals all types of standard flanges
- Standardisation: only one type of gasket in the piping system
- No misuse of a wrong gasket
- Seals highly permeable and aggressive fluids
- Seals damaged or misaligned flanges
- Seldom needs retorquing
- Superior sealing reliability and long gasket life
- Lowers total sealing cost



Typical Applications

- Steel flanges
- Plastic flanges
- Glass-lined steel flanges
- PTFE- and rubber-lined flanges





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Mechanical Data

ASTM F-36 55%
 DIN σ_{VO} >150 MPa
 Blow-out safety (TÜV) Class A/60 bar
 Class B/60 bar
 Class C/25 bar

Sealability

ASTM F-37 ("Y" value) 1,500 psi
 ASTM F-568 ("m" factor) 2.4
 DIN σ_{VU} 6 MPa
 DIN σ_{BU} <5 MPa
 "TA-Luft" Yes

Installation Guide

Clean the flange faces and apply the gasket. Tighten the bolts in three steps until recommended torque. Torque tables and installation procedures are available on request.

Available Sizes

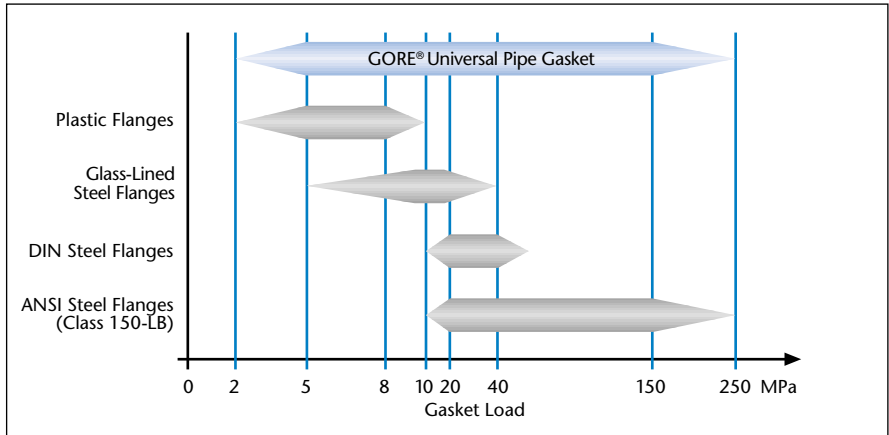
		Thickness [mm]					
		1.5	3.0	6.0	1.5	3.0	6.0
DN	15	•	•		1/2"	•	•
	20	•	•		3/4"	•	•
	25	•	•		1"	•	•
	32	•	•		1-1/4"	•	•
	40	•	•		1-1/2"	•	•
	50	•	•		2"	•	•
	65	•	•		2-1/2"	•	•
	80	•	•		3"	•	•
	100	•	•	•	3-1/2"	•	•
	125	•	•	•	4"	•	•
	150	•	•	•	5"	•	•
	200	•	•	•	6"	•	•
	250	•	•	•	8"	•	•
	300	•	•	•	10"	•	•
	350	•	•	•	12"	•	•
	400	•	•	•	14"	•	•
500	•	•	•	16"	•	•	
600	•	•	•	20"	•	•	
				24"	•	•	

Pressure rating
 PN 6 – PN 40

Class 150-LB. Ring
 Class 300-LB. Ring

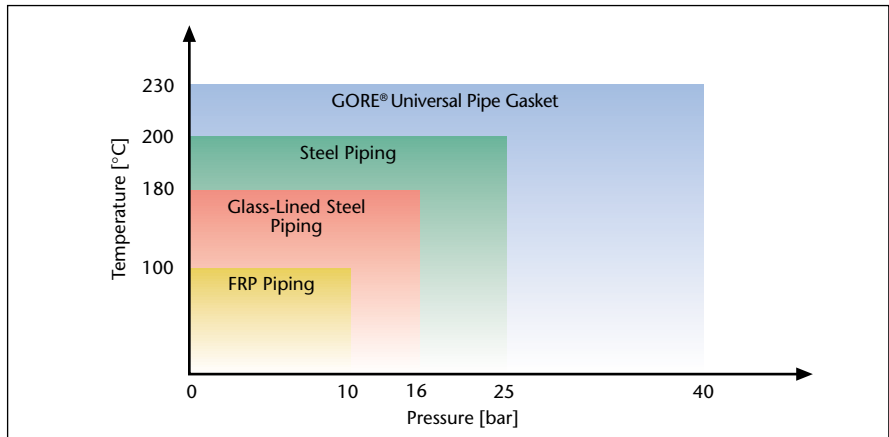
Supplied by:

Maximum gasket pressure of different flange materials



Due to the very low minimum gasket load required, GORE® Universal Pipe Gasket (Style 800) seals all typical types of flanges.

Application areas of standard piping



95% of all chemical processes run at temperatures of up to 200°C and 25 bar. GORE® Universal Pipe Gasket (Style 800) offers the highest performing ePTFE gasket and largest operating zone.

Delivery

Common gasket sizes ex stock. Non common sizes on request.

Order Details

DIN: Style 800 - DN - PN - thickness, number of pieces

ANSI: Style 800 - Size (in ") - LB150/300 - thickness, number of pieces

Quality Assurance

GORE Quality Control system is certified according to DIN EN ISO 9001 by DQS. This forms the basis of the high level of quality of GORE® sealants. Component suppliers are also integrated into this system.



Creative Technologies
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All the technical information and advice given here is based on our previous experiences. We give this information to the best of our knowledge, but assume no legal responsibility. Customers are asked to check these details and results, since the performance of a sealant can only be judged when all the necessary operating data are available. Our product specialist would be glad to help you.

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Specifications are subject to change without notice.