



GORE® Universal Pipe Gasket (STYLE 800)

The reliable universal pipe gasket for all standard 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 decades of 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 (ePTFE) with multidirectionally oriented fibril structure.

TEMPERATURE RANGE OF THE MATERIAL

-268°C to +315°C / -450°F to +600°F

CHEMICAL RESISTANCE

Resistant to all media (pH 0 – 14), except for molten or dissolved alkali metals and elemental fluorine particularly at high temperatures and pressures.

STABILITY

Not subject to ageing within the material's temperature range, UV-resistant and can be stored indefinitely.

PHYSIOLOGICAL SAFETY

Physiologically harmless within temperature range of material. 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.

OPERATING RANGE

The maximum applicable pressure as well as the maximum safe operating temperature depend mainly on the equipment.

Standard pressures range from full vacuum to 40 bar.

KEY FEATURES

- Made from 100% expanded PTFE (ePTFE)
- Seals at lowest bolt load
- Highly conformable
- High chemical and thermal resistance
- 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
- Lined flanges





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MECHANICAL DATA

ASTM F-36 55%
 Blow-out safety (VDI 2200) Class A/60 bar
 Class B/60 bar
 Class C/25 bar

SEALABILITY ACCORDING TO EN 13555

ASTM F-37 ("Y" value) 1,500 psi
 ASTM F-568 ("m" factor) 2,4
 "TA-Luft" Yes

Thickness	P _{QR} data			Q _{Smax}	Q _{min} (0,1)*	Q _{Smin} *
	20°C	150°C	230°C			
1.5 mm	0.94	0.87	0.84	225 MPa	6 MPa	5 MPa
3.0 mm	0.85	0.72	0.62	150 MPa	6 MPa	5 MPa

* Q_{Smin} and Q_{min} tests according to EN 13555 do not provide data < 10 MPa. The figures are based on additional tests and experience.

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 AND SIZE SELECTION

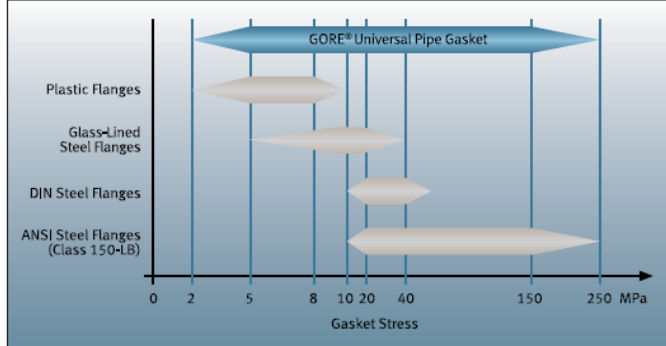
DN	Thickness [mm]			ANSI
	1,5	3,0	6,0**	
10	•	•	•	1/2"
15	•	•	•	3/4"
20	•	•	•	1"
25	•	•	•	1-1/4"
32	•	•	•	1-1/2"
40	•	•	•	2"
50	•	•	•	2-1/2"
65	•	•	•	3"
80	•	•	•	3-1/2"
100	•	•	•	4"
125	•	•	•	5"
150	•	•	•	6"
200	•	•	•	8"
250	•	•	•	10"
300	•	•	•	12"
350	•	•	•	14"
400	•	•	•	16"
450	•	•	•	18"
500	•	•	•	20"
600	•	•	•	24"

• recommended thickness 1.5 for steel piping
 • recommended thickness 3.0 for FRP piping
 • recommended thickness 6.0 for glass-lined steel piping

Pressure rating PN 6 – PN 40 Class 150-LB. Ring, Class 300-LB. Ring

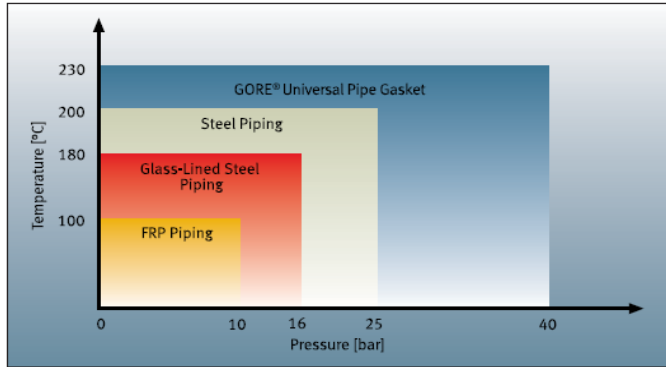
** All 6 mm thicknesses (DN size) deviate from EN 1514-1 by having reduced inner diameter.

MAXIMUM GASKET STRESS 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.

QUALITY ASSURANCE

The GORE Quality Management System has been certified by DQS in accordance with ISO 9001. Component suppliers are also integrated into this system.

ORDERING TEXT

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

