



SEMI-METALLIC

Fishbone Gasket (Type II)

PRODUCT PROFILE

Application: Suitable for flat face and raised face flanges up to Class 2500. Replaces Spiral Wound Style CG, Style CGI.

Materials and Maximum T Limits:

- Metal Materials 304, 316L
- Non-metallic Sealing Materials Flexible Graphite, PTFE, Mica

Facing Material	Minimum °C	Maximum °C	Minimum °F	Maximum °F
Flexible Graphite	-212	450	-350	850
PTFE	-240	260	-400	500
Mica	-212	100	-350	185

※ Other Materials please contact: egc@environmentalgasket.com.

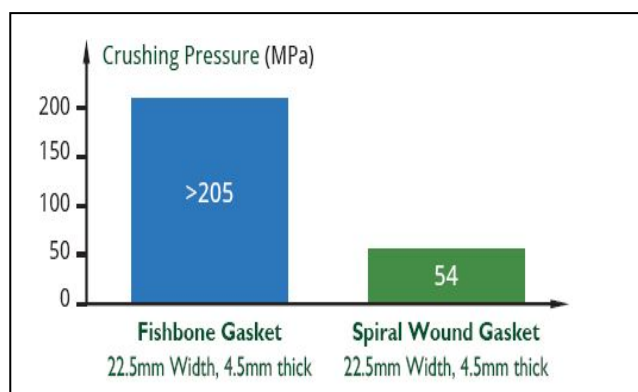
Technical Benefits:

- Patented helical concentric beveled ribs, each side is covered with Graphite, PTFE or Mica
- Unique Stop-Step design
- Unitary design with a centering ring
- Self-energized by fluid pressure
- Do not damage flanges

Design Parameters:

- Crushing Pressure

Test Item	Fishbone Gasket 22.5mm Width, 4.5mm thick	Spiral Wound Gasket 22.5mm Width, 4.5mm thick
Crushing Pressure	>205MPa	54 MPa



- Leakage rates (VDI Guideline 2440 & VDI Guideline 2200)

Test Item	1 bar absolute	40 bar overpressure
Leakage Rate (mbar*I)/(s*m)	1.8×10^{-9}	1.6×10^{-8}

The fishbone Gasket is considered to be of high grade performance according to TA-Luft.

- Chevron Fugitive Emissions Test

Thermal Cycle Number	Leakage Readings (PPMv)				Flange Temperatures	
	Ambient Temp.		500 deg F Temp.		Heated	Other
	Avg.	Max.	Avg.	Max.	(deg F)	(deg F)
Start	1	1	11	12	500	473
1	10	15	10	11	500	474
2	2	2	8	8	500	457
3	6	7	3	3	499	458
4	3	3	6	6	500	441
5	11	13				
Averages ->	5	7	8	8	500	461
Maximums ->	11	15	11	12	500	474

**Tolerance:**

Gasket Diameter	Outside Diameter	Inside Diameter
≤600mm	-0.5~0	0~+0.5
≤1500mm	-0.8~0	0~+0.8
≤2400mm	-1.2~0	0~+1.2

※ Other Standard Tolerance Capabilities please contact: egc@environmentalgasket.com.

Standards: Environmental Gasket Company manufactured Fishbone gasket is in accordance with all relevant international gasket standards:

ASME B16.20 ASME B16.47 SERIES B (API 605) ASME B16.47 SERIES A (MSS-SP 44) HG/T20632

BS1560 BS10 BSEN1092 (BS 4504) DIN FLANGES JIS FLANGES FRENCH NFS TANDARDSTANDARD

Design Factors:

m	2.5
y	50MPa

Remark: Our company inspects this product under experimental conditions. Yet when used in practice, this product cannot function independently, and has to work in coordination with the device. The performance of the product depends on other related factors (including factors not existent under the conditions of laboratory experiments). Users shall judge independently whether to use this product, and shall ensure correct storage, installation and application of this product. As such, our company assumes no responsibility with regard to any situation arising from inappropriate storage, installation and application. All products of our company were strictly examined under the relevant national or business standards.