

The Data Center Gasket

Flexitallic

FLEXDC
Data Center™

★★★
MADE IN THE
USA



Powering Uptime.
Protecting Performance.

PREMIUM SEALING OPTIONS: **SEL+** *Thermiculite* **CORRICULITE**

Flex DC™ is the next evolution of Flexitallic's proprietary Self-Locator design —engineered exclusively for the demanding environments of modern data centers.

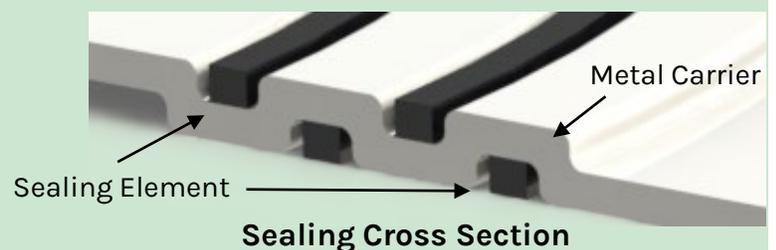
Developed to maintain perfect sealing integrity through fluctuating temperatures, vibration, and continuous operation, Flex DC ensures reliability where downtime is not an option.

KEY BENEFITS

- Built for continuous operation under vibration and thermal cycling—ideal for chilled water, HVAC, and power loops.
- No re-torque required; maintains bolt load and uptime.
- Fire, blow-out, and leak proof for mission-critical reliability.
- Universal fit: ANSI, DIN, JIS, BS, and AUS standards.
- Eliminates fugitive emissions, supporting ESG goals.
- Made in the USA — proprietary design exclusive to Flexitallic.

THE DESIGN

Flex DC's self-locating metal carrier ensures perfect centering, preventing flange misalignment and simplifying installation. Its dual SEL+ sealing tracks deliver high unit load and superior clamping pressure at lower bolt stress — a crucial benefit in precision cooling and pressurized water systems within data centers.



POWER TO THE FUTURE

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TECHNICAL SPECIFICATIONS

Sizes: 1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2 (including metric equivalent) 3, 3 1/2, 4, 5, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24

Flange Pressure Class: 150# to 2500#

Thickness: 1/16" (1.6mm). Other thicknesses available, contact engineering department for more details

Torque Values: 50% to 65% of Bolt Yield†

Flange Surface Finish: 10 to 400 µin RMS (microinches)

Sealing Track Width:

- 1/2 to 1 1/4 (gasket size) 0.100" each side.
- ≥1 1/2 (gasket size) 0.125" each side.

Leak Rate: 0.005 in mg/m · s (DIN 28090 / 1..2) < 10ppm @ He

Temperature Range: -328°F/-200°C cryogenic air +932°F/+500°C in regular atmosphere + 1202°F/+650°C in steam +1832°F/+1000°C reducing or inert media. Varies by material.

Pressure Range: Full vacuum to +5000 psi

Minimum Seating Stress: 2900 psi (20 MPa)

Maximum Seating Stress: 23,200 psi (160 MPa) (testing equipment limit)

Recommended Seating Stress: 5800 to 8700 psi (40 to 60 MPa)

Available Sizes for Flange Standards:

ANSI 16.5, DIN 2600, JIS B2220, BS 4505, BS 10, AUS 2129

METAL CARRIER OPTIONS

Carbon Steel
MONEL®
INCONEL®
Copper
AL6XN® (Stainless Steel)
304 Stainless Steel
316 Stainless Steel
321 Stainless Steel
347 Stainless Steel
HASTELLOY®
Nickel
Titanium

SEALING ELEMENT OPTIONS

SEL+ Flexible Graphite
PTFE
Thermiculite
Corriculite



† Torque values can be adjusted in accordance with the application parameters, nut factor, and bolt material. Consult Engineering Department for more details

**ALSO
AVAILABLE**



FLEX HX
Heat Exchanger



FLEX MW
Manway

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