



Full Metal Gasket™

The Clock Spring patented Full Metal Gasket™ is the world's only DNV GL type approved gasket for zero-emissions. CNC-milled from a single block of metal, the gasket is a robust and easy-to-handle component that is non-ductile and resistant to galvanic corrosion.

Because our gasket is manufactured of the same material as the surrounding pipe and flange, it shares identical characteristics - most importantly, expanding and contracting in line with the surrounding infrastructure to maintain the permanent, zero-emissions, non-leaking seal.

Studies show that sealings between flanges are among the weakest components of piping connections, causing negative environmental impact, production and productivity loss, and higher operational costs.

OUR METAL-TO-METAL SEAL ELIMINATES THE PIPING SYSTEM'S WEAKEST LINK, DELIVERING:

- Zero-emissions
- Corrosion and fatigue resistance
- Durable, reliable performance.

The Clock Spring Full Metal Gasket™ offers the most effective sealing technology available for preventing pipe leakage. The compression of the patented V-shaped rings reduces the torque required to tighten the flange by almost 70%.

Like all Clock Spring products, the gasket is simple to install, easy to maintain, and delivers reliable and consistent performance.

THIRD-PARTY TESTING VALIDATES PERFORMANCE

| TEST | PARAMETERS | RESULTS |
|--------------------------|---------------------------------------|---|
| Helium Testing | 10 bar (145 psi) | Proves the gasket reduces fugitive emissions, delivering gas-tight reliability 10,000 times greater than the oil and gas industry requirement |
| Vibration Testing | 10 million repetitions at 23.5 Hz | Validates fatigue resistance |
| Testing under fire* | ≥ 650°C (1,202°F) 40 bar (580 psi) | Confirms escaped gas measured only 0.01 ml/inch per minute (1% of the volume permitted by API guidelines). |
| Cold Temperature Testing | -138°C (-216°F) | Illustrates dependability in Arctic conditions |

* The Clock Spring metal-to-metal seal has been certified by Amtech Fire Protection Services as Fire Safe according to API 6FB.

CLOCK SPRING FULL METAL GASKET™ DELIVERS:

- Zero-emissions
- Quick installation
- Consistent, reliable performance.

www.ClockSpring.com

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AMERICAS

USA +1.281.590.8491
sales@clockspring.com

AFRICA, ASIA, AUSTRALIA, EUROPE

UK +44 1480 414703
sales@clockspringuk.com

