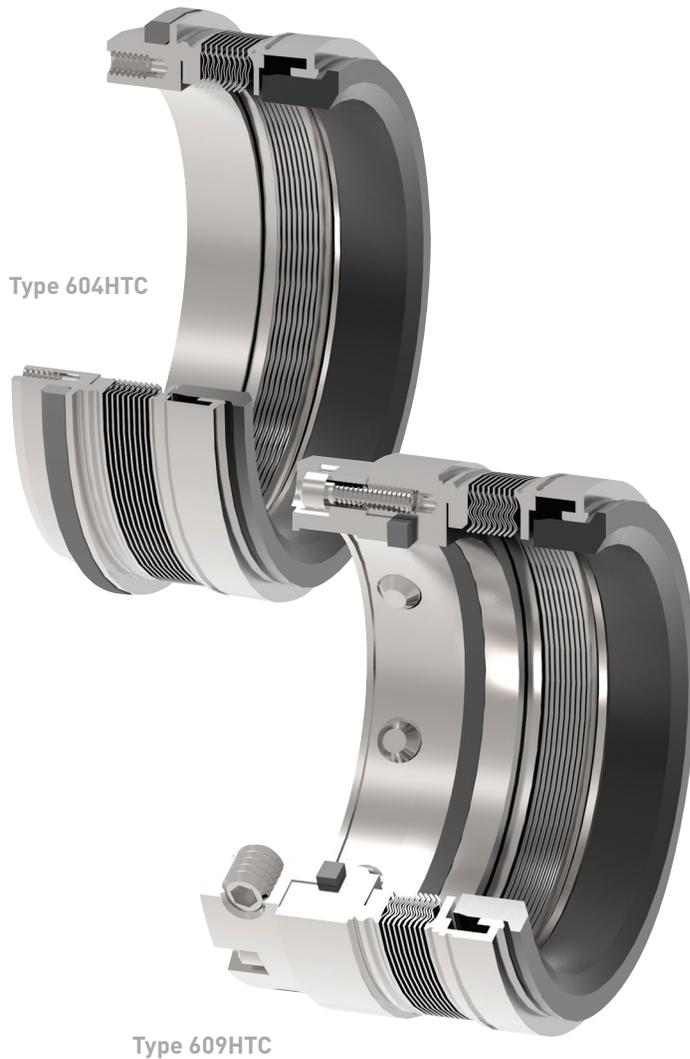


TYPE 604HTC AND TYPE 609HTC

METAL BELLOWS SEAL



DESIGN BENEFITS

- Excellent corrosion resistance
- Superior face flatness stability
- Proven performance and API 682 qualified

PRODUCT DESCRIPTION

High-temperature corrosion-resistant (HTC) welded metal bellows seals that provide reliability, safety, and fluid handling control in harsh high-temperature corrosive environments as well as providing superior seal face stability at elevated temperatures.

The Type 604HTC and 609HTC seals use all-Inconel metallurgy and unique face seal technology that provides exceptional seal face stability and is able to adapt to a wide range of temperature extremes found in high-temperature corrosive environments. Alloy Inconel-718 is the highest strength metal bellows material currently available.



Your Name
Is How We Make Ours

TYPE 604HTC AND TYPE 609HTC

METAL BELLOWS SEAL

Excellent Corrosion Resistance

The Type 604HTC and 609HTC are all-Inconel welded metal bellows seals designed to resist corrosive attack from process fluids up to 425°C (800°F), and ideally suited for applications that contain organic acids, (naphthenic acids) or sulfur compounds that attack most other alloys in aggressive, hot, sour crude environments.

Exceptional Face Stability

The HTC seals controls face distortion by incorporating an innovative seal face design such that face flatness changes very little with changes in temperature and pressure. The exceptional face stability from this design results in reduced leakage and potentially longer seal life. Even if the application is not corrosive, the extra face stability provided by the seal can extend Mean-Time-Between Repair.

API 682 Qualified Designs

The API 682 qualified HTC seals are available in both stationary (604HTC) and rotating (609HTC) configurations, as well as single and dual arrangements.

Full Reverse Pressure Containment

Capability: This inherently safe design provides process fluid containment safety against system upsets on dual seal systems.

Type 604HTC

High-temperature corrosion resistant stationary bellows assembly capable of handling high shaft speed applications and high shaft-to-seal chamber misalignment.

Type 609HTC

High-temperature bellows assembly intended for those demanding applications where dependable, high-strength, rotating seal is preferred.

API 682 Type C Qualified Cartridge Seals with HTC technology

TYPE 1604HTC

Single stationary bellows cartridge seal Type C, Arrangement 1.

TYPE 2609HTC

Dual unpressurized rotating bellows cartridge seal Type C, Arrangement 2.

Type 3609HTC

Dual pressurized rotating bellows cartridge seal Type C, Arrangement 3.

Type 3604HTC

Dual pressurized stationary bellows cartridge seal Type C, Arrangement 3.

3604HTCDP

Dual pressurized stationary bellows cartridge seal Type C, Arrangement 3 that utilizes Type 604HTC

Double-ply technology for higher pressure applications.

PERFORMANCE CAPABILITIES

Temperature	Pressure	Speed
-75°C to 425°C/ -100°F to 800°F <i>(with flexible graphite static packing)</i>	Dynamic: Vacuum to 20 bar(g)/300 psi(g)	Type 604HTC: Up to 50 m/s (10,000 fpm)
	Static: 31 bar(g)/450 psi(g) <i>(with flexible graphite static packing)</i>	Type 609HTC: Up to 25 m/s (5,000 fpm)

Together, we will work to keep your mission-critical operations up and running, with support and guidance from our experienced team.

Consult John Crane Engineering for your specific seal selection.



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Asia Pacific

Singapore
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If the products featured will be used in a potentially dangerous and/or hazardous process, your John Crane representative should be consulted prior to their selection and use. In the interest of continuous development, John Crane Companies reserve the right to alter designs and specifications without prior notice. It is dangerous to smoke while handling products made from PTFE. Old and new PTFE products must not be incinerated. ISO 9001 and ISO 14001 Certified, details available upon request.