

ALTUS-SEAL



Bellows Cartridge Seal Range

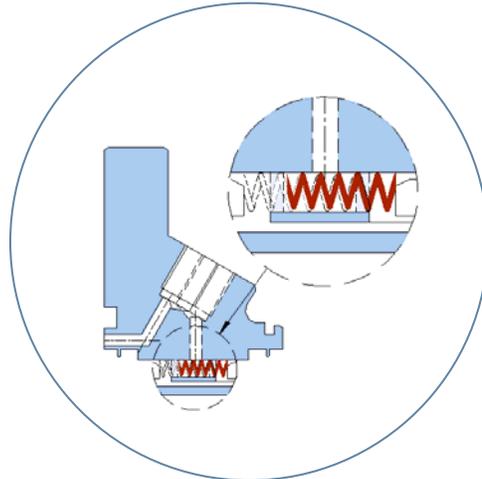


ALTUS-SEAL MODULAR BELLOWS CARTRIDGE DESIGN

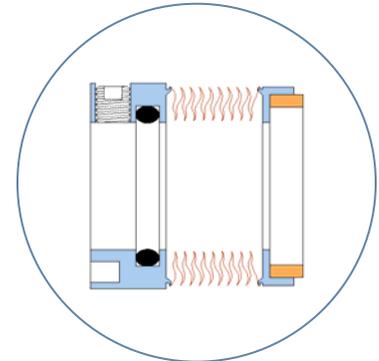
Utilizing the ALTUS-SEAL's TRUE-MODULAR design technique, this metal bellows cartridge range of seals is especially designed for corrosive, abrasive, viscous and dangerous applications in chemical and petrochemical industries, water distribution and sewage, food processing industry, sugar, boiler plants, paper mills and bio-engineering industries.



Modular Seal Face



Modular Gland Plate



Modular Bellows

SPECIAL FEATURES

MODULAR METAL BELLOWS

Metal bellows that fits all.

Can be used as a component seal, single seal cartridge, single seal cartridge with flush, quench and drain, cartridge metal bellows seal doubled by modular multiple spring.

MODULAR SEAL FACE

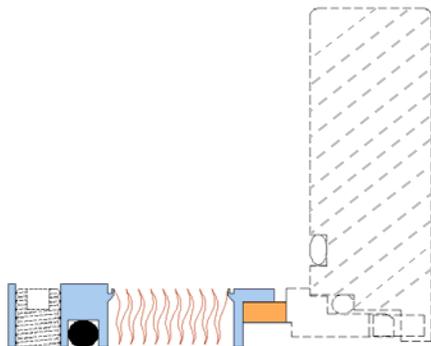
Using modular seal face as stationary seat on inboard seal and rotary and stationary outboard seal multiple spring in case of double seal arrangement.

MODULAR GLAND PLATE

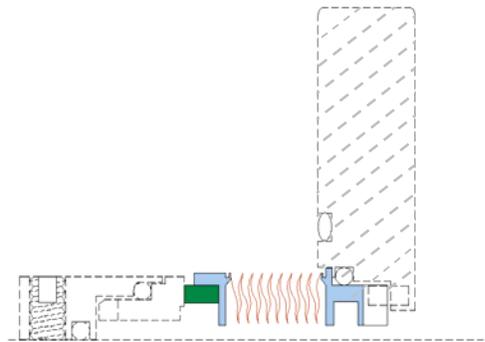
Gland Plate fits all ALTUS-SEAL standard cartridge seal in multiple spring and metal bellows design, single seal and double seal, in multiple spring and metal bellows types.

OPERATING PARAMETERS/WORKING CONDITIONS		MATERIALS OF CONSTRUCTION	
Max. Pressure	20 bars/300 PSI	Seal Faces	Ant. Carbon, Silicon Carbide & Tungsten Carbide
Max. Temperature	-75°C/-100°F to 425°C/800°F	Secondary Seal	EPR, Viton, Teflon-coated Rubber, Aflas & Kalrez
Max. Speed	3600 RPM	Metallurgy	AM350, Hastelloy C276

BELLEWS COMPONENT SEAL

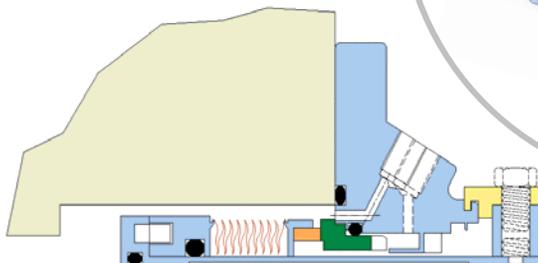


Type R1800
(Rotary Type Component Seal)

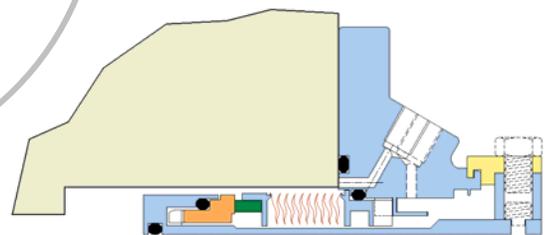


Type S1800
(Stationary Type Component Seal)

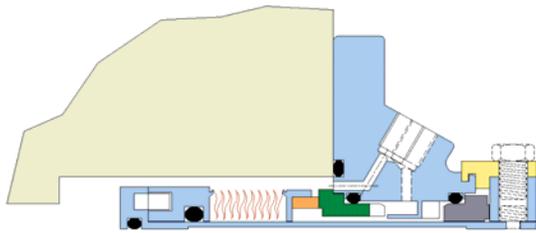
BELLEWS CARTRIDGE SINGLE SEAL



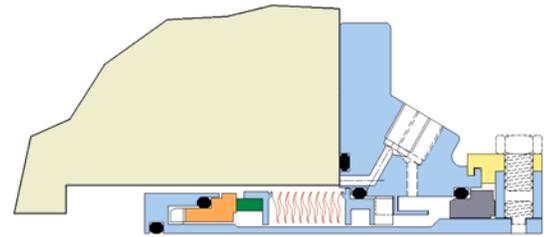
Type CRS1800-F
(Cartridge Rotary Type Single Seal with Flush Port)



Type CSS1800-F
(Cartridge Stationary Type Single Seal with Flush Port)

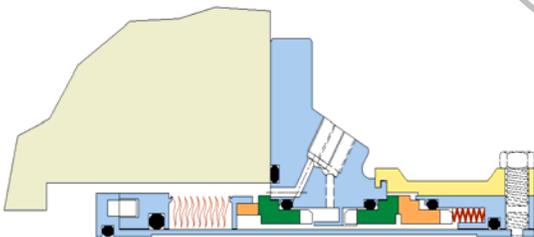


Type CRS1800-R/FQD
 (Cartridge Rotary Type Single Seal
 With Restricted Bushing, Flush,
 Quench & Drain Ports)

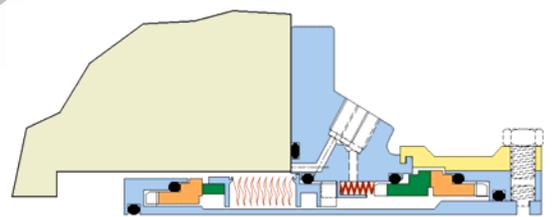


Type CSS1800-R/FQD
 (Cartridge Stationary Type Single Seal
 With Restricted Bushing, Flush,
 Quench & Drain Ports)

BELLOWS CARTRIDGE DOUBLE SEAL



Type CRD1800/FQD
 (Cartridge Rotary Type Double Seal
 With Flush, Quench & Drain Ports)



Type CSD1800/FQD
 (Cartridge Stationary Type Double Seal
 With Flush, Quench & Drain Ports)

CLEAR REASONS TO EMPLOY MODULAR DESIGN

Design Advantage (Modularity) - Simple and easy to install. Featuring common gland, seal faces and other parts which is interchangeable to all designs of Cartridges making assembly quick and fail-safe. Modification of materials such as seal faces, metallurgy and elastomers is easy. Variations in design from single rotary or stationary seals to double seals can easily be achieved by re-arranging seal parts. Seal faces can be fitted as rotary or stationary, inboard or outboard.

95% Industry Sealing Applications - Suitable for many applications in chemical and petrochemical industries, water distribution and sewage, food processing industry, sugar, boiler plants, paper mills and bio-engineering industries.

User Re-buildable - Altus-Seal modular cartridges are user re-buildable. They can be repaired on site. The spares kit which includes the seal faces, different kinds of elastomer o-ring, springs, gasket, and screws, can be mounted rapidly.

Quick and Fail-Safe Installation - During the installation of the seal, the module containing the sleeve, drive ring and setting clips is fixed in all directions. This layout provides easy fitting on any types of equipment, in particular when dealing with the latest pumps with compact housings and wide section fasteners. The faces are prevented from being distorted when seal is installed.

Fast Deliveries - Another notable benefit of this modular design is quick deliveries as a result of systematic production process allowing customers to minimize inventories.

Cost-Effective - With modular cartridge design, our customers experienced the lowest cost of repair kits providing 70% more savings. The drastically reduced worn parts means much less waste to deal with.

These cartridges have been designed to reach the highest standards of customer satisfaction. Due to the focus in single multi-purpose design, optimization is practiced resulting in high quality finished products.

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