

## ■ STANDARD DIN/ANSI DUAL CARTRIDGE SEALS

PATENTED

# CARLIFE® 699™



## NEXT GENERATION SEALING - ADVANCED BACK-TO-BACK DUAL CARTRIDGE SEAL

### Product Description

CarLife®699™ is an exceptional dual cartridge seal that boasts superior performance. Featuring an advanced back-to-back structure and monolithic seal face, enabling it to balance pressure differentials and achieve superior sealing performance. Additionally, the meticulously designed structure on the Gland enhances the flow rate of the buffer fluid and facilitates sealant circulation, thereby minimizing the risk of overheating. With its impeccable design and outstanding features, CarLife®699™ excels in various application domains, delivering remarkable quality and performance.

### Specific Features

#### • Dual Cartridge Seal

Conformed to DIN/ANSI and size customizable

#### • Advanced Back-To-Back Configuration

Compact and precisely outlined, ideal and applicable for pumps with limited space

#### • High-Intensity Drive Structure

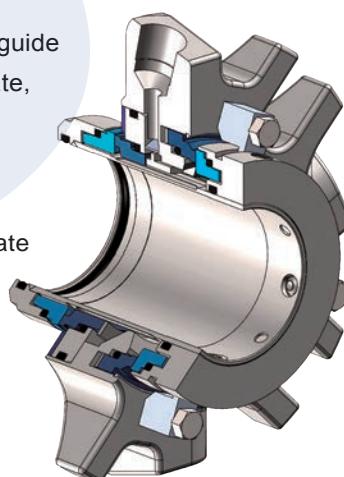
Intensified T-type positive key drive to ensure stability and durability of primary rings during start-up and under torque even in high hardness material

#### • Patented Baffle

Patented labyrinthine baffle guide to enhance head and flow rate, improving heat exchange efficiency

#### • Special Gland Structure

Engineered gland with intricate canals & channels to facilitate sealant circulation and accelerated heat dissipation



### Operating Parameters

Temperature	-40 ~ 200°C (-40 ~ 392 °F)
Pressure	Up to 300 psig (21 kg/cm²G)
Surface Speed	Up to 5000 fpm (25 m/s)

### Recommended Piping Plans

Between Seals 52 / 53 / 54

※ Custom designs are available to combine various compatible plans.

### Design Standards

- Designed in accordance with international standards, including ANSI B73.1M, GB/T6556, EN12756, JIS, ISO 3069, and DIN 24960, ensuring compatible and exchangeable dimensions.
- Compliant with DIN/ANSI standards for enlarged bore and tapered bore sealing chambers.
- Custom designs are available to cover the specific needs of customers.
- Applicable for specific equipment

### Applications

- DIN/ANSI standard rotating equipments, such as chemical process pumps, vertical pumps and large industrial pumps
- Suitable for piping plan 52/53/54
- Capable of handling processes involving acids, bases, corrosive, volatile, toxic, and VOC emissions
- Widely used in the food and beverage, pharmaceutical, biomass energy, refining, petrochemical, chemical, pipeline transportation, steel, semiconductor industries



More Information for You

## Specific Features

### • Integral Drive Structure

Drop-proof springs are pre-installed on the drive structure for quicker repair, disassemble, and assemble

### • Unwetted Spring Design

Uncontaminated springs, less stress, no corrosion or hang-up condition

### • Dual Balance Structure

In the event of upset or reversal pressure, seal faces will NOT be blown open

### • VOC Leakage Control

Fitted with reservoir for seals pot, achieving near-zero VOC leakage while meeting environmental requirements

### • Monolithic Faces

NO distortion or deformation, provide superior wear & corrosion resistance

### • Self-Alignment Capability

Tolerates shaft's greater run-out

### • Highly Efficient Pumping Ring

Precision pumping ring for optimize buffer or barrier circulation; Improved seal MTBF (Mean Time Between Failure)

### • Common Connections for API PLAN 52/53/54

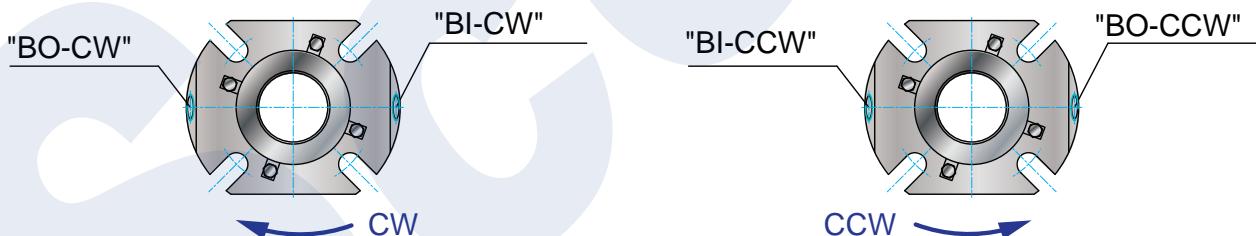
Conformed to standard API 682; optioned to operate in un-pressurized or pressurized system

## Material Selection

Stationary Ring	Carbon Graphite   Silicon Carbide   Tungsten Carbide
Rotary Ring	Silicon Carbide   Tungsten Carbide
Metal Parts / Material with contact liquid	SUS304   SUS316   SUS316L   Hastelloy C (C-276)   Titanium (Ti) Duplex   Other
Elastomeric O-rings	FFKM : Chemraz®   Kalrez®   SceniRAZ® ; Viton   NBR   Aflas(HTCR)   EPDM   PFT   Other
Gland Gasket	Glass-Filled PTFE   Non-Asbestos   Spiral-Wound
Spring	SUS316   Hastelloy C (C-276)   Inconel

NOTE : Direction of view is from the driver end of pump

## Guide to Piping Installation



FROM MOTOR SIDE VIEW

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