



## ■ STANDARD DIN/ANSI DUAL CARTRIDGE SEALS

PATENTED

# CARLIFE® 799™

## ESG ORIENTED! NEXT GENERATION SEALING - COMPOSITE MATERIALS IN PROCESS SIDE

### Product Description

CarLife® 799™ is an economical and versatile dual cartridge seal designed to meet the demands of highly corrosive and abrasive applications. It replaces precious metals with composite materials on the process side components, resulting in cost reduction and a minimized carbon footprint. Additionally, it contributes to the energy-saving and carbon reduction goals of ESG.

### Applications

- Highly corrosive, abrasive and erosive sealing applications in ANSI, ISO and DIN pumps
- DIN/ANSI standard rotating equipments, such as chemical process 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 biomass energy, refining, petrochemical, chemical, pipeline transportation, steel, semiconductor industries, and power plants.

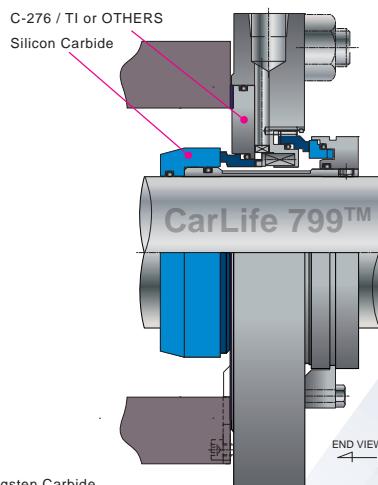
### Custom Design

- CarLife® 799™ is all in custom-designed. Please contact Scenic for more information.



More Information for You

MATERIAL :  
Silicon Carbide/Tungsten Carbide



## Specific Features

### • Dual Cartridge Seal

Conformed to DIN/ANSI and size customizable

### • Carbon reduction material

Eco-friendly concept, superseding expensive wet metal parts to Silicon Carbide or Tungsten Carbide

### • Great Resistance to Corrosion & High Impurities

SIC as material in process wet side components for superior corrosive and abrasive properties compared to precious metals.

### • Patented Baffle

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

### • 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

### • Highly Efficient Pumping Ring

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

### • 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

### • Integral Drive Structure

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

### • Special Gland Structure

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

### • VOC Leakage Control

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

### • Common Piping 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                            | Silicon Carbide   Tungsten Carbide   Diamond Coating SIC                                   |
| Rotary Ring                                | Silicon Carbide   Tungsten Carbide   Diamond Coating SIC                                   |
| Metal Parts / Material with contact liquid | SUS304   SUS316   Hastelloy C (C-276)   Silicon Carbide   Tungsten Carbide   Titanium (Ti) |
| 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   |

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