



■ 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.

Operating Capabilities

Temperature	-40 ~ 200°C (-40 ~ 392 °F)
Pressure	up to 300 psig (21 kg/cm ² G)
Surface Speed	up to 5000 fpm (25m/s)

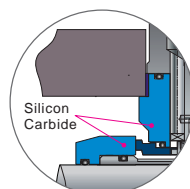
Recommended Piping Plans

Between Seals 52/53/54

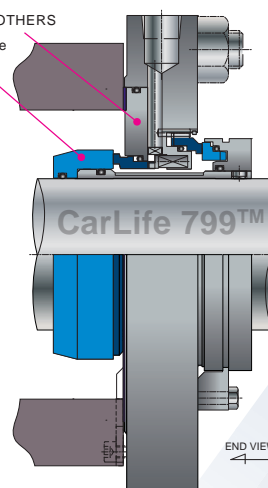
※ Can be customized and combined with multiple plan designs

Design Standards

- 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



C-276 / TI or OTHERS
Silicon Carbide



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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