

# Type Sever C

API 682 Mechanical Seals



API 682 Category 2 & 3 ,Type A, Arrangement 1



Item	Description
1.	Shaft sleeve
2.	Seat
3.	Seal face
4.	Housing
5.	O-ring
6.	Spring
7.	Drive collar
8.	Set screw
9.	Snap ring
10.	Hex Screw
11.	Assembly fixture
12.	Pin
13.	Bushing
14.	Cap Screw
15.	Seal face carrier

## PRODUCT DESCRIPTION

**Type Sever C** is a balanced, single-spring, pusher-type single cartridge seal, independent of shaft rotation direction. It is used in general and process industries, as well as oil refining applications. Designed to operate under extremely demanding conditions, its robust seal face and durable composite materials ensure extended service life in high-pressure, high-temperature, and abrasive environments. The single-coil spring design enables a soft start and prevents the blockage of moving parts. Available with or without an integrated pumping ring.

## FEATURES

- Easy-to-install single cartridge design
- Balanced
- Single springs
- Independent of shaft rotating direction
- Integrated pumping ring available

## MATERIALS

- Seal face: Composite, Carbon
- Stationary seat: TC, SiC
- Secondary seal: NBR, EPDM, FKM, FFKM
- Spring: 1.4310, 1.4571
- Metal Parts: 1.4004(316L)
- Optional materials on request

## APPLICATION

- Light Hydrocarbons
- Refinery & Petrochemical industry
- Oil & gas industry
- Power plant technology
- Process pumps

## LIMITING FACTORS

- Shaft diameter:  $D_1 = 25 \dots 80 \text{ mm}$
- Pressure:  $p_1 = 84 \text{ bar}$
- Temperature:  $t = -40^\circ \text{C} \dots +260^\circ \text{C}$
- Sliding velocity:  $V_g = 23 \text{ m/s}$

