

# SPI-M190

John Crane Type58UD/59UD Replacement  
Technical Data Sheet



## Features

Double seal  
Unbalanced  
Bi-directional  
Multiple springs  
PTFE wedge ring  
DIN 24960 Standard

SPI-M190 Auxiliary seal is rubber O-ring structure SPI-M190 Auxiliary seal is PTFE wedge ring structure

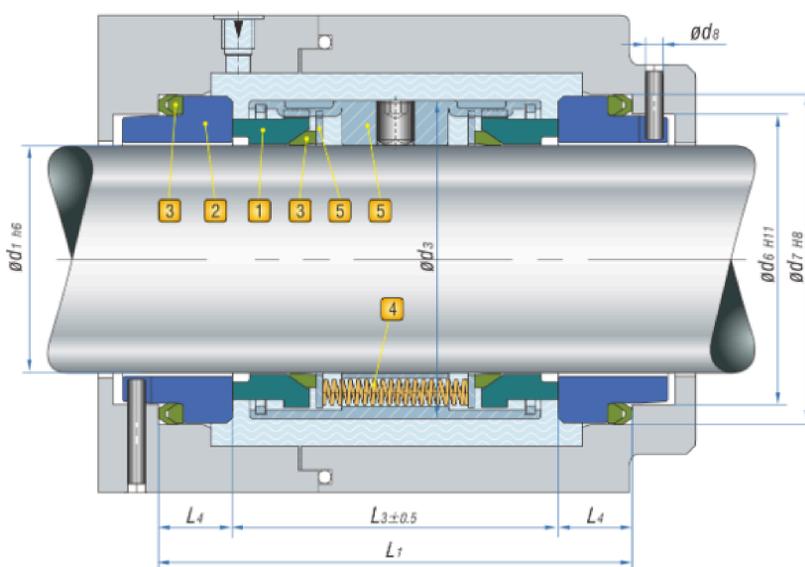
## Recommended Applications

Chemical industry  
Industry pumps  
Process Pumps  
Oil refining and petrochemical industry  
Other Rotating Equipment

## Operating range

**Shaft diameter:**  $d_1=30\text{...}100$  mm  
**Pressure:**  $p=0\text{...}0.5$ Mpa (72.5psi)  
**Temperature:**  $t = -29$  °C .. 260 °C(-20.2°F to 500°F)  
**Sliding velocity:**  $V_g \leq 25$ m/s (82ft/s)  
**Notes:** The range of pressure, temperature and sliding velocity is depend on seals combination materials

## Product Structure



## Combination Materials

### 1. Rotary Face

- Carbon graphite, resin impreg  $A_k$
- Reaction Bonded Sic RBSIC  $O$
- Sintered Silicon Carbide SSIC  $O_1$
- Tungsten Carbide.Ni-binder  $W$

### 2. Stationary Seat

- Reaction Bonded Sic RBSIC  $O$
- Sintered Silicon Carbide SSIC  $O_1$
- Tungsten Carbide.Ni-binder  $W$

### 3. Auxiliary Seal

- PTFE wedge ring
- O-ring
- Pure PTFE  $T$
- FKM  $V$
- EPDM  $E$
- FFKM  $K$

### 4. Spring

- GrNi-Steel (AIS1304)  $F$
- GrNiMo-Steel (AIS1316)  $G$
- Hastelloy C-4  $M$

### 5. Metal Parts

- GrNi-Steel (AIS1304)  $F$
- GrNiMo-Steel (AIS1316)  $G$
- Hastelloy C-4  $M$