

# SPI-M155

Multiple Spring Mechanical Seal  
Technical Data Sheet



## Features

Balanced seal  
spring built-in protected  
Complete and reliable in Drive  
Excellent versatility

SPI@ offer specific design seal for hygienic applications, Spring built-in protected, avoid direct touch with medium. Step pressing drive ensure high performance Seal material meets FDA requirements, apply to food hygiene and pharmacy industry.

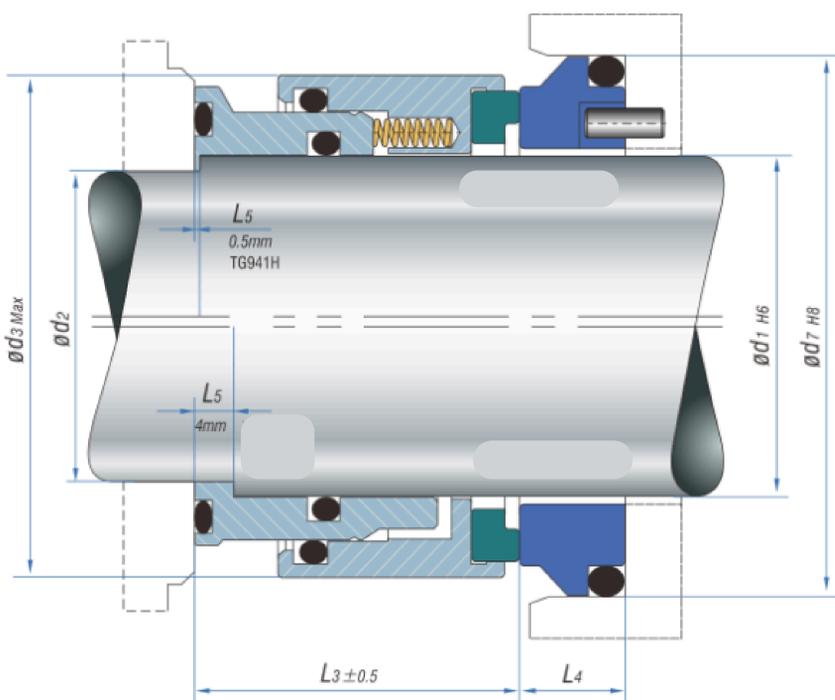
## Recommended Applications

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

## Operating range

**Shaft diameter:**  $d_1=28\text{...}35\text{mm}$   
**Pressure:**  $p=0\text{...}2.5\text{Mpa}$  (362.5psi)  
**Temperature:**  $t = -20\text{ }^\circ\text{C} \text{.. } 180\text{ }^\circ\text{C}$  (-4°F to 356°F)  
**Sliding velocity:**  $V_g \leq 15\text{m/s}$  (49.2ft/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  $A_k$
- Carbon graphite, antimony impreg  $A_D$
- 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

- Elastomers O-ring
- Fluorocarbon Rubber FKM  $V$
- Etylene Propylene Rubber EPDM  $E$
- Tetraflouroe Thylene Propylene Rubber EPDM  $X$
- Perfluorocarbon Rubber FFKM  $K$
- Pure PTFE(PTFE)  $T$

### 4. Spring

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

### 5. Metal Parts

- GrNi-Steel (AIS1304)  $F$
- GrNiMo-Steel (AIS1316)  $G$