

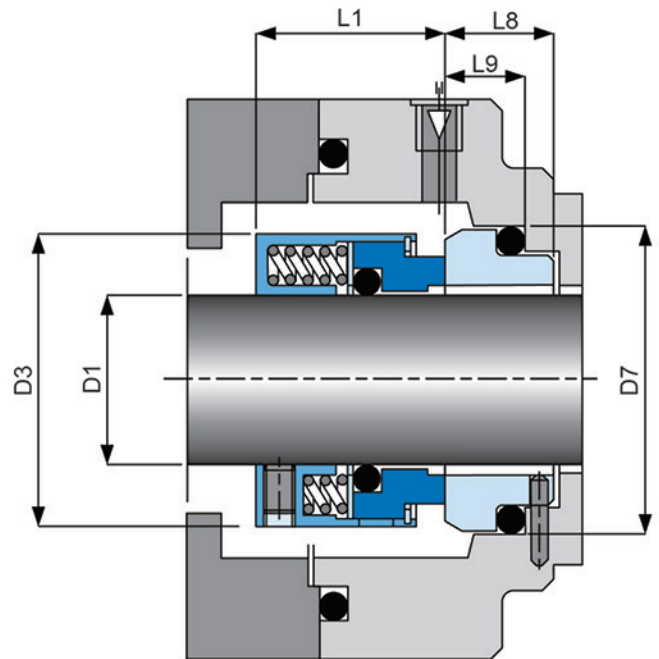


# Mechanical Seal Specification

Determine the best sealing solution for your applications.

## Elastomer O-Ring Seals

# TIB-400U



### Applications

- General pressure sealing duties, chemical, including processing, refinery and petrochemical plants.
- Oils, solvents, refrigerants, water and food processing, and other demanding applications.

### Standard Materials

- Metal Parts : SUS 316
- Spring : SUS 316
- Rotary Face : Silicon Carbide/Tungsten Carbide/Carbon
- Stationary Face : Silicon Carbide/Tungsten Carbide/Carbon
- Secondary Seals : Fluoroelastomer/Nitrile/Ethylene Propylene/PTFE

\*(Other configuration of materials also available on request)

### Operating Conditions

- Max. Operating Pressure : 14 kg/cm<sup>2</sup>\*  
(For Unbalanced)
- Temperature Range : -15 to 200 °
- Max. Rubbing Speed : 15 m/s

\*(Depend on combination of materials)

### Design Features/Benefits

- Multiple springs exert even closing force on seal faces. Ensure even loading of seal face and compensates for acceptable shaft misalignment.
- Versatile design using components common to other O-ring and wedge type seals. Allow easy repair, reduced spares holding, and simple conversion to balanced/unbalanced or wedge seal.
- Setting-length of spring can be held in position by build in set-ring.



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## Dimensional Data (mm.)

| D1  | D3  | D7  | L1   | L8   | L9   |
|-----|-----|-----|------|------|------|
| 14  | 24  | 25  | 23.0 | 17.5 | 10.0 |
| 16  | 26  | 27  | 23.0 | 17.5 | 10.0 |
| 18  | 32  | 33  | 24.0 | 19.5 | 11.5 |
| 20  | 34  | 35  | 24.0 | 19.5 | 11.5 |
| 22  | 36  | 37  | 24.0 | 19.5 | 11.5 |
| 24  | 38  | 39  | 26.7 | 19.5 | 11.5 |
| 25  | 39  | 40  | 27.0 | 19.5 | 11.5 |
| 28  | 42  | 43  | 30.0 | 19.5 | 11.5 |
| 30  | 44  | 45  | 30.5 | 19.5 | 11.5 |
| 32  | 46  | 48  | 30.5 | 19.5 | 11.5 |
| 33  | 47  | 48  | 30.5 | 19.5 | 11.5 |
| 35  | 49  | 50  | 30.5 | 19.5 | 11.5 |
| 38  | 54  | 56  | 32.0 | 22.0 | 14.0 |
| 40  | 56  | 58  | 32.0 | 22.0 | 14.0 |
| 43  | 59  | 61  | 32.0 | 22.0 | 14.0 |
| 45  | 61  | 63  | 32.0 | 22.0 | 14.0 |
| 48  | 64  | 66  | 32.0 | 22.0 | 14.0 |
| 50  | 66  | 70  | 34.0 | 23.0 | 15.0 |
| 53  | 69  | 73  | 34.0 | 23.0 | 15.0 |
| 55  | 71  | 75  | 34.0 | 23.0 | 15.0 |
| 58  | 78  | 78  | 39.0 | 23.0 | 15.0 |
| 60  | 80  | 80  | 39.0 | 23.0 | 15.0 |
| 63  | 83  | 83  | 39.0 | 23.0 | 15.0 |
| 65  | 85  | 85  | 39.0 | 23.0 | 15.0 |
| 68  | 88  | 90  | 39.0 | 26.0 | 18.0 |
| 70  | 90  | 92  | 45.5 | 26.0 | 18.0 |
| 75  | 95  | 97  | 45.5 | 26.0 | 18.0 |
| 80  | 104 | 105 | 45.0 | 26.2 | 18.2 |
| 85  | 109 | 110 | 45.0 | 26.2 | 18.2 |
| 90  | 114 | 115 | 50.0 | 26.2 | 18.2 |
| 95  | 119 | 120 | 50.0 | 25.2 | 17.2 |
| 100 | 124 | 125 | 50.0 | 25.2 | 17.2 |

\* Other sizes are available upon request.