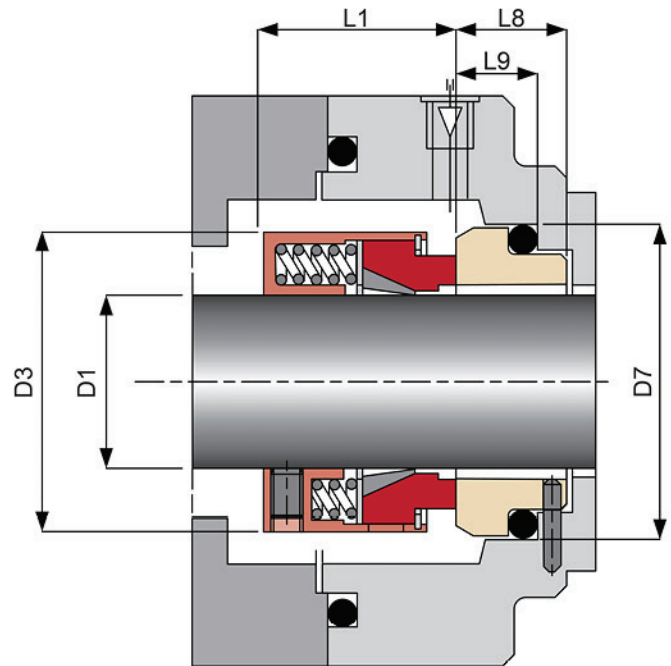


PTFE Wedge Seals

DS-400UW



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/cm²*
(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.



Mechanical Seal Specification

Engineered Sealing Expertise

Dimensional Data (mm.)

| Seal size (D1) (mm.) | 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.