



Teflon Bellow Seal (TBM 510 Series)

TBM 510



Teflon Bellow Seal TBM 510 Series are designed for extreme corrosive chemical applications including concentrated acids, salts, strong oxidising and reducing agents & chemically active organic compounds. All components which come in contact with the liquid to be sealed are made of chemically inert material. Metallic components, clamping ring and springs are located outside the media.

Applications : Extremely Corrosive & Chemical Applications..

TBM 510 Series : GFT & CFT faces of the seal is composite moulded with highly flexible PTFE bellows. Spring provided with cover if required for acidic fumes application.

Seal Components :

Seal Face :

GFT / Ceramic

CFT / Ceramic

Secondary Seal : PTFE Bellow

Metal Parts : SS 304, SS 316, Hastelloy-C

Seal Characteristics :

- Single Acting
- Outside Mounted
- Independent of Direction of Rotation

Operating Parameters :

Shaft Dia : 0.750 to 2.500 Inch

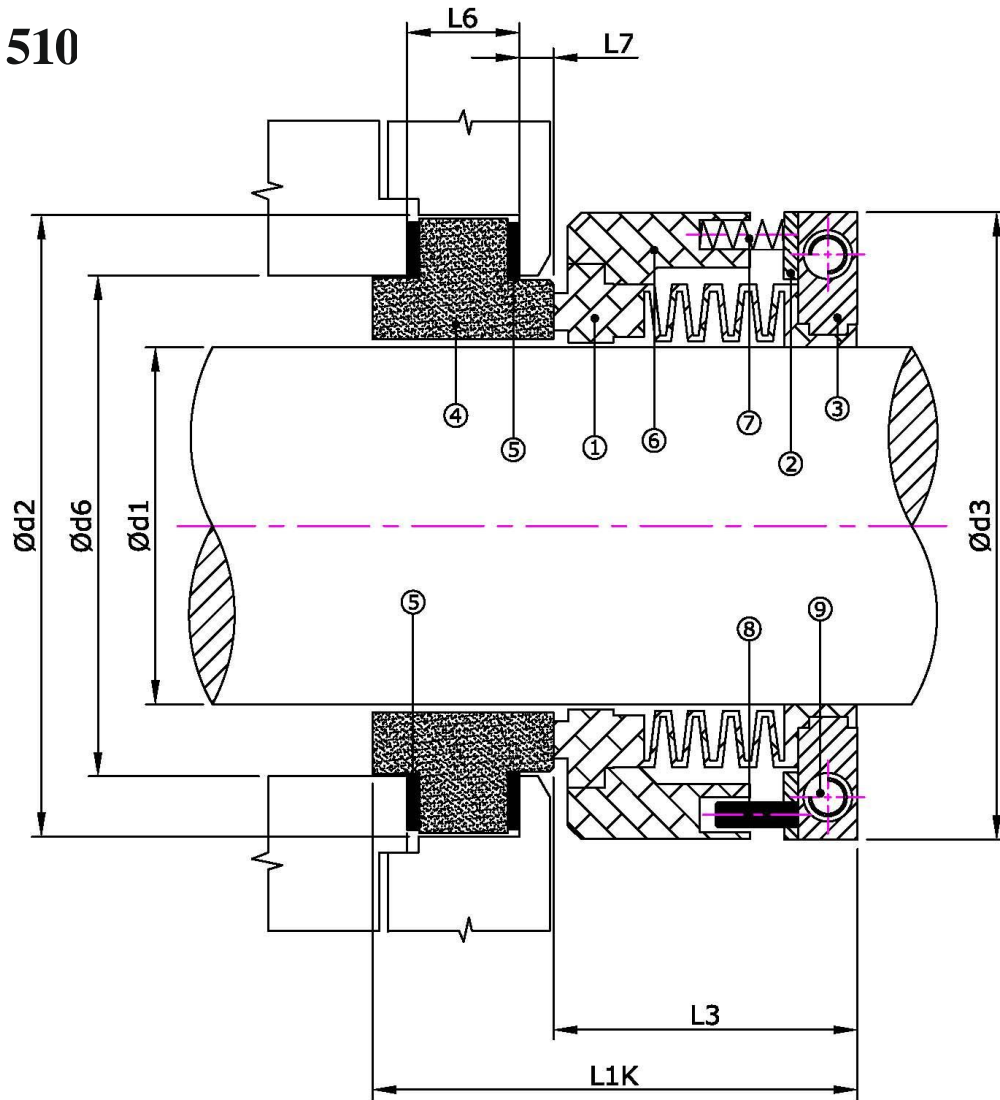
Pressure : 8 Bars (max)

Temperature : -45 to +200°C

Velocity : Up to 20 m/sec



TBM 510



| ITEM | DESCRIPTION |
|------|------------------|
| 1 | COMPOSITE BELLOW |
| 2 | THRUST RING |
| 3 | CLAMP RING |
| 4 | MATING RING |
| 5 | GASKET |
| 6 | SPRING HOLDER |
| 7 | SPRING |
| 8 | DRIVE PIN |
| 9 | ALLEN CAP SCREW |



TBM 510 DIMENIONS IN INCH

| SEAL SIZE | | d2 | d3 | d6 ^{H8} | L6 | L7 | L3 | L1K |
|---------------------|---------------------|-------|-------|------------------|------|-----|------|------|
| d1 ^{+0.00} | d1 ^{-0.05} | | | | | | | |
| Inch | mm | | | | | | | |
| 0.750 | 19.050 | 46.5 | 51.0 | 36.0 | 11.0 | 3.5 | 28.3 | 46.3 |
| 0.875 | 22.220 | 50.2 | 55.0 | 39.5 | 11.0 | 3.5 | 28.3 | 46.3 |
| 1.000 | 25.400 | 53.5 | 58.0 | 42.5 | 11.0 | 3.5 | 35.0 | 53.0 |
| 1.125 | 28.580 | 59.5 | 61.0 | 46.0 | 14.0 | 6.5 | 35.0 | 62.0 |
| 1.250 | 31.750 | 64.0 | 68.0 | 50.8 | 14.0 | 6.5 | 38.0 | 65.0 |
| 1.375 | 34.920 | 67.0 | 71.0 | 54.0 | 14.0 | 6.5 | 38.0 | 65.0 |
| 1.500 | 38.100 | 69.5 | 74.5 | 57.0 | 14.0 | 6.5 | 38.0 | 65.0 |
| 1.625 | 41.280 | 75.5 | 78.0 | 61.5 | 14.0 | 6.5 | 38.0 | 65.0 |
| 1.750 | 44.450 | 76.5 | 81.0 | 64.0 | 14.0 | 6.5 | 38.0 | 65.0 |
| 1.875 | 47.620 | 83.5 | 84.0 | 70.0 | 14.0 | 6.5 | 38.0 | 65.0 |
| 2.000 | 50.800 | 90.5 | 87.5 | 76.0 | 14.0 | 6.5 | 40.0 | 67.0 |
| 2.125 | 53.980 | 93.5 | 90.5 | 78.0 | 18.0 | 8.5 | 40.0 | 75.0 |
| 2.250 | 57.150 | 93.5 | 94.5 | 76.0 | 18.0 | 8.5 | 42.0 | 77.0 |
| 2.375 | 60.320 | 98.5 | 98.5 | 80.0 | 18.0 | 8.5 | 42.0 | 77.0 |
| 2.500 | 63.500 | 100.5 | 102.0 | 85.5 | 18.0 | 8.5 | 42.0 | 77.0 |