



Teflon Bellow Seal (TBR 520 Series)

TBR 520



Teflon Bellow Seal TBR 520 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 520 Series : Designed with replaceable seal face. The seal is positively driven by internal lugs on bellows which impart smooth drive to the face. Easy replacement of faces.

Seal Components :

Seal Face :

GFT / Ceramic

CFT / Ceramic

Silicon Carbide / Ceramic

Carbon / Ceramic

Silicon Carbide / Silicon Carbide

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

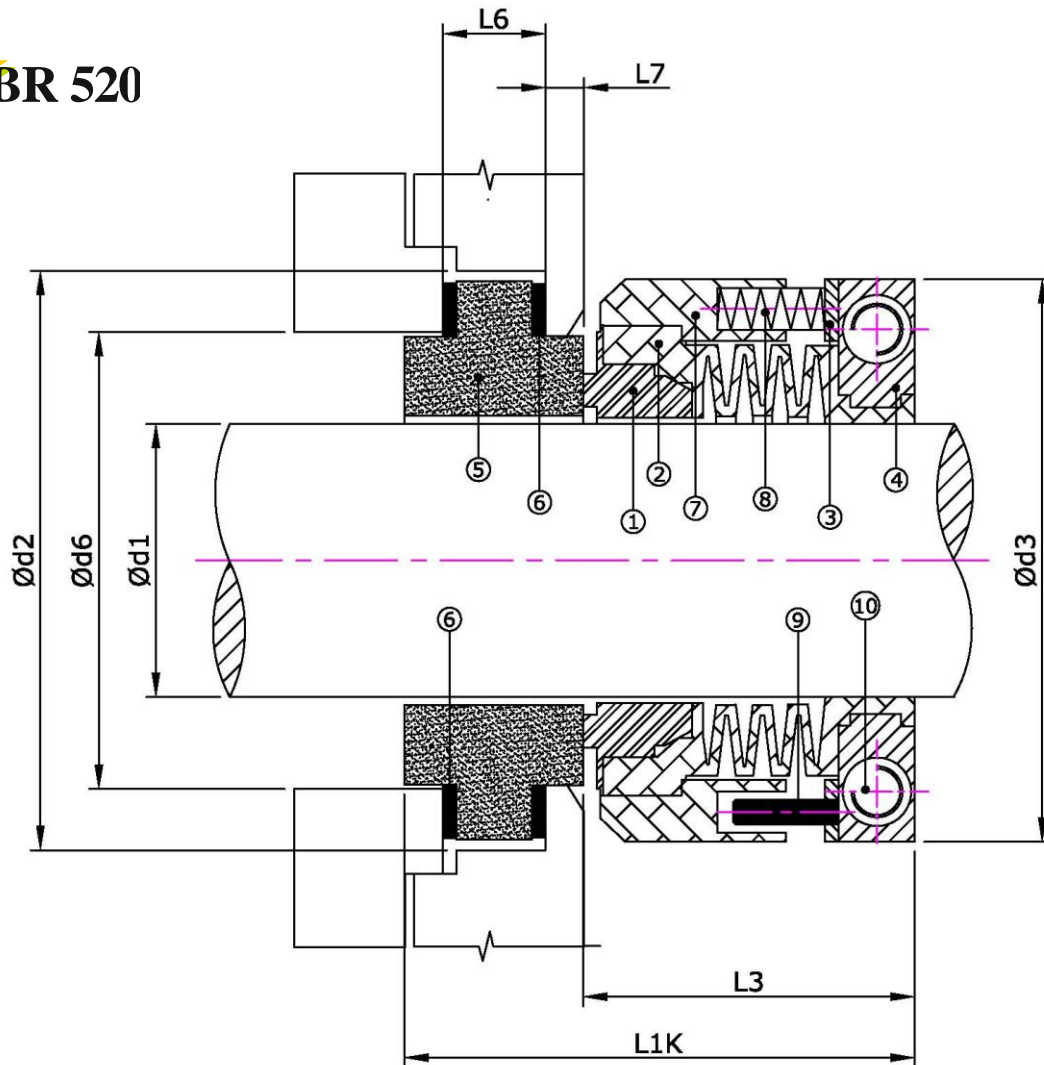
Pressure : 8 Bars (max)

Temperature : -45 to +200°C

Velocity : Up to 20 m/sec



TBR 520



| ITEM | DESCRIPTION |
|------|-----------------------|
| 1 | REPLACEABLE SEAL RING |
| 2 | BELLOW |
| 3 | THRUST RING |
| 4 | CLAMP RING |
| 5 | MATING RING |
| 6 | GASKET |
| 7 | SPRING HOLDER |
| 8 | SPRING |
| 9 | DRIVE PIN |
| 10 | ALLEN CAP SCREW |



TBR 520 DIMENIONS IN INCH

| SEAL SIZE | | d2 | d3 | d6 ^{H8} | L6 | L7 | L3 | L1K |
|-----------|----------------|-------|-------|------------------|------|-----|------|------|
| d1 | +0.00 -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. | 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 |