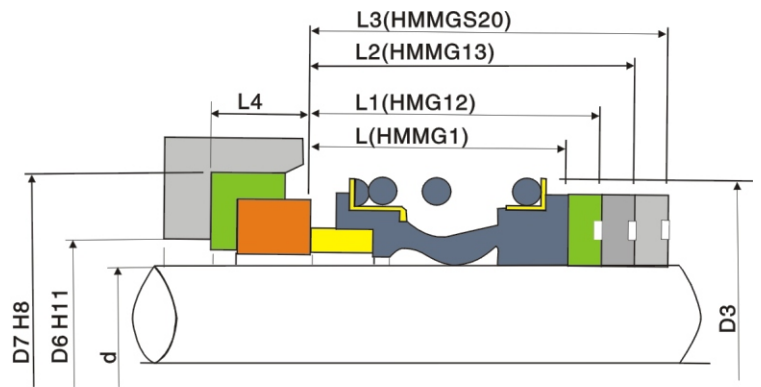
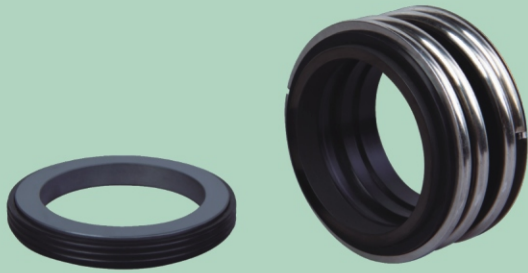


HMMG1/MG12/ MG13/MG1S20



Elastomer Bellows Shaft Seals

Operational Conditions:
 Temperature: -20°C to $+120^{\circ}\text{C}$
 Pressure: $\leq 1.2\text{MPa}$
 Speed: $\leq 10\text{m/s}$

Materials:
 Stationary Ring: V1, Q1, Q2, U2
 Rotary Ring: B, A, Q1, Q2
 Secondary Seal: P, E, V,
 Spring and Metal Parts: F, G

Seat Type:
 Standard: G60
 Alternative: G4, G6, G9, G50, G606
 Applications: Clean water,
 sewage water, oil and other
 moderately corrosive fluids.

| Seal size d (mm) | D3 | D6 | D7 | L | L1 | L2 | L3 | L4 |
|------------------|-------|-----|-----|------|------|------|------|------|
| 10 | 22.5 | 17 | 21 | 14.5 | 25.9 | 33.4 | 25.0 | 6.6 |
| 12 | 25.0 | 19 | 23 | 15.0 | 25.9 | 33.4 | 25.0 | 6.6 |
| 14 | 28.5 | 21 | 25 | 17.0 | 28.4 | 33.4 | 25.0 | 6.6 |
| 15 | 28.5 | - | - | 17.0 | 28.4 | 33.4 | 25.0 | - |
| 16 | 28.5 | 23 | 27 | 17.0 | 28.4 | 33.4 | 25.0 | 6.6 |
| 18 | 32.0 | 27 | 33 | 19.5 | 30.0 | 37.5 | 25.0 | 7.5 |
| 19 | 37.0 | - | - | 21.5 | 30.0 | 37.5 | 25.0 | - |
| 20 | 37.0 | 29 | 35 | 21.5 | 30.0 | 37.5 | 25.0 | 7.5 |
| 22 | 37.0 | 31 | 37 | 21.5 | 30.0 | 37.5 | 25.0 | 7.5 |
| 24 | 42.5 | 33 | 39 | 22.5 | 32.5 | 42.5 | 25.0 | 7.5 |
| 25 | 42.5 | 34 | 40 | 23.0 | 32.5 | 42.5 | 25.0 | 7.5 |
| 28 | 49.0 | 37 | 43 | 26.5 | 35.0 | 42.5 | 33.0 | 7.5 |
| 30 | 49.0 | 39 | 45 | 26.5 | 35.0 | 42.5 | 33.0 | 7.5 |
| 32 | 53.5 | 42 | 48 | 27.5 | 35.0 | 47.5 | 33.0 | 7.5 |
| 33 | 53.5 | 42 | 48 | 27.5 | 35.0 | 47.5 | 33.0 | 7.5 |
| 35 | 57.0 | 44 | 50 | 28.5 | 35.0 | 47.5 | 33.0 | 7.5 |
| 38 | 59.0 | 49 | 56 | 30.0 | 35.0 | 46.0 | 33.0 | 9.0 |
| 40 | 62.0 | 51 | 58 | 30.0 | 36.0 | 46.0 | 33.0 | 9.0 |
| 42 | 65.5 | - | - | 30.0 | 36.0 | 51.0 | 41.0 | - |
| 43 | 65.5 | 54 | 61 | 30.0 | 36.0 | 51.0 | 41.0 | 9.0 |
| 45 | 68.0 | 56 | 63 | 30.0 | 36.0 | 51.0 | 41.0 | 9.0 |
| 48 | 70.5 | 59 | 66 | 30.5 | 36.0 | 51.0 | 41.0 | 9.0 |
| 50 | 74.0 | 62 | 70 | 30.5 | 36.0 | 50.5 | 41.0 | 9.5 |
| 53 | 78.5 | 65 | 73 | 33.0 | 38.0 | 59.0 | 41.0 | 11.0 |
| 55 | 81.0 | 67 | 75 | 35.0 | 36.5 | 59.0 | 41.0 | 11.0 |
| 58 | 85.5 | 70 | 78 | 37.0 | 36.5 | 59.0 | 41.0 | 11.0 |
| 60 | 88.5 | 72 | 80 | 38.0 | 41.5 | 59.0 | 41.0 | 11.0 |
| 65 | 93.5 | 77 | 85 | 40.0 | 41.5 | 69.0 | 49.0 | 11.0 |
| 68 | 98.5 | 81 | 90 | 40.0 | 41.5 | 68.7 | 49.0 | 11.3 |
| 70 | 99.5 | 83 | 92 | 40.0 | 41.2 | 68.7 | 49.0 | 11.3 |
| 75 | 107.0 | 88 | 97 | 40.0 | 48.7 | 68.7 | 52.0 | 11.3 |
| 80 | 112.0 | 95 | 105 | 40.0 | 48.0 | 78.0 | 56.0 | 12.0 |
| 85 | 120.0 | 100 | 110 | 41.0 | 48.0 | 76.0 | 58.0 | 14.0 |
| 90 | 127.0 | 105 | 115 | 45.0 | 51.0 | 76.0 | 59.0 | 14.0 |
| 95 | 132.0 | 110 | 120 | 46.0 | 51.0 | 76.0 | 59.0 | 14.0 |
| 100 | 137.0 | 115 | 125 | 47.0 | 51.0 | 76.0 | 62.0 | 14.0 |