



LINEPROOF[®]
ENGINEERING INDIA PVT. LTD.



SERIES LP89HN



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SERIES LP89HN

Mechanical Seals / Mechanical Seals for Pump / Pusher Mechanical Seal



STANDARD STYLE

FACE MATERIAL

Carbon graphite
Silicon Carbide, Aluminium oxide

METAL PARTS

SS 316, SS 304, Duplex

SECONDARY SEAL

EPDM, NBR, FKM, FFKM

APPLICATION

- Process industry
- Oil and gas industry
- Refining technology
- Petrochemical industry
- Chemical industry
- Power plant technology
- Pulp and paper industry
- Food and beverage industry
- Hot water applications
- Light hydrocarbons
- Boiler feed pumps
- Process pumps

SEAL CHARACTERISTICS

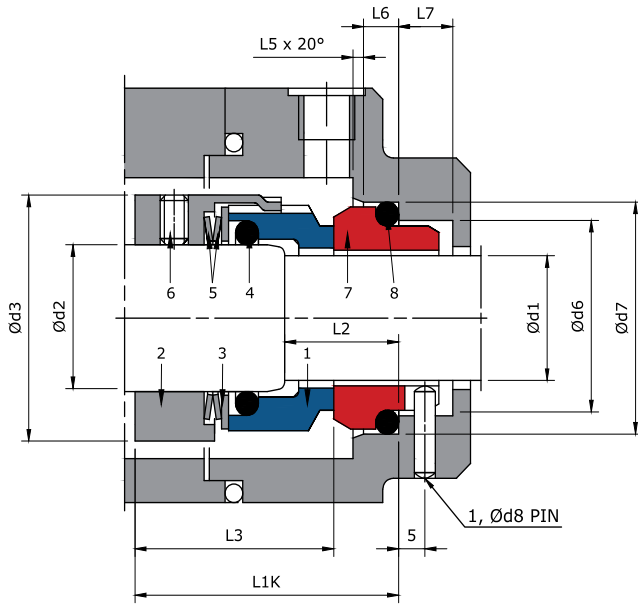
- For stepped shafts
- Single seal
- Balanced
- Super-Sinus-spring or multiple springs rotating
- Independent of direction of rotation
- Integrated pumping device available
- Variant with seat cooling available

OPERATING LIMIT

Shaft Diameter d1 : 14mm...100mm
Pressure p : 10 bar (max)
Temperature t : -50 + 220°C
Velocity v : 20 m/sec



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| PART NO. | DESCRIPTION |
|----------|--------------|
| 1 | SEAL FACE |
| 2 | DRIVE COLLAR |
| 3 | THRUST RING |
| 4 | O-RING |
| 5 | SPRING |
| 6 | SET SCREW |
| 7 | SEAT |
| 8 | O-RING |

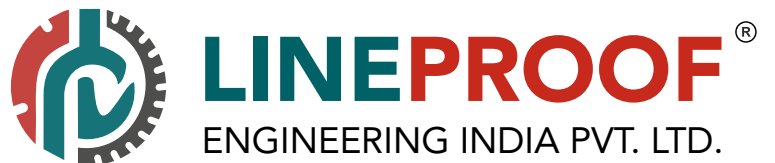
| SEAL SIZE $d1^{+0.00/-0.05}$ mm | d2 | d3 | d6 ^{H11} | d7 ^{H8} | d8 | L2 | L3 | L5 | L6 | L7 | L1K ^{±0.5} |
|---------------------------------------|-------|-------|-------------------|------------------|-----|------|------|-----|-----|-----|---------------------|
| 14.0 | 18.0 | 33.0 | 21.0 | 25.0 | 3.0 | 18.0 | 32.5 | 1.5 | 4.0 | 8.5 | 42.5 |
| 16.0 | 20.0 | 35.0 | 23.0 | 27.0 | 3.0 | 18.0 | 32.5 | 1.5 | 4.0 | 8.5 | 42.5 |
| 18.0 | 22.0 | 37.0 | 27.0 | 33.0 | 3.0 | 20.0 | 32.5 | 2.0 | 5.0 | 9.0 | 45.0 |
| 20.0 | 24.0 | 39.0 | 29.0 | 35.0 | 3.0 | 20.0 | 32.5 | 2.0 | 5.0 | 9.0 | 45.0 |
| 22.0 | 26.0 | 41.0 | 31.0 | 37.0 | 3.0 | 20.0 | 32.5 | 2.0 | 5.0 | 9.0 | 45.0 |
| 24.0 | 28.0 | 43.0 | 33.0 | 39.0 | 3.0 | 20.0 | 36.0 | 2.0 | 5.0 | 9.0 | 47.5 |
| 25.0 | 30.0 | 45.0 | 34.0 | 40.0 | 3.0 | 20.0 | 36.0 | 2.0 | 5.0 | 9.0 | 47.5 |
| 28.0 | 33.0 | 48.0 | 37.0 | 43.0 | 3.0 | 20.0 | 38.5 | 2.0 | 5.0 | 9.0 | 50.0 |
| 30.0 | 35.0 | 50.0 | 39.0 | 45.0 | 3.0 | 20.0 | 38.5 | 2.0 | 5.0 | 9.0 | 50.0 |
| 32.0 | 38.0 | 55.0 | 42.0 | 48.0 | 3.0 | 20.0 | 38.5 | 2.0 | 5.0 | 9.0 | 50.0 |
| 33.0 | 38.0 | 55.0 | 42.0 | 48.0 | 3.0 | 20.0 | 38.5 | 2.0 | 5.0 | 9.0 | 50.0 |
| 35.0 | 40.0 | 57.0 | 44.0 | 50.0 | 3.0 | 20.0 | 38.5 | 2.0 | 5.0 | 9.0 | 50.0 |
| 38.0 | 43.0 | 60.0 | 49.0 | 56.0 | 4.0 | 23.0 | 38.5 | 2.0 | 6.0 | 9.0 | 52.5 |
| 40.0 | 45.0 | 62.0 | 51.0 | 58.0 | 4.0 | 23.0 | 38.5 | 2.0 | 6.0 | 9.0 | 52.5 |
| 43.0 | 48.0 | 65.0 | 54.0 | 61.0 | 4.0 | 23.0 | 38.5 | 2.0 | 6.0 | 9.0 | 52.5 |
| 45.0 | 50.0 | 67.0 | 56.0 | 63.0 | 4.0 | 23.0 | 38.5 | 2.0 | 6.0 | 9.0 | 52.5 |
| 48.0 | 53.0 | 70.0 | 59.0 | 66.0 | 4.0 | 23.0 | 38.5 | 2.0 | 6.0 | 9.0 | 52.5 |
| 50.0 | 55.0 | 72.0 | 62.0 | 70.0 | 4.0 | 25.0 | 42.5 | 2.5 | 6.0 | 9.0 | 57.5 |
| 53.0 | 58.0 | 79.0 | 65.0 | 73.0 | 4.0 | 25.0 | 42.5 | 2.5 | 6.0 | 9.0 | 57.5 |
| 55.0 | 60.0 | 81.0 | 67.0 | 75.0 | 4.0 | 25.0 | 42.5 | 2.5 | 6.0 | 9.0 | 57.5 |
| 58.0 | 63.0 | 84.0 | 70.0 | 78.0 | 4.0 | 25.0 | 47.5 | 2.5 | 6.0 | 9.0 | 62.5 |
| 60.0 | 65.0 | 86.0 | 72.0 | 80.0 | 4.0 | 25.0 | 47.5 | 2.5 | 6.0 | 9.0 | 62.5 |
| 63.0 | 68.0 | 89.0 | 75.0 | 83.0 | 4.0 | 25.0 | 47.5 | 2.5 | 6.0 | 9.0 | 62.5 |
| 65.0 | 70.0 | 91.0 | 77.0 | 85.0 | 4.0 | 25.0 | 47.5 | 2.5 | 6.0 | 9.0 | 62.5 |
| 70.0 | 75.0 | 99.0 | 83.0 | 92.0 | 4.0 | 28.0 | 52.0 | 2.5 | 7.0 | 9.0 | 70.0 |
| 75.0 | 80.0 | 104.0 | 88.0 | 97.0 | 4.0 | 28.0 | 52.0 | 2.5 | 7.0 | 9.0 | 70.0 |
| 80.0 | 85.0 | 109.0 | 95.0 | 105.0 | 4.0 | 28.0 | 51.8 | 3.0 | 7.0 | 9.0 | 70.0 |
| 85.0 | 90.0 | 114.0 | 100.0 | 110.0 | 4.0 | 28.0 | 56.8 | 3.0 | 7.0 | 9.0 | 75.0 |
| 90.0 | 95.0 | 119.0 | 105.0 | 115.0 | 4.0 | 28.0 | 56.8 | 3.0 | 7.0 | 9.0 | 75.0 |
| 95.0 | 100.0 | 124.0 | 110.0 | 120.0 | 4.0 | 28.0 | 57.8 | 3.0 | 7.0 | 9.0 | 75.0 |
| 100.0 | 105.0 | 129.0 | 115.0 | 125.0 | 4.0 | 28.0 | 57.8 | 3.0 | 7.0 | 9.0 | 75.0 |



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