



**LINEPROOF**<sup>®</sup>  
ENGINEERING INDIA PVT. LTD.



## **SERIES LPM322**



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## SERIES LPM322

### Mechanical Seal / Mechanical Seal For Pump / Standard Cartridge Seals Mechanical Seal



#### STANDARD STYLE

#### FACE MATERIAL

Carbon graphite, Silicon carbide,  
Tungsten carbide

#### METAL PARTS

SS 316, SS 304, Duplex  
Bellows: Inconel 718

#### SECONDARY SEAL

FPM, EPDM, FFKM

#### SEAL CHARACTERISTICS

- Double seal
- Mtex-DN: API Plan 52 (53/54)
- Mtex9-DN: API Plan 53/54
- Cartridge
- Balanced
- Independent of direction of rotation
- Metal bellows
- Stationary O-Ring
- Pumping device independent of direction of rotation

#### APPLICATION

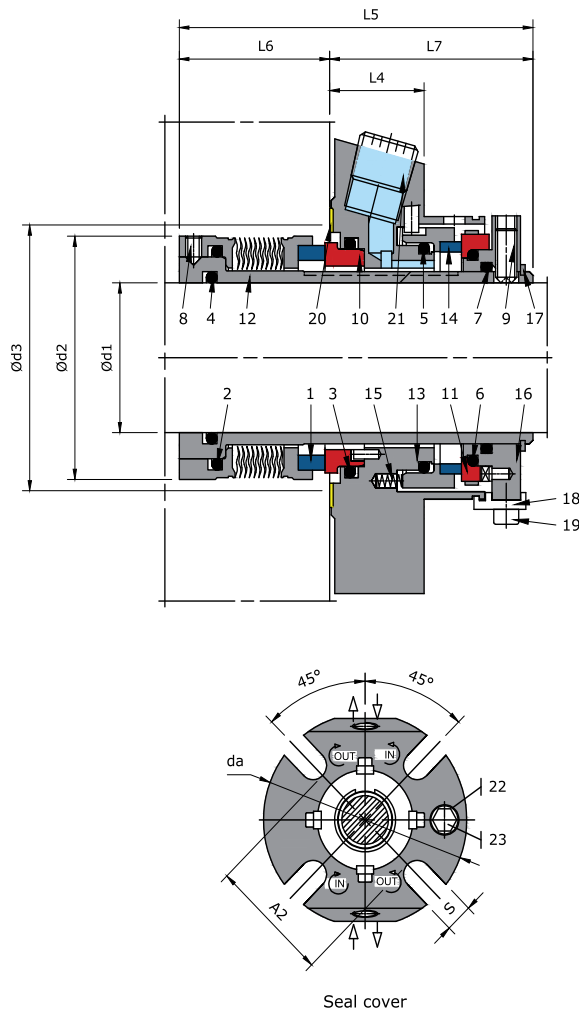
- Process industry
- Chemical industry
- Hot media
- Cold media
- Highly viscous media
- Pumps
- Special rotating equipment

#### OPERATING LIMIT

|                |    |               |
|----------------|----|---------------|
| Shaft Diameter | d1 | : 25mm...80mm |
| Pressure       | p  | : 25 bar      |
| Temperature    | t  | : -40 +220°C  |
| Velocity       | v  | : 20 m/sec    |



# SERIES LPM322



| PART NO. | DESCRIPTION      |
|----------|------------------|
| 1        | BELLOW UNIT      |
| 2        | O-RING           |
| 3        | O-RING           |
| 4        | O-RING           |
| 5        | O-RING           |
| 6        | O-RING           |
| 7        | O-RING           |
| 8        | SET SCREW        |
| 9        | SET SCREW        |
| 10       | SEAT             |
| 11       | SEAT             |
| 12       | SHAFT SLEEVE     |
| 13       | HOUSING          |
| 14       | SEAL FACE        |
| 15       | SPRING           |
| 16       | DRIVE COLLAR     |
| 17       | SNAP RING        |
| 18       | ASSEMBLY FIXTURE |
| 19       | HSH CAP SCREW    |
| 20       | GASKET           |
| 21       | SCREW PLUG       |

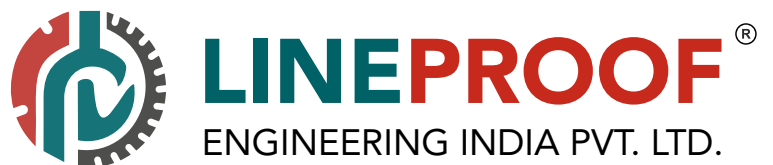
| SEAL SIZE<br>+0.00<br>d1 <sup>+0.05</sup> | d2    | d3 <sub>min.</sub> | d3 <sub>max.</sub> | L4   | L5    | L6   | L7   | da    | A2    | S    |
|---|-------|--------------------|--------------------|------|-------|------|------|-------|-------|------|
| mm  |       |                    |                    |      |       |      |      |       |       |      |
| 25.0                                      | 45.0  | 47.0               | 51.0               | 25.4 | 87.0  | 33.6 | 53.4 | 105.0 | 62.0  | 13.2 |
| 30.0                                      | 49.4  | 52.0               | 56.0               | 25.4 | 86.5  | 33.1 | 53.4 | 105.0 | 67.0  | 13.2 |
| 32.0                                      | 52.3  | 54.5               | 57.0               | 25.4 | 86.5  | 33.1 | 53.4 | 108.0 | 70.0  | 13.2 |
| 33.0                                      | 52.3  | 54.5               | 57.0               | 25.4 | 86.5  | 33.1 | 53.4 | 108.0 | 70.0  | 13.2 |
| 35.0                                      | 54.8  | 58.0               | 61.5               | 25.4 | 86.5  | 33.1 | 53.4 | 113.0 | 72.0  | 13.2 |
| 38.0                                      | 57.5  | 60.0               | 66.0               | 25.4 | 86.5  | 33.1 | 53.4 | 123.0 | 75.0  | 14.0 |
| 40.0                                      | 58.8  | 62.0               | 68.0               | 25.4 | 86.3  | 32.9 | 53.4 | 123.0 | 77.0  | 14.2 |
| 43.0                                      | 61.9  | 64.5               | 70.5               | 25.4 | 86.5  | 33.1 | 53.4 | 133.0 | 80.0  | 14.2 |
| 45.0                                      | 65.0  | 68.5               | 73.0               | 25.4 | 86.5  | 33.1 | 53.4 | 138.0 | 82.0  | 14.2 |
| 48.0                                      | 68.4  | 71.0               | 75.0               | 25.4 | 86.8  | 33.4 | 53.4 | 138.0 | 85.0  | 14.2 |
| 50.0                                      | 70.0  | 73.0               | 78.0               | 25.4 | 87.2  | 33.8 | 53.4 | 148.0 | 87.0  | 14.2 |
| 53.0                                      | 71.9  | 75.0               | 87.0               | 25.4 | 87.4  | 34.0 | 53.4 | 148.0 | 97.0  | 18.0 |
| 55.0                                      | 74.6  | 77.0               | 83.0               | 25.4 | 87.0  | 33.6 | 53.4 | 148.0 | 92.0  | 18.0 |
| 60.0                                      | 83.9  | 87.0               | 91.0               | 25.4 | 88.2  | 34.8 | 53.4 | 157.0 | 102.0 | 18.0 |
| 65.0                                      | 87.5  | 90.0               | 98.5               | 25.4 | 88.1  | 34.7 | 53.4 | 163.0 | 109.3 | 18.0 |
| 70.0                                      | 93.0  | 98.0               | 108.0              | 25.4 | 89.6  | 36.2 | 53.4 | 178.0 | 118.3 | 18.0 |
| 75.0                                      | 96.8  | 101.6              | 118.0              | 28.0 | 107.4 | 43.5 | 63.9 | 190.0 | 129.0 | 18.0 |
| 80.0                                      | 104.7 | 108.0              | 124.0              | 28.0 | 106.8 | 42.9 | 63.9 | 195.0 | 135.0 | 18.0 |




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