



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



## **SERIES LPE WD500**



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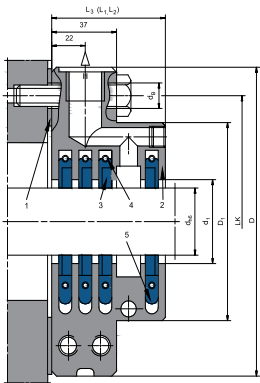


## SERIES LPE WD500

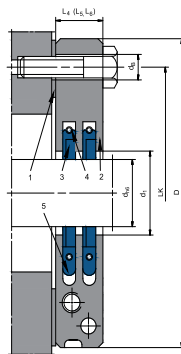
### Carbon Floating Ring Seals / Shaft Seals Mechanical Seal



LPE-500-WDA for applications involving condensate formation to enable directed throwing off to the outside of the housing (not for solids containing gases).



LPE-500-WDK with short design (for clean media, not for solids containing gases).



#### STANDARD STYLE

#### FACE MATERIAL

Carbon graphite

#### METAL PARTS

SS 316, SS 304, Duplex

#### APPLICATION

- Chemical industry
- Waste incineration and removal industry
- Pulp and paper industry
- Lime, cement and gypsum industry
- Mining industry
- Water and waste water technology
- Gases
- Fumes and exhaust, solids containing, flammable (ATEX), acid containing and toxic gases
- (Solids containing) steams/liquid mist
- Oil mist/penetrating oil
- Water
- Medium-sized and large fans/blowers
- Bearing seals (gear box, motors)
- Steam turbines
- Mixers, agitators, dryers
- Mills (ball, hammer, beater mills)
- Centrifuges

#### OPERATING LIMIT

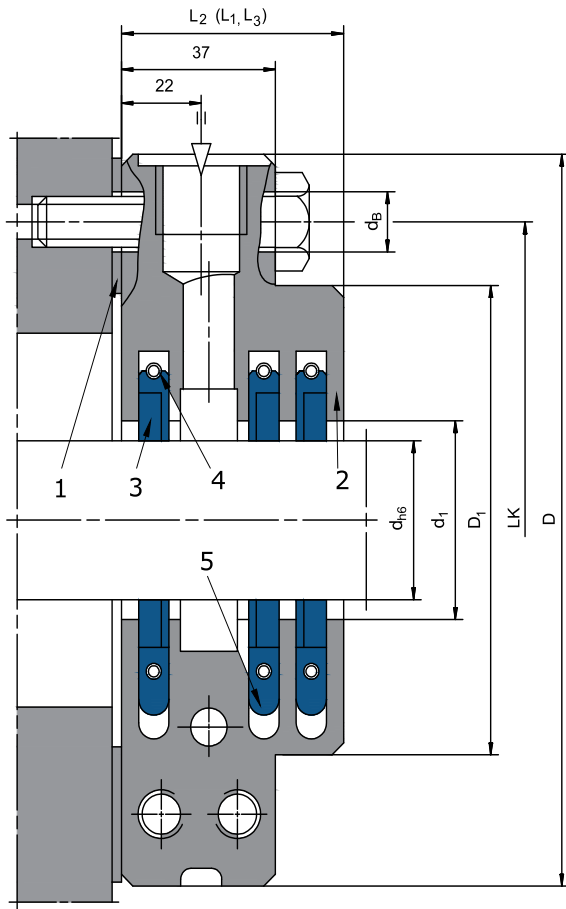
Shaft Diameter dh6 : 45mm...300mm  
 Pressure p : 3 bar (max)  
 Temperature t : -120 + 500°C  
 Velocity v : 40 m/sec

#### SEAL CHARACTERISTICS

- Multi-part seal rings, overlapped mortised with gas tight joints (adjusting)
- Split housing design
- Lowest possible operation gap – lowest leakage
- Dry running
- Self-adjusting seal rings
- Seal rings bear radial shaft movements
- Compensates axial shaft movements
- Short axial installation length
- No sealing components mounted on the shaft and hence no additional shaft vibrations



# SERIES LPE WD500



PART NO.	DESCRIPTION
1	FLAT SEAL
2	HOUSING, 2 PIECE
3	SEAL RING
4	TENSION SPRING
5	DETENT

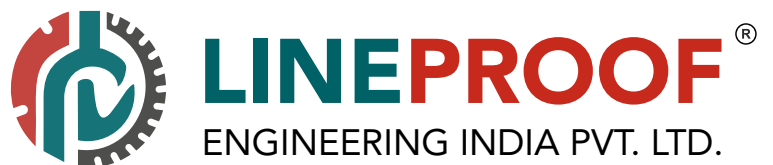
For all types						For types WDS, WDA				For Type WDK			
Number of seal rings						2	3	4	n x ØdB	2	3	4	n x ØdB
dh6	d1	D	D1	dB	LK	L1	L2	L3	n x ØdB	L4	L5	L6	n x ØdB
40.0	50.0	210.0	140.0	15.0	175.0	47.0	59.0	71.0	4.0	28.0	40.0	52.0	4.0
50.0	58.0	220.0	150.0	15.0	185.0	47.0	59.0	71.0	4.0	28.0	40.0	52.0	4.0
60.0	68.0	230.0	160.0	15.0	195.0	47.0	59.0	71.0	4.0	28.0	40.0	52.0	4.0
70.0	78.0	240.0	170.0	15.0	205.0	47.0	59.0	71.0	4.0	28.0	40.0	52.0	4.0
80.0	90.0	260.0	180.0	15.0	220.0	47.0	59.0	71.0	4.0	28.0	40.0	52.0	4.0
90.0	100.0	270.0	190.0	15.0	230.0	47.0	59.0	71.0	4.0	28.0	40.0	52.0	4.0
100.0	110.0	280.0	200.0	15.0	240.0	51.0	65.0	79.0	6.0	32.0	46.0	60.0	6.0
110.0	120.0	290.0	210.0	15.0	250.0	51.0	65.0	79.0	6.0	32.0	46.0	60.0	6.0
120.0	130.0	300.0	220.0	15.0	260.0	51.0	65.0	79.0	6.0	32.0	46.0	60.0	6.0
130.0	140.0	310.0	230.0	15.0	270.0	51.0	65.0	79.0	6.0	32.0	46.0	60.0	6.0
140.0	150.0	320.0	240.0	15.0	280.0	51.0	65.0	79.0	6.0	32.0	46.0	60.0	6.0
150.0	160.0	330.0	250.0	15.0	290.0	51.0	65.0	79.0	6.0	32.0	46.0	60.0	6.0
160.0	170.0	340.0	260.0	15.0	300.0	51.0	65.0	79.0	6.0	32.0	46.0	60.0	6.0
170.0	180.0	350.0	270.0	19.0	310.0	51.0	65.0	79.0	6.0	32.0	46.0	60.0	6.0
180.0	190.0	360.0	280.0	19.0	320.0	51.0	65.0	79.0	6.0	32.0	46.0	60.0	6.0
190.0	200.0	370.0	290.0	19.0	330.0	51.0	65.0	79.0	6.0	32.0	46.0	60.0	6.0
200.0	210.0	420.0	310.0	19.0	365.0	55.0	71.0	87.0	8.0	36.0	52.0	68.0	8.0
220.0	230.0	440.0	330.0	19.0	385.0	55.0	71.0	87.0	8.0	36.0	52.0	68.0	8.0
240.0	250.0	460.0	350.0	19.0	405.0	55.0	71.0	87.0	8.0	36.0	52.0	68.0	8.0
260.0	270.0	480.0	370.0	19.0	425.0	55.0	71.0	87.0	8.0	36.0	52.0	68.0	8.0
280.0	290.0	500.0	390.0	19.0	445.0	55.0	71.0	87.0	8.0	36.0	52.0	68.0	8.0
300.0	310.0	520.0	410.0	19.0	465.0	55.0	71.0	87.0	8.0	36.0	52.0	68.0	8.0




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