



LINEPROOF[®]
ENGINEERING INDIA PVT. LTD.



SERIES LP20 & LP21



we are loyal to our customers...

www.lineproofengg.com

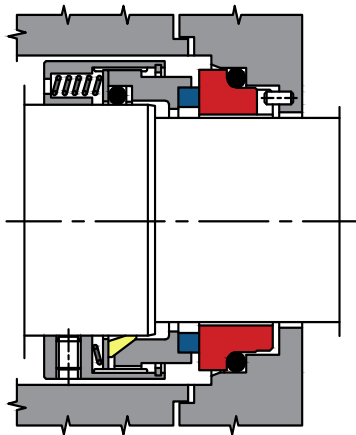


SERIES LP20 & LP21

Balanced Seal

Single Acting, Independent of Direction of Rotation

Mechanical Seal



STANDARD STYLE

FACE MATERIAL

Carbon, ceramic,
Silicon Carbide, Tungsten Carbide, Lecrolloy

METAL PARTS

SS 316, SS 304,
Hastelloy-C, Monel, Alloy-20

SECONDARY SEAL

FKM, FFKM, EPDM, NBR, PTFE.

APPLICATION

Petrochemicals
Petroleum refinery
General chemicals
Light hydrocarbons

SEAL CHARACTERISTICS

Single acting
Balanced
Inside mounted
Independent of direction of rotation
To DIN 24960

OPERATING LIMIT

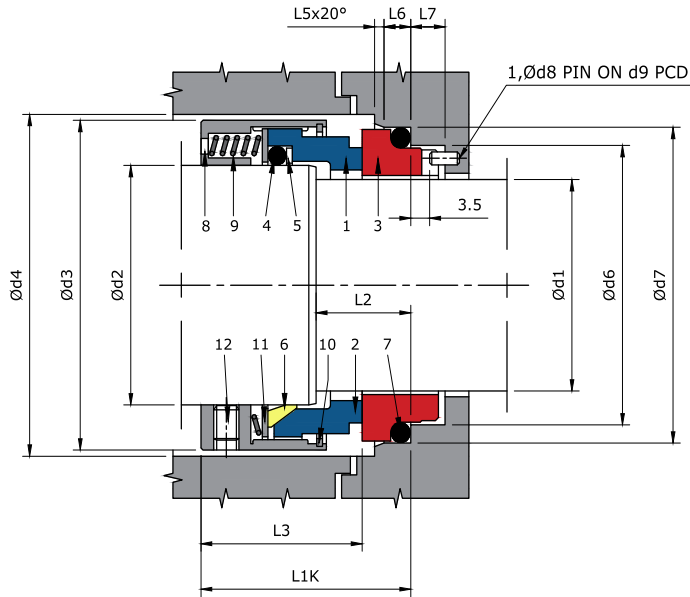
Shaft Diameter	d1 : 14 100 mm
Pressure	p : 35 bar (max)
Temperature	t : -60 ... +200°C
Velocity	v : 20 m/sec

SHRINK FIT ARRANGMENT

Temperature Limits:	
SS 304	110°C
SS 316	110°C
Hastelloy-C	175°C
Carpenter - 42	350°C



SERIES LP20 & LP21



PART NO.	DESCRIPTION
1	SEAL RING
2	SEAL RING
3	MATING RING
4	O-RING
5	BACK-UP RING
6	WEDGE
7	O-RING
8	RETAINER
9	SPRING
10	SNAP RING
11	THRUST RING
12	GRUB SCREW

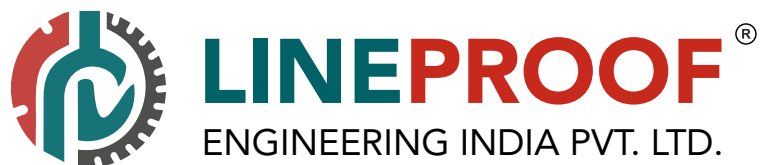
SEAL SIZE $d1^{+0.00/-0.05}$ mm	$d2^{h6}$	$d3$	$d4$	$d6^{H11}$	$d7^{H8}$	$d8$	$d9$	L2	L3	L5	L6	L7	$L1K^{±0.05}$
14.0	18.0	32.0	34.0	21.0	25.0	3.0	18.0	18.0	33.5	1.5	4.0	8.5	42.5
16.0	20.0	34.0	36.0	23.0	27.0	3.0	20.0	18.0	33.5	1.5	4.0	8.5	42.5
18.0	22.0	36.0	38.0	27.0	33.0	3.0	23.0	20.0	34.5	2.0	5.0	9.0	45.0
20.0	24.0	38.0	40.0	29.0	35.0	3.0	25.0	20.0	34.5	2.0	5.0	9.0	45.0
22.0	26.0	40.0	42.0	31.0	37.0	3.0	27.0	20.0	34.5	2.0	5.0	9.0	45.0
24.0	28.0	42.0	44.0	33.0	39.0	3.0	29.0	20.0	37.0	2.0	5.0	9.0	47.5
25.0	30.0	44.0	46.0	34.0	40.0	3.0	30.0	20.0	37.0	2.0	5.0	9.0	47.5
28.0	33.0	47.0	49.0	37.0	43.0	3.0	33.0	20.0	39.5	2.0	5.0	9.0	50.0
30.0	35.0	49.0	51.0	39.0	45.0	3.0	35.0	20.0	39.5	2.0	5.0	9.0	50.0
32.0	38.0	54.0	58.0	42.0	48.0	3.0	38.0	20.0	39.5	2.0	5.0	9.0	50.0
33.0	38.0	54.0	58.0	42.0	48.0	3.0	38.0	20.0	39.5	2.0	5.0	9.0	50.0
35.0	40.0	56.0	60.0	44.0	50.0	3.0	40.0	20.0	39.5	2.0	5.0	9.0	50.0
38.0	43.0	59.0	63.0	49.0	56.0	4.0	44.0	23.0	41.0	2.0	6.0	9.0	52.5
40.0	45.0	61.0	65.0	51.0	58.0	4.0	46.0	23.0	41.0	2.0	6.0	9.0	52.5
43.0	48.0	64.0	68.0	54.0	61.0	4.0	49.0	23.0	41.0	2.0	6.0	9.0	52.5
45.0	50.0	66.0	70.0	56.0	63.0	4.0	51.0	23.0	41.0	2.0	6.0	9.0	52.5
48.0	53.0	69.0	73.0	59.0	66.0	4.0	54.0	23.0	41.0	2.0	6.0	9.0	52.5
50.0	55.0	71.0	75.0	62.0	70.0	4.0	57.0	25.0	44.0	2.5	6.0	9.0	57.5
53.0	58.0	78.0	83.0	65.0	73.0	4.0	60.0	25.0	44.0	2.5	6.0	9.0	57.5
55.0	60.0	80.0	85.0	67.0	75.0	4.0	62.0	25.0	44.0	2.5	6.0	9.0	57.5
58.0	63.0	83.0	88.0	70.0	78.0	4.0	65.0	25.0	49.0	2.5	6.0	9.0	62.5
60.0	65.0	85.0	90.0	72.0	80.0	4.0	67.0	25.0	49.0	2.5	6.0	9.0	62.5
63.0	68.0	88.0	93.0	75.0	83.0	4.0	70.0	25.0	49.0	2.5	6.0	9.0	62.5
65.0	70.0	90.0	95.0	77.0	85.0	4.0	72.0	25.0	49.0	2.5	6.0	9.0	62.5
70.0	75.0	99.0	104.0	83.0	92.0	4.0	77.0	28.0	54.5	2.5	7.0	9.0	70.0
75.0	80.0	104.0	109.0	88.0	97.0	4.0	82.0	28.0	54.5	2.5	7.0	9.0	70.0
80.0	85.0	109.0	114.0	95.0	105.0	4.0	88.0	28.0	54.0	3.0	7.0	9.0	70.0
85.0	90.0	114.0	119.0	100.0	110.0	4.0	93.0	28.0	59.0	3.0	7.0	9.0	75.0
90.0	95.0	119.0	124.0	105.0	115.0	4.0	98.0	28.0	59.0	3.0	7.0	9.0	75.0
95.0	100.0	124.0	129.0	110.0	120.0	4.0	104.0	28.0	59.0	3.0	7.0	9.0	75.0
100.0	105.0	129.0	134.0	115.0	125.0	4.0	108.0	28.0	59.0	3.0	7.0	9.0	75.0



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