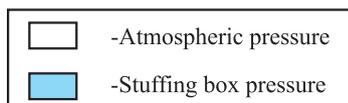


# VD11

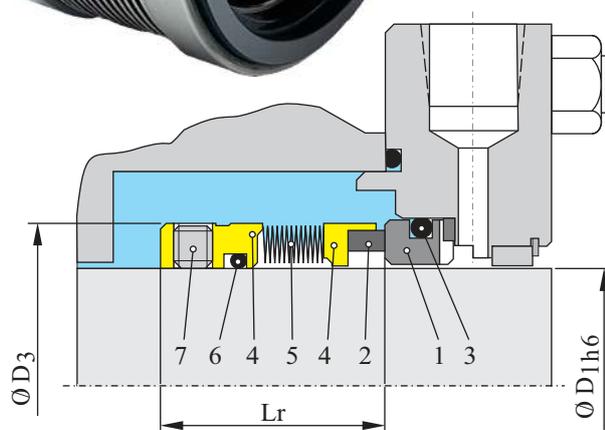
Single, Inner, Metal bellows mechanical seal, Independent of the shaft rotating direction



## LIMITING FACTORS

D1= 12... 112 mm  
 p1= 69 bar  
 t= -75 to 260°C  
 Vg= 17 m/s  
 pV= 170 bar m/s

Item	Description
1.	Stationary seat
2.	Rotary seal ring
3.	Stationary seat
	Secondary seal
4.	Housing
5.	Metal bellows
6.	Secondary seal
7.	Fixing screw



## PRODUCT DESCRIPTION

High-Strength VD11 Metal Bellows Type. The VD11 metal bellows mechanical seal offers high strength and excellent corrosion resistance. It is widely used in the refinery, petrochemical, chemical, paper-making, and pharmaceutical industries. This seal type is recommended for high-temperature applications and aggressive mediums such as acids, caustics, sour water, and sour hydrocarbons.

## WORKING CONDITIONS

It is suitable for low-temperatures and high temperatures. Temperature range from -75°C to 260°C. Standard metal bellows VD11 type is performed in single ply welded metal bellows pressure range from vacuum to 20 bar. Improved metal bellows VD11 type is performed in double ply welded metal bellows pressure range from 20 bar up to 69 bar.

## MATERIALS

Seal face: SiC, TC, Carbon Antimony impregnated  
 Stationary seat: SiC, TC  
 Secondary seal: FPM, FEP, Alfas  
 Metal Parts: AM 350, SS 316L, Inconel 718, Hastelloy C, Carpenter 42  
 Optional materials on request

## APPLICATION



Petrochemical



Chemical



Pharmaceutical



Pulp and paper

## Metric

D1	Lr	D3
18	27,5	32
20	27,5	33,3
22	27,5	36
24	30	38,1
25	30	39
28	32,5	42
30	32,5	44
32	32,5	46
33	32,5	47
35	32,5	49,2
38	34	52,4
40	34	55,6
43	34	58,7
45	34	58,7
48	34	60,9
50	34,5	65,1
53	34,5	68,3
55	34,5	71
60	39,5	74,6
65	39,5	84,1
70	45	87,3
75	45	95,3
80	44,5	98,4
85	44,5	104,8
90	49,5	108
95	49,5	114,3
100	49,5	120,7
105	48,3	131,7
110	48,3	138,1
115	48,3	144,5
120	48,3	144,5
125	48,3	150,8
130	48,3	157,8
140	48,3	170,5
150	48,3	176,9

## Inch

Seal Dash Number	D1	Lr	D3
12	0,750	1,250	1,312
14	0,875	1,250	1,437
15	0,937	1,250	1,500
16	1,000	1,250	1,562
18	1,125	1,250	1,687
20	1,250	1,312	1,812
22	1,375	1,437	1,937
24	1,500	1,437	2,062
26	1,625	1,437	2,187
28	1,750	1,437	2,312
30	1,875	1,500	2,437
32	2,000	1,500	2,562
34	2,125	1,500	2,687
36	2,250	1,562	2,812
38	2,375	1,562	2,937
40	2,500	1,562	3,187
42	2,625	1,625	3,312
44	2,750	1,625	3,437
46	2,875	1,687	3,625
48	3,000	1,687	3,750
50	3,125	1,750	3,875
52	3,250	1,750	4,000
54	3,375	1,750	4,125
56	3,500	1,875	4,250
58	3,625	1,875	4,375
60	3,750	1,875	4,500
62	3,875	1,875	4,250
64	4,000	1,875	4,750
68	4,250	1,903	5,187
72	4,500	1,903	5,438
76	4,750	1,903	5,688
80	5,000	1,903	5,938
84	5,250	1,903	6,213
88	5,500	1,903	6,463
92	5,750	1,903	6,714
96	6,000	1,903	6,964
104	6,500	1,903	7,470
112	7,000	1,903	7,971