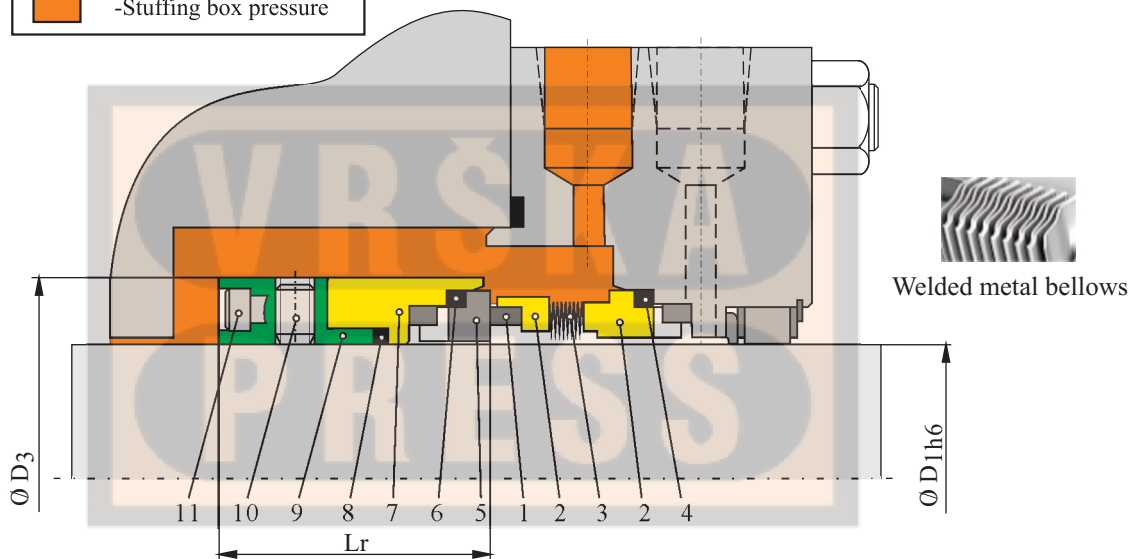
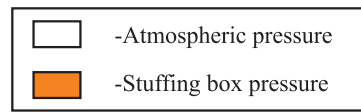


Single, Inner, Metal bellows mechanical seal Independent of the shaft rotating direction



LIMITING FACTORS

$p_1 =$ from vacuum to 69 bar
 $t = -75$ to 425°C

LIST OF ELEMENTS

1. Stationary seal ring
2. Stationary housing
3. Metal bellows
4. Secondary seal
5. Rotary seal ring
6. Secondary seal
7. Rotary housing
8. Secondary seal
9. Tightening ring
10. Fixing screw
11. Tightening screw

DIMENSION TABLE (metric)

D1	Lr	D3
16	40	28
18	40	32
20	40	34
22	40	36
24	40	39
25	50	39,8
26	50	-
28	50	43
30	50	45
32	50	47
33	50	48,5
35	50	51
38	52,4	56
40	52,4	56,5
42	52,4	-
43	52,4	62
45	52,4	62
48	52,4	65
50	52,4	68,6
53	55,4	71
55	56,3	74
58	55,5	78
60	55,5	81
63	55,5	84
65	55,5	86
68	57,2	89
70	57,9	92,5
75	57,2	98
80	56,3	104

DIMENSION TABLE (inch)

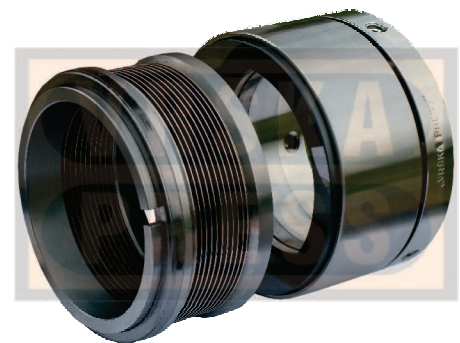
Seal Dash Number	D1	Lr	D3
14	0,750	-	-
16	0,875	-	-
18	1,000	1,969	1,937
20	1,125	1,969	2,062
22	1,250	1,969	2,187
24	1,375	1,938	2,312
26	1,500	2,063	2,562
28	1,625	2,060	2,562
30	1,750	2,060	2,687
32	1,875	2,062	2,812
34	2,000	2,060	2,937
36	2,125	2,182	3,187
38	2,250	2,218	3,312
40	2,375	2,186	3,437
42	2,500	2,184	3,562
44	2,625	2,250	3,687
46	2,750	2,250	3,937
48	2,875	2,281	4,062
50	3,000	2,250	4,187
52	3,125	2,250	4,312
54	3,250	2,219	4,437
56	3,375	2,282	4,562
58	3,500	2,373	4,687
60	3,625	2,375	4,812
62	3,750	2,375	4,937
64	3,875	2,377	5,062



Single ply



Double ply



Working condition

High-performance VD12 metal bellows type

The VD12 type of metal bellows mechanical seal is designed for working in extremely hard conditions. It is widely used in refinery, petrochemical, chemical industry, paper making, pharmacy etc., where temperature plays an important role. It is suitable for low-temperatures and high-temperatures.

Temperature range from -75°C to 425°C .

Standard metal bellows VD12 type

Standard metal bellows VD12 type is performed in single ply welded metal bellows pressure range from vacuum to 20 bar.

Improved metal bellows VD12 type

Improved metal bellows VD12 type is performed in double ply welded metal bellows pressure range from 20 bar up to 69 bar.

Design and constructive characteristics

Materials of construction:

Metal bellows: AM 350, SUS 316L, Inconel 718, Hastelloy C, Titanium, Alloy 20;
 Rotary seal ring: SiC, TC, Carbon;
 Stationary seal ring: SiC, TC, Carbon;
 Secondary seal: Flexible Carbon;
 Other Parts: SUS 316, SUS 304, Hastelloy C, Titanium.