

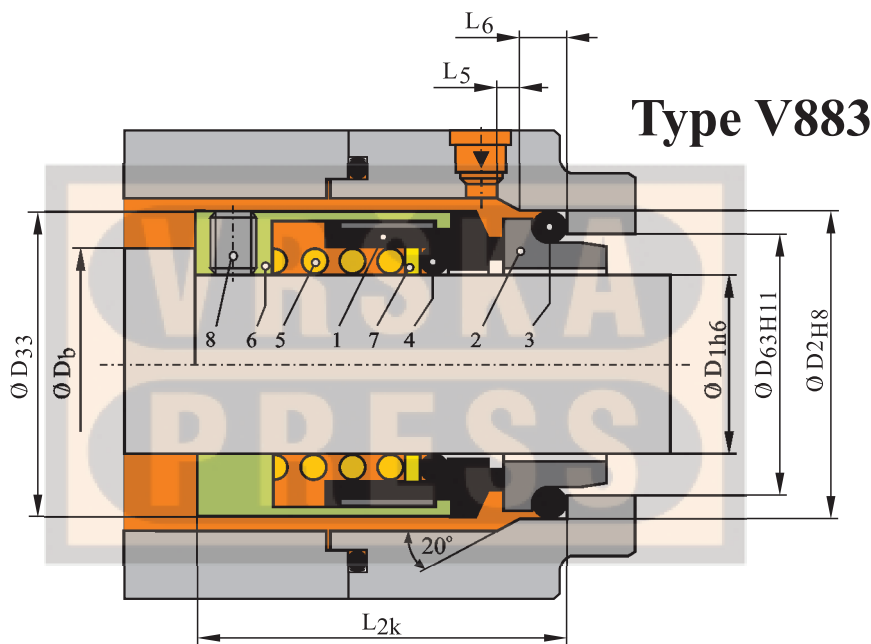
**Type V88**  
DIN 24960  
(EN 12756)

### LIMITING FACTORS

D1 = 16 ... 80mm  
p1 = 16 (25) bar  
t = -40 ... 204 °C  
Vg = 20 m/s  
pV = 250 bar m/s

### LIST OF ELEMENTS

1. Rotary seal ring
2. Stationary seat
3. Secondary stationary seal - O - ring
4. Secondary rotary seal O - ring
5. Single coil spring
6. Housing
7. Plate
8. Fixing and driving screw
9. Fixing ring
10. Fixing and driving O - ring



**Type V883**

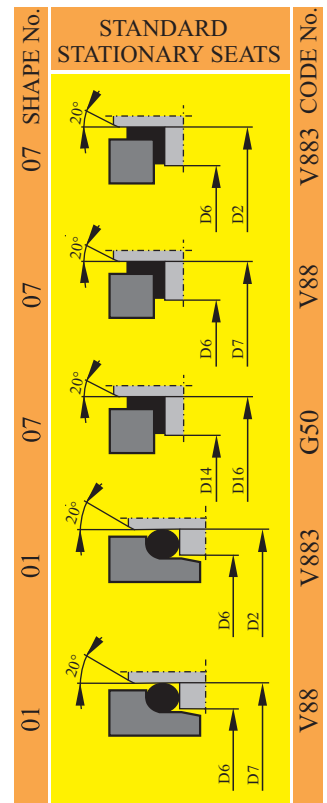
### Working conditions

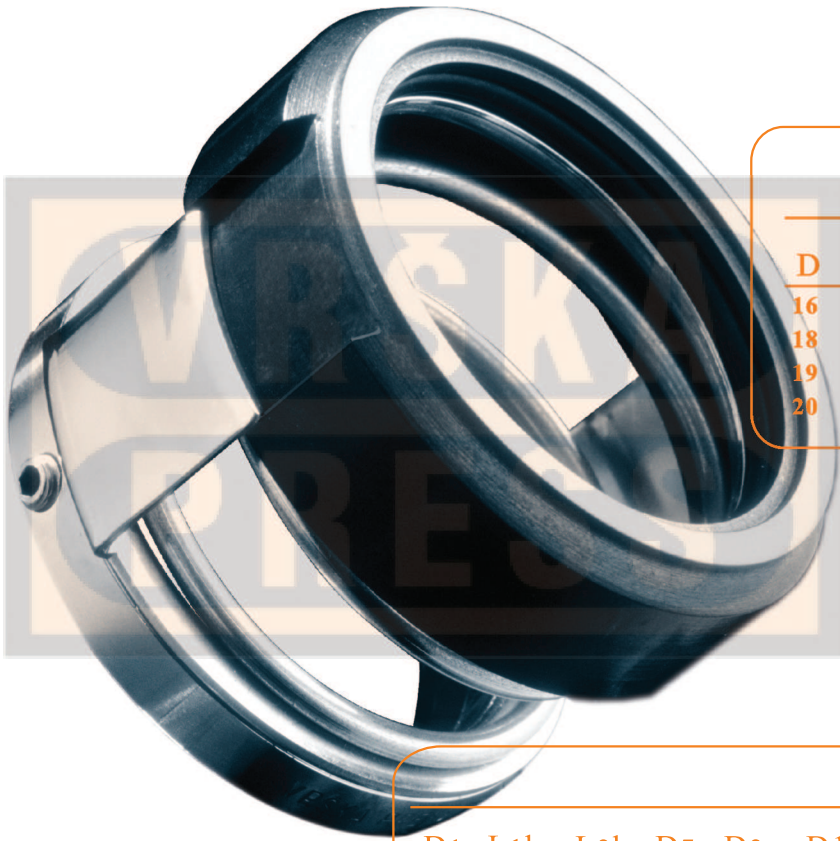
It is very flexible and chemically resistant. It is designed both for light and hard working conditions, for the pressure up to 16 bar (p= 16 bar) and temperatures from minus 40°C to 204°C (t= -40°C ~+204°C). This type of mechanical seal is especially suitable for following mediums: cold and hot water up to 130°C, demineralised water, wastewater, beer, beer mash, malt, milk and dairy product, vegetable oil and vegetable paste, alcohol, calcium carbonate, dextrose, juice and natural juice, mild acid, mild alkali (base), diesel, petrol, heavy oil, mineral oil up to 80°C, varnish and colors, ammonia (Nh3).

### Design and constructive characteristics

The long compression ratio of the single coil spring compensates play and the differences in the working length. The open construction forces the rotary set flushing and lowers down the blocking attempt due to crystallization. The rotary set fixing to the shaft and torque transmission may be carried out as follows:

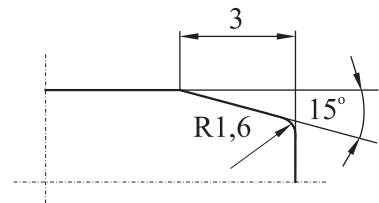
- 3211. - with IMBUS screw thru CrNi steel cast housing
- 321a1 - with IMBUS screw thru a fixing ring and CrNi steel deep stretched housing
- 3411. - with O-ring i.e. Friction between the O-ring, the cast housing and the shaft.





## VARIANT DIMENSION TABLE

D	L1K	D7	D3	D4	D6	L5	L6	Db
16	28.0	31.75	30	34	26.0	1.5	4	21
18	27.0	33.00	32	36	27.0	2.0	5	23
19	28.2	35.00	34	38	29.0	2.0	5	26
20	28.2	35.00	34	38	29.0	2.0	5	26



The sealing surfaces processing quality (surface roughness) at the secondary sealing places has an important role in successful sealing achieving. The required quality of processed surfaces depends on the secondary seals materials. Reliable sealing is achieved if the surfaces roughness does not exceed the DIN 24960 Standard limits requirements. All leading edges which secondary seals pass over, must have a chamfer 3mm/15° and all sharp edges must be chamfered. Before mechanical seal fitting, it is necessary to lubricate the shaft of the pump and all the mechanical seal parts at the secondary sealing places. Only neutral lubricants can be used (e.g. liquid soap). Cleanliness of the mechanical seal must be taken care of, so that the rotary sliding face ring can be put together with stationary seat ideally clean and undamaged. **Do not lubricate the mechanical seal faces.**

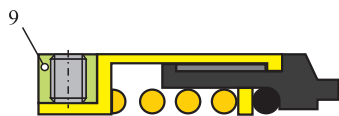
## DIMENSION TABLE

D1	L1k	L2k	D7	D2	D16	D14	D3*	D33*	D6	D63	L5	L6	Db
16	35,0	26,5	27	28,0	30,95	17,0	28	28	23	22,0	1,5	4	21
18	37,5	28,5	33	30,0	34,15	20,0	32	32	27	24,0	2,0	5	23
20	37,5	29,5	35	35,0	35,70	21,5	35	35	29	29,5	2,0	5	26
22	37,5	31,0	37	35,0	37,30	23,0	37,5	37,5	31	29,5	2,0	5	28
24	40,0	32,5	39	38,0	40,50	26,5	40	40	33	32,0	2,0	5	30
25	40,0	34,0	40	38,0	40,50	26,5	40	40	34	32,0	2,0	5	31
26	-	34,5	-	40,0	-	-	-	40	-	34,0	2,0	5	32
28	42,5	35,5	43	42,0	47,65	29,5	43	43	37	36,0	2,0	5	35
30	42,5	35,5	45	45,0	50,80	32,5	45	45	39	39,2	2,0	5	37
32	42,5	39,0	48	48,0	50,80	32,5	47,5	47,5	42	42,2	2,0	5	39
33	42,5	-	48	-	54,00	36,5	51	-	42	-	2,0	5	40
35	42,5	39,5	50	52,0	54,00	36,5	51	51	44	46,2	2,0	5	43
38	45,0	42,5	56	55,0	57,15	39,5	57	57	49	49,2	2,0	6	45
40	45,0	45,5	58	58,0	60,35	42,5	57	57	51	52,2	2,0	6	49
42	-	49,3	-	62,0	-	-	-	62	-	53,2	2,0	6	52
43	45,0	-	61	-	63,50	46,0	62	-	54	-	2,0	6	52
45	45,0	50,8	63	64,0	63,50	46,0	62	62	56	55,3	2,0	6	55
48	45,0	56,3	66	68,4	66,70	49,0	66	66	59	59,7	2,0	6	58
50	47,5	57,3	70	69,3	69,85	52,0	70	70	62	60,8	2,5	6	61
53	47,5	-	73	-	73,05	55,5	71	-	65	-	2,5	6	64
55	47,5	62,3	75	75,4	76,20	58,5	74,5	74,5	67	66,5	2,5	6	66
58	52,5	65,3	78	78,4	79,40	61,5	80	80	70	69,5	2,5	6	69
60	52,5	66,3	80	80,4	79,40	61,5	81	81	72	71,5	2,5	6	71
63	52,5	-	83	-	-	-	84	-	75	-	2,5	6	74
65	52,5	67,3	85	85,4	92,10	68,0	86	86	77	76,5	2,5	6	77
68	52,5	69,0	90	91,5	95,25	71,0	90	90	81	82,7	2,5	7	80
70	60,0	69,3	92	92,0	95,25	71,0	91	91	83	83,0	2,5	7	83
75	60,0	70,3	97	99,0	101,6	77,5	97	97	88	90,2	2,5	7	88
80	60,0	74,3	105	104,0	114,3	84,0	104	104	95	95,2	3,0	7	93

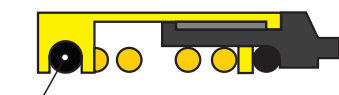
\* Stared columns values do not meet the DIN 24960 (EN 12756) standard



3211.



321a1.



3411.