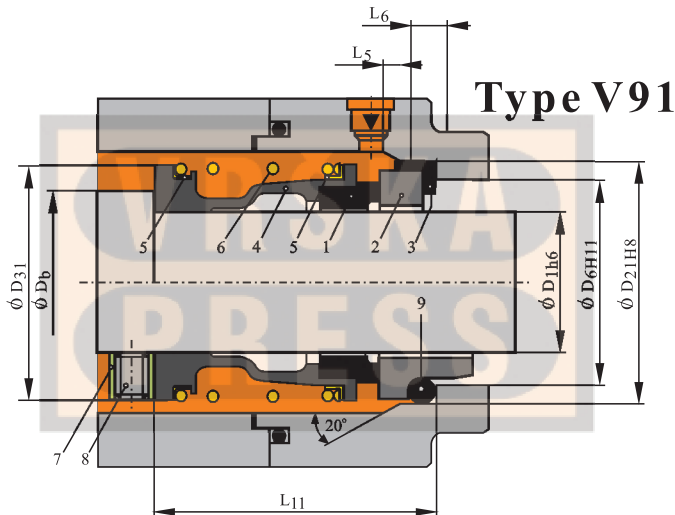# VRŠKA PRESS

V9

Unbalanced mechanical seal
Independent of the shaft rotating direction

- □ -Atmospheric pressure
- ■ -Stuffing box pressure

Type V9
**DIN 24960
(EN 12756)**

Type V93

Type V91

Type V9var
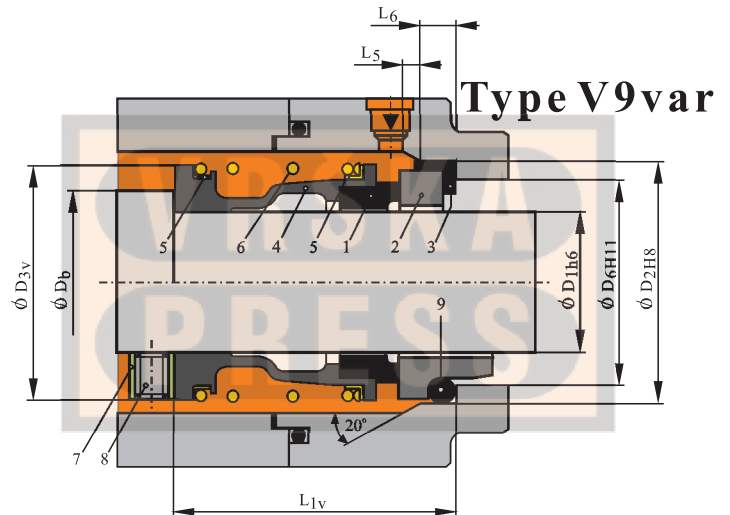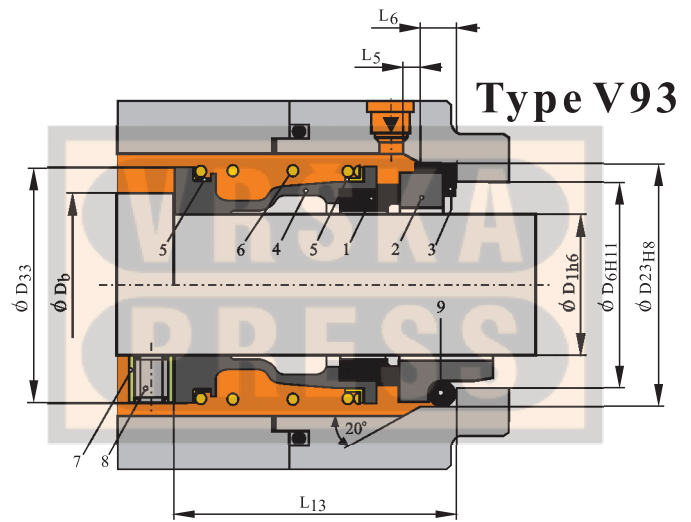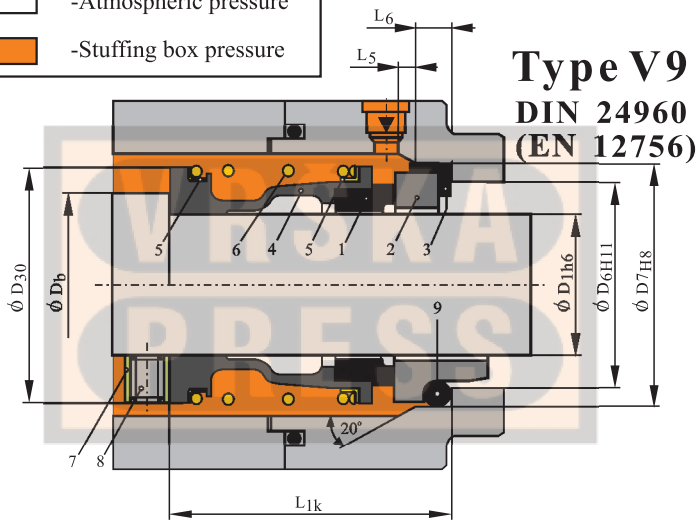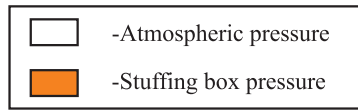
Working conditions

Mechanical seals from series V9 are designed for light working conditions, for the pressure up to 10 bar (p = 10 bar) and temperatures from minus 40°C to 204°C (t = –40°C ~ 204°C). Our Mechanical Seals proved themselves especially at following medium: cold and hot water up to 130°C, demineralized water, wastewater, beer, beer mash, malt, milk and diary product, juice and natural juice, mild acid, mild alkal (base), heavy oil, ammonia (NH_3), and mineral oil.

Design and constructive characteristics

The flexible rubber bellows design enables a full flexibility compensating possible axial shaft play. The long compression ratio of the rubber bellows and the spring allows errors in the mechanical seal working length. It protects the shaft from any sedimentation and dirt. This makes it suitable for long time of constant work.

LIMITING FACTORS

$D1 = 14 \ldots 80$ mm
$p1 = 10$ bar
$t = -40 \ldots 204^{\circ}C$
$Vg = 10$ m/s
$pV = 90$ bar m/s

LIST OF ELEMENTS

1. Rotary seal ring
2. Stationary seat
3. Stationary seat secondary seal
4. Rubber bellows
5. Fixing and driving ring
6. Spring
7. Support ring
8. Fixing screw
9. Stationary seat secondary seal O - ring

STANDARD STATIONARY SEATS

SHAPE No.		CODE No.
07		V883
07		V88
07		G50
01		V883
01		V88
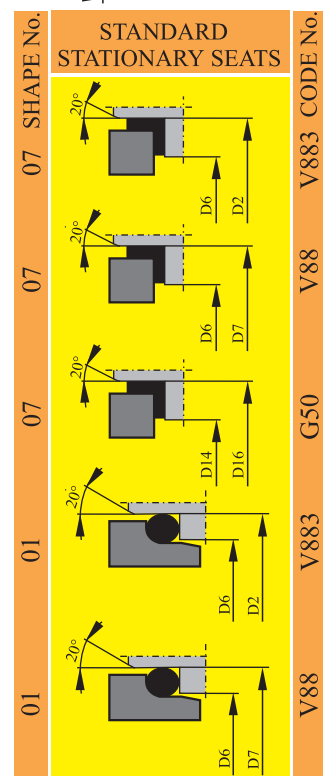
DIMENSION TABLE

D_1	L_{1k}	L_{1v}	L_{13}	L_{11}	D_7	D_2	D_{23}	D_{21}	D_{30}*	D_{3v}	D_{33}	D_{31}	D_{16}	D_{14}	$D6$	$L5$	$L6$	Db
14	-	21,0	-	-	-	25	-	-	-	25,0	-	-	-	-	20	1,5	4	17
15	-	23,0	-	-	-	25	-	-	-	27,0	-	-	-	-	20,5	1,5	4	17
16	35,0	28,0	26,5	-	27	31,75	28	-	31	31,0	31	-	30,95	17,0	26	1,5	4	21
18	37,5	27,0	28,5	-	33	33	30	-	33	33,0	33	-	34,15	20,0	27	2,0	5	23
19/20	37,5	28,2	29,5	-	35	35	35	-	37	35,0	35	-	35,70	21,5	29	2,0	5	26
22	37,5	-	31,0	-	37	-	35	-	38	-	37	-	37,30	23,0	31	2,0	5	28
24	40,0	-	32,5	-	39	-	38	-	39	-	39	-	40,50	26,5	33	2,0	5	30
25	40,0	-	34,0	-	40	-	38	-	41	--	40	-	40,50	26,5	34	2,0	5	31
26	-	-	34,5	-	-	-	40	-	-	-	41	-	-	-	34	2,0	5	32
28	42,5	-	35,5	-	43	-	42	-	46	-	44	-	47,65	29,5	37	2,0	5	35
30	42,5	-	35,5	45	45	-	45	51	47	-	46	46	50,80	32,5	39	2,0	5	37
32	42,5	-	39,0	45	48	-	48	50,8	49	-	49	49	50,80	32,5	42	2,0	5	39
33	42,5	-	-	-	48	-	-	-	50	-	-	-	54,00	36,5	42	2,0	5	40
35	42,5	-	39,5	-	50	-	52	-	52,5	-	52	-	54,00	36,5	44	2,0	5	43
38	45,0	-	42,5	-	56	-	55	-	59	-	57	-	57,15	39,5	49	2,0	6	45
40	45,0	-	45,5	-	58	-	58	-	62	-	59	-	60,35	42,5	51	2,0	6	49
42	-	-	49,3	-	-	-	62	-	-	-	62	-	-	-	53,3	2,0	6	52
43	45,0	-	-	-	61	-	-	-	62	-	-	-	63,50	46,0	54	2,0	6	52
45	45,0	-	50,8	-	63	-	64	-	65	-	64	-	63,50	46,0	56	2,5	6	55
48	45,0	-	56,3	-	66	-	68,4	-	66	-	66	-	66,70	49,0	59	2,0	6	58
50	47,5	-	57,3	-	70	-	69,3	-	70,5	-	70	-	69,85	52,0	62	2,5	6	61
53	47,5	-	-	-	73	-	-	-	72	-	-	-	73,05	55,5	65	2,5	6	64
55	47,5	-	62,3	54,5	75	-	75,4	76,2	75	-	76	76	76,20	58,5	67	2,5	6	66
58	52,5	-	65,3	-	78	-	78,4	-	81	-	82	-	79,40	61,5	70	2,5	6	69
60	52,5	-	66,3	-	80	-	80,4	-	81	-	84	-	79,40	61,5	72	2,5	6	71
63	52,5	-	-	-	83	-	-	-	88	-	-	-	-	-	75	2,5	6	74
65	52,5	-	67,3	-	85	-	85,4	-	90	-	90	-	92,10	68,0	77	2,5	6	77
68	52,5	-	69,0	-	90	-	91,5	-	93	-	92	-	95,25	71,0	81	2,5	7	80
70	60,0	-	69,3	-	92	-	92	-	95	-	95	-	95,25	71,0	83	2,5	7	83
75	60,0	-	70,3	-	97	-	99	-	102	-	102	-	101,6	77,5	88	2,5	7	88
80	60,0	-	74,3	-	105	-	104	-	113	-	-	-	114,3	84,0	95	3,0	7	93

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