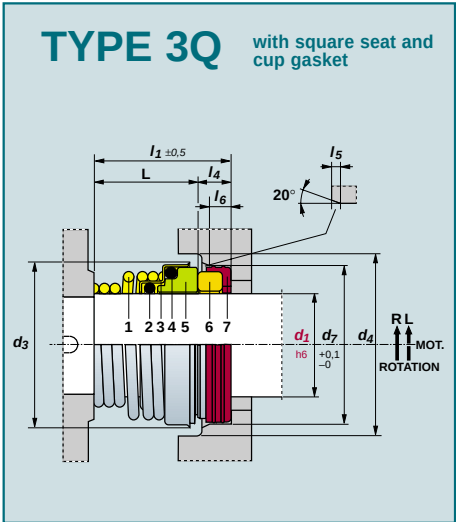
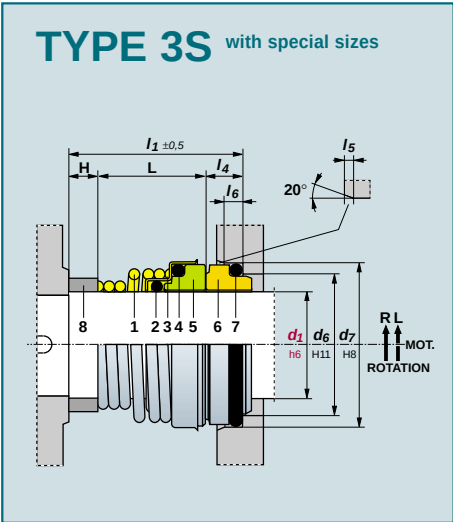
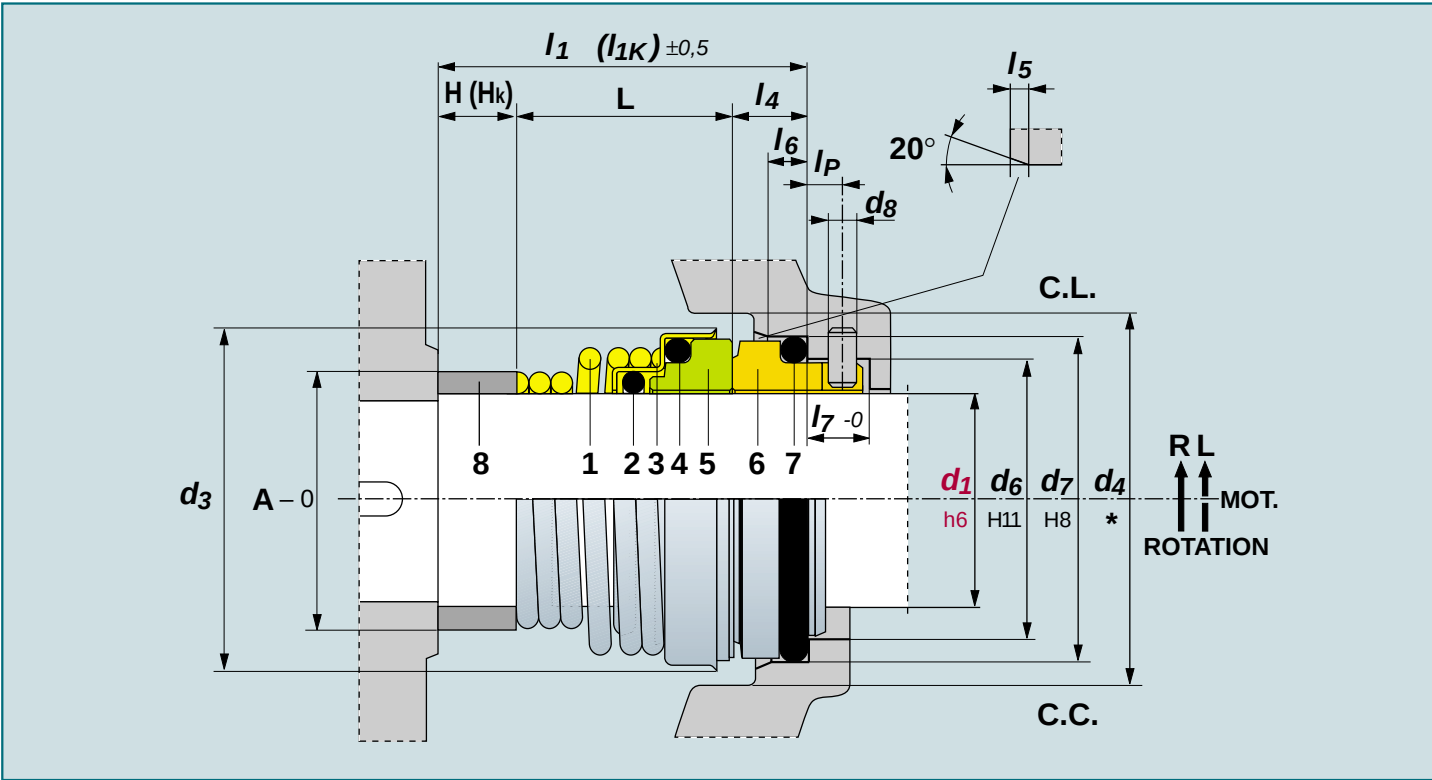


TYPE 3



This is a particularly economic mechanical seal, highly valuable and with interchangeable components. The basic pairing Ceramic-Carbon provides type 3 with a vast field of applications also with non-limpid liquids. The possibility of replacing the wearing rings alone after their common working period keeps maintenance costs low, in as far as it eliminates the change of the whole seal apparatus. Its metallic parts are in stainless steel and the gaskets may be in various kinds of elastomer, which again widens the range of possible applications. It is produced in large amounts for the most usual shaft diameters, from 10 to 40 mm. Pump manufacturers as well as installators and users appreciate its technical and construction features and its vast field of applications.

POS. TYPE			COMPONENTS	STANDARD MATERIALS							
3	3S	3Q		E	X						
1	1	1	Self-driving spring								
2	2	2	Shaft gasket (O-Ring)	6	7	8	Y	W	B		
3	3	3	Frame	H*	X						
4	4	4	Rotary gasket (O-Ring)	6	7	8	Y	W	B		
5	5	5	Rotary seal ring	2	9*	K	R	V	Z		
6	6	6	Stationary seal ring	V	Z	1	3	4	K	R	
7	7	7	Stationary gasket (O-Ring)	6	7	8	Y	W	B		
8	8		Spacer (if required)	G	H	X					

* Available up to ø 25 included.

C.C. = stationary seal ring with short tail.
C.L. = stationary seal ring with extended tail and slot.
3K = UNITEN 3K model with working length "L" according to DIN norm K.

MAX. WORKING CONDITIONS

These depend on: ø shaft, pressure, speed, temperature and fluid to be sealed.	
p ≤	16 bar
t =	-35 ÷ 180°C
v ≤	15 m/s



ROTEN												
TYPE 3												
d_1	d_6	d_7	d_3	d_4	l_1	L	l_4	l_6	l_5	d_8	l_7	l_p
10	14	18,1	20	21	20,5	15	5,5	2,8	1,2	2	6,2	3,5
11÷12	16,5	20,6	22	24	23,5	18	5,5	2,8	1,2	2	6,2	3,5
13÷14	19	23,1	25	27	28	22	6	2,8	1,2	2	6,7	4
15	21	26,9	26	31	29	22	7	3,7	1,3	2,5	7,6	4
16÷17	21	26,9	26	31	30	23	7	3,7	1,3	2,5	7,6	4
18	25	30,9	33	36	32	24	8	3,7	1,3	3	8,5	4,5
19÷20	25	30,9	33	36	33	25	8	3,7	1,3	3	8,5	4,5
21÷22	30	35,4	36	41	33	25	8	3,7	1,8	3,5	8,5	5
23÷24	30	35,4	38	41	35	27	8	3,7	1,8	3,5	8,5	5
25	33	38,2	40	45	35,5	27	8,5	3,7	1,8	4	9,1	5
28	38	43,3	42	50	38	29	9	3,7	1,8	4	9,6	6
29÷32	38	43,3	46	50	39	30	9	3,7	1,8	4	9,6	6
33	45	53,5	48	54	50,5	39	11,5	5,4	2,1	5	12	7,5
35	45	53,5	50	56	50,5	39	11,5	5,4	2,1	5	12	7,5
38	52	60,5	56	62	50,5	39	11,5	5,4	2,1	5	12	7,5
40	52	60,5	58	64	50,5	39	11,5	5,4	2,1	5	12	7,5

NB: The spacer is never to be considered for ROTEN 3.

EN 12756													ISO 3069				
UNITEN															3K		
TYPE 3																	
d_1	d_6	d_7	d_3	d_4	l_1	L	l_4	l_6	l_5	H	A	d_8	l_7	l_p	l_{1k}	L	H_k
10	17	21	20	22	40	15	7	4	1,5	18	13	3	8,5	5	32,5	15	10,5
12	19	23	22	24	40	18	7	4	1,5	15	15	3	8,5	5	32,5	18	7,5
14	21	25	25	26	40	22	7	4	1,5	11	18	3	8,5	5	35	22	6
16	23	27	26	28	40	23	7	4	1,5	10	20	3	8,5	5	35	23	5
18	27	33	33	34	45	24	10	5	2	11	22	3	9	5	37,5	27,5	—
20	29	35	33	36	45	25	10	5	2	10	25	3	9	5	37,5	27,5	—
22	31	37	36	38	45	25	10	5	2	10	27	3	9	5	37,5	27,5	—
24	33	39	38	40	50	27	10	5	2	13	29	3	9	5	40	30	—
25	34	40	40	41	50	27	10	5	2	13	30	3	9	5	40	30	—
28	37	43	42	44	50	29	10	5	2	11	34	3	9	5	42,5	32,5	—
30	39	45	46	48+	50	30	10	5	2	10	36	3	9	5	42,5	32,5	—
32	42	48	46	48	55	30	10	5	2	15	38	3	9	5	42,5	32,5	—
33	42	48	48	49	55	39	10	5	2	6	42	3	9	5	42,5	32,5	—
35	44	50	50	51	55	39	10	5	2	6	42	3	9	5	42,5	32,5	—
38	49	56	56	58	55	42	13	6	2	—	46	4	9	5	45	32	—
40	51	58	58	60	55	42	13	6	2	—	48	4	9	5	45	32	—

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ROTEN									
TYPE 3S									
d_1	d_6	d_7	l_1	L	l_4	l_6	l_5	H	
9	15,8	20	23,4	17,7	5,7	3,5	1,2	—	
10	15,5	19,2	22,6	16,6	6	3,8	1,2	—	
12	16,5	21,5	24,3	18	6,3	3,8	1,2	—	
16	21	26	29,5	23	6,3	3,7	1,3	—	
18	25	30,9	38	30	8	3,7	1,3	—	
20	28	33,6	45	25	8	5	1,5	12	
25	30,4	36	33,5	26	7,5	5	1,5	—	
30	39,2	45	35,5	25,5	10	5	1,5	—	
40	52,2	58	45,5	32,5	13	5	1,5	—	

The mechanical seal ROTEN 3S is supplied in particular sizes at the request of some of our important clients.

ROTEN									
TYPE 3Q									
d_1	d_7	d_3	d_4	l_1	L	l_4	l_6	l_5	
10	26	20	28	19	12,3	6,7	6	2	
12	26	22	28	26	17,8	8,2	6	2	
14 LW	26	25	28	21	16,5	4,5	4,5	1,5	
16 LW	29,5	29	31	31,2	23	8,2	6	2	
17	42	29	44	31	22,8	8,2	6	2	
18	42	33	44	31	22,8	8,2	6	2	
19	42	33	44	31	22,8	8,2	6	2	
20	42	33	44	31	22,8	8,2	6	2	
24	50	38	52	34	25	9	6	3	
25	50	40	52	34	25	9	6	3	