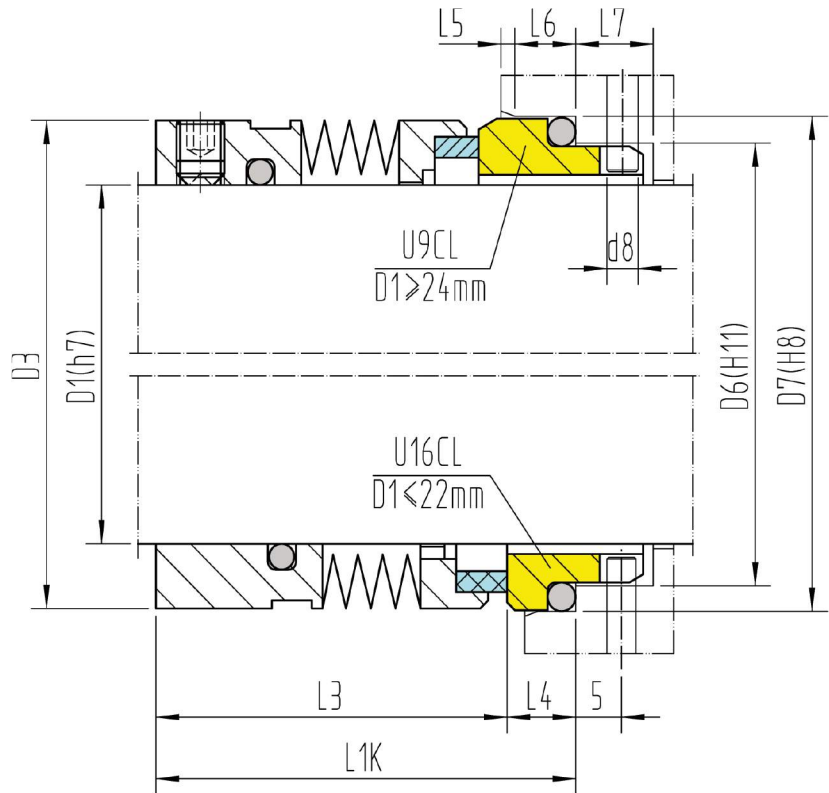


**No dynamic O-ring
Shaft protecting
Self cleaning
Independent of rotation**



Materials:

Rotary: A, B, Q, U
Stationary: Q, U
Metal bellows: G, M3, M5, M6
Rubber parts: P, E, V, K, M

Operating limits:

(look at working conditions page 112)

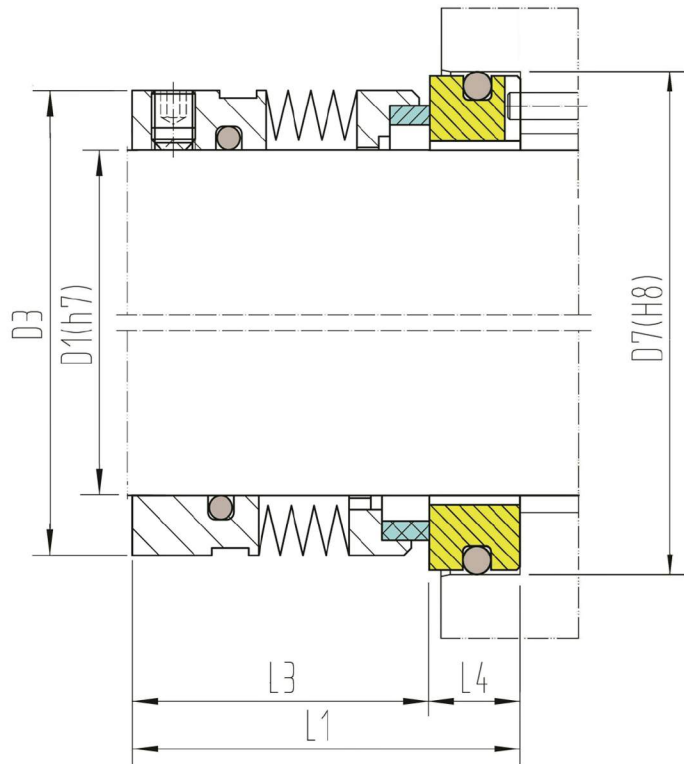
p ≤	25 bar
t =	-35 ÷ 220 °C
v ≤	20 m/s

EN 12756 (DIN 24960)

U9CL U16CL

D1	D6	D7	D3	L1K	L3	L4	L6	L5	D8	L7
14	21	25	26	35	29.5	5.5	4	1.5	3	8.5
16	23	27	30	35	32.5	5.5	4	1.5	3	8.5
18	27	33	32	37.5	30.5	7	5	2	3	9
20	29	35	33.5	37.5	30.5	7	5	2	3	9
22	31	37	36.5	37.5	30.5	7	5	2	3	9
24	33	39	39	40	28.5	11.5	5	2	3	9
25	34	40	39.6	40	28.5	11.5	5	2	3	9
28	37	43	42.8	42.5	31	11.5	5	2	3	9
30	39	45	45	42.5	31	11.5	5	2	3	9
32	42	48	46	42.5	31	11.5	5	2	3	9
33	42	48	48	42.5	31	11.5	5	2	3	9
35	44	50	49.2	42.5	31	11.5	5	2	3	9
38	49	56	52.3	45	31	14	6	2	4	9
40	51	58	55.5	45	31	14	6	2	4	9
43	54	61	57.5	45	31	14	6	2	4	9
45	56	63	58.7	45	31	14	6	2	4	9
48	59	66	61.9	45	31	14	6	2	4	9
50	62	70	65	47.5	32.5	15	6	2.5	4	9
53	65	73	68.2	47.5	32.5	15	6	2.5	4	9
55	67	75	70	47.5	32.5	15	6	2.5	4	9
58	70	78	71.7	52.5	37.5	15	6	2.5	4	9
60	72	80	74.6	52.5	37.5	15	6	2.5	4	9
63	75	83	79	52.5	37.5	15	6	2.5	4	9
65	77	85	84.1	52.5	37.5	15	6	2.5	4	9
68	81	90	87.3	52.5	34.5	18	7	2.5	4	9
70	83	92	87.3	60	42	18	7	2.5	4	9
75	88	97	95	60	42	18	7	2.5	4	9
80	95	105	98.4	60	41.8	18.2	7	3	4	9
85	100	110	104.7	60	41.8	18.2	7	3	4	9
90	105	115	111	65	46.8	18.2	7	3	4	9
95	110	120	114	65	47.8	17.2	7	3	4	9
100	115	125	117.4	65	47.8	17.2	7	3	4	9

No dynamic O-ring
 Shaft protecting
 Self cleaning
 Independent of rotation



Materials:

Rotary: A, B, Q, U

Stationary: Q, U

Metal belows: G, M3, M5, M6

Rubber parts: P, E, V, K, M

Operating limits:

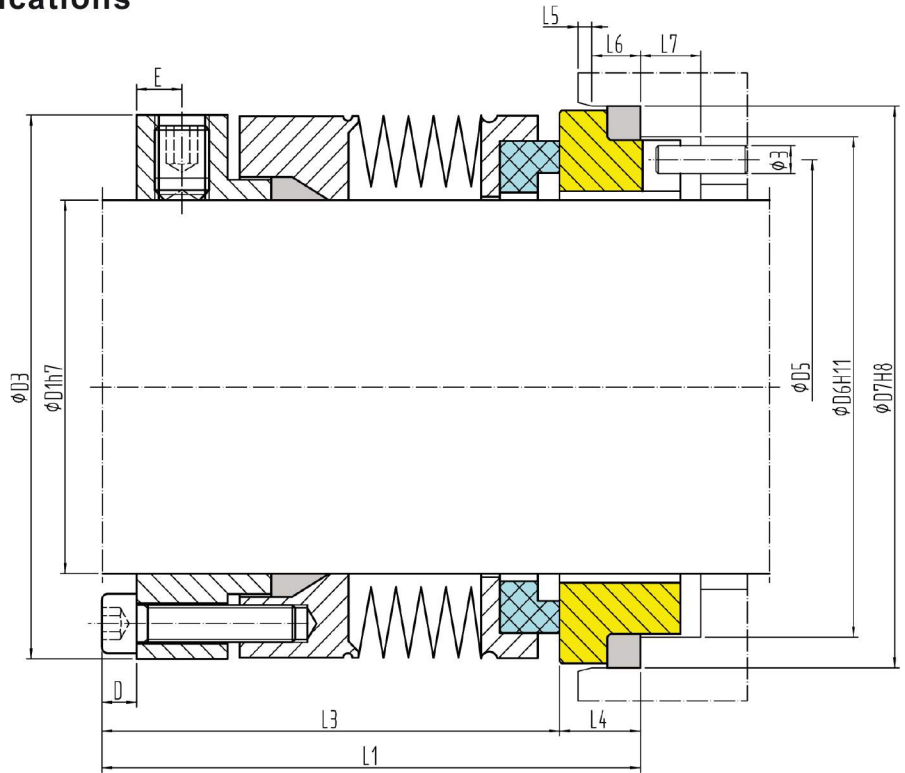
(look at working conditions page 112)

p ≤	25 bar
t =	-35 ÷ 220°C
v ≤	20 m/s

EN 12756 (DIN 24960)			CWCN		
D1	D7	D3	L1	L3	L4
18	34.15	32	38	27.5	10.5
20	35.7	34	38	27.5	10.5
22	37.3	36	38	27.5	10.5
24	40.5	39	40.5	30	10.5
-	-	-	-	-	-
25	40.5	39	40.5	30	10.5
28	47.65	42	43	32.5	10.5
30	50.8	44	44.5	32.5	12
32	50.8	46	44.5	32.5	12
33	54	47	44.5	32.5	12
35	54	50	44.5	32.5	12
38	57.15	53	46	34	12
40	60.35	56	46	34	12
43	63.5	59	46	34	12
45	63.5	59	46	34	12
48	66.7	62	46	34	12
50	69.85	66	48	34.5	13.5
53	73.05	69	48	34.5	13.5
55	76.2	71	48	34.5	13.5
60	79.4	75	53	39.5	13.5
-	-	-	-	-	-
65	92.1	85	55.5	39.5	16
70	95.25	88	61	45	16
-	-	-	-	-	-
75	101.6	96	61	45	16
-	-	-	-	-	-
80	114.3	99	65.5	44.5	20
85	117.5	105	65.5	44.5	20
-	-	-	-	-	-
90	123.85	108	69.5	49.5	20
95	127	115	69.5	49.5	20
-	-	-	-	-	-
100	133.35	121	69.5	49.5	20

ZOLL		
D1	D3	L3
0.750	1.312	1.250
-	-	-
0.875	1.437	1.250
-	-	-
0.937	1.500	1.250
1.000	1.562	1.250
1.125	1.687	1.250
-	-	-
1.250	1.812	1.312
-	-	-
1.375	1.937	1.437
1.500	2.062	1.437
1.625	2.187	1.437
1.750	2.312	1.437
-	-	-
1.875	2.437	1.500
2.000	2.562	1.500
2.125	2.687	1.500
2.250	2.812	1.562
2.375	2.937	1.562
2.500	3.187	1.562
2.625	3.312	1.625
2.750	3.437	1.625
2.875	3.625	1.687
3.000	3.750	1.687
3.125	3.875	1.750
3.250	4.000	1.750
3.375	4.125	1.750
3.500	4.250	1.875
3.625	4.375	1.875
3.750	4.500	1.875
3.875	4.625	1.875
4.000	4.750	1.875

For high-temperature applications
 Shaft protecting
 Self cleaning
 Independent of rotation



Materials:
 Rotary: A, B, Q, U
 Stationary: Q, U
 Metal bellow: G, M3, M5, M6
 Rubber parts: G

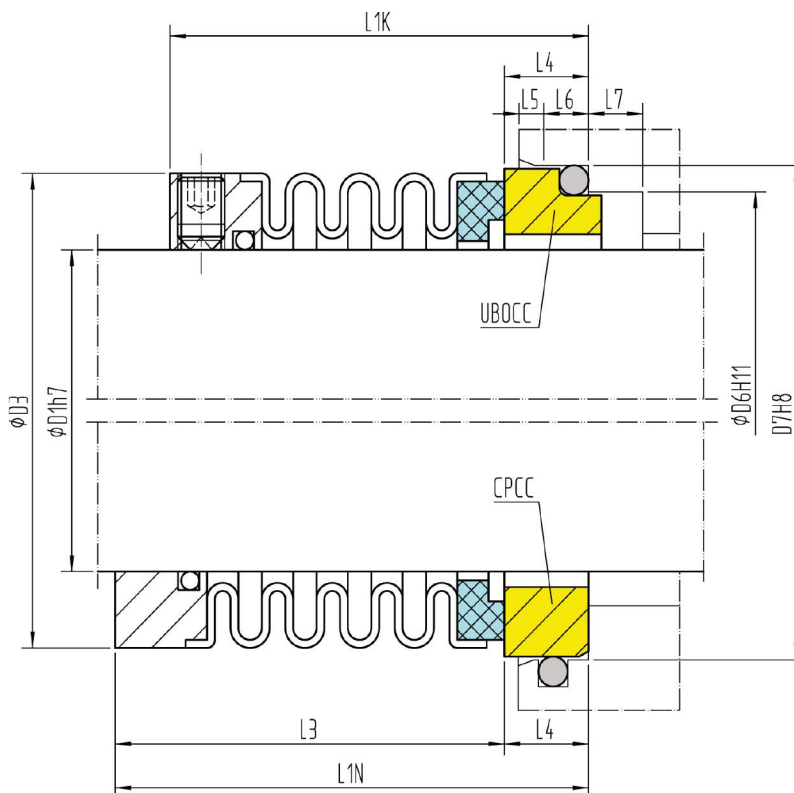
Operating limits:
 (look at working conditions page 112)

$p \leq$	20 bar
$t =$	$-35 \div 350^\circ\text{C}$
$v \leq$	20 m/s

Special fitting dimensions

D1	D6	D7	D3	L1K	L3	L4	L6	L5	L7	D	D5	E
25	35.2	41.3	39.7	49.4	42.8	6.6	3.8	2.4	6	3.2	32.2	4.4
28	38.3	44.5	42.8	46.3	39.7	6.6	3.8	2.4	6	3.2	35.4	4.4
30	41.5	47.6	46.0	49.4	42.8	6.6	3.8	2.4	6	3.2	38.6	4.4
32	44.7	51.0	46.0	49.4	42.8	6.6	3.8	2.4	6	3.2	41.8	4.4
33	47.9	54.0	49.0	51.1	44.5	6.6	3.8	2.4	6	3.2	44.9	4.8
35	54.2	60.0	49.0	52.5	44.5	8.0	4.6	2.0	6	3.2	51.3	4.8
38	57.4	63.5	55.1	52.5	44.5	8.0	4.6	2.0	6	4.2	54.5	4.8
40	60.5	66.7	58.3	52.5	44.5	8.0	4.6	2.0	6	4.2	57.6	4.8
43	63.7	70.0	61.5	52.5	44.5	8.0	4.6	2.0	6	4.2	60.8	4.8
45	70.0	76.0	62.3	53.3	44.5	8.8	4.6	2.8	8	4.2	67.1	4.8
48	73.3	79.4	64.6	53.3	44.5	8.8	4.6	2.8	8	4.2	70.3	4.8
50	76.4	82.5	67.8	53.3	44.5	8.8	4.6	2.8	8	4.2	73.5	4.8
53	79.6	85.7	71.0	53.3	44.5	8.8	4.6	2.8	8	4.2	76.7	4.8
55	79.6	85.7	74.2	57.2	47.6	9.6	4.6	3.6	8	4.2	76.7	4.8
60	82.8	89.0	77.3	57.2	47.6	9.6	4.6	3.6	8	4.2	80.1	4.8
63	85.8	95.0	81.0	59.1	47.6	11.5	6.4	3.6	6	4.2	83.1	4.8
65	89.0	98.4	84.1	59.1	47.6	11.5	6.4	3.6	6	4.2	86.1	4.8
68	92.2	101.6	87.3	59.1	47.6	11.5	6.4	3.6	6	4.2	89.2	4.8
70	95.3	104.8	87.3	59.1	47.6	11.5	6.4	3.6	6	4.2	92.4	4.8
75	98.5	108.0	95.3	59.1	47.6	11.5	6.4	3.6	6	4.8	95.6	4.8
80	101.7	111.0	98.4	59.1	47.6	11.5	6.4	3.6	6	4.8	98.8	4.8
85	104.9	114.3	105.0	60.1	47.6	12.5	6.4	4.7	7	4.8	102.0	4.8
90	108.2	117.5	109.5	60.1	47.6	12.5	6.4	4.7	7	4.8	105.2	4.8
95	111.2	120.7	114.3	60.1	47.6	12.5	6.4	4.7	7	4.8	108.3	4.8
100	114.4	123.8	120.7	60.1	47.6	12.5	6.4	4.7	7	4.8	111.5	4.8

Metal bellow seal
Robust construction
No dynamic O-ring
Shaft protecting
Self cleaning
Independent of rotation



Materials:

Rotary: A, B, Q, U
 Stationary: Q, U, V
 Metal Bellow: G, M1, M6
 Rubber parts: P, E, V, K, M

Operating limits:

(look at working conditions page 112)

p ≤	16 bar
t =	-35 ÷ 220 °C
v ≤	20 m/s

EN 12756 (DIN 24960)					UBOCC							Inch				CPCC			
D1	D6	D7	D3	L1K	L1N	L3	L4	L7	L6	L5	L8	D1	D6	D7	D3	L1	L3	L4	L6
18	17	33	31	37.5	45	31.5	13.5	9	5	2	3	0,750	21	35.12	31.00	41.8	31.5	10.3	6.75
20	19	35	31	37.5	45	31.5	13.5	9	5	2	3	0,875	24	38.3	36.00	47.3	37	10.3	6.75
22	21	37	31	37.5	45	31.5	13.5	9	5	2	3	1,000	27.5	41.48	39.00	48.65	37.5	11.15	6.75
24	23	39	36	40	50	31.5	13.5	9	5	2	3	1,125	30.5	44.65	42.00	49.15	38	11.15	6.75
25	27	40	36	40	50	37	13	9	5	2	3	1,250	33.5	47.83	46.00	54.15	43	11.15	6.75
28	29	43	39	42.5	50	37.5	12.5	9	5	2	3	1,375	37	51	48.50	54.15	43	11.15	6.75
30	31	45	42	42.5	50	38	12	9	5	2	3	1,500	40	54.18	51.50	53.15	42	11.15	6.75
32	33	48	46	42.5	55	43	12	9	5	2	3	1,625	43.5	60.53	58.40	59.75	47	12.75	6.75
33	34	48	46	42.5	55	43	12	9	5	2	3	1,750	46.5	63.7	58.40	59.75	47	12.75	6.75
35	37	50	48.5	42.5	55	43	12	9	5	2	3	1,875	49.5	66.88	63.70	59.25	46.5	12.75	6.75
38	39	56	51.5	45	55	42	13	9	6	2	4	2,000	53	70.05	63.70	59.25	46.5	12.75	6.75
40	42	58	54	45	55	42	13	9	6	2	4	2,125	56	76.4	69.00	70.83	56.5	14.33	6.75
43	42	61	58.3	45	60	47	13	9	6	2	4	2,250	59	79.58	73.30	70.83	56.5	14.33	6.75
45	44	63	58.3	45	60	47	13	9	6	2	4	2,375	62.5	82.75	76.70	70.83	56.5	14.33	6.75
48	49	66	63.7	45	60	47	13	9	6	2	4	2,500	65.5	85.93	79.40	70.83	56.5	14.33	6.75
50	51	70	63.7	47.5	60	46.5	13.5	9	6	2	4	2,625	68.5	85.93	83.00	82.43	66.5	15.93	6.75
53	54	73	69	47.5	70	56.5	13.5	9	6	2	4	2,750	72	89.1	87.80	82.43	65.5	15.93	6.75
55	56	75	71	47.5	70	56.5	13.5	9	6	2	4	2,875	75	95.45	94.00	82.43	65.5	15.93	6.75
58	59	78	73.3	52.5	70	56.5	13.5	9	6	2	4	3,000	78.5	98.63	94.00	82.43	65.5	15.93	6.75
60	62	80	76.7	52.5	70	56.5	13.5	9	6	2	4	3,125	81.5	101.8	100.60	94.84	75	19.84	6.75
63	65	83	79.4	52.5	70	56.5	13.5	9	6	2	4	3,250	84.5	104.98	100.60	94.84	75	19.84	6.75
65	67	85	83	52.5	80	66.5	13.5	9	6	2	4	3,375	88	108.15	106.00	94.84	75	19.84	6.75
68	70	90	87.8	52.5	80	66.5	13.5	9	7	2	4	3,500	91	111.33	110.30	94.84	75	19.84	6.75
70	72	92	87.8	60	80	65.5	14.5	9	7	2	4	3,625	94	114.5	114.90	94.84	75	19.84	6.75
75	75	97	94	60	80	65.5	14.5	9	7	2	4	3,750	97.5	117.68	114.90	94.84	75	19.84	6.75
80	77	105	100.6	60	90	75	15	9	7	2	4	3,875	100.5	120.85	121.30	94.84	75	19.84	6.75
85	81	110	106	60	90	75	15	9	7	2	4	4,000	103.5	124.03	121.30	94.84	75	19.84	6.75
90	83	115	110.3	65	90	75	15	9	7	2	4								
95	88	120	114.9	65	90	75	15	9	7	2	4								
100	95	125	121.3	65	90	75	15	9	7	2	4								