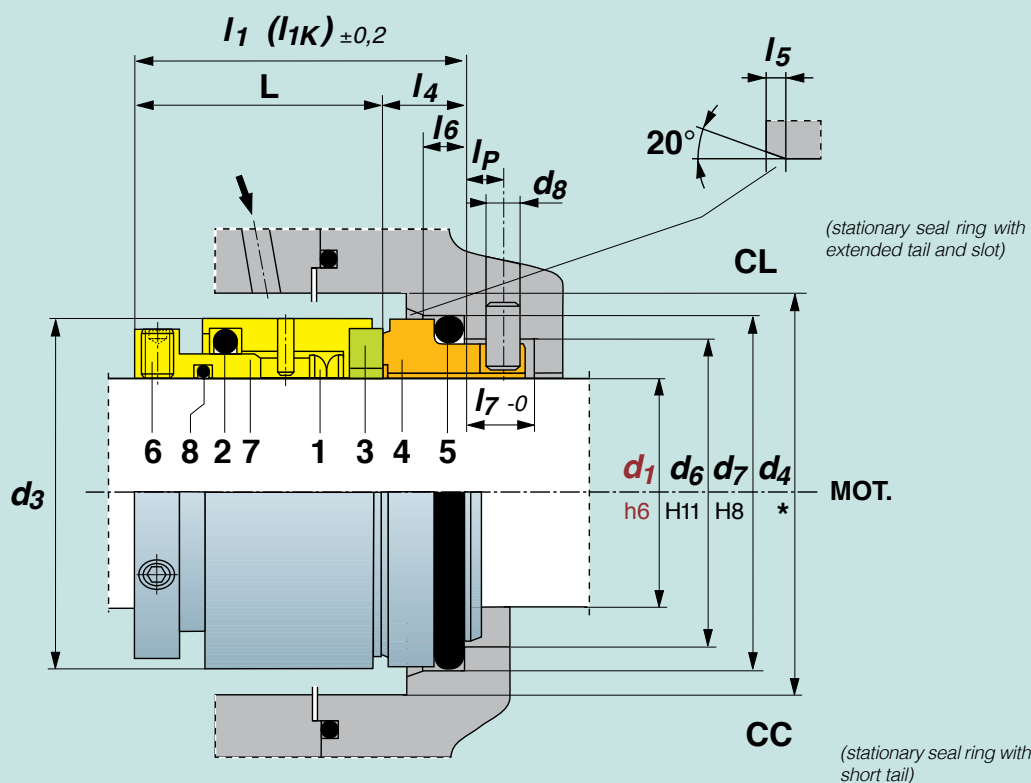


TYPE EHS



ROTEN

TYPE EHS - EHSB

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
16	21	26,9	31	33	35	28	7	3,7	1,3	2,5	7,6	4
18	25	30,9	36	40	35,5	27,5	8	3,7	1,3	3	8,5	4,5
19	25	30,9	38	42	35,5	27,5	8	3,7	1,3	3	8,5	4,5
20	25	30,9	38	42	35,5	27,5	8	3,7	1,3	3	8,5	4,5
22	30	35,4	39	43	35,5	27,5	8	3,7	1,8	3,5	8,5	5
24	30	35,4	40	44	38	30	8	3,7	1,8	3,5	8,5	5
25	33	38,2	40	44	38,5	30	8,5	3,7	1,8	4	9,1	5
28	38	43,3	44	48	41,5	32,5	9	3,7	1,8	4	9,6	6
30	38	43,3	44	48	41,5	32,5	9	3,7	1,8	4	9,6	6
32	38	43,3	47	52	41,5	32,5	9	3,7	1,8	4	9,6	6
35	45	53,5	50	55	44	32,5	11,5	5,4	2,1	5	12	7,5
38	52	60,5	55	60	43,5	32	11,5	5,4	2,1	5	12	7,5
40	52	60,5	58	63	43,5	32	11,5	5,4	2,1	5	12	7,5
43	52	60,5	62	67	43,5	32	11,5	5,4	2,1	5	12	7,5
45	57	65,5	64	69	43,5	32	11,5	5,4	2,1	5	13	8,5
48	57	65,5	67	72	43,5	32	11,5	5,4	2,1	5	13	8,5
50	64	72,5	70	75	45	33,5	11,5	5,4	2,1	5	13	8,5
55	64	72,5	78	83	45	33,5	11,5	5,4	2,1	5	13	8,5
60	72	79,3	82	88	50	38,5	11,5	5,4	2,1	5	13,5	8,5
65	77	84,5	89	95	50	38,5	11,5	5,4	2,1	5	13,5	8,5
70	82	89,5	94	100	55,5	44	11,5	5,4	2,1	5	13,5	8,5
75	87	94,5	103	109	55,5	44	11,5	5,4	2,1	5	13,5	8,5
80	92	99,5	108	114	53,5	42	11,5	5,4	2,1	5	13,5	8,5
85	98	105,5	113	119	55,5	42	13,5	5,4	2,6	5	13,5	8,5
90	105	111,5	118	124	60,5	47	13,5	5,4	2,6	5	13,5	8,5
95	110	116,5	120	129	60,5	47	13,5	5,4	2,6	5	13,5	8,5
100	114	119,5	128	134	60,5	47	13,5	5,4	2,6	5	13,5	8,5

Dimensions in mm.

UNITEN

EN 12756

TYPE EHS - EHSB

d_1	d_6	d_7	d_3	d_4	l_{1K}	L	l_4	l_6	l_5	d_8	l_7	l_P
16	23	27	31	33+	35	28	7	4	1,5	3	8,5	5
18	27	33	36	40+	37,5	27,5	10	5	2	3	9	5
20	29	35	38	42+	37,5	27,5	10	5	2	3	9	5
22	31	37	39	43+	37,5	27,5	10	5	2	3	9	5
24	33	39	40	44+	40	30	10	5	2	3	9	5
25	34	40	40	44+	40	30	10	5	2	3	9	5
28	37	43	44	48+	42,5	32,5	10	5	2	3	9	5
30	39	45	44	48+	42,5	32,5	10	5	2	3	9	5
32	42	48	47	52+	42,5	32,5	10	5	2	3	9	5
33	42	48	48	53+	42,5	32,5	10	5	2	3	9	5
35	44	50	50	55+	42,5	32,5	10	5	2	3	9	5
38	49	56	55	60+	45	32	13	6	2	4	9	5
40	51	58	58	63+	45	32	13	6	2	4	9	5
43	54	61	62	67+	45	32	13	6	2	4	9	5
45	56	63	64	69+	45	32	13	6	2	4	9	5
48	59	66	67	72+	45	32	13	6	2	4	9	5
50	62	70	70	75+	47,5	33,5	14	6	2,5	4	9	5
53	65	73	74	79+	47,5	33,5	14	6	2,5	4	9	5
55	67	75	78	83+	47,5	33,5	14	6	2,5	4	9	5
58	70	78	80	85+	52,5	38,5	14	6	2,5	4	9	5
60	72	80	82	88+	52,5	38,5	14	6	2,5	4	9	5
63	75	83	87	93+	52,5	38,5	14	6	2,5	4	9	5
65	77	85	89	95+	52,5	38,5	14	6	2,5	4	9	5
70	83	92	94	100+	60	44	16	7	2,5	4	9	5
75	88	97	103	109+	60	44	16	7	2,5	4	9	5
80	95	105	108	114+	60	42	18	7	3	4	9	5
85	100	110	113	119+	60	42	18	7	3	4	9	5
90	105	115	118	124+	65	47	18	7	3	4	9	5
95	110	120	123	129+	65	47	18	7	3	4	9	5
100	115	125	128	134+	65	47	18	7	3	4	9	5

Dimensions in mm.

+ This size is larger than the minimum prescribed by the EN norm

* The size d_4 is considered the minimum dimension for the stuffing box diameter.

Where possible, it is better to have a larger dimension or a conical stuffing box.

TYPE EHS

The most important feature of the type **EHS** is that the spring is not in contact with the sealed medium. It's a balanced and bi-directional model. The balancing design is realized through the driving sleeve and therefore it's not needed a stepped shaft.

It's suitable for high pressure and for dirty or viscous liquids. It's also easy to clean due to protected spring.

The Uniten version is full according with fitting dimensions of EN 12756 K version for unbalanced seals.

WE ALWAYS ADVISE TO CONSULT OUR TECHNICAL DEPARTMENT FOR ALL APPLICATION INVOLVING BALANCED SEALS.

MAX. WORKING CONDITIONS

These depend on: $\varnothing$ shaft, pressure, speed, temperature and fluid to be sealed.

p ≤ 40 bar

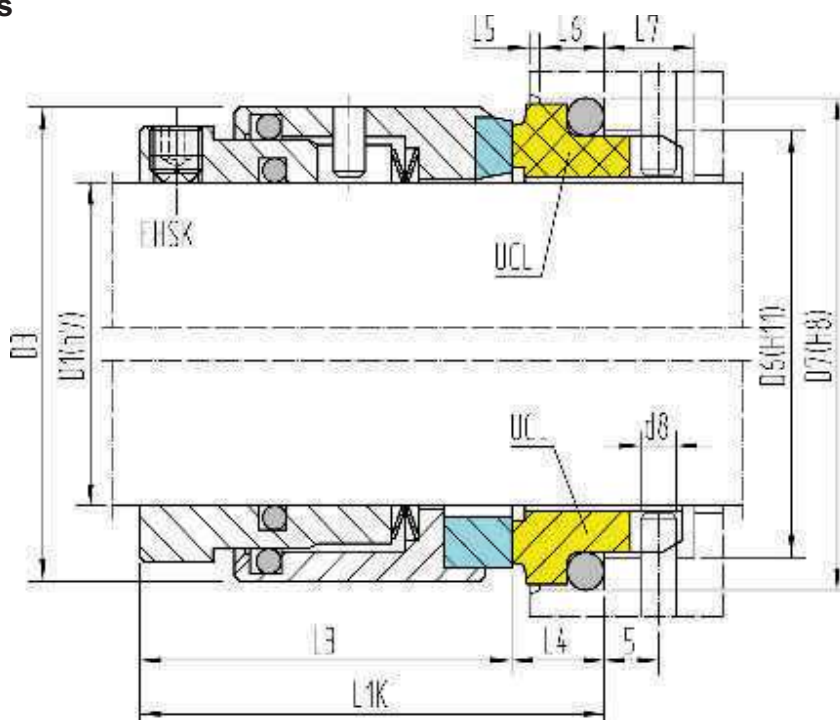
t = -35 ÷ 230°C

v ≤ 15 m/s



TYPE EHS - EHS		STANDARD MATERIALS							
POS.	COMPONENTS								
1	Spring	X1							
2	Shaft gasket	B1	E1	N1	P1	W1	Y1		
3	Rotary seal ring	D5	D6	J1	L1	X1	X3	X7	
4	Stationary seal ring	C4	K1	R1	V1	V2	V3	X3	
5	Stationary gasket	B1	C1	E1	F1	N1	P1	W1	Y1
6	Grub screws	H1	L1	X1					
7	Balanced sleeve	L1	X1						
8	Sleeve gasket	B1	E1	N1	P1	W1	Y1		

Universal high-pressure seal for plain shafts
Super-sinus spring, product protected
Shrunk or brazed seal rings
Food industry



Operating limits:
(look at working conditions page 112)

Materials:
Rotary: Q, U
Stationary: A, B, Q, U
Rubber parts: P, E, V, K, M

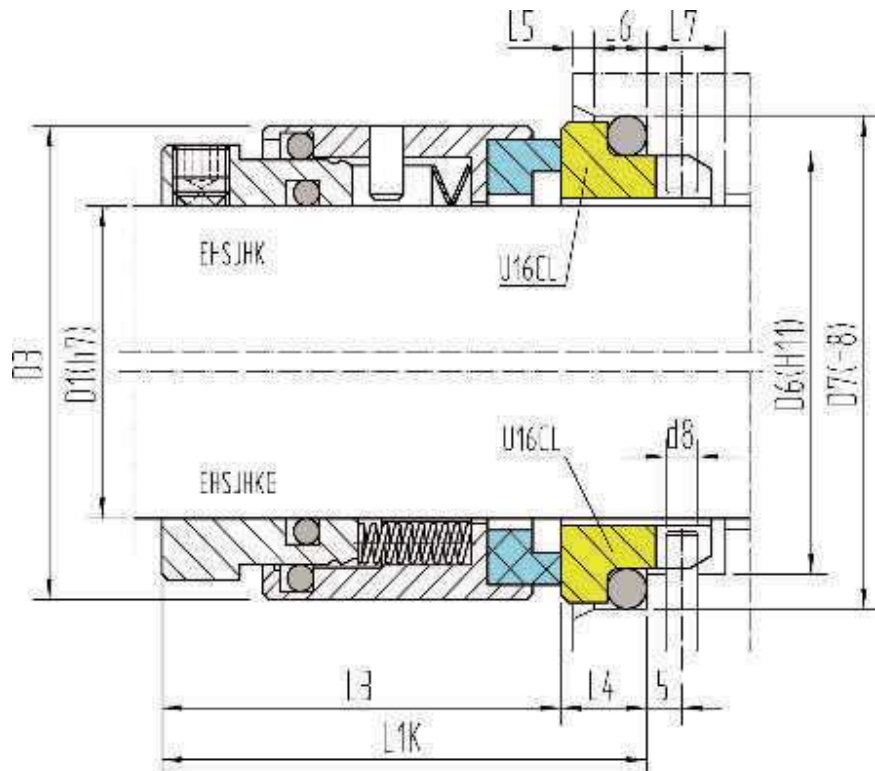
EHSK	
p ≤	25 bar
t =	-35 ÷ 140°C (220°C)
v ≤	15 m/s

EN 12756 (DIN 24960)

UCL

D1	D6	D7	D3	L1K	L3	L4	L6	L5	D8	L7
14	21	25	26	35	28	7	4	1.5	3	8.5
16	23	27	31	35	28	7	4	1.5	3	8.5
18	27	33	36	37.5	27.5	10	5	2	3	9
20	29	35	38	37.5	27.5	10	5	2	3	9
22	31	37	39	37.5	27.5	10	5	2	3	9
24	33	39	40	40	30	10	5	2	3	9
25	34	40	40	40	30	10	5	2	3	9
28	37	43	44	42.5	32.5	10	5	2	3	9
30	39	45	44	42.5	32.5	10	5	2	3	9
32	42	48	47	42.5	32.5	10	5	2	3	9
33	42	48	48	42.5	32.5	10	5	2	3	9
35	44	50	50	42.5	32.5	10	5	2	3	9
38	49	56	55	45	32	13	6	2	4	9
40	51	58	58	45	32	13	6	2	4	9
43	54	61	62	45	32	13	6	2	4	9
45	56	63	64	45	32	13	6	2	4	9
48	59	66	67	45	32	13	6	2	4	9
50	62	70	70	47.5	33.5	14	6	2.5	4	9
53	65	73	74	47.5	33.5	14	6	2.5	4	9
55	67	75	78	47.5	33.5	14	6	2.5	4	9
58	70	78	80	52.5	38.5	14	6	2.5	4	9
60	72	80	82	52.5	38.5	14	6	2.5	4	9
63	75	83	87	52.5	38.5	14	6	2.5	4	9
65	77	85	89	52.5	38.5	14	6	2.5	4	9
68	81	90	92	52.5	36.5	16	7	2.5	4	9
70	83	92	94	60	44	16	7	2.5	4	9
75	88	97	103	60	44	16	7	2.5	4	9
80	95	105	108	60	42	18	7	3	4	9
85	100	110	113	60	42	18	7	3	4	9
90	105	115	118	65	47	18	7	3	4	9
95	110	120	123	65	47	18	7	3	4	9
100	115	125	128	65	47	18	7	3	4	9

Universal high-pressure seal for plain shafts
Super-sinus spring, product protected or multiple springs
Shrunk seal rings
Food industry



Operating limits:
(look at working conditions page 112)

p ≤	25 bar
t =	-35 ÷ 140°C
v ≤	15 m/s

Materials:

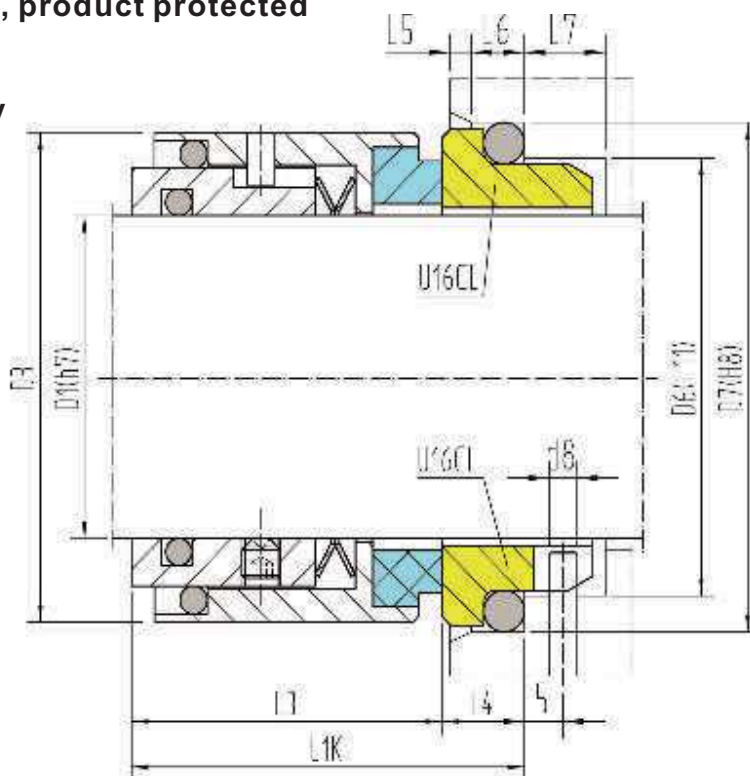
Rotary: A, B, Q, U

Stationary: Q, U

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

EN 12756 (DIN 24960)									U16CL	
D1	D6	D7	D3	L1K	L3	L4	L6	L5	D8	L7
14	21	25	25	35	29.5	5.5	4	1.5	3	8.5
16	23	27	26	35	29.5	5.5	4	1.5	3	8.5
18	27	33	32	37.5	30.5	7	5	2	3	9
20	29	35	34	37.5	30.5	7	5	2	3	9
22	31	37	36	37.5	30.5	7	5	2	3	9
24	33	39	38	40	33	7	5	2	3	9
25	34	40	39	40	33	7	5	2	3	9
28	37	43	42	42.5	35.5	7	5	2	3	9
30	39	45	44	42.5	35.5	7	5	2	3	9
32	42	48	47	42.5	35.5	7	5	2	3	9
33	42	48	47	42.5	35.5	7	5	2	3	9
35	44	50	49	42.5	35.5	7	5	2	3	9
38	49	56	54	45	37	8	6	2	4	9
40	51	58	56	45	37	8	6	2	4	9
43	54	61	59	45	37	8	6	2	4	9
45	56	63	61	45	37	8	6	2	4	9
48	59	66	64	45	37	8	6	2	4	9
50	62	70	66	47.5	38	9.5	6	2.5	4	9
53	65	73	69	47.5	38	9.5	6	2.5	4	9
55	67	75	71	47.5	38	9.5	6	2.5	4	9
58	70	78	78	52.5	42	10.5	6	2.5	4	9
60	72	80	80	52.5	42	10.5	6	2.5	4	9
63	75	83	83	52.5	42	10.5	6	2.5	4	9
65	77	85	85	52.5	42	10.5	6	2.5	4	9
68	81	90	88	52.5	41.5	11.5	7	2.5	4	9
70	83	92	90	60	48.5	11.5	7	2.5	4	9
75	88	97	99	60	48.5	11.5	7	2.5	4	9
80	95	105	104	60	48.5	11.5	7	3	4	9
85	100	110	109	60	48.5	11.5	7	3	4	9
90	105	115	114	65	52	13	7	3	4	9
95	110	120	119	65	52	13	7	3	4	9
100	115	125	124	65	52	13	7	3	4	9

Universal high-pressure seal for plain shafts
Super-sinus spring and set screws, product protected
Shrunk seal rings
Sterile applications
Food- and pharmaceutical industry



Customized special designs are possible !

Materials:

Rotary: B, Q, U

Stationary: Q, U

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

Operating limits:

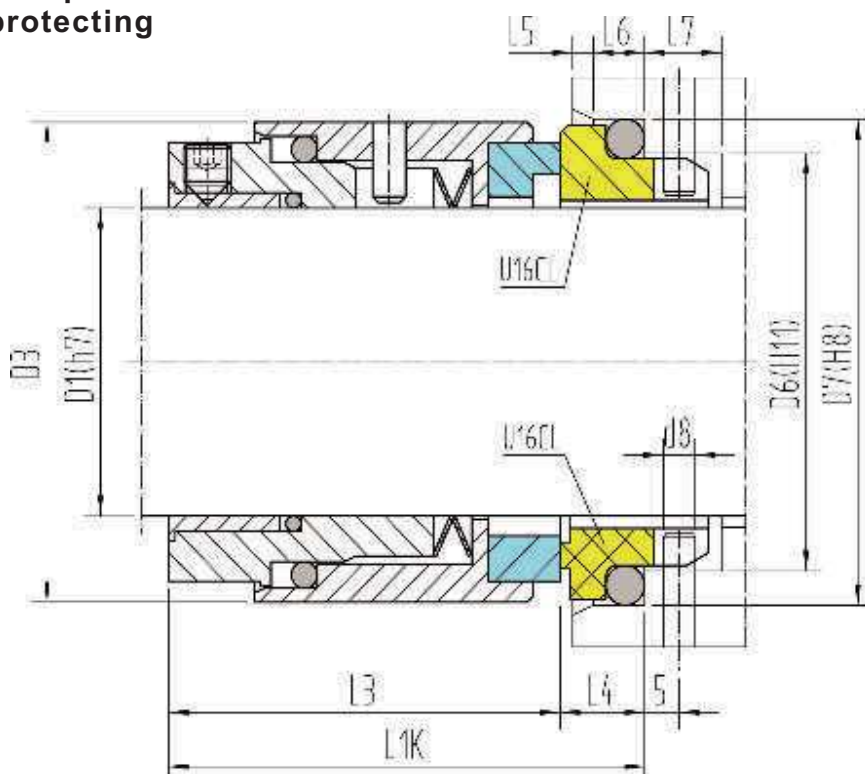
(look at working conditions page 112)

$p \leq$	25 bar
$t =$	$-35 \div 140^{\circ}\text{C}$
$v \leq$	15 m/s

EN 12756 (DIN 24960)

U16CL

D1	D6	D7	D3	L1K	L3	L4	L6	L5	D8	L7
14	21	25	25	35	29.5	5.5	4	1.5	3	8.5
16	23	27	30	35	29.5	5.5	4	1.5	3	8.5
18	27	33	32	37.5	30.5	7	5	2	3	9
20	29	35	34	37.5	30.5	7	5	2	3	9
22	31	37	36	37.5	30.5	7	5	2	3	9
24	33	39	38	40	33	7	5	2	3	9
25	34	40	39	40	33	7	5	2	3	9
28	37	43	42	42.5	35.5	7	5	2	3	9
30	39	45	44	42.5	35.5	7	5	2	3	9
32	42	48	47	42.5	35.5	7	5	2	3	9
33	42	48	47	42.5	35.5	7	5	2	3	9
35	44	50	49	42.5	35.5	7	5	2	3	9
38	49	56	54	45	37	8	6	2	4	9
40	51	58	56	45	37	8	6	2	4	9
43	54	61	59	45	37	8	6	2	4	9
45	56	63	61	45	37	8	6	2	4	9
48	59	66	64	45	37	8	6	2	4	9
50	62	70	66	47.5	38	9.5	6	2.5	4	9
53	65	73	69	47.5	38	9.5	6	2.5	4	9
55	67	75	71	47.5	38	9.5	6	2.5	4	9
58	70	78	78	52.5	42	10.5	6	2.5	4	9
60	72	80	80	52.5	42	10.5	6	2.5	4	9
63	75	83	83	52.5	42	10.5	6	2.5	4	9
65	77	85	85	52.5	42	10.5	6	2.5	4	9
68	81	90	-	52.5	41.5	11.5	7	2.5	4	9
70	83	92	90	60	48.5	11.5	7	2.5	4	9
75	88	97	99	60	48.5	11.5	7	2.5	4	9
80	95	105	104	60	48.5	11.5	7	3	4	9
85	100	110	109	60	48.5	11.5	7	3	4	9
90	105	115	114	65	52	13	7	3	4	9
95	110	120	119	65	52	13	7	3	4	9
100	115	125	124	65	52	13	7	3	4	9



Rotary: A, B, Q, U
Stationary: Q, U
Rubber parts: P, E, V, K, M

(look at working conditions page 112)

p ≤	25 bar
t =	-35 ÷ 140 °C
v ≤	15 m/s

EN 12756 (DIN 24960)								U16CL		
D1	D6	D7	D3	L1K	L3	L4	L6	L5	D8	L7
14	21	25	24	38*	32.5	5.5	4	1.5	3	8.5
16	23	27	26	40*	34.5	5.5	4	1.5	3	8.5
18	27	33	32	37.5	30.5	7	5	2	3	9
20	29	35	34	37.5	30.5	7	5	2	3	9
24	33	39	38	40	33	7	5	2	3	9
25	34	40	39	40	33	7	5	2	3	9
28	37	43	42	42.5	35.5	7	5	2	3	9
30	39	45	44	42.5	35.5	7	5	2	3	9
32	42	48	47	42.5	35.5	7	5	2	3	9
33	42	48	47	42.5	35.5	7	5	2	3	9
35	44	50	49	42.5	35.5	7	5	2	3	9
38	49	56	54	45	37	8	6	2	4	9
40	51	58	56	45	37	8	6	2	4	9
43	54	61	59	45	37	8	6	2	4	9
44	56	63	61	45	37	8	6	2	4	9
50	62	70	66	47.5	38	9.5	6	2.5	4	9
53	65	73	68.5	47.5	38	9.5	6	2.5	4	9
60	72	80	80	52.5	42	10.5	6	2.5	4	9
65	77	85	85	52.5	42	10.5	6	2.5	4	9
70	83	92	90	60	48.5	11.5	7	2.5	4	9
75	88	97	99	60	48.5	11.5	7	2.5	4	9
80	95	105	104	60	48.5	11.5	7	3	4	9
95	110	120	119	65	52	13	7	3	4	9
100	115	125	124	65	52	13	7	3	4	9
*not according to EN 12756										