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	Торцовые уплотнения с резиновым сильфоном	
	- NM-1	стр. 1
	– NM-2100	стр. 2
	- NM-4	стр. 3
	Торцовые уплотнения с конической пружиной	
	− NT-1	стр. 4
	- NT-2	стр. 5
	- NS-1 / NS-DN	стр. 6
	− BT-1	стр. 7
	Пружинные торцовые уплотнения	0
	NV-1NV-2	стр. 8 стр. 9
	- NV-3	стр. 10
	– BV-1	стр. 11
	– BV-2	стр. 12
	- BV-TNG	стр. 13
	- 113, 153, 153D	стр. 14
	Торцовые уплотнения с металлическим сильфоном	
	- NMM-1	стр. 15
	- NMM-G	стр. 15
Marine Las P	- NMM-2	стр. 16
	Внешние торцовые уплотнения	
	- CHEM NM-3	стр. 17
	- CHEM NV-4	
	— CHEIM INV-4	стр. 18
	Неподвижные седла	
	- S1, S2	стр. 19
	- S2G4, S3	стр. 20
	- S4, S5	стр. 21
	- S5G50, S6	стр. 22
	- S7,,S8	стр. 23
4	Картриджные уплотнения	
	- UCA	стр. 24
	- UCB	стр. 24
	- UCC	стр. 25
6 113	- UCD	стр. 25
	Торцовые уплотнения мешалок, смесителей, реакторов	
	- SEALMIX-1	стр. 26
	- SEALMIX-2	стр. 27
	- SLALIVIIA-2	CIP. 21
	Торцовые уплотнения по АРІ 682	
1/2	- APIX 1CW	стр. 36
	- APIX 2CW	стр. 37
	/ II // 2011	σιρ. στ
6	Tanasa shassa a sara-sara	
LA SE	Термосифонные системы — VS-4	OTD 20
Sill.		стр. 38
	- VS-10	стр. 38
	– VS-25	стр. 38

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Kroma Ltd,
, , ,
(
ISO 9001:2008)
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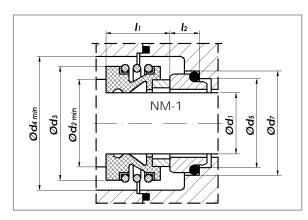


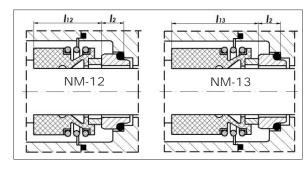




NM-1







	<u>:</u>		
_		()	
-		(A)	
-	-		()
_	(U ₃)		
_	(U3) (Q1, Q2)		
-	Al_2O_3 (V)		

	<u> </u>
-	, FKM (V)
_	(P)
- , E	EPDM (E)

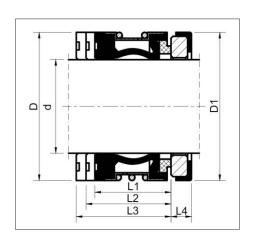
- p=16 - t=-20...140°C - v=10 /

S1	
S2 S2G4	
S5 S5G50	

d₁	d ₂	d ₃	d₄	d₅	d,	I ₁	l ₂	I ₁₂	I ₁₃
10	20.5	22	24	17	21	14.5	6.5	25,9	33,4
12	22.5	24.5	26	19	23	15	6.5	25,9	33,4
14	26.5	28	30	21	25	17	6.5	28,4	33,4
16	26.5	28	30	23	27	17	6.5	28,4	33,4
18	29	32.5	33	27	33	19.5	7.5	30	37,5
20	33	37	38	29	35	21.5	7.5	30	37,5
22	33	37	38	31	37	21.5	7.5	30	37,5
24	38	42.5	44	33	39	22.5	7.5	32,5	42.5
25	38	42.5	44	34	40	23	7.5	32,5	42,5
28	44	49	50	37	43	26.5	8.5	35	42.5
30	44	49	50	39	45	26.5	8.5	35	42.5
32	46	53.5	55	42	48	27.5	8.5	35	47.5
33	46	53.5	55	42	48	27.5	8.5	35	47.5
35	50	57	59	44	50	28.5	8.5	35	47.5
38	53	59	61	49	56	30	8.5	36	46
40	55	62	64	51	58	30	8.5	36	46
43	58	65.5	67	54	61	30	8.5	36	51
45	60	68	70	56	63	30	8.5	36	51
48	63	70	74	59	66	30.5	8.5	36	51
50	65	74	77	62	70	30.5	11	38	50.5
53	70	78	81	65	73	33	11	36,5	59
55	72	81	83	67	75	35	11	36,5	59 .
58	75	85	88	70	78	37	11	41,5	59
60	79	88	91	72	80	38	11	41,5	59
65	84	93	96	77	85	40	11	41,5	69
68	88	96	100	81	90	40	11	41,2	68,7
70	90	99	103	83	92	40	11	48,7	68,7
75	95	107	110	88	97	40	11	48,7	68,7
80	100	112	116	95	105	40	14	48	78
85	107	120	124	100	110	41	14	46	76
90	114	128	131	105	115	45	14	51	76
95	119	132	136	110	120	46	14	51	76
100	124	137	140	115	125	47	14	51	76

NM-2100

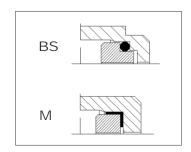




- (Q1, Q2) - Al₂O₃ (V)

- , FKM (V)
- (P)
- , EPDM (E)

: - p=16 - t=-20...140°C - v=10 /

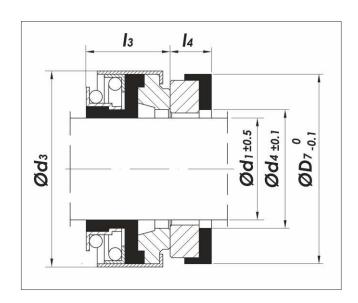


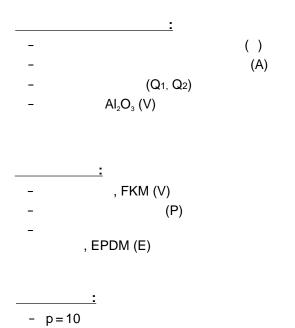
- NM-2100S (L1) - NM-2100K (L2) - NM-2100 (L3)

d	D	D1	L4	L1	L2	L3
10	20	21	5	15.2	27.7	35.2
12	22	23	6	15.2	26.7	34.2
14	24	25	6	15.2	29.2	34.2
15	25	26	6	15.2	29.2	34.2
16	26	27	6	15.2	29.2	34.2
18	32	33	6	20.2	31.7	39.2
20	34	35	6	20.2	31.7	39.2
22	36	37	6	20.2	31.7	39.2
24	38	39	6	20.2	34.2	44.2
25	39	40	6	20.2	34.2	44.2
28	42	43	6	26.2	36.7	44.2
30	44	45	7	26.2	35.7	43.2
32	46	48	7	26.2	35.7	48.2
33	47	48	7	26.2	35.7	48.2
35	49	50	8	26.2	34.7	47.2
38	54	56	8	30.2	37.2	47.2
40	56	58	8	30.2	37.2	47.2
43	59	61	8	30.2	37.2	52.2
45	61	63	8	30.2	37.2	52.2
48	64	66	10	30.2	35.2	50.2
50	66	70	10	30.2	37.7	50.2
53	69	73	10	30.2	37.7	60.2
55	71	75	10	30.2	37.7	60.2
58	78	78	10	33.2	42.7	60.2
60	80	80	12	33.2	40.7	58.2
63	83	83	12	33.2	40.7	58.2
65	85	85	12	33.2	40.7	68.2
68	88	90	12	33.2	40.7	68.2
70	90	92	12	33.2	48.2	68.2
75	99	97	12	40.2	48.2	68.2
80	104	105	14	40.2	47.7	77.7
85	109	110	14	40.2	47.7	77.7
90	114	115	14	40.2	52.7	77.7
95	119	120	14	40.2	52.7	77.7
100	124	125	14	40.2	52.7	77.7

NM-4







t = -20 ... 140°C v = 10 /

a₁	a₃	a₄	D_7	I ₃	tol	I ₄
6	18	23	22.0	8.0	+0.5/0	4.0
8	24	27	26.0	11.0	+0.5/0	8.0
10	24	27	26.0	11.0	+0.5/0	8.0
11	24	27	26.0	11.0	+0.5/0	8.0
12	24	27	26.0	12.8	+0.7/0	8.0
13	24	27	26.0	12.8	+0.7/0	8.0
14	32	35	29.5	12.8	+0.7/0	8.0
15	32	35	29.5	12.8	+0.7/0	8.0
16	39	43	38.0	12.8	+0.7/0	8.0
16	39	43	42.0	12.8	+0.7/0	8.0
17	39	43	42.0	12.8	+0.7/0	8.0
18	39	43	42.0	12.8	+0.7/0	8.0
19	39	43	42.0	12.8	+0.7/0	8.0
20	39	43	42.0	12.8	+0.7/0	8.0
22	42	47	45.0	12.8	+0.7/0	10.0
23	47	52	50.0	13.5	+1/0	10.0
24	47	52	50.0	13.5	+1/0	10.0
25	47	52	50.0	13.5	+1/0	10.0
26	47	52	50.0	13.5	+1/0	10.0
27	47	52	50.0	13.5	+1/0	10.0
28	54	60	57.0	15.0	+1/0	10.0
30	54	60	57.0	15.0	+1/0	10.0
32	54	60	57.0	15.0	+1/0	10.0
35	60	70	63.0	16.0	+1/0	10.0
38	65	75	68.0	18.0	+1/0	12.0
40	65	75	68.0	18.0	+1/0	12.0
45	70	80	73.0	20.0	+1/0	12.0
50	85	95	88.0	23.0	+1/0	15.0
60	105	115	110.0	30.0	+1/0	15.0

Na zahtev kupca mogu se isporu iti zaptiva i željenih dimenzija

NT-1

DIN 24960



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- DIN 24960 (EN12756)

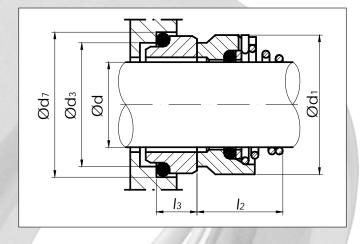
- (A, B)

- (U₃) - (Q₁, Q₂) - Al₂O₃ (V)

- p = 10

- t = -20 ... 180 °C - v = 15 /

±1



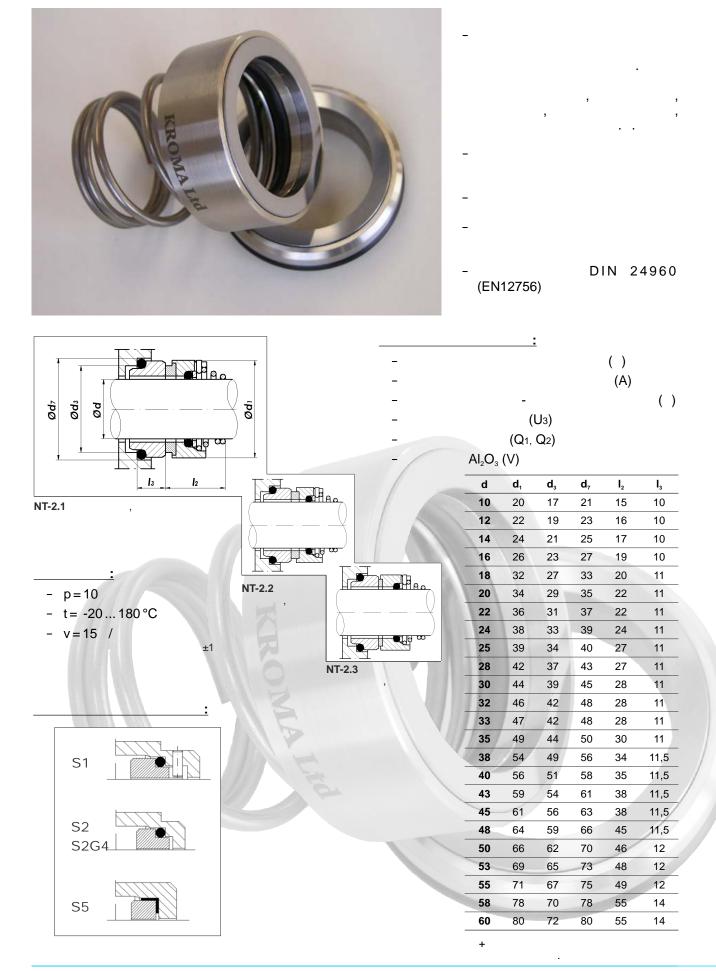
d	d ₁	d_3	d ₇		l ₃ /
10	20	17	21	17	10
12	22	19	23	17	10
14	25	21	25	17	10
16	26	23	27	19	10
18	32	27	33	20	11
20	34	29	35	22	11
22	36	31	37	22	11
24	38	33	39	24	11
25	39	34	40	27	11
28	42	37	43	27	11
30	44	39	45	28	11

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NT-2

DIN 24960



NS-1



- Al₂O₃ (V) - (Q₁, Q₂)

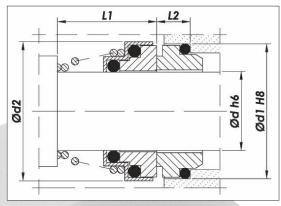
- (A, B) - (Q₁, Q₂)

- p = 10 - t = -20 ... 180 °C - v = 20 /

±0,5

NS-DN DIN 24960 (EN 12756)

d	d ₂	d ₁	L	L ₂
10	20	21	15	7
12	22	23	18	7
14	24	25	22	7
16	26	27	23	7
18	32	33	24	10
20	33	35	25	10
22	36	37	25	10
24	37.4	39	27	10
25	38	40	27	10
28	42	43	29	10
30	44	/45	30	10
32	45.5	48	30	10
33	46.5	48	39	10
35	49	50	39	10
38	56	56	42	13
40	58	58	42	13



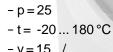
d	d ₂	d₁	L ₁	L ₂
10	19.5	18.1	15	5.5
11	22	20.6	18	5.5
12	23	20.6	18	5.5
13	25	23.1	22	6
14	25	23.1	22	6
15	28.7	26.9	22	7
16	28.7	26.9	23	7
17	28.7	26.9	23	7
18	32.7	30.9	24	8
19	32.7	30.9	25	8
20	32.7	30.9	25	8
21	37.5	35.4	25	8
22	37.5	35.4	25	8
23	37.5	35.4	27	8
24	37.5	35.4	27	8
25	40	38.2	27	8.5
28	45.5	43.3	29	9
29	45.5	43.3	30	9
30	45.5	43.3	30	9
32	45.5	43.3	30	9
33	48	53.5	39	11.5
35	50	53.5	39	11.5
38	56	60.5	39	11.5
40	58	60.5	39	11.5

BT-1

DIN 24960

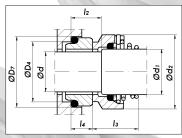
(EN12756)

DIN 24960



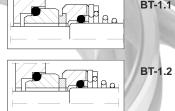
-t= -20 ... 180 °C -v = 15 /

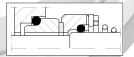




BT-1.1

BT-1.3







-		() (A)
	-	
-	(U ₃)	
===	(U3) (Q1, Q2)	
-	Al_2O_3 (V)	

d	d₁	d ₂	D_4	D ₇	l ₂	l ₃	I ₄
10	14	24	17	21	18	26	10
12	16	26	19	23	18	27	10
14	18	31	21	25	18	30	10
16	20	34	23	27	18	32	10
18	22	36	27	33	20	33	11
20	24	38	29	35	20	33	11
22	26	40	31	37	20	33	11
24	28	42	33	39	20	33	11
25	30	44	34	40	20	34	11
28	33	47	37	43	20	36	11
30	35	49	39	45	20	36	11
32	38	54	42	48	20	40	11
33	38	54	42	48	20	40	11
35	40	56	44	50	20	44	11
38	43	59	49	56	23	47	11.5
40	45	61	51	58	23	48	11.5
43	48	64	54	61	23	50	11.5
45	50	66	56	63	23	53	11.5
48	53	69	59	66	23	53	11.5
50	55	71	62	70	25	58	12
53	58	78	65	73	25	58	14
55	60	80	67	75	25	60	14
58	63	83	70	78	25	60	14
60	65	85	72	80	25	60	14

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NV-1

DIN 24960



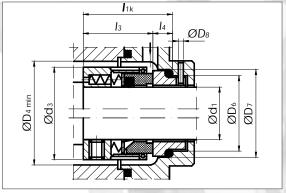
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-	
-	

DIN 24960 (EN12756)

	<u>:</u>		
_	(A,)		
-	-	()	
_	(U ₃)		
_	(Q ₁ , Q ₂)		
-	Al_2O_3 (V)		
	:		
_	, FKM (V)		
-	(P)		
_		, EPDM (E)	

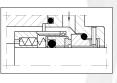
-		, EPDM (E
-	, PTFE	

- p = 16 (25)
- t=-50...220°C
- v = 20 /

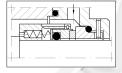


				_				
d₁	d ₃	D ₄	D_6	D ₇	D ₈	I ₃	I ₄	I _{1k}
18	32	34	27	33	3	26	11.5	37.5
20	34	36	29	35	3	26	11.5	37.5
22	36	38	31	37	3	26	11.5	37.5
24	38	40	33	39	3	28.5	11.5	40
25	39	41	34	40	3	28.5	11.5	40
28	42	44	37	43	3	31	11.5	42.5
30	44	46	39	45	3	31	11.5	42.5
32	46	48	42	48	3	31	11.5	42.5
33	47	49	42	48	3	31	11.5	42.5
35	49	51	44	50	3	31	11.5	42.5
38	54	58	49	56	4	31	14	45
40	56	60	51	58	4	31	14	45
43	59	63	54	61	4	31	14	45
45	61	65	56	63	4	31	14	45
48	64	68	59	66	4	31	14	45
50	66	70	62	70	4	32.5	15	47.5
53	69	73	65	73	4	32.5	15	47.5
55	71	75	67	75	4	32.5	15	47.5
58	78	83	70	78	4	37.5	15	52.5
60	80	85	72	80	4	37.5	15	52.5
63	83	88	75	83	4	37.5	15	52.5
65	85	90	77	85	4	37.5	15	52.5
68	88	93	81	90	4	37.5	15	52.5
70	90	95	83	92	4	43	17	60
75	99	104	88	97	4	43	17	60
80	104	109	95	105	4	43	17	60
85	109	114	100	110	4	43	17	60
90	114	119	105	115	4	48	17	65
95	119	124	110	120	4	48	17	65
100	124	129	115	125	4	48	17	65

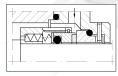
NV-1/SC/





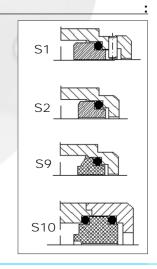






NV-1.3





NV-2

DIN 24960

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DIN 24960 (EN12756)



 D_8

 I_3

28.5

28.5

32.5

32.5

32.5

37.5

37.5

37.5

37.5

37.5

I₄

11.5

11.5

11.5

11.5

11.5

11.5

11.5

11.5

11.5

11.5

 I_{1k}

37.5

37.5

37.5

42.5

42.5

42.5

42.5

42.5

47.5

47.5

47.5

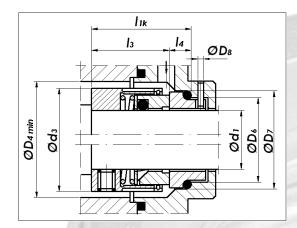
52.5

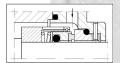
52.5

52.5

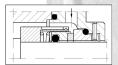
52.5

52.5

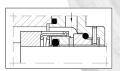




NV-2.1



NV-2.2



NV-2.3

A		
1		
1	1 6	7
	6	



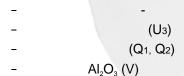
d₁

d₃

 D_4

 D_6

 D_7



(A,)

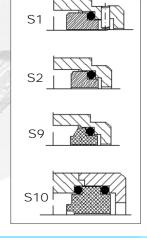
- p = 16(25)

- t=-50 ... 220°C

- v = 20 /







NV-3

DIN 24960

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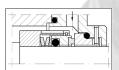
_

_

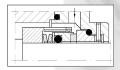
DIN 24960 (EN12756)



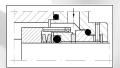
	lik -
	- 13 14 D8
ØD4 min Ød3	
<u>@</u> <u>@</u>	
1	



NV-3.1



NV-3.2



NV-3.3

6.1		(A,)	
-///				
- 707				(U ₃)
- 7/4			(Q	1, Q 2)
\- //III	Al	2O3 ((V)	

- p = 16 (25)
- t=-50...220°C
- v = 20 /

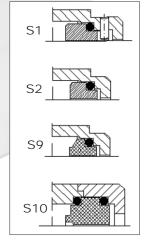
d₁	d₃	D_4	D_6	\mathbf{D}_{7}	D_8	l ₃	I ₄	I_{1k}
18	32	34	27	33	3	26	11.5	37.5
20	34	36	29	35	3	26	11.5	37.5
22	36	38	31	37	3	26	11.5	37.5
24	38	40	33	39	3	28.5	11.5	40
25	39	41	34	40	3	28.5	11.5	40
28	42	44	37	43	3	31	11.5	42.5
30	44	46	39	45	3	31	11.5	42.5
32	46	48	42	48	3	31	11.5	42.5
33	47	49	42	48	3	31	11.5	42.5
35	49	51	44	50	3	31	11.5	42.5
38	54	58	49	56	4	31	14	45
40	56	60	51	58	4	31	14	45
43	59	63	54	61	4	31	14	45
45	61	65	56	63	4	31	14	45
48	64	68	59	66	4	31	14	45
50	66	70	62	70	4	32.5	15	47.5
53	69	73	65	73	4	32.5	15	47.5
55	71	75	67	75	4	32.5	15	47.5
58	78	83	70	78	4	37.5	15	52.5
60	80	85	72	80	4	37.5	15	52.5
63	83	88	75	83	4	37.5	15	52.5
65	85	90	77	85	4	37.5	15	52.5
68	88	93	81	90	4	37.5	15	52.5
70	90	95	83	92	4	43	17	60
75	99	104	88	97	4	43	17	60
80	104	109	95	105	4	43	17	60
85	109	114	100	110	4	43	17	60
90	114	119	105	115	4	48	17	65
95	119	124	110	120	4	48	17	65
100	124	129	115	125	4	48	17	65



()



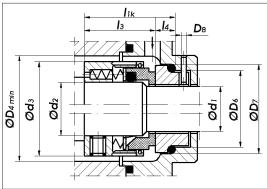


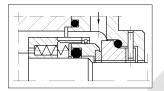


BV-1

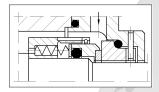
DIN 24960



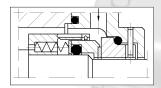








BV-1.2



BV-1.3

-	(A,)
-	-
-	(U3) (Q1, Q2)
_	(Q ₁ , Q ₂)
-	Al_2O_3 (V)

- p = 25 (40)
- t = -50 ... 220°C
- v = 20 /

-

DIN 24960 (EN12756)

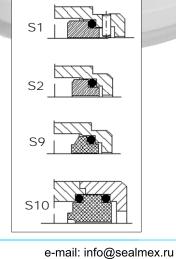
	d₁	d ₂	d ₃	$D_{\scriptscriptstyle{4}}$	D_6	D,	D ₈	I ₃	I ₄	I _{1k}
	18	22	36	38	27	33	3	33.5	11.5	45
	20	24	38	40	29	35	3	33.5	11.5	45
	22	26	40	42	31	37	3	33.5	11.5	45
	24	28	42	44	33	39	3	36.0	11.5	47.5
	25	30	44	46	34	40	3	36.0	11.5	47.5
	28	33	47	49	37	43	3	38.5	11.5	50
	30	35	49	51	39	45	3	38.5	11.5	50
	32	38	54	58	42	48	3	38.5	11.5	50
	33	38	54	58	42	48	3	38.5	11.5	50
_	35	40	56	60	44	50	3	38.5	11.5	50
	38	43	59	63	49	56	4	38.5	14.0	52.5
	40	45	61	65	51	58	4	38.5	14.0	52.5
	43	48	64	68	54	61	4	38.5	14.0	52.5
	45	50	66	70	56	63	4	38.5	14.0	52.5
-	48	53	69	73	59	66	4	38.5	14.0	52.5
	50	55	71	75	62	70	4	42.5	15.0	57.5
	53	58	78	83	65	73	4	42.5	15.0	57.5
9	55	60	80	85	67	75	4	42.5	15.0	57.5
	58	63	83	88	70	78	4	47.5	15.0	62.5
-	60	65	85	90	72	80	4	47.5	15.0	62.5
	63	68	88	93	75	83	4	47.5	15.0	62.5
	65	70	90	95	77	85	4	47.5	15.0	62.5
	70	75	99	104	83	92	4	53.0	17.0	70
	75	80	104	109	88	97	4	53.0	17.0	70
_	80	85	109	114	95	105	4	53.0	17.0	70
	85	90	114	119	100	11 0	4	58.0	17.0	75
1	90	95	119	124	105	115	4	58.0	17.0	75
	95	100	124	129	110	120	4	58.0	17.0	75
	100	105	129	134	115	125	4	58.0	17.0	75



()

BV-1/SC/





BV-2

DIN 24960



 D_6

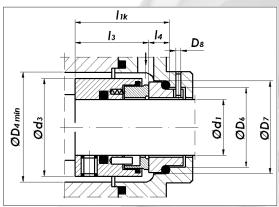
D,

d₃

d₁

D₄

DIN 24960 (EN12756)



[
-71	(A,)	
-341	(U3)	
34/	(Q ₁ , Q ₂)	
-	Al ₂ O ₃ (V)	
_	, FKM (V)	
-	(P)	
-	,	, EPDM (E)
-	, FFKM (, , ,
Kalrez®)		

18	32	34	27	33	3	30	7.5	37.5
20	34	36	29	35	3	30	7.5	37.5
22	36	38	31	37	3	30	7.5	37.5
24	38	40	33	39	3	32.5	7.5	40
25	39	41	34	40	3	32.5	7.5	40
28	42	44	37	43	3	34	8.5	42.5
30	44	46	39	45	3	34	8.5	42.5
32	46	48	42	48	3	34	8.5	42.5
33	47	49	42	48	3	34	8.5	42.5
35	49	51	44	50	3	34	8.5	42.5
38	54	58	49	56	4	36.5	8.5	45
40	56	60	51	58	4	36.5	8.5	45
43	59	63	54	61	4	36.5	8.5	45
45	61	65	56	63	4	36.5	8.5	45
48	64	68	59	66	4	36.5	8.5	45
50	66	70	62	70	4	36.5	11	47.5
53	69	73	65	73	4	36.5	11	47.5
55	71	75	67	75	4	36.5	11	47.5
58	78	83	70	78	4	41.5	11	52.5
60	80	85	72	80	4	41.5	11	52.5
63	83	88	75	83	4	41.5	11	52.5
65	85	90	77	85	4	41.5	11	52.5
68	88	93	81	90	4	41.5	11	52.5
70	90	95	83	92	4	49	11	60
75	99	104	88	97	4	49	11	60
80	104	109	95	105	4	46	14	60
85	109	114	100	110	4	46	14	60
90	114	119	105	115	4	51	14	65
95	119	124	110	120	4	51	14	65
100	124	129	115	125	4	51	14	65
			#					

p = 40

FEP

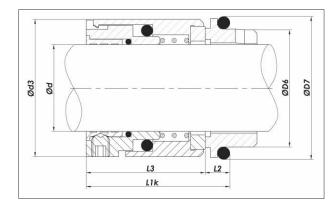
t=-50...220°C

- v = 20 /

BV-TNG

DIN 24960





	<u>:</u>	
-	(A,)	
-	(U ₃)	
_	(Q ₁ , Q ₂)	
-	Al_2O_3 (V)	
	:	
_	, FKM (V)	
=	(P)	
-		, EPDM (E)
-	, FFKM (
Kalrez®))	
- FEP		,
	<u>:</u>	

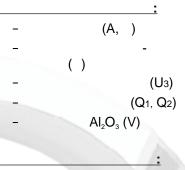
- p=40 - t=-50...220°C - v=20 / DIN 24960 (EN12756)

d	dз	D ₆	D ₇	L _{1k}	L ₂	L ₃
14	24.0	21	25	38.0	5.5	32.5
16	26.0	23	27	40.0	5.5	34.5
18	32.0	27	33	37.5	7.0	30.5
20	34.0	29	35	37.5	7.0	30.5
24	38.0	33	39	40.0	7.0	33.0
25	39.0	34	40	40.0	7.0	33.0
28	42.0	37	43	42.5	7.0	35.5
30	44.0	39	45	42.5	7.0	35.5
32	47.0	42	48	42.5	7.0	35.5
33	47.0	42	48	42.5	7.0	35.5
35	49.0	44	50	42.5	7.0	35.5
38	54.0	49	56	45.0	8.0	37.0
40	56.0	51	58	45.0	8.0	37.0
43	59.0	54	61	45.0	8.0	37.0
44	61.0	56	63	45.0	8.0	37.0
50	66.0	62	70	47.5	9.5	38.0
53	68.5	65	73	47.5	9.5	38.0
60	80.0	72	80	52.5	10.5	42.0
65	85.0	77	85	52.5	10.5	42.0
70	90.0	83	92	60.0	11.5	48.5
75	99.0	88	97	60.0	11.5	48.5
80	104.0	95	105	60.0	11.5	48.5
95	119.0	110	120	65.0	13.0	52.0
100	124.0	115	125	65.0	13.0	52.0

26-06-1493-87

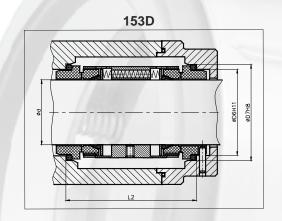


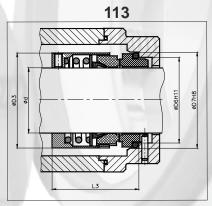
26-06-1493-87

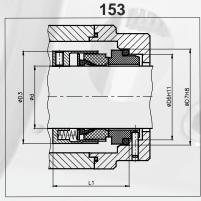


, PTFE

- p = 16 (25)
- t=-50...220°C
- v = 20 /













d	D3	D6	D7	L1	L2	L3
33	47	42	48	42,5	76	55
40	56	51	58	45	84	55
48	64	59	66	45	86	60
55	71	67	75	47,5	89	70
60	80	72	86	52,5	100	70
70	90	83	92	60	100	80
75	99	88	97	60	100	80

NMM-1

-

_

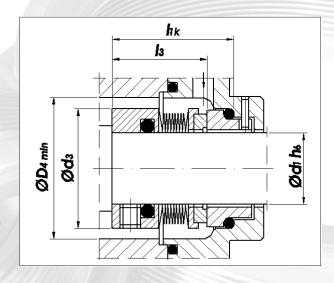
_

_

-

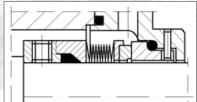
DIN 24960 (EN12756)





NMM-G

DIN 24960)



- p = 15
- t=-50 ... 220°C (NMM-1)
- t = -20 ... 350°C (NMM-G)
- v = 25 /

-	(A,))	
-	(U ₃)	
-	(U3) (Q1, Q2)	
-	, FKM (V)	
-	(P)	
_		, EPDM (E)
-		, (G)
		<u> </u>

d₁	d_3	D _{4min}	l ₃	l _{1k}
20	34	36	25.5	37.5
22	36	38	25.5	37.5
24	38	40	28	40
25	39	41	28.	40
28	42	44	.30.5	42.5
30	44	46	30.5	42.5
32	46	48	30.5	42.5
33	47	49	30.5	42.5
35	49	51	30.5	42.5
38	52.5	56	32	45
40	54.5	58	32	45
43	58	62	32	45
45	60	64	32	45
48	63	67	32	45
50	66	70	34	47.5
53	69	73	34	47.5
55	71	75	34	47.5
58	74	78	39	52.5
60	76.5	80	39	52.5
63	79.5	84	39	52.5
65	81.5	85	39	52.5
68	85	89	39	52.5
70	88	92	45.5	60
75	93.5	98	45.5	60
80	98.5	103	45	60
85	105	110	45	60
90	110	115	50	65
95	115	120	50	65
100	120	125	50	65



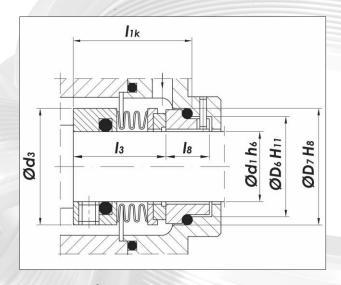




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NMM-2

DIN 24960 (EN12756)



- p = 15
- t=-50...220°C (NMM-1)
- t = -20 ... 350°C (NMM-G)
- v = 25 /.

NMM-2/SC/





-	(A,))	
-	(U3)	
-	(Q1, Q2)	
-	, FKM (V)	
-	(P)	
-		, EPDM (E)

d,	d_3	$D_{\scriptscriptstyle{6}}$	D_7	l _{1k}		l ₈
20	34	29	35	37.5	30.5	15.0
22	36	31	37	37.5	30.5	15.0
24	39	33	39	40.0	33.0	15.0
25	39	34	40	40.0	33.0	15.0
28	42	37	43	42.5	35.5	15.0
30	44	39	45	42.5	35.5	15.0
32	46	42	48	42.5	35.5	15.0
33	47	42	48	42.5	35.5	15.0
35	49	44	50	42.5	35.5	15.0
38	54	49	56	45.0	37.0	16.0
40	56	51	58	45.0	37.0	16.0
43	59	54	61	45.0	37.0	16.0
45	61	56	63	45.0	37.0	16.0
48	64	59	66	45.0	37.0	16.0
50	66	62	70	47.5	38.0	17.0
53	69	65	73	47.5	38.0	17.0
55	71	67	75	47.5	38.0	17.0
58	78	70	78	52.5	42.0	18.0
60	80	72	80	52.5	42.0	18.0
63	83	75	83	52.5	42.0	18.0
65	85	77	85	52.5	42.0	18.0
68	87	81	90	52.5	41.5	18.5
70	90	83	92	60.0	48.5	19.0
75	99	88	97	60.0	48.5	19.0
80	104	95	105	60.0	48.5	19.0
85	109	100	110	60.0	48.5	19.0
90	114	105	115	65.0	52.0	20.5
95	119	110	120	65.0	52.0	20.5
100	124	115	125	65.0	52.0	20.5

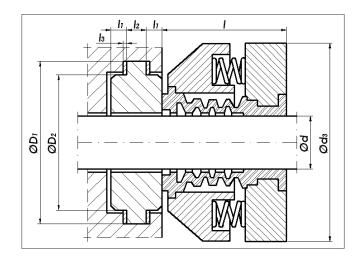
CHEM NM-3

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-





_

- (Δ R)

- (A, B) - (Q1) - (V)

____<u>:</u>

- p = 8 - t = -40 ... 160 °C

- v = 10 /

d	D ₁	$D_{\scriptscriptstyle 2}$	d ₃	ı	I,	l ₂	I ₃
16	49	38,0	54	32	5,0	8,0	1,0
18	49	38,0	54	32	5,0	8,0	1,0
20	52	41,0	57	32	5,0	8,0	1,0
22	52	41,0	57	32	5,0	8,0	1,0
24	55	44,0	61	34	5,0	8,0	1,0
25	55	44,0	61	34	5,0	8,0	1,0
28	66	52,0	67	37	8,0	11,0	1,5
30	69	55,0	70	38	8,0	11,0	1,5
32	69	55,0	70	38	8,0	11,0	1,5
33	72	58,0	73	39	8,0	11,0	1,5
35	72	58,0	73	39	8,0	11,0	1,5
38	79	65,0	76	39	8,0	11,0	1,5
40	82	68,0	80	41	8,0	11,0	1,5
43	85	71,0	83	41	8,0	11,0	1,5
45	85	71,0	83	41	8,0	11,0	1,5
48	98	80,0	89	44	10,0	14,0	1,5
50	98	80,0	89	44	10,0	14,0	1,5
53	101	84,0	103	54	10,0	14,0	1,5
55	104	87,0	107	54	10,0	14,0	1,5
58	106	90,0	110	54	10,0	14,0	1,5
60	106	90,0	110	54	10,0	14,0	1,5
63	111	93,0	113	54	10,0	14,0	1,5
65	114	96,0	116	54	10,0	14,0	1,5
68	117	99,0	118	54	10,0	14,0	1,5
70	117	99,0	118	54	10,0	14,0	1,5
75	122	104,0	126	54	10,0	14,0	1,5
80	133	115,0	150	74	10,0	14,0	1,5
85	139	122,0	156	74	10,0	14,0	1,5
90	145	128,0	163	74	10,0	14,0	1,5
95	145	128,0	163	74	10,0	14,0	1,5
100	152	134,0	169	74	10,0	14,0	1,5
105	158	141,0	175	74	10,0	14,0	1,5
110	184	160,0	182	74	10,0	14,0	1,5
115	190	166,0	188	74	10,0	14,0	1,5
120	190	166,0	188	74	10,0	16,0	1,5
125	196	172,0	194	74	10,0	16,0	1,5
130	203	179,0	201	74	10,0	16,0	1,5
135	209	185,0	207	74	10,0	16,0	1,5
140	215	191,0	213	74	10,0	16,0	1,5
145	215	191,0	213	74	10,0	16,0	1,5
150	228	201,0	220	74	10,0	16,0	1,5
155	234	207,0	226	74	10,0	16,0	1,5
160	241	214,0	232	74	10,0	16,0	1,5
165	241	214,0	232	74	10,0	16,0	1,5

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e-mail: info@sealmex.ru

CHEM NV-4



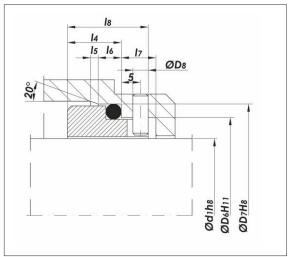


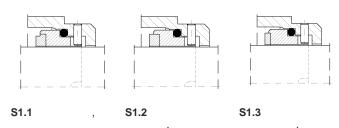
ООО "СИЛМЕКС" Тел./факс: (495) 989-40-87

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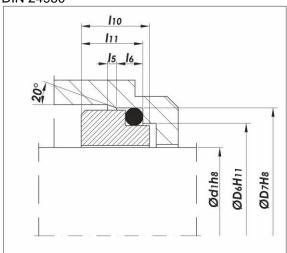
d	D ₁	D_2	d_3	а	b	1//	
25	53	42	60	5,0	8	42	
30	60	49	65	7,5	11	42	
35	68	54	70	7,5	11	42	
45	81	67	80	7,5	11	42	
50	86	72	85	7,5	11	42	

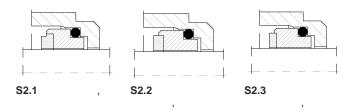
S1 DIN 24960





S2 DIN 24960

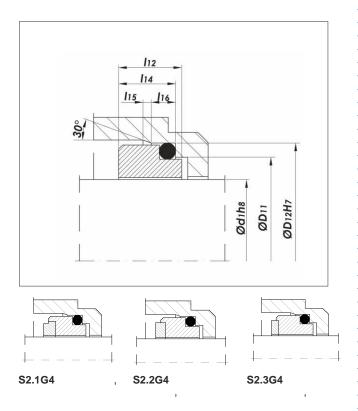




d ₁	D_6	D,	D ₈	I ₄	I ₅	I ₆	I ₇	I ₈
10	17	21	3	10.0	1.5	4	8.5	17.5
12	19	23	3	10.0	1.5	4	8.5	17.5
14	21	25	3	10.0	1.5	4	8.5	17.5
16	23	27	3	10.0	1.5	4	8.5	17.5
18	27	33	3	11.5	2.0	5	9.0	19.5
20	29	35	3	11.5	2.0	5	9.0	19.5
22	31	37	3	11.5	2.0	5	9.0	19.5
24	33	39	3	11.5	2.0	5	9.0	19.5
25	34	40	3	11.5	2.0	5	9.0	19.5
28	37	43	3	11.5	2.0	5	9.0	19.5
30	39	45	3	11.5	2.0	5	9.0	19.5
32	42	48	3	11.5	2.0	5	9.0	19.5
33	42	48	3	11.5	2.0	5	9.0	19.5
35	44	50	3	11.5	2.0	5	9.0	19.5
38	49	56	4	14.0	2.0	6	9.0	22.0
40	51	58	4	14.0	2.0	6	9.0	22.0
43	54	61	4	14.0	2.0	6	9.0	22.0
45	56	63	4	14.0	2.0	6	9.0	22.0
48	59	66	4	14.0	2.0	6	9.0	22.0
50	62	70	4	15.0	2.5	6	9.0	23.0
53	65	73	4	15.0	2.5	6	9.0	23.0
55	67	75	4	15.0	2.5	6	9.0	23.0
58	70	78	4	15.0	2.5	6	9.0	23.0
60	72	80	4	15.0	2.5	6	9.0	23.0
63	75	83	4	15.0	2.5	6	9.0	23.0
65	77	85	4	15.0	2.5	6	9.0	23.0
68	81	90	4	18.0	2.5	7	9.0	26.0
70	83	92	4	18.0	2.5	7	9.0	26.0
75	88	97	4	18.0	2.5	7	9.0	26.0
80	95	105	4	18.2	3.0	7	9.0	26.2
85	100	110	4	18.2	3.0	7	9.0	26.2
90	105	115	4	18.2	3.0	7	9.0	26.2
95	110	120	4	17.2	3.0	7	9.0	25.2
100	115	125	4	17.2	3.0	7	9.0	25.2

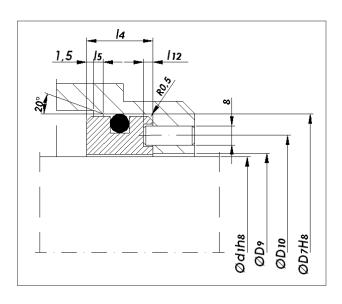
d₁	D ₆	D,	I ₅	I ₆	I ₁₀	I ₁₁
10	17	21	1.5	4	7.5	6.6
12	19	23	1.5	4	7.5	6.6
14	21	25	1.5	4	7.5	6.6
16	23	27	1.5	4	7.5	6.6
18	27	33	2.0	5	8.5	7.5
20	29	35	2.0	5	8.5	7.5
22	31	37	2.0	5	8.5	7.5
24	33	39	2.0	5	8.5	7.5
25	34	40	2.0	5	8.5	7.5
28	37	43	2.0	5	8.5	7.5
30	39	45	2.0	5	8.5	7.5
32	42	48	2.0	5	8.5	7.5
33	42	48	2.0	5	8.5	7.5
35	44	50	2.0	5	8.5	7.5
38	49	56	2.0	6	10.0	9.0
40	51	58	2.0	6	10.0	9.0
43	54	61	2.0	6	10.0	9.0
45	56	63	2.0	6	10.0	9.0
48	59	66	2.0	6	10.0	9.0
50	62	70	2.5	6	10.5	9.5
53	65	73	2.5	6	12.0	11.0
55	67	75	2.5	6	12.0	11.0
58	70	78	2.5	6	12.0	11.0
60	72	80	2.5	6	12.0	11.0
63	75	83	2.5	6	12.0	11.0
65	77	85	2.5	6	12.0	11.0
68	81	90	2.5	7	12.5	11.3
70	83	92	2.5	7	12.5	11.3
75	88	97	2.5	7	12.5	11.3
80	95	105	3.0	7	13.0	12.0
85	100	110	3.0	7	15.0	14.0
90	105	115	3.0	7	15.0	14.0
95	110	120	3.0	7	15.0	14.0
100	115	125	3.0	7	15.0	14.0

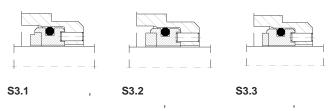
S2G4



$\mathbf{d}_{\scriptscriptstyle{1}}$	\mathbf{D}_{11}	D_{12}	I ₁₂	I ₁₄	I ₁₅	I ₁₆
10	15.5	19.2	7.5	6.6	1.2	3.8
12	17.5	21.6	6.5	5.6	1.2	3.8
14	20.5	24.6	6.5	5.6	1.2	3.8
16	22.0	28.0	8.5	7.5	1.5	5.0
18	24.0	30.0	9.0	8.0	1.5	5.0
20	29.5	35.0	8.5	7.5	1.5	5.0
22	29.5	35.0	8.5	7.5	1.5	5.0
24	32.0	38.0	8.5	7.5	1.5	5.0
25	32.0	38.0	8.5	7.5	1.5	5.0
28	36.0	42.0	10.0	9.0	1.5	5.0
30	39.2	45.0	11.5	10.5	1.5	5.0
32	42.2	48.0	11.5	10.5	1.5	5.0
33	44.2	50.0	12.0	11.0	1.5	5.0
35	46.2	52.0	12.0	11.0	1.5	5.0
38	49.2	55.0	11.3	10.3	1.5	5.0
40	52.2	58.0	11.8	10.8	1.5	5.0
43	53.3	62.0	13.2	12.0	2.0	6.0
45	55.3	64.0	12.8	11.6	2.0	6.0
48	59.7	68.4	12.8	11.6	2.0	6.0
50	60.8	69.3	12.8	11.6	2.0	6.0
53	63.8	72.3	13.5	12.3	2.0	6.0
55	66.5	75.4	14.5	13.3	2.0	6.0
58	69.5	78.4	14.5	13.3	2.0	6.0
60	71.5	80.4	14.5	13.3	2.0	6.0
65	76.5	85.4	14.2	13.0	2.0	6.0
68	82.7	91.5	14.9	13.7	2.0	6.0
70	83.0	92.0	14.2	13.0	2.0	6.0
75	90.2	99.0	15.2	14.0	2.0	6.0
80	95.2	104.0	16.2	15.0	2.0	6.0
85	100.2	109.0	16.0	14.8	2.0	6.0
90	105.2	114.0	16.0	14.8	2.0	6.0
95	111.6	120.3	17.0	15.8	2.0	6.0
100	114.5	123.3	17.0	15.8	2.0	6.0

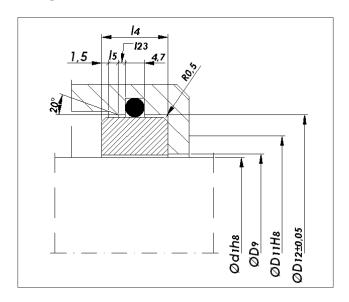
S3

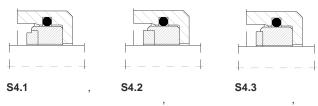




d₁	D_7	D_9	\mathbf{d}_{10}	I_4	I_5	I ₁₂
10	21	11.0	16.0	10.0	1.5	1.5
12	23	13.0	18.0	10.0	1.5	1.5
14	25	15.0	20.0	10.0	1.5	1.5
16	27	17.0	22.0	10.0	1.5	1.5
18	33	19.0	25.0	11.5	2.0	1.5
20	35	21.0	27.0	11.5	2.0	1.5
22	37	23.0	29.0	11.5	2.0	1.5
24	39	25.0	31.0	11.5	2.0	1.5
25	40	26.0	32.0	11.5	2.0	1.5
28	43	29.0	36.0	11.5	2.0	2.0
30	45	31.5	38.0	11.5	2.0	2.0
32	48	33.5	40.5	11.5	2.0	2.0
33	48	34.5	41.0	11.5	2.0	2.0
35	50	36.5	43.0	11.5	2.0	2.0
38	56	39.5	47.0	14.0	2.0	2.0
40	58	41.5	49.0	14.0	2.0	2.0
43	61	44.5	52.5	14.0	2.0	2.0
45	63	46.5	54.0	14.0	2.0	2.0
48	66	49.5	57.0	14.0	2.0	2.0
50	70	52.0	60.0	15.0	2.5	2.5
53	73	55.0	63.5	15.0	2.5	2.5
55	75	57.0	65.5	15.0	2.5	2.5
58	78	60.0	67.5	15.0	2.5	2.5
60	80	62.0	70.0	15.0	2.5	2.5
63	83	65.0	73.0	15.0	2.5	2.5
65	85	67.0	76.0	15.0	2.5	2.5
68	90	70.0	80.0	15.0	2.5	2.5
70	92	72.0	82.0	17.0	2.5	2.5
75	97	77.0	87.0	17.0	2.5	2.5
80	105	82.0	93.5	17.0	3.0	3.0
85	110	87.0	98.5	17.0	3.0	3.0
90	115	92.0	103.5	17.0	3.0	3.0
95	120	97.0	108.5	17.0	3.0	3.0
100	125	102.0	113.5	17.0	3.0	3.0

S4

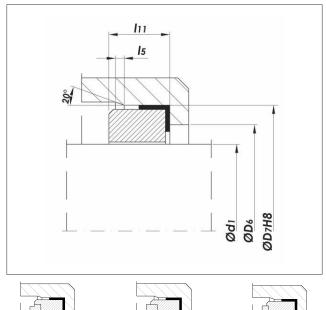




d ₁	D ₉	D ₁₁	D ₁₂	I ₄	I ₅	I ₁₃
10	11.0	21.2	26.8	10.0	1.5	2.0
12	13.0	24.2	29.8	10.0	1.5	2.0
14	15.0	26.2	31.8	10.0	1.5	2.0
16	17.0	27.2	32.8	10.0	1.5	2.0
18	19.0	33.2	38.8	11.5	2.0	2.5
20	21.0	35.2	40.8	11.5	2.0	2.5
22	23.0	37.2	42.8	11.5	2.0	2.5
24	25.0	40.2	45.8	11.5	2.0	2.5
25	26.0	40.2	45.8	11.5	2.0	2.5
28	29.0	43.2	48.8	11.5	2.0	2.5
30	31.5	45.2	50.8	11.5	2.0	2.5
32	33.5	48.2	53.8	11.5	2.0	2.5
33	34.5	48.2	53.8	11.5	2.0	2.5
35	36.5	50.2	55.8	11.5	2.0	2.5
38	39.5	56.2	61.8	14.0	2.0	3.0
40	41.5	58.2	63.8	14.0	2.0	3.0
43	44.5	61.2	66.8	14.0	2.0	3.0
45	46.5	63.2	68.8	14.0	2.0	3.0
48	49.5	66.2	71.8	14.0	2.0	3.0
50	52.0	70.2	75.8	15.0	2.5	3.5
53	55.0	73.2	78.8	15.0	2.5	3.5
55	57.0	75.2	80.8	15.0	2.5	3.5
58	60.0	78.2	83.8	15.0	2.5	3.5
60	62.0	82.2	87.8	15.0	2.5	3.5
63	65.0	85.2	90.8	15.0	2.5	3.5
65	67.0	95.2	90.8	15.0	2.5	3.5
68	70.0	92.2	97.8	15.0	2.5	3.5
70	72.0	92.2	97.8	17.0	2.5	4.0
75	77.0	98.2	103.8	17.0	2.5	4.0
80	82.0	108.2	113.8	17.0	3.0	4.0
85	87.0	111.2	116.8	17.0	3.0	4.0
90	92.0	117.2	122.8	17.0	3.0	4.0
95	97.0	120.2	125.8	17.0	3.0	4.0
100	102.0	127.2	132.8	17.0	3.0	4.0

S5 DIN 24960

S6.1

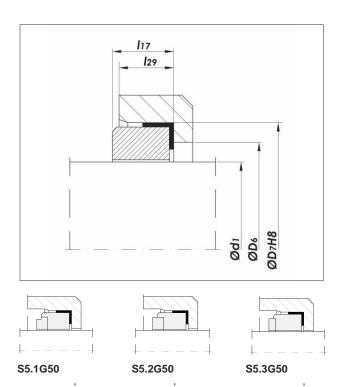


$\mathbf{d}_{\scriptscriptstyle{1}}$	D_6	D_7	I ₅	I ₁₁
10	17	21	1.5	6.6
12	19	23	1.5	6.6
14	21	25	1.5	6.6
16	23	27	1.5	6.6
18	27	33	2.0	7.5
20	29	35	2.0	7.5
22	31	37	2.0	7.5
24	33	39	2.0	7.5
25	34	40	2.0	7.5
28	37	43	2.0	7.5
30	39	45	2.0	7.5
32	42	48	2.0	7.5
33	42	48	2.0	7.5
35	44	50	2.0	7.5
38	49	56	2.0	9.0
40	51	58	2.0	9.0
43	54	61	2.0	9.0
45	56	63	2.0	9.0
48	59	66	2.0	9.0
50	62	70	2.5	9.5
53	65	73	2.5	11.0
55	67	75	2.5	11.0
58	70	78	2.5	11.0
60	72	80	2.5	11.0
63	75	83	2.5	11.0
65	77	85	2.5	11.0
68	81	90	2.5	11.3
70	83	92	2.5	11.3
75	88	97	2.5	11.3
80	95	105	3.0	12.0
85	100	110	3.0	14.0
90	105	115	3.0	14.0
95	110	120	3.0	14.0
100	115	125	3.0	14.0

S6.2

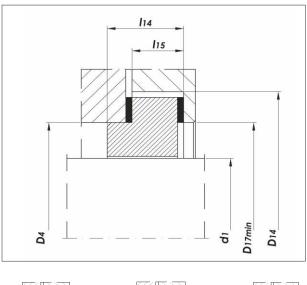
S6.3

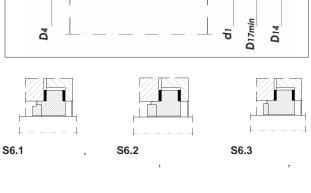
S5G50



10 11 24.60 9.0 7.5 12 13.5 27.80 9.0 7.5 14 17 30.95 10.5 9.0 16 17 30.95 10.5 9.0 18 20 34.15 10.5 9.0 20 21.5 35.70 10.5 9.0 22 23 37.30 10.5 9.0 24 26.5 40.50 10.5 9.0 25 26.5 40.50 10.5 9.0 28 29.5 47.65 12.0 10.5 30 32.5 50.80 12.0 10.5 30 32.5 50.80 12.0 10.5 33 36.5 54.00 12.0 10.5 33 36.5 54.00 12.0 10.5 34 46 63.50 12.0 10.5 43 46 63.50 12.0 10.5	d₁	D_{ϵ}	D_7	I ₁₇	l ₂₉
14 17 30.95 10.5 9.0 16 17 30.95 10.5 9.0 18 20 34.15 10.5 9.0 20 21.5 35.70 10.5 9.0 22 23 37.30 10.5 9.0 24 26.5 40.50 10.5 9.0 25 26.5 40.50 10.5 9.0 28 29.5 47.65 12.0 10.5 30 32.5 50.80 12.0 10.5 32 32.5 50.80 12.0 10.5 33 36.5 54.00 12.0 10.5 34 36.5 54.00 12.0 10.5 38 39.5 57.15 12.0 10.5 40 42.5 60.35 12.0 10.5 43 46 63.50 12.0 10.5 48 49 66.70 12.0 10.5	10	11	24.60	9.0	
16 17 30.95 10.5 9.0 18 20 34.15 10.5 9.0 20 21.5 35.70 10.5 9.0 22 23 37.30 10.5 9.0 24 26.5 40.50 10.5 9.0 25 26.5 40.50 10.5 9.0 28 29.5 47.65 12.0 10.5 30 32.5 50.80 12.0 10.5 32 32.5 50.80 12.0 10.5 33 36.5 54.00 12.0 10.5 35 36.5 54.00 12.0 10.5 38 39.5 57.15 12.0 10.5 40 42.5 60.35 12.0 10.5 43 46 63.50 12.0 10.5 45 46 63.50 12.0 10.5 48 49 66.70 12.0 10.5	12	13.5	27.80	9.0	7.5
18 20 34.15 10.5 9.0 20 21.5 35.70 10.5 9.0 22 23 37.30 10.5 9.0 24 26.5 40.50 10.5 9.0 25 26.5 40.50 10.5 9.0 28 29.5 47.65 12.0 10.5 30 32.5 50.80 12.0 10.5 32 32.5 50.80 12.0 10.5 33 36.5 54.00 12.0 10.5 35 36.5 54.00 12.0 10.5 38 39.5 57.15 12.0 10.5 40 42.5 60.35 12.0 10.5 43 46 63.50 12.0 10.5 45 46 63.50 12.0 10.5 48 49 66.70 12.0 10.5 50 52 69.85 13.5 12.0	14	17	30.95	10.5	9.0
20 21.5 35.70 10.5 9.0 22 23 37.30 10.5 9.0 24 26.5 40.50 10.5 9.0 25 26.5 40.50 10.5 9.0 28 29.5 47.65 12.0 10.5 30 32.5 50.80 12.0 10.5 32 32.5 50.80 12.0 10.5 33 36.5 54.00 12.0 10.5 35 36.5 54.00 12.0 10.5 38 39.5 57.15 12.0 10.5 40 42.5 60.35 12.0 10.5 43 46 63.50 12.0 10.5 45 46 63.50 12.0 10.5 48 49 66.70 12.0 10.5 50 52 69.85 13.5 12.0 55 58.5 76.20 13.5 12.0	16	17	30.95	10.5	9.0
22 23 37.30 10.5 9.0 24 26.5 40.50 10.5 9.0 25 26.5 40.50 10.5 9.0 28 29.5 47.65 12.0 10.5 30 32.5 50.80 12.0 10.5 32 32.5 50.80 12.0 10.5 33 36.5 54.00 12.0 10.5 38 39.5 57.15 12.0 10.5 40 42.5 60.35 12.0 10.5 43 46 63.50 12.0 10.5 45 46 63.50 12.0 10.5 48 49 66.70 12.0 10.5 50 52 69.85 13.5 12.0 53 55.5 73.05 13.5 12.0 55 58.5 76.20 13.5 12.0 60 61.5 79.40 13.5 12.0	18	20	34.15	10.5	9.0
24 26.5 40.50 10.5 9.0 25 26.5 40.50 10.5 9.0 28 29.5 47.65 12.0 10.5 30 32.5 50.80 12.0 10.5 32 32.5 50.80 12.0 10.5 33 36.5 54.00 12.0 10.5 35 36.5 54.00 12.0 10.5 38 39.5 57.15 12.0 10.5 40 42.5 60.35 12.0 10.5 43 46 63.50 12.0 10.5 45 46 63.50 12.0 10.5 48 49 66.70 12.0 10.5 50 52 69.85 13.5 12.0 53 55.5 73.05 13.5 12.0 55 58.5 76.20 13.5 12.0 60 61.5 79.40 13.5 12.0 <t< th=""><th>20</th><th>21.5</th><th>35.70</th><th>10.5</th><th>9.0</th></t<>	20	21.5	35.70	10.5	9.0
25 26.5 40.50 10.5 9.0 28 29.5 47.65 12.0 10.5 30 32.5 50.80 12.0 10.5 32 32.5 50.80 12.0 10.5 33 36.5 54.00 12.0 10.5 35 36.5 54.00 12.0 10.5 40 42.5 60.35 12.0 10.5 43 46 63.50 12.0 10.5 45 46 63.50 12.0 10.5 48 49 66.70 12.0 10.5 50 52 69.85 13.5 12.0 53 55.5 73.05 13.5 12.0 55 58.5 76.20 13.5 12.0 55 58.5 76.20 13.5 12.0 60 61.5 79.40 13.5 12.0 63 - - - - <	22	23	37.30	10.5	9.0
28 29.5 47.65 12.0 10.5 30 32.5 50.80 12.0 10.5 32 32.5 50.80 12.0 10.5 33 36.5 54.00 12.0 10.5 35 36.5 54.00 12.0 10.5 38 39.5 57.15 12.0 10.5 40 42.5 60.35 12.0 10.5 43 46 63.50 12.0 10.5 45 46 63.50 12.0 10.5 48 49 66.70 12.0 10.5 50 52 69.85 13.5 12.0 53 55.5 73.05 13.5 12.0 55 58.5 76.20 13.5 12.0 58 61.5 79.40 13.5 12.0 60 61.5 79.40 13.5 12.0 63 - - - -	24	26.5	40.50	10.5	9.0
30 32.5 50.80 12.0 10.5 32 32.5 50.80 12.0 10.5 33 36.5 54.00 12.0 10.5 35 36.5 54.00 12.0 10.5 38 39.5 57.15 12.0 10.5 40 42.5 60.35 12.0 10.5 43 46 63.50 12.0 10.5 45 46 63.50 12.0 10.5 48 49 66.70 12.0 10.5 50 52 69.85 13.5 12.0 53 55.5 73.05 13.5 12.0 55 58.5 76.20 13.5 12.0 58 61.5 79.40 13.5 12.0 60 61.5 79.40 13.5 12.0 63 - - - - 65 68 92.10 16.0 14.5 <t< th=""><th>25</th><th>26.5</th><th>40.50</th><th>10.5</th><th>9.0</th></t<>	25	26.5	40.50	10.5	9.0
32 32.5 50.80 12.0 10.5 33 36.5 54.00 12.0 10.5 35 36.5 54.00 12.0 10.5 38 39.5 57.15 12.0 10.5 40 42.5 60.35 12.0 10.5 43 46 63.50 12.0 10.5 45 46 63.50 12.0 10.5 48 49 66.70 12.0 10.5 50 52 69.85 13.5 12.0 53 55.5 73.05 13.5 12.0 55 58.5 76.20 13.5 12.0 58 61.5 79.40 13.5 12.0 60 61.5 79.40 13.5 12.0 63 - - - - 65 68 92.10 16.0 14.5 68 71 95.25 16.0 14.5	28	29.5	47.65	12.0	10.5
33 36.5 54.00 12.0 10.5 35 36.5 54.00 12.0 10.5 38 39.5 57.15 12.0 10.5 40 42.5 60.35 12.0 10.5 43 46 63.50 12.0 10.5 45 46 63.50 12.0 10.5 48 49 66.70 12.0 10.5 50 52 69.85 13.5 12.0 53 55.5 73.05 13.5 12.0 55 58.5 76.20 13.5 12.0 58 61.5 79.40 13.5 12.0 60 61.5 79.40 13.5 12.0 63 - - - - 65 68 92.10 16.0 14.5 68 71 95.25 16.0 14.5 70 71 95.25 16.0 14.5 75	30	32.5	50.80	12.0	10.5
35 36.5 54.00 12.0 10.5 38 39.5 57.15 12.0 10.5 40 42.5 60.35 12.0 10.5 43 46 63.50 12.0 10.5 45 46 63.50 12.0 10.5 48 49 66.70 12.0 10.5 50 52 69.85 13.5 12.0 53 55.5 73.05 13.5 12.0 55 58.5 76.20 13.5 12.0 58 61.5 79.40 13.5 12.0 60 61.5 79.40 13.5 12.0 63 - - - - 65 68 92.10 16.0 14.5 68 71 95.25 16.0 14.5 70 71 95.25 16.0 14.5 75 77.5 101.60 16.0 14.5 8	32	32.5	50.80	12.0	10.5
38 39.5 57.15 12.0 10.5 40 42.5 60.35 12.0 10.5 43 46 63.50 12.0 10.5 45 46 63.50 12.0 10.5 48 49 66.70 12.0 10.5 50 52 69.85 13.5 12.0 53 55.5 73.05 13.5 12.0 58 61.5 79.40 13.5 12.0 60 61.5 79.40 13.5 12.0 63 - - - - 65 68 92.10 16.0 14.5 68 71 95.25 16.0 14.5 70 71 95.25 16.0 14.5 75 77.5 101.60 16.0 14.5 80 84 114.30 20.0 18.5 90 93.5 123.85 20.0 18.5 9	33	36.5	54.00	12.0	10.5
40 42.5 60.35 12.0 10.5 43 46 63.50 12.0 10.5 45 46 63.50 12.0 10.5 48 49 66.70 12.0 10.5 50 52 69.85 13.5 12.0 53 55.5 73.05 13.5 12.0 58 61.5 79.40 13.5 12.0 60 61.5 79.40 13.5 12.0 63 - - - - 65 68 92.10 16.0 14.5 68 71 95.25 16.0 14.5 70 71 95.25 16.0 14.5 75 77.5 101.60 16.0 14.5 80 84 114.30 20.0 18.5 85 87 117.50 20.0 18.5 90 93.5 123.85 20.0 18.5 95	35	36.5	54.00	12.0	10.5
43 46 63.50 12.0 10.5 45 46 63.50 12.0 10.5 48 49 66.70 12.0 10.5 50 52 69.85 13.5 12.0 53 55.5 73.05 13.5 12.0 58 61.5 79.40 13.5 12.0 60 61.5 79.40 13.5 12.0 63 - - - - 65 68 92.10 16.0 14.5 68 71 95.25 16.0 14.5 70 71 95.25 16.0 14.5 75 77.5 101.60 16.0 14.5 80 84 114.30 20.0 18.5 85 87 117.50 20.0 18.5 90 93.5 123.85 20.0 18.5 95 96.5 127.00 20.0 18.5	38	39.5	57.15	12.0	10.5
45 46 63.50 12.0 10.5 48 49 66.70 12.0 10.5 50 52 69.85 13.5 12.0 53 55.5 73.05 13.5 12.0 58 61.5 79.40 13.5 12.0 60 61.5 79.40 13.5 12.0 63 - - - - 65 68 92.10 16.0 14.5 68 71 95.25 16.0 14.5 70 71 95.25 16.0 14.5 75 77.5 101.60 16.0 14.5 80 84 114.30 20.0 18.5 85 87 117.50 20.0 18.5 90 93.5 123.85 20.0 18.5 95 96.5 127.00 20.0 18.5	40	42.5	60.35	12.0	10.5
48 49 66.70 12.0 10.5 50 52 69.85 13.5 12.0 53 55.5 73.05 13.5 12.0 55 58.5 76.20 13.5 12.0 58 61.5 79.40 13.5 12.0 60 61.5 79.40 13.5 12.0 63 - - - - - 65 68 92.10 16.0 14.5 68 71 95.25 16.0 14.5 70 71 95.25 16.0 14.5 75 77.5 101.60 16.0 14.5 80 84 114.30 20.0 18.5 85 87 117.50 20.0 18.5 90 93.5 123.85 20.0 18.5 95 96.5 127.00 20.0 18.5	43	46	63.50	12.0	10.5
50 52 69.85 13.5 12.0 53 55.5 73.05 13.5 12.0 55 58.5 76.20 13.5 12.0 58 61.5 79.40 13.5 12.0 60 61.5 79.40 13.5 12.0 63 - - - - 65 68 92.10 16.0 14.5 68 71 95.25 16.0 14.5 70 71 95.25 16.0 14.5 75 77.5 101.60 16.0 14.5 80 84 114.30 20.0 18.5 85 87 117.50 20.0 18.5 90 93.5 123.85 20.0 18.5 95 96.5 127.00 20.0 18.5	45	46	63.50	12.0	10.5
53 55.5 73.05 13.5 12.0 55 58.5 76.20 13.5 12.0 58 61.5 79.40 13.5 12.0 60 61.5 79.40 13.5 12.0 63 - - - - 65 68 92.10 16.0 14.5 68 71 95.25 16.0 14.5 70 71 95.25 16.0 14.5 75 77.5 101.60 16.0 14.5 80 84 114.30 20.0 18.5 85 87 117.50 20.0 18.5 90 93.5 123.85 20.0 18.5 95 96.5 127.00 20.0 18.5	48	49	66.70	12.0	10.5
55 58.5 76.20 13.5 12.0 58 61.5 79.40 13.5 12.0 60 61.5 79.40 13.5 12.0 63 - - - - - 65 68 92.10 16.0 14.5 68 71 95.25 16.0 14.5 70 71 95.25 16.0 14.5 75 77.5 101.60 16.0 14.5 80 84 114.30 20.0 18.5 85 87 117.50 20.0 18.5 90 93.5 123.85 20.0 18.5 95 96.5 127.00 20.0 18.5	50	52	69.85	13.5	12.0
58 61.5 79.40 13.5 12.0 60 61.5 79.40 13.5 12.0 63 - - - - 65 68 92.10 16.0 14.5 68 71 95.25 16.0 14.5 70 71 95.25 16.0 14.5 75 77.5 101.60 16.0 14.5 80 84 114.30 20.0 18.5 85 87 117.50 20.0 18.5 90 93.5 123.85 20.0 18.5 95 96.5 127.00 20.0 18.5	53	55.5	73.05	13.5	12.0
60 61.5 79.40 13.5 12.0 63 - - - - 65 68 92.10 16.0 14.5 68 71 95.25 16.0 14.5 70 71 95.25 16.0 14.5 75 77.5 101.60 16.0 14.5 80 84 114.30 20.0 18.5 85 87 117.50 20.0 18.5 90 93.5 123.85 20.0 18.5 95 96.5 127.00 20.0 18.5	55	58.5	76.20	13.5	12.0
63 - - - - 65 68 92.10 16.0 14.5 68 71 95.25 16.0 14.5 70 71 95.25 16.0 14.5 75 77.5 101.60 16.0 14.5 80 84 114.30 20.0 18.5 85 87 117.50 20.0 18.5 90 93.5 123.85 20.0 18.5 95 96.5 127.00 20.0 18.5	58	61.5	79.40	13.5	12.0
65 68 92.10 16.0 14.5 68 71 95.25 16.0 14.5 70 71 95.25 16.0 14.5 75 77.5 101.60 16.0 14.5 80 84 114.30 20.0 18.5 85 87 117.50 20.0 18.5 90 93.5 123.85 20.0 18.5 95 96.5 127.00 20.0 18.5	60	61.5	79.40	13.5	12.0
68 71 95.25 16.0 14.5 70 71 95.25 16.0 14.5 75 77.5 101.60 16.0 14.5 80 84 114.30 20.0 18.5 85 87 117.50 20.0 18.5 90 93.5 123.85 20.0 18.5 95 96.5 127.00 20.0 18.5	63	-	-	-	-
70 71 95.25 16.0 14.5 75 77.5 101.60 16.0 14.5 80 84 114.30 20.0 18.5 85 87 117.50 20.0 18.5 90 93.5 123.85 20.0 18.5 95 96.5 127.00 20.0 18.5	65	68	92.10	16.0	14.5
75 77.5 101.60 16.0 14.5 80 84 114.30 20.0 18.5 85 87 117.50 20.0 18.5 90 93.5 123.85 20.0 18.5 95 96.5 127.00 20.0 18.5	68	71	95.25	16.0	14.5
80 84 114.30 20.0 18.5 85 87 117.50 20.0 18.5 90 93.5 123.85 20.0 18.5 95 96.5 127.00 20.0 18.5	70	71	95.25	16.0	14.5
85 87 117.50 20.0 18.5 90 93.5 123.85 20.0 18.5 95 96.5 127.00 20.0 18.5	75	77.5	101.60	16.0	14.5
90 93.5 123.85 20.0 18.5 95 96.5 127.00 20.0 18.5	80	84	114.30	20.0	18.5
95 96.5 127.00 20.0 18.5	85	87	117.50	20.0	18.5
	90	93.5	123.85	20.0	18.5
100 103 133.35 20.0 18.5	95	96.5	127.00	20.0	18.5
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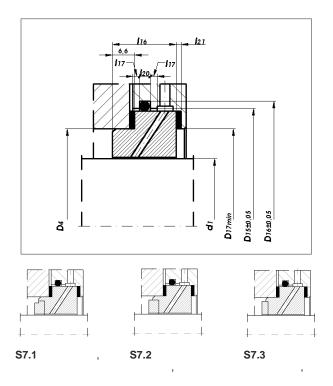
S6





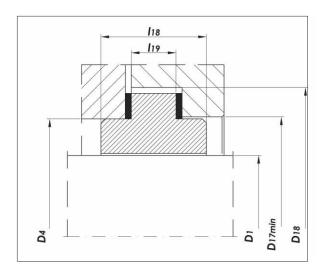
d₁	D_4	D_{14}	D ₁₇	I ₁₄	I ₁₅
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12	24	40	24	17	9.0
14	26	42	26	17	9.0
16	28	44	28	17	9.0
18	34	47	34	17	9.0
20	36	49	36	17	9.0
22	38	51	38	17	9.0
24	40	54	40	17	9.0
25	41	54	41	17	9.0
28	44	58	44	17	9.0
30	46	61	46	17	9.5
32	48	61	48	17	9.5
33	49	61	49	17	9.5
35	51	62	51	17	9.5
38	58	70	58	17	9.5
40	60	73	60	17	9.5
43	63	80	63	17	9.5
45	65	80	65	17	9.5
48	68	83	68	17	9.5
50	70	83	70	17	9.5
53	73	89	73	17	9.5
55	75	96	75	17	9.5
58	83	98	83	17	9.5
60	85	99	85	20	9.5
63	88	103	88	20	9.5
65	90	108	90	20	9.5
68	93	112	93	20	9.5
70	95	112	95	25	14.5
75	104	117	104	25	14.5
80	109	126	109	25	14.5
85	114	128	114	25	14.5
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S7



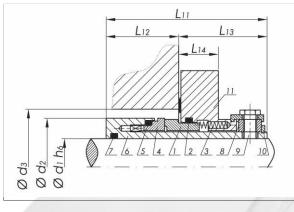
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14 26 42.2 46.4 27.0 19 2.0 3.2 1.0 16 28 44.2 48.4 29.0 19 2.0 3.2 1.0 18 34 46.2 50.4 35.0 19 2.0 3.2 1.0 20 36 48.2 52.4 37.5 19 2.0 3.2 1.0 22 38 49.2 52.4 39.5 19 2.0 3.2 1.0 24 40 51.2 55.4 41.5 19 2.0 3.2 1.0 25 41 51.2 58.4 42.5 19 2.0 3.2 1.5 28 44 54.2 58.4 45.5 19 2.0 3.2 1.5 30 46 55.2 59.4 47.5 19 2.0 3.2 1.5 32 48 57.2 61.4 49.5 19 2.0 3.2<	14			40.4	23.0	19	2.0	3.2	1.0
16 28 44.2 48.4 29.0 19 2.0 3.2 1.0 18 34 46.2 50.4 35.0 19 2.0 3.2 1.0 20 36 48.2 52.4 37.5 19 2.0 3.2 1.0 22 38 49.2 52.4 39.5 19 2.0 3.2 1.0 24 40 51.2 55.4 41.5 19 2.0 3.2 1.0 25 41 51.2 58.4 42.5 19 2.0 3.2 1.5 28 44 54.2 58.4 45.5 19 2.0 3.2 1.5 30 46 55.2 59.4 47.5 19 2.0 3.2 1.5 32 48 57.2 61.4 49.5 19 2.0 3.2 1.5 33 49 59.2 63.4 50.5 19 2.0 3.2<		24	39.2	43.4	25.0	19	2.0	3.2	1.0
18 34 46.2 50.4 35.0 19 2.0 3.2 1.0 20 36 48.2 52.4 37.5 19 2.0 3.2 1.0 22 38 49.2 52.4 39.5 19 2.0 3.2 1.0 24 40 51.2 55.4 41.5 19 2.0 3.2 1.0 25 41 51.2 58.4 42.5 19 2.0 3.2 1.5 28 44 54.2 58.4 45.5 19 2.0 3.2 1.5 30 46 55.2 59.4 47.5 19 2.0 3.2 1.5 32 48 57.2 61.4 49.5 19 2.0 3.2 1.5 33 49 59.2 63.4 50.5 19 2.0 3.2 1.5 35 51 60.2 64.4 52.5 19 2.0 3.2<	16	26	42.2	46.4	27.0	19	2.0	3.2	1.0
20 36 48.2 52.4 37.5 19 2.0 3.2 1.0 22 38 49.2 52.4 39.5 19 2.0 3.2 1.0 24 40 51.2 55.4 41.5 19 2.0 3.2 1.0 25 41 51.2 58.4 42.5 19 2.0 3.2 1.5 28 44 54.2 58.4 45.5 19 2.0 3.2 1.5 30 46 55.2 59.4 47.5 19 2.0 3.2 1.5 32 48 57.2 61.4 49.5 19 2.0 3.2 1.5 33 49 59.2 63.4 50.5 19 2.0 3.2 1.5 35 51 60.2 64.4 52.5 19 2.0 3.2 1.5 38 58 68.2 72.4 59.5 19 2.0 3.2<		28	44.2	48.4	29.0	19	2.0	3.2	1.0
22 38 49.2 52.4 39.5 19 2.0 3.2 1.0 24 40 51.2 55.4 41.5 19 2.0 3.2 1.0 25 41 51.2 58.4 42.5 19 2.0 3.2 1.5 28 44 54.2 58.4 45.5 19 2.0 3.2 1.5 30 46 55.2 59.4 47.5 19 2.0 3.2 1.5 32 48 57.2 61.4 49.5 19 2.0 3.2 1.5 33 49 59.2 63.4 50.5 19 2.0 3.2 1.5 35 51 60.2 64.4 52.5 19 2.0 3.2 1.5 38 58 68.2 72.4 59.5 19 2.0 3.2 1.5 40 60 70.2 74.4 62.0 19 2.0 3.2<	18	34	46.2	50.4	35.0	19	2.0	3.2	1.0
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25 41 51.2 58.4 42.5 19 2.0 3.2 1.5 28 44 54.2 58.4 45.5 19 2.0 3.2 1.5 30 46 55.2 59.4 47.5 19 2.0 3.2 1.5 32 48 57.2 61.4 49.5 19 2.0 3.2 1.5 33 49 59.2 63.4 50.5 19 2.0 3.2 1.5 35 51 60.2 64.4 52.5 19 2.0 3.2 1.5 38 58 68.2 72.4 59.5 19 2.0 3.2 1.5 40 60 70.2 74.4 62.0 19 2.0 3.2 1.5 43 63 73.2 77.4 65.0 19 2.0 3.2 1.5 45 65 76.2 80.4 67.0 19 2.0 3.2<	22	38	49.2	52.4	39.5	19	2.0	3.2	1.0
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33 49 59.2 63.4 50.5 19 2.0 3.2 1.5 35 51 60.2 64.4 52.5 19 2.0 3.2 1.5 38 58 68.2 72.4 59.5 19 2.0 3.2 1.5 40 60 70.2 74.4 62.0 19 2.0 3.2 1.5 43 63 73.2 77.4 65.0 19 2.0 3.2 1.5 45 65 76.2 80.4 67.0 19 2.0 3.2 1.5 48 68 83.2 87.4 70.0 19 2.0 3.2 1.5 50 70 83.2 87.4 72.0 19 2.0 3.2 1.5 53 73 89.2 93.4 75.0 19 2.0 3.2 2.0	30	46	55.2	59.4	47.5	19	2.0	3.2	1.5
35 51 60.2 64.4 52.5 19 2.0 3.2 1.5 38 58 68.2 72.4 59.5 19 2.0 3.2 1.5 40 60 70.2 74.4 62.0 19 2.0 3.2 1.5 43 63 73.2 77.4 65.0 19 2.0 3.2 1.5 45 65 76.2 80.4 67.0 19 2.0 3.2 1.5 48 68 83.2 87.4 70.0 19 2.0 3.2 1.5 50 70 83.2 87.4 72.0 19 2.0 3.2 1.5 53 73 89.2 93.4 75.0 19 2.0 3.2 2.0	32	48	57.2	61.4	49.5	19	2.0	3.2	1.5
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40 60 70.2 74.4 62.0 19 2.0 3.2 1.5 43 63 73.2 77.4 65.0 19 2.0 3.2 1.5 45 65 76.2 80.4 67.0 19 2.0 3.2 1.5 48 68 83.2 87.4 70.0 19 2.0 3.2 1.5 50 70 83.2 87.4 72.0 19 2.0 3.2 1.5 53 73 89.2 93.4 75.0 19 2.0 3.2 2.0	35	51	60.2	64.4	52.5	19	2.0	3.2	1.5
43 63 73.2 77.4 65.0 19 2.0 3.2 1.5 45 65 76.2 80.4 67.0 19 2.0 3.2 1.5 48 68 83.2 87.4 70.0 19 2.0 3.2 1.5 50 70 83.2 87.4 72.0 19 2.0 3.2 1.5 53 73 89.2 93.4 75.0 19 2.0 3.2 2.0	38	58	68.2	72.4	59.5	19	2.0	3.2	1.5
45 65 76.2 80.4 67.0 19 2.0 3.2 1.5 48 68 83.2 87.4 70.0 19 2.0 3.2 1.5 50 70 83.2 87.4 72.0 19 2.0 3.2 1.5 53 73 89.2 93.4 75.0 19 2.0 3.2 2.0	40	60	70.2	74.4	62.0	19	2.0	3.2	1.5
48 68 83.2 87.4 70.0 19 2.0 3.2 1.5 50 70 83.2 87.4 72.0 19 2.0 3.2 1.5 53 73 89.2 93.4 75.0 19 2.0 3.2 2.0	43	63	73.2	77.4	65.0	19	2.0	3.2	1.5
50 70 83.2 87.4 72.0 19 2.0 3.2 1.5 53 73 89.2 93.4 75.0 19 2.0 3.2 2.0	45	65	76.2	80.4	67.0	19	2.0	3.2	1.5
53 73 89.2 93.4 75.0 19 2.0 3.2 2.0	48	68	83.2	87.4	70.0	19	2.0	3.2	1.5
	50	70	83.2	87.4	72.0	19	2.0	3.2	1.5
EE 75 90.2 02.4 77.0 10 2.0 2.2 2.0	53	73	89.2	93.4	75.0	19	2.0	3.2	2.0
33 75 69.2 93.4 77.0 19 2.0 3.2 2.0	55	75	89.2	93.4	77.0	19	2.0	3.2	2.0
58 83 95.2 99.4 85.0 19 2.0 3.2 2.0	58	83	95.2	99.4	85.0	19	2.0	3.2	2.0
60 85 98.2 103.8 87.0 22 2.5 4.3 2.0	60	85	98.2	103.8	87.0	22	2.5	4.3	2.0
63 88 101.2 106.8 90.0 22 2.5 4.3 2.0	63	88	101.2	106.8	90.0	22	2.5	4.3	2.0
65 90 104.2 109.8 92.0 22 2.5 4.3 2.0	65	90	104.2	109.8	92.0	22	2.5	4.3	2.0
68 93 108.2 113.8 95.0 22 2.5 4.3 2.0	68	93	108.2	113.8	95.0	22	2.5	4.3	2.0
70 95 111.2 116.8 97.0 27 4.0 4.3 2.0	70	95	111.2	116.8	97.0	27	4.0	4.3	2.0
75 104 120.2 125.8 107.0 27 4.0 4.3 2.0	75	104	120.2	125.8	107.0	27	4.0	4.3	2.0
80 109 126.2 131.8 112.0 27 4.0 4.3 2.0	80	109	126.2	131.8	112.0	27	4.0	4.3	2.0
85 114 130.2 135.8 117.0 27 4.0 4.3 2.0	85	114	130.2	135.8	117.0	27	4.0	4.3	2.0
90 119 136.2 141.8 122.0 27 4.0 4.3 2.0	90	119	136.2	141.8	122.0	27	4.0	4.3	2.0
95 124 140.2 150.8 127.0 27 4.0 4.3 2.0	95	124	140.2	150.8	127.0	27	4.0	4.3	2.0
100 129 146.2 163.8 132.0 27 4.0 4.3 2.0	100	129	146.2	163.8	132.0	27	4.0	4.3	2.0

S8



$\mathbf{d}_{\scriptscriptstyle{1}}$	\mathbf{D}_{4}	D ₁₇	D ₁₈	I ₁₈	I ₁₉
10	22	27,2	37	18	8
12	24	30,2	39	18	8
14	26	31,2	41	18	8
16	28	34,4	43	18	8
18	34	37.5	46	18	8
20	36	37.5	47	18	8
22	38	38.5	49	18	8
24	40	42.5	52	18	8
25	41	42.5	52	26	11
28	44	46.6	59	26	11
30	46	49.6	59	26	11
32	48	51.6	64	26	11
33	49	54.6	67	26	11
35	51	54.6	67	26	11
38	58	57.6	70	26	11
40	60	62.6	75	26	11
43	63	65.0	80	26	11
45	65	67.0	80	26	11
48	68	70.0	83	26	11
50	70	72.0	85	26	11
53	73	75.0	96	32	14
55	75	77.0	96	32	14
58	83	85.0	101	32	14
60	85	87.0	101	32	14
63	88	90.0	106	32	14
65	90	92.0	106	32	14
68	93	95.0	111	32	14
70	95	97.0	111	32	14
75	104	107.0	116	32	14
80	109	112.0	121	32	14
85	114	117.0	126	32	14
90	119	122.0	131	32	14
95	124	127.0	136	32	14
100	129	132.0	141	32	14

UCA, UCB



(U₃)

1 -2 -

3 -

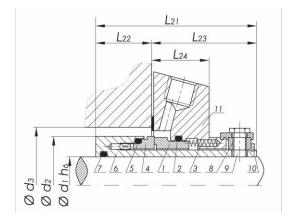
5 -

6 -

8 -

9 -

10 -11 -



UCA

(Q₁, Q₂) $Al_2O_3(V)$

()

, FKM (V) (P)

, EPDM (E) , FFKM Kalrez®), (K)

, FEP, (M)

X12CrNi17.7

-p=25

 $- t = -40 \dots 110^{\circ} (NBR)$

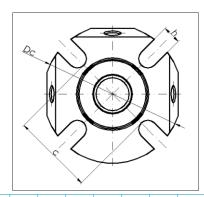
 $- t = -50 \dots 150^{\circ}$ (EPDM)

 $- t = -20 \dots 180^{\circ}$ (FKM)

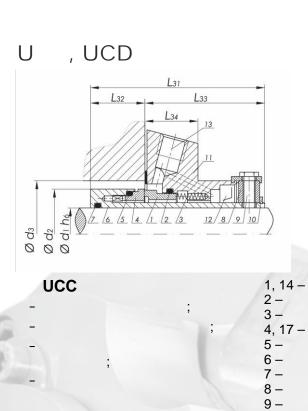
 $- t = -20...250^{\circ}$ (FFKM)

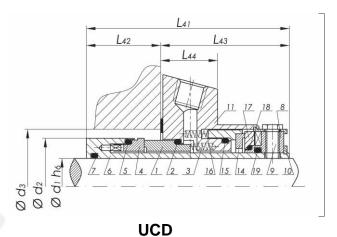
- v = 25 /

UCB

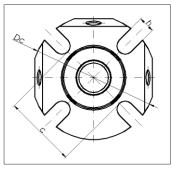


d ₁	d ₂	d _{3min}	d _{3max}	L ₁₁	L ₁₂	L ₁₃	L ₁₄	L ₂₁	L ₂₂	L ₂₃	L ₂₄	С	D _c	h
25	43	44	51	67	32	35	17,5	67	24,6	42,4	25,4	62	105	12,5
28	46	47	52	67	32	35	17,5	67	24,6	42,4	25,4	62	105	12,5
30	48	49	56	67	32	35	17,5	67	24,6	42,4	25,4	65	105	12,5
32	50	51	57	67	32	35	17,5	67	24,6	42,4	25,4	67	110	12,5
33	50	51	57	67	32	35	17,5	67	24,6	42,4	25,4	67	110	12,5
35	53	54	61,5	67	32	35	17,5	67	24,6	42,4	25,4	70	115	12,5
38	56	57	66	67	32	35	17,5	67	24,6	42,4	25,4	75	125	12,5
40	58	59	68	67	32	35	17,5	67	24,6	42,4	25,4	75	125	14,7
42	60	61,5	69,5	67	32	35	17,5	67	24,6	42,4	25,4	80	133	14,7
43	60	61,5	70,5	67	32	35	17,5	67	24,6	42,4	25,4	80	133	14,7
45	62	64	73	67	32	35	17,5	67	24,6	42,4	25,4	81	141	14,7
48	66	67	75	67	32	35	17,5	67	24,6	42,4	25,4	84	141	14,7
50	68	69	78	67	32	35	17,5	67	24,6	42,4	25,4	87	150	14,7
53	72	73	87	67	32	35	17,5	67	24,6	42,4	25,4	87	150	17,5
55	73	74	83	67	32	35	17,5	67	24,6	42,4	25,4	90	150	17,5
60	78	79	91	67	32	35	17,5	67	24,6	42,4	25,4	102	157	17,5
65	83	84,5	98,5	67	32	35	17,5	67	24,6	42,4	25,4	109	165	17,5
70	93	95	108	67	32	35	17,5	67	24,6	42,4	25,4	126	180	17,5
75	100	101,6	118	84	37,9	46,1	22	84	26,6	57,4	25,4	129	190	17,5
80	106	108	124	84	37,9	46,1	22	84	26,6	57,4	25,4	135	195	17,5
85	109	111,1	128	84	37,9	46,1	22	84	26,6	57,4	25,4	139	200	20,5
90	116	117,5	135	84	37,9	46,1	22	84	26,6	57,4	25,4	145	205	20,5
95	119	120,7	138	84	37,9	46,1	22	84	26,6	57,4	25,4	148	210	20,5
100	125	127	144	84	37,9	46,1	22	84	26,6	57,4	25,4	154	218	20,5





: - (A,) - (U₃) - (Q₁, Q₂) - Al₂O₃ (V) 10 -11 -12 -13 -15 -16 -18,19 -



() :
- , FKM (V)
- (P)
- , EPDM (E)
- , FFKM
(Kalrez®), (K)
- , FEP, (M)
:

-		
-	p = 25	
	:	
-	$t = -40 \dots 110^{\circ}$	(NBR)
-	$t = -50 \dots 150^{\circ}$	(EPDM)
-	$t = -20 \dots 180^{\circ}$	(FKM)
-	$t = -20 \dots 250^{\circ}$	(FFKM)
	:	
-	v = 25 /	

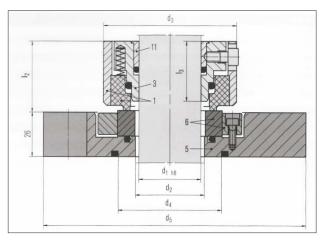
V														
d ₁	d ₂	d _{3min}	d _{3max}	L ₃₁	L ₃₂	L ₃₃	L ₃₄	L ₄₁	L ₄₂	L ₄₃	L ₄₄	С	D _c	h
25	43	44	51	79,5	26,1	53,4	25,4	86,5	33,1	53,4	25,4	62	105	12,5
28	46	47	52	79,5	26,1	53,4	25,4	86,5	33,1	53,4	25,4	62	105	12,5
30	48	49	56	79,5	26,1	53,4	25,4	86,5	33,1	53,4	25,4	65	105	12,5
32	50	51	57	79,5	26,1	53,4	25,4	86,5	33,1	53,4	25,4	67	110	12,5
33	50	51	57	79,5	26,1	53,4	25,4	86,5	33,1	53,4	25,4	67	110	12,5
35	53	54	61,5	79,5	26,1	53,4	25,4	86,5	33,1	53,4	25,4	70	115	12,5
38	56	57	66	79,5	26,1	53,4	25,4	86,5	33,1	53,4	25,4	75	125	12,5
40	58	59	68	79,5	26,1	53,4	25,4	86,5	33,1	53,4	25,4	75	125	14,7
42	60	61,5	69,5	79,5	26,1	53,4	25,4	86,5	33,1	53,4	25,4	80	133	14,7
43	60	61,5	70,5	79,5	26,1	53,4	25,4	86,5	33,1	53,4	25,4	80	133	14,7
45	62	64	73	79,5	26,1	53,4	25,4	86,5	33,1	53,4	25,4	81	141	14,7
48	66	67	75	79,5	26,1	53,4	25,4	86,5	33,1	53,4	25,4	84	141	14,7
50	68	69	78	79,5	26,1	53,4	25,4	86,5	33,1	53,4	25,4	87	150	14,7
53	72	73	87	79,5	26,1	53,4	25,4	86,5	33,1	53,4	25,4	87	150	17,5
55	73	74	83	79,5	26,1	53,4	25,4	86,5	33,1	53,4	25,4	90	150	17,5
60	78	79	91	79,5	26,1	53,4	25,4	86,5	33,1	53,4	25,4	102	157	17,5
65	83	84,5	98,5	79,5	26,1	53,4	25,4	86,5	33,1	53,4	25,4	109	165	17,5
70	93	95	108	79,5	26,1	53,4	25,4	86,5	33,1	53,4	25,4	126	180	17,5
75	100	101,6	118	79,5	26,1	53,4	25,4	108	44,1	63,9	25,4	129	190	17,5
80	106	108	124	79,5	26,1	53,4	25,4	108	44,1	63,9	25,4	135	195	17,5
85	109	111,1	128	79,5	26,1	53,4	25,4	108	44,1	63,9	25,4	139	200	20,5
90	116	117,5	135	79,5	26,1	53,4	25,4	108	44,1	63,9	25,4	145	205	20,5
95	119	120,7	138	79,5	26,1	53,4	25,4	108	44,1	63,9	25,4	148	210	20,5
100	125	127	144	79,5	26,1	53,4	25,4	108	44,1	63,9	25,4	154	218	20,5

25

SEALMIX-1

FDA (





- p= ..6
- t= -20...150 °C
- v=0..2 /

±1,5

- :
- :
- ;
FKM (V)
- (P)
- , EPDM (E)
- (K)

d ₁	d_2	d_3	d ₄	d ₅	l ₂	13	a _{1 (min)}	a _{1 (max)}	S
25	34	68		148	41,5	40,5	100	132	11
28	34	68	55	148	41,5	40,5	100	132	11
30	34	68	55	148	41,5	40,5	100	132	11
32	39	73	60	153	41,5	40,5	105	137	11
35	39	73	60	153	41,5	40,5	105	137	11
38	44	78	65	158	41,5	40,5	110	142	11
40	44	78	65	158	41,5	40,5	110	142	11
45	49	83	68	163	41,5	40,5	120	152	11
48	54	88	73	178	41,5	40,5	125	160	14
50	54	88	73	178	41,5	40,5	125	160	14
55	59	93	79	183	41,5	40,5	130	165	14
60	64	98	85	188	41,5	40,5	135	170	14
65	69	103	90	193	44,5	43,5	140	175	14
70	74	108	95	198	44,5	43,5	145	180	14
75	79	113	100	203	44,5	43,5	150	185	14
80	84	118	105	208	44,5	43,5	155	190	14
85	89	123	110	213	44,5	43,5	160	195	14
90	94	128	115	218	44,5	43,5	165	200	14
95	99	133	120	223	44,5	43,5	170	205	14
100	104	138	125	228	44,5	43,5	175	210	14
105	109	143	130	233	44,5	43,5	180	215	14
110	114	148	134	238	44,5	43,5	185	220	14
115	119	153	140	243	44,5	43,5	196	243	18
1 25	129	163	150	277	44,5	43,5	206	253	18
140	144	178	165	297	44,5	43,5	221	273	18
160	164	198	185	317	44,5	43,5	241	293	18

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ООО "СИЛМЕКС" Тел./факс: (495) 989-40-87

www.sealmex.ru e-mail: info@sealmex.ru 26

SEALMIX-2

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- t = -50...250 °C

- v = 0..4 /

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- : ,

____:

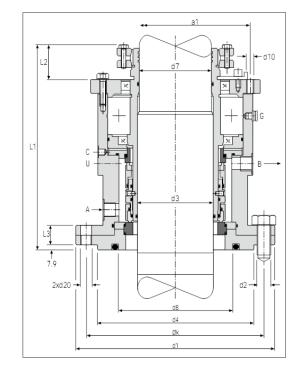
- , FKM (V)

- (P)

, EPDM (E)

- (K)

, FEP (M)



d3	d7	d1	nxd2	d4	d8	Øk	L1	L2	d10	d20	A,B	С	U	L3	a1
30, 33, 35, 38		175	4x18	110	95	145	210	33.5	M12	M16	G3/8	G1/8	G1/2	28	109.5
40	38	175	4x18	110	95	145	210	33.5	M12	M16	G3/8	G1/8	G1/2	28	109.5
43, 45,48		240	8x18	176	107	210	215	33.5	M12	M16	G3/8	G1/8	G1/2	28	133
50	48	240	8x18	176	107	210	215	33.5	M12	M16	G3/8	G1/8	G1/2	28	133
53, 55, 58		240	8x18	176	121	210	225	33.5	M12	M16	G3/8	G1/8	G1/2	35	146
60	58	240	8x18	176	121	210	225	33.5	M12	M16	G3/8	G1/8	G1/2	35	146
63, 65, 68, 70, 75		275	8x22	204	150	240	265	45	M16	M20	G1/2	G1/8	G1/2	40	190
80	78	275	8x22	204	150	240	265	45	M16	M20	G1/2	G1/8	G1/2	40	190
85, 90, 95		305	8x22	234	174	270	270	45	M16	M20	G1/2	G1/8	G1/2	40	220
100	98	305	8x22	234	174	270	270	45	M16	M20	G1/2	G1/8	G1/2	40	220
105, 110, 115, 120		330	8x22	260	200	295	312	45	M20	M20	G1/2	G1/8	G1/2	40	249
125	120	330	8x22	260	200	295	312	45	M20	M20	G1/2	G1/8	G1/2	40	249
130, 135		395	12x22	313	219	350	318	52	M20	M20	G1/2	G1/8	G1/2	22	264
140	135	395	12x22	313	219	350	318	52	M20	M20	G1/2	G1/8	G1/2	22	264
145, 150, 155		395	12x22	313	219	350	318	52	M20	M20	G1/2	G1/8	G1/2	44	304
160	150	395	12x22	313	238	350	345	52	M20	M20	G1/2	G1/8	G1/2	44	304

+

FDA (

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KSB

- Amarex
- Etabloc
- Etachrom
- Etaline
- Etanorm
- Etaprime
- KWP



FRISTAM

- FM
- FP
- FPE
- FPX
- FT - FR
- FZ



TUCHENHAGEN

- Variflow KN
- Variflow TP
- VPB
- VPC
- VPB
- VPSH
- VPSU



- Contra

- Durietta
- Euro-HYGIA
- HYGIA
- Hygiana
- Maxa
- Maxana
- Sipla



ALFA-LAVAL

- ALC
- CM
- FM - LKH
- ME
- MR
- M0G - Soild
- SRU



- DW - Howard
- W / W+





- LOWARA

- EBARA
- PEDROLLO
- IBEX
- CALPEDA



- Prolac

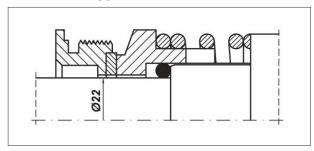
- SLR
- TLC



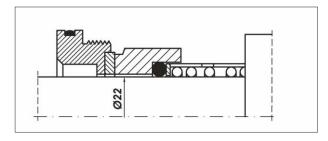
Alfa Laval



NT LKH/022-B



NT LKH/022-C



Alfa Laval CN, EM, FM, GM, LKH, ME, MR ALC (F)

- . CrMo c

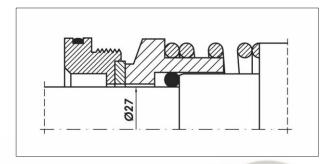
-

: EPDM, Viton

NBR

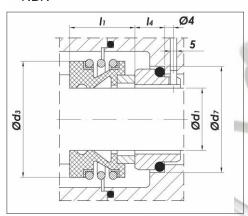
NM AL

NM AL Alfa Laval ALC (D) NT LKH/027



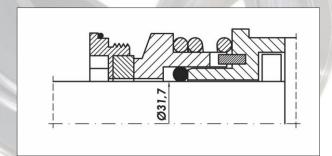
: EPDM, Viton

NBR



d₁	d₃	d_7	I ₁	I_4
40	60,0	58,0	30,0	14,0
53	76,0	73,0	33,0	15,0
60	85,0	80,0	38,0	15,0

NT LKH/0317

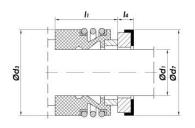


Grundfos

NM LT

LP, NM, NP, TP, CR(N) 3/4; 8/16. : BUBE 12, 16, 22, 33

Grundfos LM,



d₁	d ₃	d,	I ₁	I ₄
12	24	23	25,9	15,0
16	28	27	28,4	12,3
22	36	37	30,0	11,1
33	51	48	35,0	7,5
				-



NM-12 / NM-13

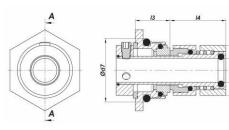
NM, NK, TP, CDM, CLM 28, 38, 45, 48, 55, 65 mm

Grundfos : BAQE, BBUE, BQQE, GQQE,

d ₁	d ₃	d,	I ₁	I ₄
28	47	43	42,5	7,5
38	58	56	46,0	9,0
45	65	63	36,0	9,0
55	78	75	59,0	12,0
65	90	85	69,0	14,5

GR2

CRN, CRE. : HQQE 12, 16, 22



d₁	d ₃	d ₇	lз	I 4
12	25,2	29	19,5	32,0
16	29,7	34	20,5	32,0
22	43	50	26	37,0

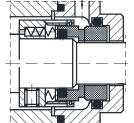
Grundfos CR, CRI,



BV-1 GF

Grundfos TP 100,

125, 200, 250



1 5/8"	T 100		
1 7/8"	T 125		
2"	100		
2 1/2"	125/ 150		
2 3/4"	150		
2 5/8"	100/ 200		

BV-2 SRL / BV-4 SRL

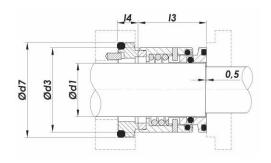
Grundfos-Sarlin

- S1 - S2
- S3 SV SA



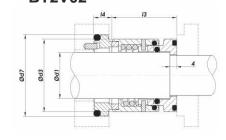
: DBUE

BT2V01



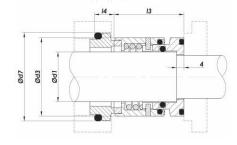
d₁	d₃	d_{7}	l ₃	I_4
28	43,0	48	34,5	10,5
38	52,8	57	35,0	10,5

BT2V02



d₁	d ₃	d_7	l ₃	I ₄
28	43,0	48	38,0	10,5

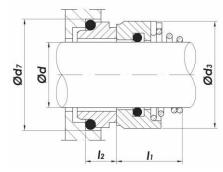
BT2V03



d₁	$d_{_3}$	d_{7}	l ₃	l ₄
19	33,5	31	29,0	8,0
28	40,0	43	33,0	9,0
38	52.0	60.5	43.0	11.5

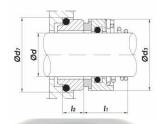


NT HG



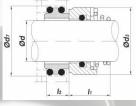
d₁	$d_{_3}$	d_7	I 1	 2
19	31,0	30,9	25,0	8,0
28	40,0	43,3	29,0	9,0
30	43,0	45,0	31,5	11,0
38	53,0	60,5	39,0	11,5
40	56,0	58,0	33,5	11,5
50	66,0	70,0	33,5	14,0

NT HG2



d_1	d₃	d_7	I ₁	l 2	I 11	I 21
19	31	35	20,0	9,5	22,0	7,5
28	40	42	24,5	11,0	26,5	9,0
30	43	45	24,5	11,0	25,0	10,5
38	53	55	31,0	11,5	32,2	11,3
40	56	58	34,0	11,5	34,7	11,8
50	66	70	43,5	14	45,7	11,6

NT HG STX



		- 11			
d	d₃	d ₇	l ₁	12	
19	31	35,0	20,0	15,0	
28	40	41,3	24,5	15,5	





WILO

- NB
- NL - IPn
- DPn
- MVI

Grundfos

- CR, CRE, CRN
- TP, TPE, TPD, TPED
- LP, LPE, LPD, LPDE
- NK
- NM, NME, DNM, DNME
- NB
- CLM, CDM, CLP
- LM
- NP, NPE, DNP, DNPE



Grindex





EMU





Grundfos-Sarlin





ABS

- AF
- AFP
- PIRANHA
- PX
- VUP





- SULZER

- KSB

- S1

- S2

- S3

- SV

- SA

- VOGEL
- ITT GOULDS
- ITT ROBOT
- SEEPEX
- ZENIT



- LOWARA

- EBARA
- PEDROLLO
- CALPEDA
- IBEX
- DAB



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- X12CrNi17.7



ANDRITZ S, SF: (A,) - UCA ADR -(U3) (Q₁, Q₂) $Al_2O_3(V)$ - NM-AR-

, FKM (V)

, FFKM Kalrez®)

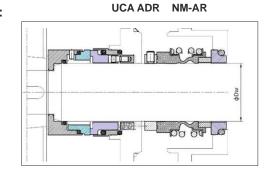
, FEP

, EPDM (E)

(P)

316L

- UCD ADR -



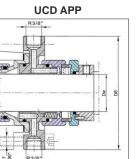
SULZER AHLSTROM

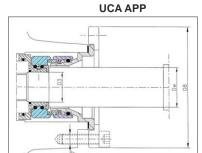
- UCA APP -

- UC APP -

- UCDAPP -

APP/APT



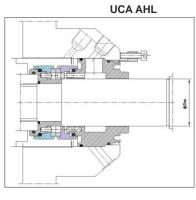




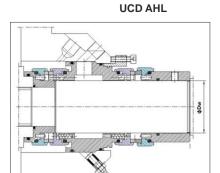
SULZER

A, AHLSTAR

- UCA AHL -
- UCDAHL -







UCA APP, UCD APP

SULZER AHLSTROM

SULZER/AHLSTROM APP APT Burgmann LP-D



UCAAPP (A,) (U₃) (Q₁, Q₂) $Al_2O_3(V)$

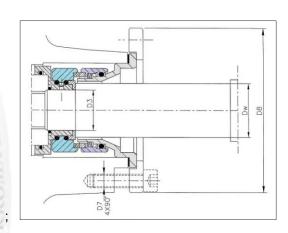
, FKM (V) (P) , EPDM (E) , FFKM Kalrez®) , FEP

X12CrNi17.7

p = 25

()

UCD APP



- :	
$- t = -40 \dots 110^{\circ}$	(NBR)
$- t = -50 \dots 150^{\circ}$	(EPDM)
$- t = -20 \dots 180^{\circ}$	(FKM)
$- t = -20 \dots 250^{\circ}$	(FFKM)
:	
- v = 25 /	

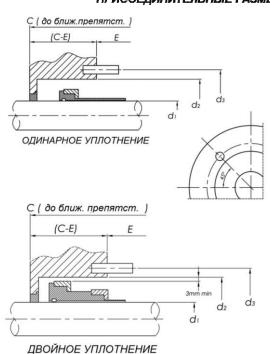
	Dw	D3	D7	D8
APP1	30	23	M10	112
APP2	40	30	M10	122
APP3	50	40	M12	143
APP4	60	45	M12	154
APP5	80	65	M16	193
APP6	90	75	M16	203





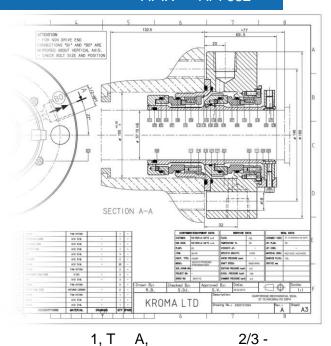






Диаметр вала d1, мм	Диаметр камеры d2, мм	Диаметр центров отв. под болты, d3, мм	Длина уплотнения С, мм	Глубина камеры, С-Е, мм	Диаметр болтов
20	70	105	150	50	M12
30	80	115	155	55	M12
40	90	125	160	60	M12
50	100	140	165	55	M16
60	120	160	170	60	M16
70	130	170	175	65	M16
80	140	180	180	70	M16
90	160	205	185	65	M20
100	170	215	190	70	M20
110	180	225	195	75	M20

APIX API 682

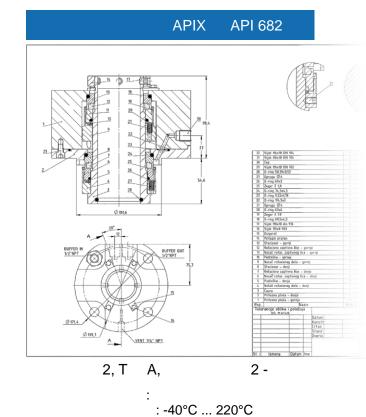


: -30°C ... 220°C

40

25 / / 5000 /

: ±2,0 ..4,0

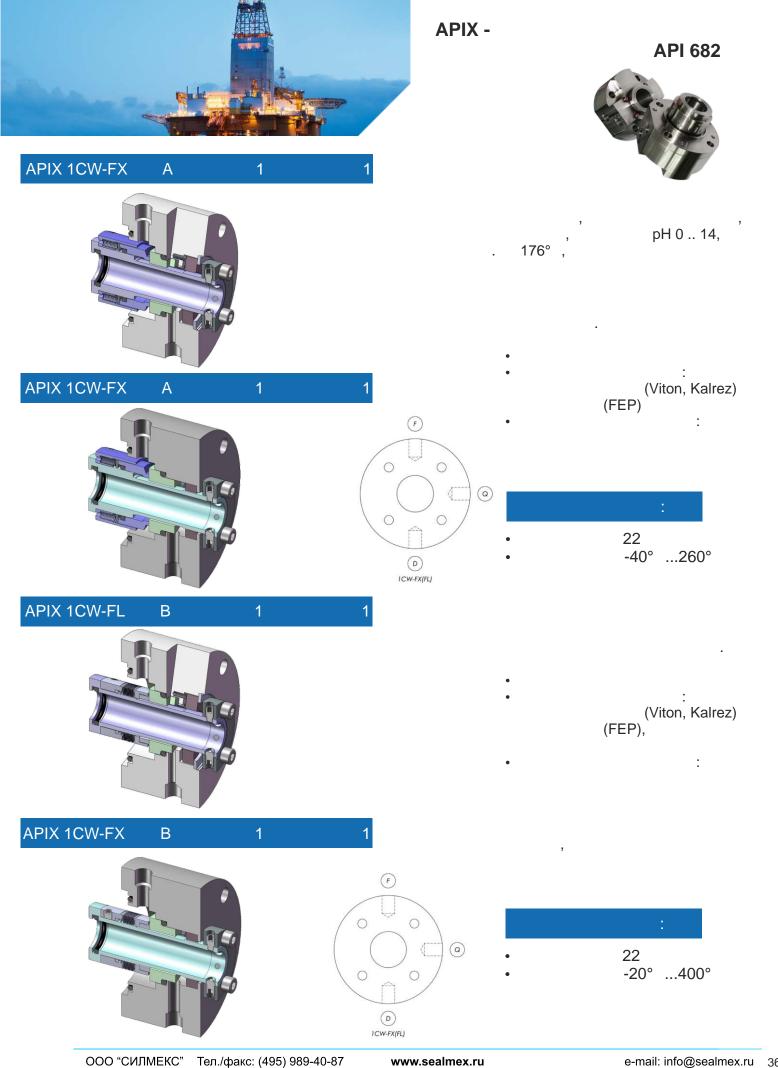


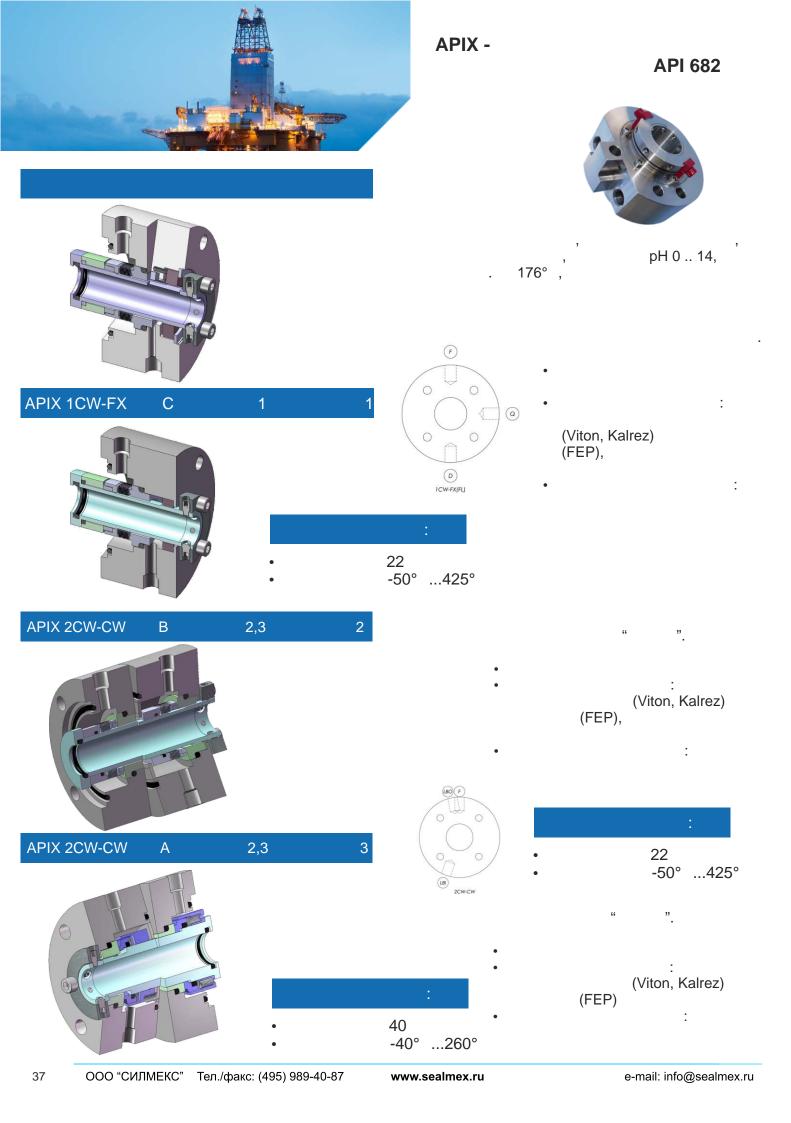
40

25 / / 5000 /

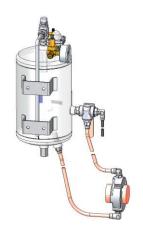
35

: ±2,0 ..4,0







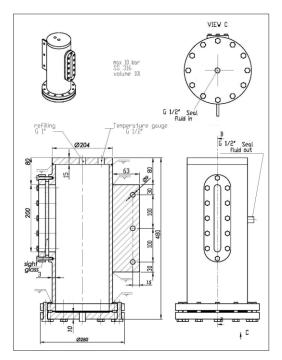


VS



VS 1.4571),

	VS-4	VS-10	VS-25
	4	10	25
	100°	200°	200°
	16	20	20
,	1,0	1,5	2,0
,	2,0	4,0	6,0

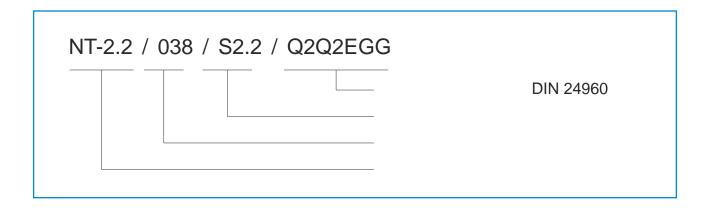




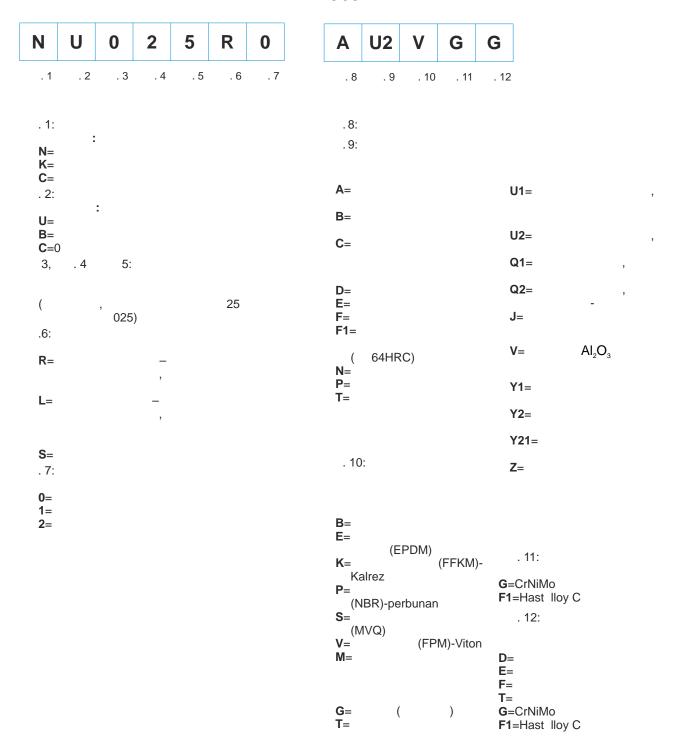
25 : 1.4571/PTFE/

(0... 25) (0... 200 °) : 1.4571

(min/max): 40) 180°) . 0.7 / 3 : 1.4571



DIN 24960



	AES	BURGMANN	CRANE	ROTEN	VULCAN	
NM-1	B02	MG1		L3	19	Hecker HN 410SU
NM-12	B012	MG12		L3K	192	Hecker HN 410KU
NM-13	B013	MG13		L3N	193	Hecker HN 410NU
NM-2100	B05		T2100			
NM-4	B01	BT-AR	PR/DR	37B/L5	18	Cyclam
NM LT	B012G	MG12S				Grundfos
NT-1	T07D	M2N		UNITEN 22		Hecker HN 400A
NT-2	T01D/T03D	M3N/M32N/M377N		UNITEN 2	8.DIN	211
NT LKH	P07					Alfa Laval
NS-1	T04	BT-FN		3		
NS-DN	T04D	BT-FN.NU		UNITEN 3		Lowara
BT-1	T01DB	H12N				Hecker HN 430N
BT2V	M010S1/2/3	SHJ97		EHS3		Hilge
NV-1	M03	M74N	58U/59U		1659/1659\$	153 / 251
NV-2		M78N				
NV-3	W07DM	M7N			1677	Flowserve Europac 600
BV-1	M04/W07DMB	H74N	58B/59B		1659B/1659BS	
BV-2	SSAI/M010	HJ92N		EHS		Hecker HN 435
BV-TNG						Sterling GNZ
NMM-1	BSAI	MFL85N	670 / 680			Chesterton 886
NMM-GR	BSAIG	MFLWT80	670 / 680			
NMM-2		MF95N	515 / 5515			
CHEM NM-3	B08	TF95 /92/ 97	10R / 10T			
CHEM NV-4	NCE / CS					
S1	S02	G9			8.DINL	
S2	S03	G6	BS		8.DINS	
S3	S07/S070		W type	W	21/31	
S4	S011		P/PP/PG			
S5	S040	G60	М		19B STAT	
S8	S08/S080		V	V	25	
S5G50		G50				
S2G4	S01	G4			8.STD	
UCA	C II /CURC /SMSS	CARTEX-SO				
UCB	CURC /SMSS	CARTEX-SN				Chesterton 150
UCC	CURE /SMSR	CARTEX-QN				Chesterton 150
UCD	CDSA / DISP	CARTEX-DN				Chesterton 250
UCA APP		LP-S	JCS1			Safematic SE1
UCD APP		LP-D	JCS2			Safematic SE2
APIX	CAPI	H75VK/MFLWT/APITE	EX1670/2609/3604			
SEALMIX-1		SECCOMIX				
SEALMIX-2	Mixmaster	M481 / M461	FG0M/FG1M/FG2M	1		





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