



دومان تجارت صنعت گستر

DUMAN TEJARAT

سهامی خاص شماره ثبت: ۵۸۵۶۷



FONTUS

BRAND OF YAKAMOZ SU SANAYI VE TIC.LTD.ŞTI

آدرس: تبریز، سه راهی محقق، جنب چهلستون نو
مجتمع نگین گلستان طبقه دوم واحد ۲۰۹

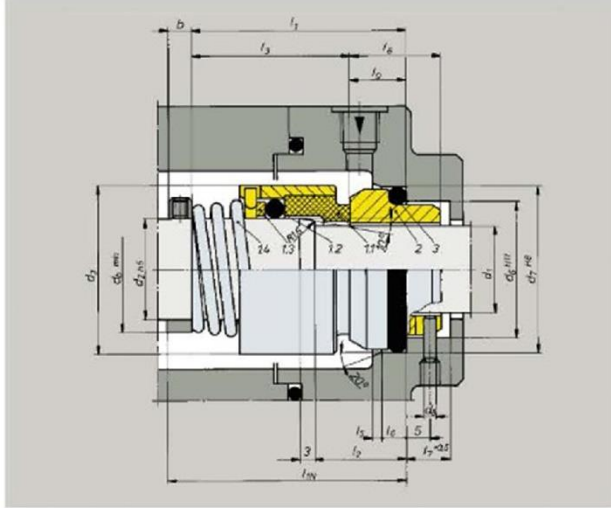


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0919 193 0352
0912 338 1281
0993 931 7048
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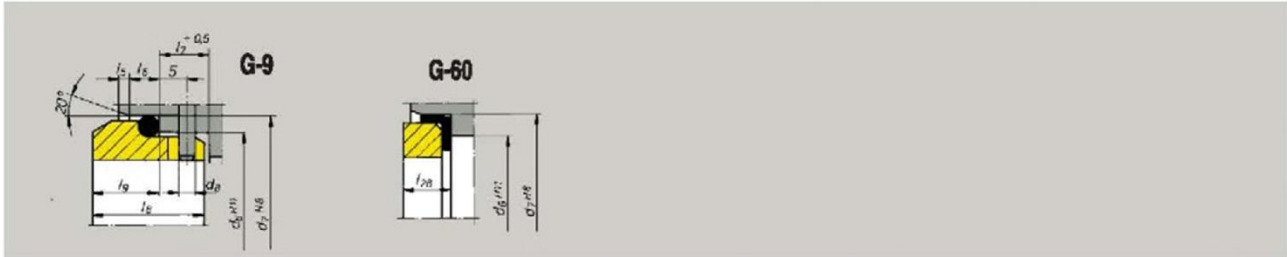




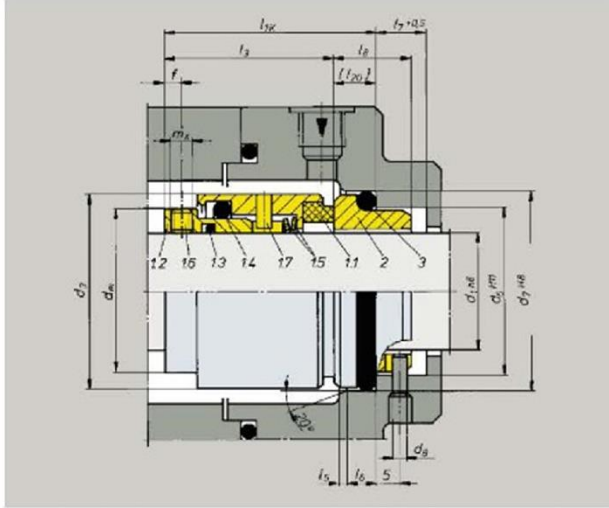
Parça Tanımlama	Teknik Özellikleri	Çalışma Limitleri	Malzemeler
▶ 1,1-Sıkı Geçme Karbon Yüzeyi ve Kovanı	▶ Tekli Salmastra	▶ $d_1 = 10 - 80\text{mm}$	▶ Döner Eleman Yüzey Seçenekleri: Karbon Ring Geçme
▶ 1,2-Döner Eleman O-Ringi	▶ Balanslı	▶ $p = 25\text{ bar}$	▶ Sabit Eleman Yüzey Seçenekleri: Krom-Nikel 316 ti, Seramik, Silisyumkarbür, Tungstenkarbür
▶ 1,3-Baskı Pulu	▶ Konik Yaylı	▶ $t = -50 / 220\text{ }^\circ\text{C}$	▶ Elastomerler : Viton (FKM), EPDM, Nitril (NBR), Silikon
▶ 1,4-Yay	▶ Dönme Yönüne Bağımlı	▶ $V_g = 20\text{ m/sn}$	
▶ 2-Sabit Eleman			
▶ 3-Sabit Eleman O-Ringi			

Sabit Eleman Seçenekleri

▶ G-9 G-60



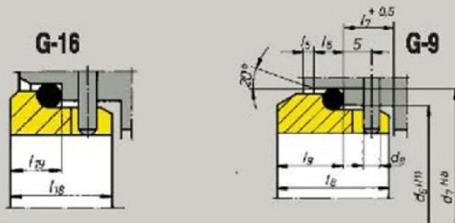
d_1	d_2	d_3	d_6	d_7	d_8	d_b	l_{1N}	l_1	l_2	l_3	l_5	l_6	l_7	l_8	l_9	$b^{2)}$
10	14	24	17	21	3	18	50	35.5	18	25.5	1.5	4	8.5	17.5	10.0	8.0
12	16	26	19	23	3	21	50	36.5	18	26.5	1.5	4	8.5	17.5	10.0	8.0
14	18	31	21	25	3	23	55	39.5	18	29.5	1.5	4	8.5	17.5	10.0	8.0
16	20	34	23	27	3	26	55	41.0	18	31.0	1.5	4	8.5	17.5	10.0	8.0
18	22	36	27	33	3	28	55	44.0	20	32.5	2.0	5	9.0	19.5	11.5	8.0
20	24	38	29	35	3	30	60	44.0	20	32.5	2.0	5	9.0	19.5	11.5	8.0
22	26	40	31	37	3	31	60	44.0	20	32.5	2.0	5	9.0	19.5	11.5	8.0
24	28	42	33	39	3	35	60	44.0	20	32.5	2.0	5	9.0	19.5	11.5	8.0
25	30	44	34	40	3	37	60	45.0	20	33.5	2.0	5	9.0	19.5	11.5	8.0
28	33	47	37	43	3	40	65	47.0	20	35.5	2.0	5	9.0	19.5	11.5	8.0
30	35	49	39	45	3	43	65	47.0	20	35.5	2.0	5	9.0	19.5	11.5	8.0
32	38	54	42	48	3	45	65	51.0	20	39.5	2.0	5	9.0	19.5	11.5	7.5
33	38	54	42	48	3	45	65	51.0	20	39.5	2.0	5	9.0	19.5	11.5	7.5
35	40	56	44	50	3	49	65	55.0	20	43.5	2.0	5	9.0	19.5	11.5	8.0
38	43	59	49	56	4	52	75	60.0	23	46.0	2.0	6	9.0	22.0	14.0	7.5
40	45	61	51	58	4	55	75	62.0	23	48.0	2.0	6	9.0	22.0	14.0	8.0
43	48	64	54	61	4	58	75	65.0	23	51.0	2.0	6	9.0	22.0	14.0	8.0
45	50	66	56	63	4	61	75	69.0	23	55.0	2.0	6	9.0	22.0	14.0	(8)
48	53	69	59	66	4	64	85	69.0	23	55.0	2.0	6	9.0	22.0	14.0	8.0
50	55	71	62	70	4	66	85	73.0	25	58.0	2.5	6	9.0	23.0	15.0	8.0
53	58	78	65	73	4	69	85	75.0	25	60.0	2.5	6	9.0	23.0	15.0	8.0
55	60	79	67	75	4	71	85	75.0	25	60.0	2.5	6	9.0	23.0	15.0	8.0
58	63	83	70	78	4	74	85	75.0	25	60.0	2.5	6	9.0	23.0	15.0	8.0
60	65	85	72	80	4	77	95	75.0	25	60.0	2.5	6	9.0	23.0	15.0	8.0
63	68	88	75	83	4	80	95	75.0	25	60.0	2.5	6	9.0	23.0	15.0	8.0
65	70	90	77	85	4	83	95	76.0	25	61.0	2.5	6	9.0	23.0	15.0	10.0
68 ¹⁾																
70	75	98	83	92	4	88	95	81.0	28	63.0	2.5	7	9.0	26.0	18.0	10.0
75	80	103	88	97	4	93	105	86.0	28	68.0	2.5	7	9.0	26.0	18.0	10.0
80	85	109	95	105	4	98	105	86.0	28	68.0	3.0	7	9.0	26.2	18.2	10.0



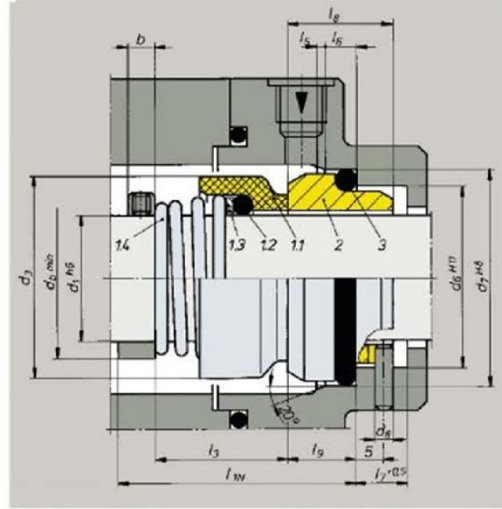
Parça Tanımlama	Teknik Özellikleri	Çalışma Limitleri	Malzemeler
▶ 1,1-Sıkı Geçme Yüzeyi ve Kovanı	▶ Tekli Salmastra	▶ $d_1 = 18 - 100\text{mm}$	▶ Döner Eleman Yüzey Seçenekleri: Karbon, Silisyumkarbür, Tungstenkarbür
▶ 1,2-Baskı Bileziği	▶ Balanslı	▶ $p = 0.8 - 25\text{ bar}$	▶ Sabit Eleman Yüzey Seçenekleri: Krom-Nikel 316 ti, Seramik, Silisyumkarbür, Tungstenkarbür
▶ 1,3-O-Ring	▶ Yaprak Yay	▶ $t = -50 / 220\text{ }^\circ\text{C}$	▶ Elastomerler : Viton (FKM), EPDM, Nitril (NBR), Silikon
▶ 1,4-O-Ring	▶ Dönme Yönüne Bağımsız	▶ $V_g = 20\text{ m}^3/\text{sn}$	
▶ 1,5-Yay			
▶ 1,6-Setusukur			
▶ 2-Sabit Eleman			
▶ 3-Sabit Eleman O-Ringi			

Sabit Eleman Seçenekleri

▶ G-16 G-9



d_1	d_3	d_6	d_7	d_8	d_m	l_{1K}	l_3	l_5	l_6	l_7	l_8	l_{20}	$l_{11}^{1)}$	$l_{12}^{2)}$	l_{13}	l_{18}	l_{19}	f	m_x
18	32	27	33	3	26.0	37.5	30.5	2.0	5	9	15.0	7.0	39.5	35.5	28.5	17.0	9.0	3.0	M4
20	34	29	35	3	28.0	37.5	30.5	2.0	5	9	15.0	7.0	39.5	35.5	28.5	17.0	9.0	3.0	M4
22	36	31	37	3	30.0	37.5	30.5	2.0	5	9	15.0	7.0	39.5	35.5	28.5	17.0	9.0	3.0	M4
24	38	33	39	3	32.5	40.0	33.0	2.0	5	9	15.0	7.0	42.0	38.0	31.0	17.0	9.0	3.5	M5
25	39	34	40	3	33.5	40.0	33.0	2.0	5	9	15.0	7.0	42.0	38.0	31.0	17.0	9.0	3.5	M5
28	42	37	43	3	36.5	42.5	35.5	2.0	5	9	15.0	7.0	45.0	40.0	33.0	17.5	9.5	3.5	M5
30	44	39	45	3	38.5	42.5	35.5	2.0	5	9	15.0	7.0	45.0	40.0	33.0	17.5	9.5	3.5	M5
32	47	42	48	3	41.5	42.5	35.5	2.0	5	9	15.0	7.0	45.0	40.0	33.0	17.5	9.5	3.5	M5
33	47	42	48	3	41.5	42.5	35.5	2.0	5	9	15.0	7.0	45.0	40.0	33.0	17.5	9.5	3.5	M5
35	49	44	50	3	43.5	42.5	35.5	2.0	5	9	15.0	7.0	45.0	40.0	33.0	17.5	9.5	3.5	M5
38	54	49	56	4	47.5	45.0	37.0	2.0	6	9	16.0	8.0	47.5	42.5	34.5	18.5	10.5	4.0	M5
40	56	51	58	4	49.5	45.0	37.0	2.0	6	9	16.0	8.0	47.5	42.5	34.5	18.5	10.5	4.0	M5
43	59	54	61	4	52.5	45.0	37.0	2.0	6	9	16.0	8.0	47.5	42.5	34.5	18.5	10.5	4.0	M5
45	61	56	63	4	54.5	45.0	37.0	2.0	6	9	16.0	8.0	47.5	42.5	34.5	18.5	10.5	4.0	M5
48	64	59	66	4	57.5	45.0	37.0	2.0	6	9	16.0	8.0	47.5	42.5	34.5	18.5	10.5	4.0	M5
50	66	62	70	4	59.5	47.5	38.0	2.5	6	9	17.0	9.5	50.0	45.0	35.5	19.5	12.0	4.5	M6
53	69	65	73	4	62.5	47.5	38.0	2.5	6	9	17.0	9.5	50.0	45.0	35.5	19.5	12.0	4.5	M6
55	71	67	75	4	64.5	47.5	38.0	2.5	6	9	17.0	9.5	50.0	45.0	35.5	19.5	12.0	4.5	M6
58	78	70	78	4	68.5	52.5	42.0	2.5	6	9	18.0	10.5	55.0	50.0	39.5	20.5	13.0	4.5	M6
60	80	72	80	4	70.5	52.5	42.0	2.5	6	9	18.0	10.5	55.0	50.0	39.5	20.5	13.0	4.5	M6
63	83	75	83	4	73.5	52.5	42.0	2.5	6	9	18.0	10.5	55.0	50.0	39.5	20.5	13.0	4.5	M6
65	85	77	85	4	75.5	52.5	42.0	2.5	6	9	18.0	10.5	55.0	50.0	39.5	20.5	13.0	4.5	M6
68	88	81	90	4	78.5	52.5	41.5	2.5	7	9	18.5	11.0	55.0	50.0	39.0	21.0	13.5	4.5	M6
70	90	83	92	4	80.5	60.0	48.5	2.5	7	9	19.0	11.5	62.5	57.5	46.0	21.5	14.0	5.0	M6
75	99	88	97	4	89.0	60.0	48.5	2.5	7	9	19.0	11.5	62.5	57.5	46.0	21.5	14.0	5.5	M8
80	104	95	105	4	94.0	60.0	48.5	3.0	7	9	19.0	11.5	62.5	57.5	46.0	21.5	14.0	5.5	M8
85	109	100	110	4	99.0	60.0	48.5	3.0	7	9	19.0	11.5	62.5	57.5	46.0	21.5	14.0	5.5	M8
90	114	105	115	4	104.0	65.0	52.0	3.0	7	9	20.5	13.0	67.5	62.5	49.5	23.0	15.5	5.5	M8
95	119	110	120	4	109.0	65.0	52.0	3.0	7	9	20.5	13.0	67.5	62.5	49.5	23.0	15.5	5.5	M8
100	124	115	125	4	114.0	65.0	52.0	3.0	7	9	20.5	13.0	67.5	62.5	49.5	23.0	15.5	5.5	M8



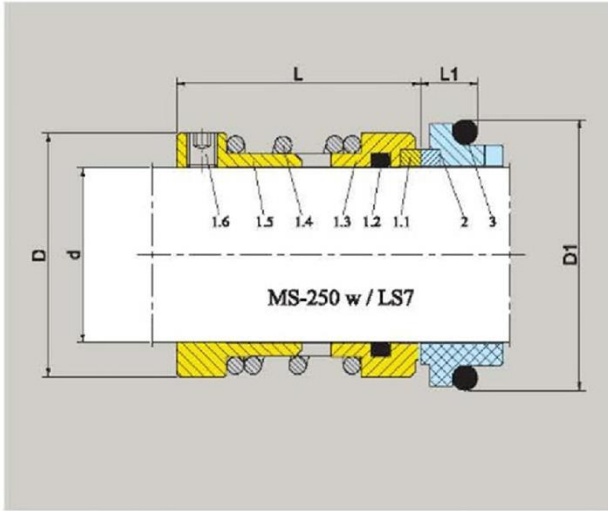
Parça Tanımlama	Teknik Özellikleri	Çalışma Limitleri	Malzemeler
▶ 1,1-Döner Eleman Karbon	▶ Tekli Salmastra	▶ $d_1 = 6 - 38\text{mm}$	▶ Döner Eleman Yüzey Seçenekleri: Karbon
▶ 1,2-Döner Eleman O-Ringi	▶ Balansız	▶ $p = 10\text{ bar}$	▶ Sabit Eleman Yüzey Seçenekleri: Krom-Nikel 316 ti, Seramik, Silyumkarbür, Tungstenkarbür
▶ 1,3-Baskı Pulu	▶ Konik Yaylı	▶ $t = -50 / 220\text{ }^\circ\text{C}$	▶ Elastomerler : Viton (FKM), EPDM, Nitril (NBR), Silikon
▶ 1,4-Yay	▶ Dönme Yönüne Bağımlı	▶ $V_g = 15\text{ m/sn}$	
▶ 2-Sabit Eleman			
▶ 3-Sabit Eleman O-Ringi			

Sabit Eleman Seçenekleri

▶ G-4 G-6 G-9



d_1	d_3	d_6	d_7	d_8	d_{11}	d_{12}	d_{17}	l_{1N}	l_3	l_5	l_6	l_7	l_8	l_9	l_{10}	l_{12}	l_{14}	l_{15}	l_{16}	l_{21}	l_{28}	b	R
6	15	-	-	-	11.8	16.0	8	-	-	-	-	-	-	-	6.5	5.6	1.2	3.8	10.9	-	-	1.2	
8	18	-	-	-	15.5	19.2	11	-	-	-	-	-	-	-	8.0	7.0	1.2	3.8	15.5	-	-	1.2	
10*	20	17	21	3	15.5	19.2	13	40	17.5	1.5	4	8.5	17.5	10.0	7.5	7.5	6.6	1.2	3.8	15.9	6.6	8	1.2
12*	22	19	23	3	17.5	21.6	16	40	17.5	1.5	4	8.5	17.5	10.0	7.5	8.0*	7.0*	1.2	3.8	16.0	6.6	8	1.2
14*	25	21	25	3	20.5	24.6	18	40	17.5	1.5	4	8.5	17.5	10.0	7.5	8.0*	7.0*	1.2	3.8	16.0	6.6	8	1.2
15	27	-	-	-	20.5	24.6	19	-	-	-	-	-	-	-	7.5	6.6	1.2	3.8	17.4	-	-	1.2	
16*	27	23	27	3	22.0	28.0	21	40	19.5	1.5	4	8.5	17.5	10.0	7.5	8.5	7.5	1.5	5.0	19.0	6.6	8	1.5
18*	30	27	33	3	24.0	30.0	23	45	20.5	2.0	5	9.0	19.5	11.5	8.5	9.0	8.0	1.5	5.0	20.5	7.5	8	1.5
20*	32	29	35	3	29.5	35.0	26	45	22.0	2.0	5	9.0	19.5	11.5	8.5	8.5	7.5	1.5	5.0	22.0	7.5	8	1.5
22*	35	31	37	3	29.5	35.0	28	45	23.5	2.0	5	9.0	19.5	11.5	8.5	8.5	7.5	1.5	5.0	23.5	7.5	8	1.5
24*	38	33	39	3	32.0	38.0	30	50	25.0	2.0	5	9.0	19.5	11.5	8.5	8.5	7.5	1.5	5.0	25.0	7.5	8	1.5
25*	40	34	40	3	32.0	38.0	31	50	26.5	2.0	5	9.0	19.5	11.5	8.5	8.5	7.5	1.5	5.0	26.5	7.5	8	1.5
26	41	-	-	-	34.0	40.0	32	-	-	-	-	-	-	-	9.0	8.0	1.5	5.0	26.5	-	-	1.5	
28*	43	37	43	3	36.0	42.0	35	50	26.5	2.0	5	9.0	19.5	11.5	8.5	10.0	9.0	1.5	5.0	26.5	7.5	8	1.5
30	47	-	-	-	39.2	45.0	37	-	-	-	-	-	-	-	11.5	10.5	1.5	5.0	25.0	-	-	1.5	
32	48	-	-	-	42.2	48.0	39	-	-	-	-	-	-	-	13.0	10.5	1.5	5.0	28.5	-	-	1.5	
35	53	-	-	-	46.2	52.0	43	-	-	-	-	-	-	-	13.5	11.0	1.5	5.0	28.5	-	-	1.5	
38	56	-	-	-	49.2	55.0	47	-	-	-	-	-	-	-	13.0	10.3	1.5	5.0	32.0	-	-	1.5	


Parça Tanımlama

- ▶ 1,1-Döner Eleman Yüzeyi
- ▶ 1,2-Döner Eleman O-Ringi
- ▶ 1,3-Döner Eleman Kovanı
- ▶ 1,4-Yay
- ▶ 1,5-Baskı Bileziği
- ▶ 1,6-Setusukur
- ▶ 2-Sabit Eleman
- ▶ 3-Sabit Eleman O-Ringi

Teknik Özellikleri

- ▶ Tekli Salmastra
- ▶ Balanssız
- ▶ Dönme Yönüne Bağımsız

Çalışma Limitleri

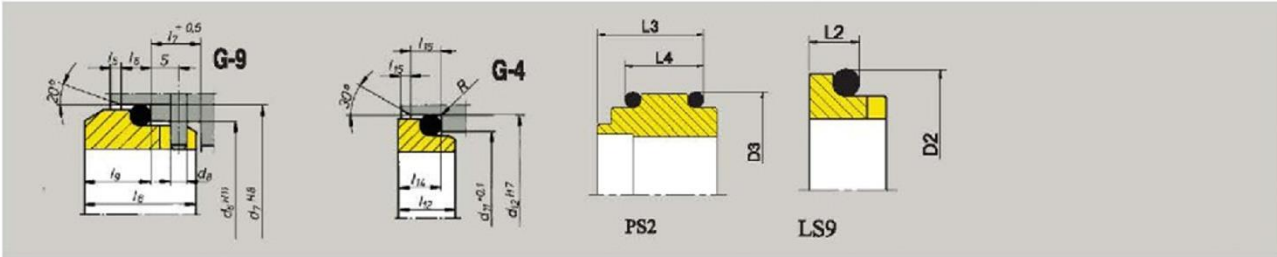
- ▶ $d1 = 20 - 100\text{mm}$
- ▶ $p = 12\text{ bar}$
- ▶ $t = -35 / 220\text{ }^\circ\text{C}$
- ▶ $Vg = 20\text{ m}^3/\text{sn}$

Malzemeler

- ▶ Döner Eleman Yüzey Seçenekleri: Karbon, Silisyumkarbür, Tungstenkarbür
- ▶ Sabit Eleman Yüzey Seçenekleri: Krom-Nikel 316 ti, Seramik, Silisyumkarbür, Tungstenkarbür
- ▶ Elastomerler : Viton (FKM), EPDM, Nitril (NBR), Silikon

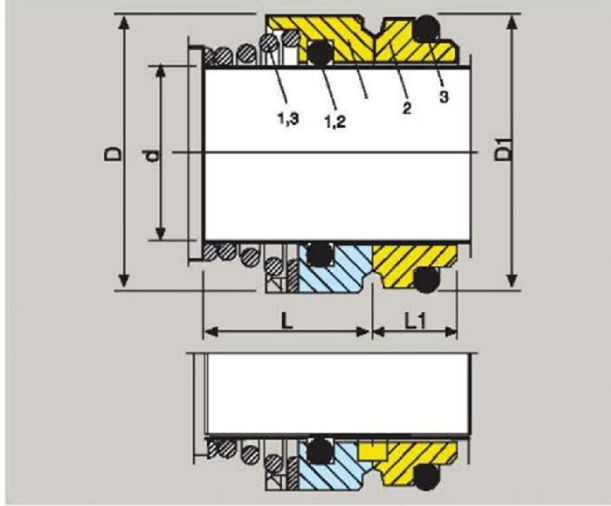
Sabit Eleman Seçenekleri

- ▶ G-9 G-4



MS - 250		LS7		LS9		PS2				
d	d (in)	D	L	D1	L1	D2	L2	D3	L3	L4
20	0.750	34	41	35	13	33.32	6.2	42	23	18
22	-	36	41	37	13	34.93	6.2	44	23	18
24	0.875	38	43	39	13	-	-	46	23	18
25	1.000	39	43	40	13	39.67	7.2	47	23	18
28	1.125	42	45	43	13	42.88	9.2	50	23	18
30	-	44	45	45	13	44.45	9.2	52	23	18
32	1.250	46	45	48	13	46.02	9.2	54	23	18
33	-	47	45	48	13	46.02	9.2	55	23	18
35	1.375	49	49	50	13	49.20	9.2	57	23	18
38	1.500	54	53	56	13	52.37	9.2	64	25	20
40	-	56	55	58	13	53.98	9.2	66	25	20
42	-	58	55	61	13	55.58	9.2	69	25	20
43	1.625	59	55	61	13	55.58	9.2	69	25	20
45	1.750	61	55	63	13	58.72	9.2	71	25	20
48	1.875	64	55	66	13	63.50	9.2	74	25	20
50	2.000	66	60	70	13	65.07	9.2	76	25	20
53	2.125	69	61	73	13	66.68	9.2	79	25	20
55	-	71	61	75	13	69.85	9.2	81	25	20

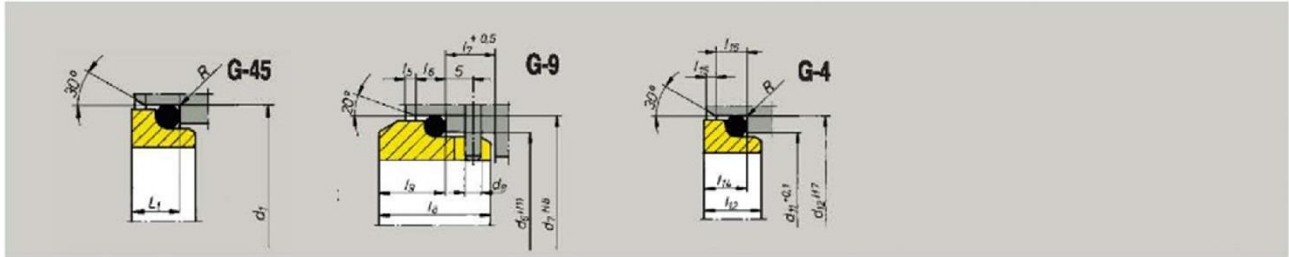
MS - 250		LS7		LS9		PS2				
d	d (in)	D	L	D1	L1	D2	L2	D3	L3	L4
58	2.250	76	63	78	16	73.03	9.2	89	28	22
60	2.375	78	63	80	16	76.20	9.2	91	28	22
63	2.500	81	63	84	16	79.38	9.2	94	28	22
65	-	84	67	85	16	80.98	9.2	96	28	22
-	2.625	86	67	-	-	-	-	-	-	-
68	-	87	67	90	16	82.55	9.2	99	30	24
70	2.750	90	68	92	16	85.73	9.2	101	30	24
-	2.875	93	72	-	-	-	-	-	-	-
75	3.000	95	72	97	16	90.47	9.2	110	30	24
80	3.125	100	72	105	16	98.43	9.2	115	31	25
-	3.250	103	77	-	-	-	-	-	-	-
85	3.375	107	77	110	16	104.77	9.2	120	31	25
90	3.500	112	77	115	16	109.52	9.2	125	31	25
-	3.625	114	77	-	-	-	-	-	-	-
95	3.750	119	82	120	16	114.30	9.2	130	31	25
-	3.875	120	82	-	-	-	-	-	-	-
100	4.000	124	82	125	16	119.07	9.2	135	31	25



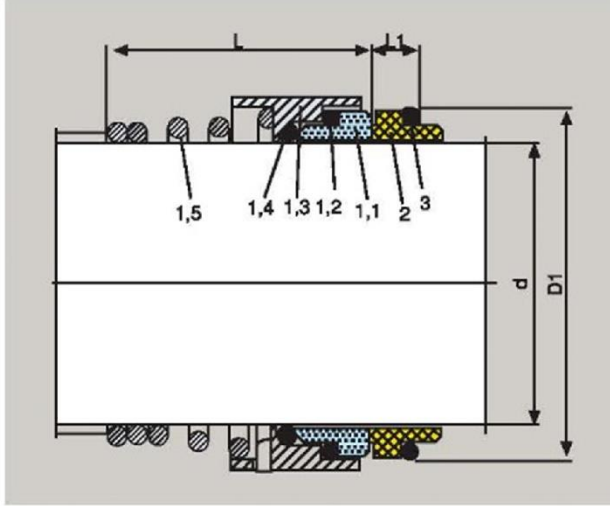
Parça Tanımlama	Teknik Özellikleri	Çalışma Limitleri	Malzemeler
▶ 1,1-Döner Eleman	▶ Tekli Salmastra	▶ $d_1 = 6 - 110\text{mm}$	▶ Döner Eleman Yüzey Seçenekleri: Krom-Nikel 316 ti,Silisyumkarbür, Tungstenkarbür
▶ 1,2-Döner Eleman O-Ringi	▶ Balanssız	▶ $p = 10\text{ bar}$	▶ Sabit Eleman Yüzey Seçenekleri: Karbon, Silisyumkarbür, Tungstenkarbür
▶ 1,3-Yay	▶ Dönme Yönüne Bağımlı	▶ $t = -50 / 220\text{ }^\circ\text{C}$	▶ Elastomerler : Viton (FKM), EPDM, Nitril (NBR), Silikon
▶ 2-Sabit Eleman		▶ $V_g = 20\text{ m/sn}$	
▶ 3-Sabit Eleman O-Ringi			

Sabit Eleman Seçenekleri

▶ G-45 G-9 G-4



d	D	D1	L	L1	d	D	D1	L	L1
6	12	13.1	15	4.5	33	47	53.5	39	11.5
8	16	17.1	15	5.5	35	49	53.5	39	11.5
10	20	18.1	15	5.5	38	54	60.5	39	11.5
12	22	20.6	18	5.5	40	56	60.5	39	11.5
14	24	23.1	22	6.0	42	57	60.5	39	11.5
15	24	26.9	22	7.0	45	61	65.5	41	11.5
16	26	26.9	23	7.0	48	64	65.5	41	11.5
17	26	26.9	23	7.0	50	66	72.5	45	11.5
18	32	30.9	24	8.0	55	71	72.5	47	11.5
19	32	30.9	25	8.0	60	80	79.3	49	11.5
20	34	30.9	25	8.0	65	85	84.5	51	11.5
22	36	35.4	25	8.0	70	90	89.5	51	11.5
24	38	35.4	27	8.0	75	99	94.5	57	11.5
25	39	38.2	27	8.5	80	104	99.5	59	11.5
26	39	38.2	27	8.5	85	109	105.5	59	13.5
28	42	43.3	29	9.0	90	114	111.5	62	13.5
30	44	43.3	30	9.0	95	119	116.5	62	13.5
32	46	43.3	30	9.0	100	124	119.5	75	13.5
					110	143	132.2	75	17.5


Parça Tanımlama

- ▶ 1,1-Döner Eleman Yüzeyi
- ▶ 1,2-Döner Eleman O-Ringi
- ▶ 1,3-Döner Eleman Kovanı
- ▶ 1,4-O-Ring
- ▶ 1,5-Yay
- ▶ 2-Sabit Eleman
- ▶ 3-Sabit Eleman O-Ringi

Teknik Özellikleri

- ▶ Tekli Salmastra
- ▶ Balanssız
- ▶ Dönme Yönüne Bağımlı

Çalışma Limitleri

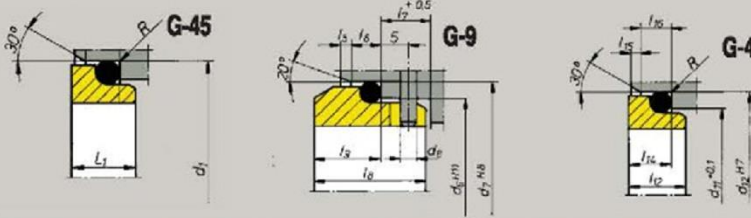
- ▶ $d_1 = 14 - 150\text{mm}$
- ▶ $p = 10\text{ bar}$
- ▶ $t = -50 / 220\text{ }^\circ\text{C}$
- ▶ $V_g = 20\text{ m/sn}$

Malzemeler

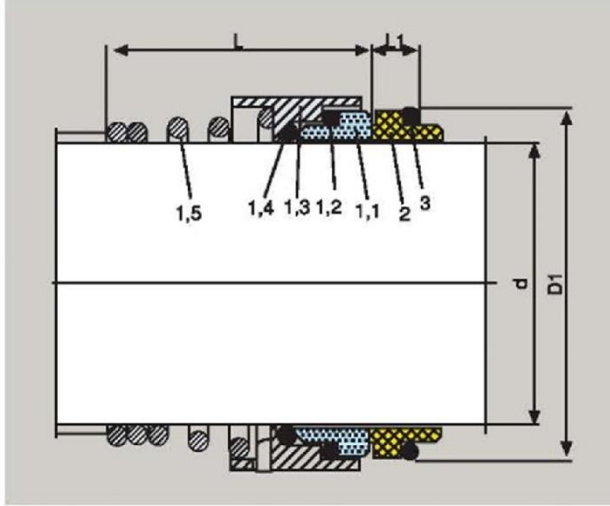
- ▶ Döner Eleman Yüzey Seçenekleri: Karbon, Seramik, Silisyumkarbür, Tungstenkarbür, Krom-Nikel 316 ti
- ▶ Sabit Eleman Yüzey Seçenekleri: Krom-Nikel 316 ti, Seramik, Karbon, Silisyumkarbür, Tungstenkarbür
- ▶ Elastomerler : Viton (FKM), EPDM, Nitril (NBR), Silikon

Sabit Eleman Seçenekleri

- ▶ G-45 G-9 G-4



d	L	D1	L1	d	L	D1	L1
14	27	23,1	6	45	51	65,5	11,5
15	27	26,9	7	48	51	65,5	11,5
16	28	26,9	7	50	55	72,5	11,5
18	30	30,9	8	55	57	72,5	11,5
19	30	30,9	8	60	61	79,3	11,5
20	30	30,9	8	65	63	84,5	11,5
22	30	35,4	8	70	63	89,5	11,5
24	32	35,4	8	75	68	94,5	11,5
25	33	38,2	8,5	80	70	99,5	11,5
28	36	43,3	9	85	72	105,5	13,5
30	37	43,3	9	90	75	111,5	13,5
32	37	43,3	9	95	75	116,5	13,5
33	48	53,5	11,5	100	85	119,5	13,5
35	48	53,5	11,5	110	89	132,2	17,5
38	48	60,5	11,5	120	97	142,2	17,5
40	48	60,5	11,5	130	108	153,2	17,5
42	48	60,5	11,5	140	110	164,3	18,5
43	48	60,5	11,5	150	120	174,2	18,5


Parça Tanımlama

- ▶ 1,1-Döner Eleman Yüzeyi
- ▶ 1,2-Döner Eleman O-Ringi
- ▶ 1,3-Döner Eleman Kovanı
- ▶ 1,4-O-Ring
- ▶ 1,5-Yay
- ▶ 2-Sabit Eleman
- ▶ 3-Sabit Eleman O-Ringi

Teknik Özellikleri

- ▶ Tekli Salmastra
- ▶ Balanssız
- ▶ Dönme Yönüne Bağımlı

Çalışma Limitleri

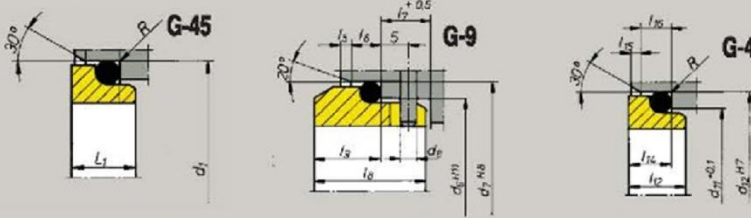
- ▶ $d_1 = 14 - 150\text{mm}$
- ▶ $p = 10\text{ bar}$
- ▶ $t = -50 / 220\text{ }^\circ\text{C}$
- ▶ $V_g = 20\text{ m/sn}$

Malzemeler

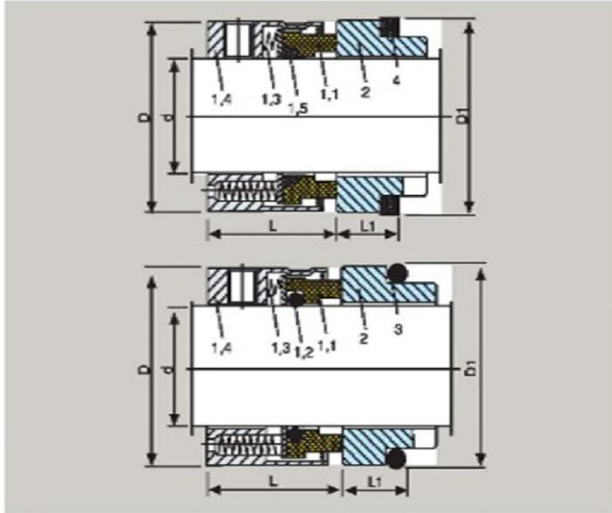
- ▶ Döner Eleman Yüzey Seçenekleri: Karbon, Seramik, Silisyumkarbür, Tungstenkarbür, Krom-Nikel 316 ti
- ▶ Sabit Eleman Yüzey Seçenekleri: Krom-Nikel 316 ti, Seramik, Karbon, Silisyumkarbür, Tungstenkarbür
- ▶ Elastomerler : Viton (FKM), EPDM, Nitril (NBR), Silikon

Sabit Eleman Seçenekleri

- ▶ G-45 G-9 G-4



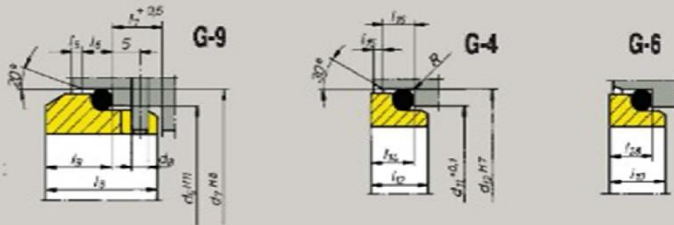
d	L	D1	L1	d	L	D1	L1
14	27	23,1	6	45	51	65,5	11,5
15	27	26,9	7	48	51	65,5	11,5
16	28	26,9	7	50	55	72,5	11,5
18	30	30,9	8	55	57	72,5	11,5
19	30	30,9	8	60	61	79,3	11,5
20	30	30,9	8	65	63	84,5	11,5
22	30	35,4	8	70	63	89,5	11,5
24	32	35,4	8	75	68	94,5	11,5
25	33	38,2	8,5	80	70	99,5	11,5
28	36	43,3	9	85	72	105,5	13,5
30	37	43,3	9	90	75	111,5	13,5
32	37	43,3	9	95	75	116,5	13,5
33	48	53,5	11,5	100	85	119,5	13,5
35	48	53,5	11,5	110	89	132,2	17,5
38	48	60,5	11,5	120	97	142,2	17,5
40	48	60,5	11,5	130	108	153,2	17,5
42	48	60,5	11,5	140	110	164,3	18,5
43	48	60,5	11,5	150	120	174,2	18,5



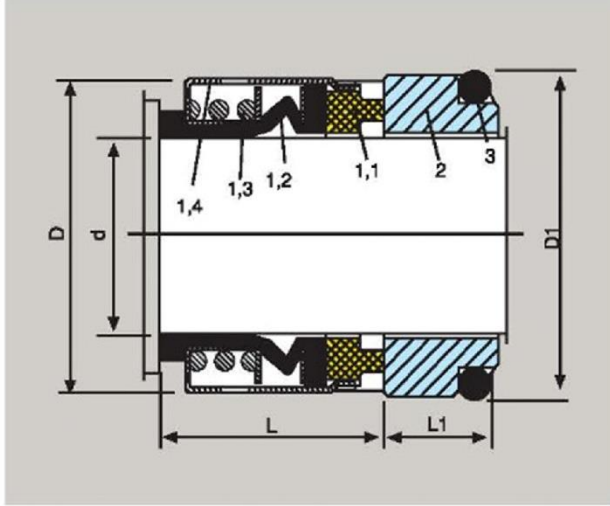
Parça Tanımlama	Teknik Özellikleri	Çalışma Limitleri	Malzemeler
► 1,1-Döner Eleman	► Tekli Salmastra	► $d1 = 14 - 100\text{mm}$	► Döner Eleman Yüzey Seçenekleri: Karbon, Silisyumkarbür,
► 1,2-Döner Eleman O-Ringi	► Balanssız	► $p = 25\text{ bar}$	► Sabit Eleman Yüzey Seçenekleri: Silisyumkarbür, Seramik
► 1,3-Yay	► Çok Yıyılı	► $t = -50 / 220\text{ }^{\circ}\text{C}$	Tungstenkarbür, Krom-Nikel 316 ti
► 1,4- Döner Eleman Kovanı	► Dönme Yönüne Bağımsız	► $t = -35 / 280\text{ }^{\circ}\text{C}$	► Elastomerler : P.T.F.E., Viton (FKM), EPDM, Nitril (NBR), Silikon
► 1,5- P.T.F.E. V-Ring			
2-Sabit Eleman			
3-Sabit Eleman O-Ringi			
4-P.T.F.E. Ring			

Sabit Eleman Seçenekleri

► G-9 G-4 G-6



d	D	D1	L	L1	d	D	D1	L	L1
14	24	25	23.0	12.0	48	64	66	32.0	13.0
16	26	27	23.0	12.0	50	66	70	34.0	13.5
18	32	33	24.0	13.5	53	69	73	34.0	13.5
20	34	35	24.0	13.5	55	71	75	34.0	13.5
22	36	37	24.0	13.5	58	78	78	39.0	13.5
24	38	39	26.7	13.3	60	80	80	39.0	13.5
25	39	40	27.0	13.0	63	83	83	39.0	13.5
28	42	43	30.0	12.5	65	85	85	39.0	13.5
30	44	45	30.5	12.0	68	88	90	39.0	13.5
32	46	48	30.5	12.0	70	90	92	45.5	14.5
33	47	48	30.5	12.0	75	95	97	45.5	14.5
35	49	50	30.5	12.0	80	104	105	45.0	15.0
38	54	56	32.0	13.0	85	109	110	45.0	15.0
40	56	58	32.0	13.0	90	110	115	50.0	15.0
43	59	61	32.0	13.0	95	119	120	50.0	15.0
45	61	63	32.0	13.0	100	124	125	50.0	15.0


Parça Tanımlama

- ▶ 1,1-Döner Eleman Yüzeği
- ▶ 1,2-Körük
- ▶ 1,3-Yay
- ▶ 1,4-Kovan
- ▶ 2-Sabit Eleman
- ▶ 3-Sabit Eleman O-Ringi

Teknik Özellikleri

- ▶ Tekli Salmastra
- ▶ Balanssız
- ▶ Kauçuk Körüklü
- ▶ Dönme Yönüne Bağımsız

Çalışma Limitleri

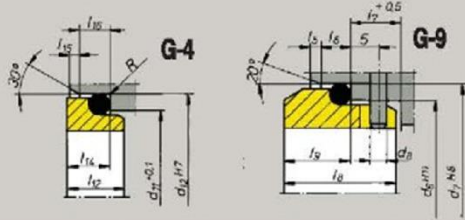
- ▶ $d1 = 14 - 100\text{mm}$
- ▶ $p = 40\text{ bar}$
- ▶ $t = -50 / 220\text{ }^\circ\text{C}$
- ▶ $Vg = 15\text{ m/sn}$

Malzemeler

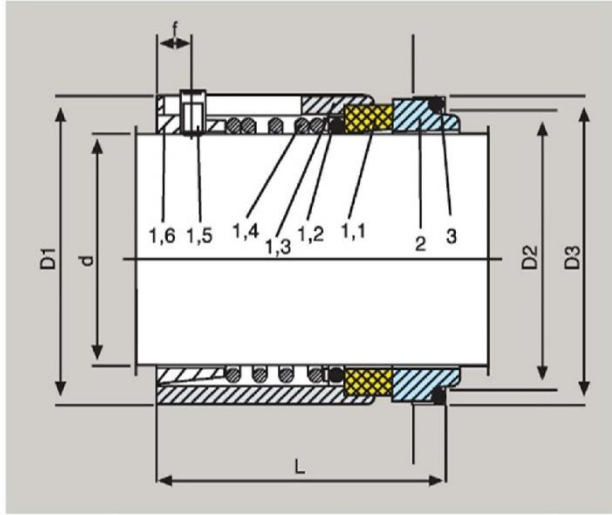
- ▶ Döner Eleman Yüzeği Seçenekleri: Karbon, Silisyumkarbür,
- ▶ Sabit Eleman Yüzeği Seçenekleri: Seramik, Silisyumkarbür, Krom-Nikel 316 ti
- ▶ Elastomerler : Viton (FKM), EPDM,

Sabit Eleman Seçenekleri

- ▶ G-4 G-9



d	D	D1	L	L1	d	D	D1	L	L1
14	24	25	23.0	12.0	48	64	66	32.0	13.0
16	26	27	23.0	12.0	50	66	70	34.0	13.5
18	32	33	24.0	13.5	53	69	73	34.0	13.5
20	34	35	24.0	13.5	55	71	75	34.0	13.5
22	36	37	24.0	13.5	58	78	78	39.0	13.5
24	38	39	26.7	13.5	60	80	80	39.0	13.5
25	39	40	27.0	13.0	63	83	83	39.0	13.5
28	42	43	30.0	12.5	65	85	85	39.0	13.5
30	44	45	30.5	12.0	68	88	90	39.0	13.5
32	46	48	30.5	12.0	70	90	92	45.5	14.5
33	47	48	30.5	12.0	75	95	97	45.5	14.5
35	49	50	30.5	12.0	80	104	105	45.0	15.0
38	54	56	32.0	13.0	85	109	110	45.0	15.0
40	56	58	32.0	13.0	90	110	115	50.0	15.0
43	59	61	32.0	13.0	95	119	120	50.0	15.0
45	61	63	32.0	13.0	100	124	125	50.0	15.0


Parça Tanımlama

- ▶ 1,1-Döner Eleman Yüzeyi
- ▶ 1,2-Döner Eleman O-Ringi
- ▶ 1,3-Döner Eleman Kovanı
- ▶ 1,4-Yay
- ▶ 1,5-Setusukur
- ▶ 1,6-Baskı Bileziği
- ▶ 2-Sabit Eleman
- ▶ 3-Sabit Eleman O-Ringi

Teknik Özellikleri

- ▶ Tekli Salmastra
- ▶ Balanssız
- ▶ Dönme Yönüne Bağımsız

Çalışma Limitleri

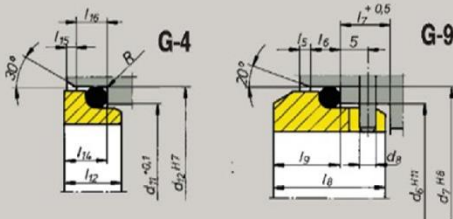
- ▶ $d1 = 18 - 65\text{mm}$
- ▶ $p = 10 \text{ bar}$
- ▶ $t = -20 / 220 \text{ }^\circ\text{C}$
- ▶ $Vg = 20 \text{ m/sn}$

Malzemeler

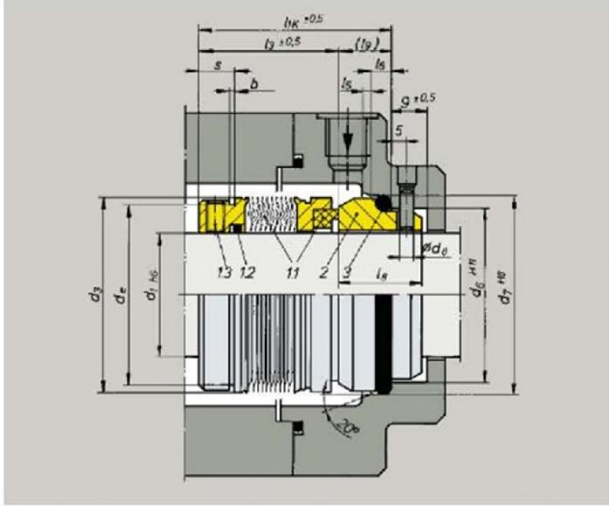
- ▶ Döner Eleman Yüzey Seçenekleri: Karbon,
- ▶ Sabit Eleman Yüzey Seçenekleri: Krom-Nikel 316 ti, Silisyumkarbür, Seramik, Tungstenkarbür,
- ▶ Elastomerler : Viton (FKM), EPDM, Nitril (NBR), Silikon

Sabit Eleman Seçenekleri

- ▶ G-4 G-9



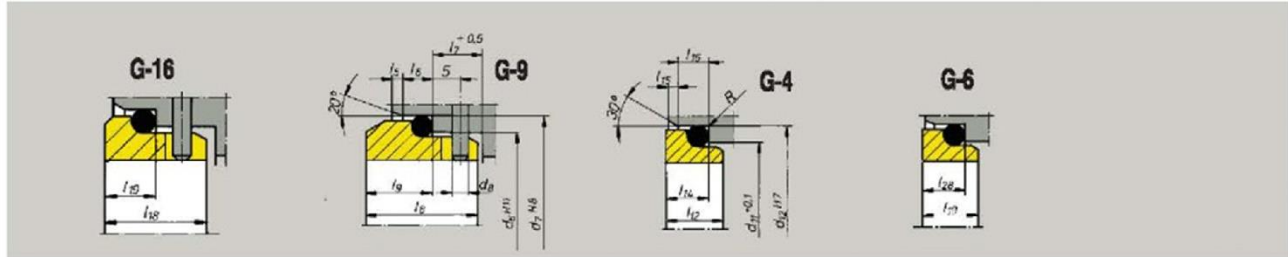
d	D1	L	F	D2	D3	d	D1	L	F	D2	D3
18	36	43	6.0	24.0	30.0	40	62	55,3	7,5	52,2	58.0
20	38	43	6.0	29,5	35.0	42	64	62,3	7,5	53,3	62.0
22	40	43	6.0	29,5	35.0	45	67	62,3	8.0	55,3	64.0
24	42	43	6.0	32.0	38.0	48	69	65,3	8.0	59,7	68,4
25	43	43	6.0	32.0	38.0	50	72	69,3	8.0	60,8	69,3
28	46	45	7.0	36.0	42.0	55	77	70,3	8.0	66,5	75,4
30	48	47	7.0	39,2	45.0	58	80	72,3	8.0	69,5	78,4
32	50	49	7,5	42,2	48.0	60	82	74,3	8.0	71,5	80,4
35	53	49,5	7,5	46,2	52.0	65	90	76,3	9.0	76,5	85,4
38	59	55,3	7,5	49,2	55.0						



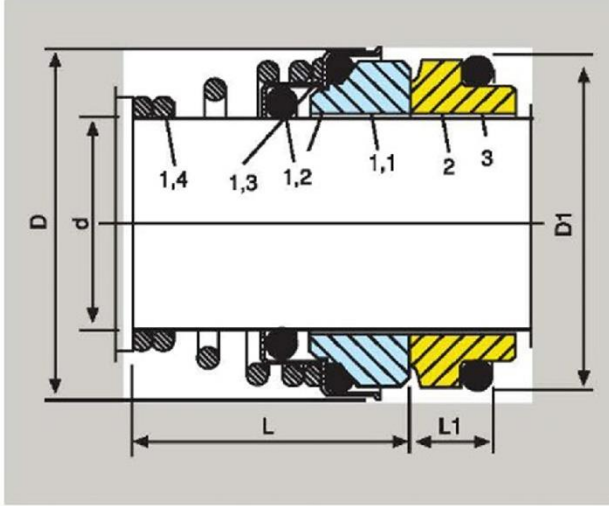
Parça Tanımlama	Teknik Özellikler	Çalışma Limitleri	Malzemeler
▶ 1,1-Döner Eleman Yüzeyi Metal Körük	▶ Tekli Salmastra	▶ $d_1 = 16 - 100\text{mm}$	▶ Döner Eleman Yüzey Seçenekleri: Karbon, Silisyumkarbür, Tungstenkarbür
▶ 1,2-Döner Eleman O-Ringi	▶ Balanslı	▶ $p = 25\text{ bar}$	▶ Sabit Eleman Yüzey Seçenekleri: Silisyumkarbür, Krom-Nikel 316 tl, Tungstenkarbür, Seramik
▶ 1,3-Setusukur	▶ Metal Körüklü	▶ $t = -40 / 220\text{ }^\circ\text{C}$	▶ Elastomerler : Viton (FKM), EPDM,
▶ 2-Sabit Eleman	▶ Dönme Yönüne Bağımsız	▶ $V_g = 20\text{ m/sn}$	
▶ 3-Sabit Eleman O-Ringi			

Sabit Eleman Seçenekleri

- ▶ G-16 G-9 G-4 G-6



d_1	d_3	d_5	d_7	d_8	d_6	d_s	l_{1K}	l_3	l_5	l_6	l_8	l_9	l_{18}	l_{19}	b	s	d_1	d_3	d_5	d_7	d_8	d_6	d_s	l_{1K}	l_3	l_5	l_6	l_8	l_9	l_{18}	l_{19}	b	s
16	30.0	23	27	3	25.0	38	42.5 ¹⁾	32.5	1.5	4	17.5	10.0	-	-	1.6	9.0	50	65.0	62	70	4	60.5	74	47.5	32.5	2.5	6	23.0	15.0	17.0	9.5	1.6	10.5
18	32.0	27	33	3	28.0	39	37.5	30.5	2.0	5	14.0	11.5	15.0	7.0	1.6	10.0	53	68.2	65	73	4	64.0	77	47.5	32.5	2.5	6	23.0	15.0	17.0	9.5	1.6	10.5
20	33.5	29	35	3	29.5	41	37.5	30.5	2.0	5	14.0	11.5	15.0	7.0	1.6	10.0	55	70.0	67	75	4	65.5	80	47.5	32.5	2.5	6	23.0	15.0	17.0	9.5	1.6	10.0
22	36.5	31	37	3	32.0	44	37.5	30.5	2.0	5	14.0	11.5	15.0	7.0	1.6	10.0	58	71.7	70	78	4	67.0	83	52.5	37.5	2.5	6	23.0	15.0	18.0	10.5	3.0	14.0
24	39.0	33	39	3	34.5	47	40.0	28.5	2.0	5	19.5	11.5	15.0	7.0	1.6	8.2	60	74.6	72	80	4	69.5	85	52.5	37.5	2.5	6	23.0	15.0	18.0	10.5	3.0	14.0
25	39.6	34	40	3	35.5	48	40.0	28.5	2.0	5	19.5	11.5	15.0	7.0	1.6	8.5	63	79.0	75	83	4	72.5	88	52.5	37.5	2.5	6	23.0	15.0	18.0	10.5	3.0	14.0
28	42.8	37	43	3	38.5	51	42.5	31.0	2.0	5	19.5	11.5	15.0	7.0	1.6	9.0	65	84.1	77	85	4	78.0	95	52.5	37.5	2.5	6	23.0	15.0	18.0	10.5	3.0	14.0
30	45.0	39	45	3	40.5	53	42.5	31.0	2.0	5	19.5	11.5	15.0	7.0	1.6	8.5	68	87.3	81	90	4	82.0	98	52.5	34.5	2.5	7	26.0	18.0	18.5	11.0	1.6	10.0
32	46.0	42	48	3	42.0	55	42.5	31.0	2.0	5	19.5	11.5	15.0	7.0	1.6	9.2	70	87.3	83	92	4	81.0	96	60.0	42.0	2.5	7	26.0	18.0	19.0	11.5	3.0	17.0
33	48.0	42	48	3	43.0	56	42.5	31.0	2.0	5	19.5	11.5	15.0	7.0	1.6	9.2	75	95.0	88	97	4	87.0	104	60.0	42.0	2.5	7	26.0	18.0	19.0	11.5	3.0	16.0
35	49.2	44	50	3	45.5	58	42.5	31.0	2.0	5	19.5	11.5	15.0	7.0	1.6	9.5	80	98.4	95	105	4	91.0	109	60.0	41.8	3.0	7	26.2	18.2	19.0	11.5	3.0	16.0
38	52.3	49	56	4	48.0	61	45.0	31.0	2.0	6	22.0	14.0	16.0	8.0	1.6	9.2	85	104.7	100	110	4	96.0	114	60.0	41.8	3.0	7	26.2	18.2	19.0	11.5	3.0	16.0
40	55.5	51	58	4	50.0	64	45.0	31.0	2.0	6	22.0	14.0	16.0	8.0	1.6	9.2	90	111.0	105	115	4	103.0	119	65.0	46.8	3.0	7	26.2	18.2	20.5	13.0	3.0	21.0
43	57.5	54	61	4	53.0	67	45.0	31.0	2.0	6	22.0	14.0	16.0	8.0	1.6	9.2	95	114.0	110	120	4	106.0	124	65.0	47.8	3.0	7	25.2	17.2	20.5	13.0	3.0	21.0
45	58.7	56	63	4	55.0	69	45.0	31.0	2.0	6	22.0	14.0	16.0	8.0	1.6	9.5	100	117.4	115	125	4	111.0	129	65.0	47.8	3.0	7	25.2	17.2	20.5	13.0	3.0	20.0
48	61.9	59	66	4	58.0	72	45.0	31.0	2.0	6	22.0	14.0	16.0	8.0	1.6	9.2																	


Parça Tanımlama

- ▶ 1,1-Döner Eleman Yüzeyi
- ▶ 1,2-Döner Eleman O-Ringi
- ▶ 1,3-Döner Eleman Kovanı
- ▶ 1,4-Yay
- ▶ 2-Sabit Eleman
- ▶ 3-Sabit Eleman O-Ringi

Teknik Özellikleri

- ▶ Tekli Salmastra
- ▶ Balanssız
- ▶ Dönme Yönüne Bağımlı

Çalışma Limitleri

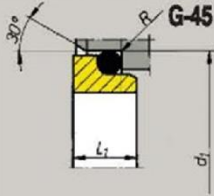
- ▶ $d1 = 10 - 40\text{mm}$
- ▶ $p = 10 \text{ bar}$
- ▶ $t = -20 / 220 \text{ }^\circ\text{C}$
- ▶ $Vg = 20 \text{ m/sn}$

Malzemeler

- ▶ Döner Eleman Yüzey Seçenekleri: Seramik, Silisyumkarbür,
- ▶ Sabit Eleman Yüzey Seçenekleri: Karbon, Silisyumkarbür,
- ▶ Elastomerler : Viton (FKM), EPDM, Nitril (NBR),

Sabit Eleman Seçenekleri

- ▶ G-45



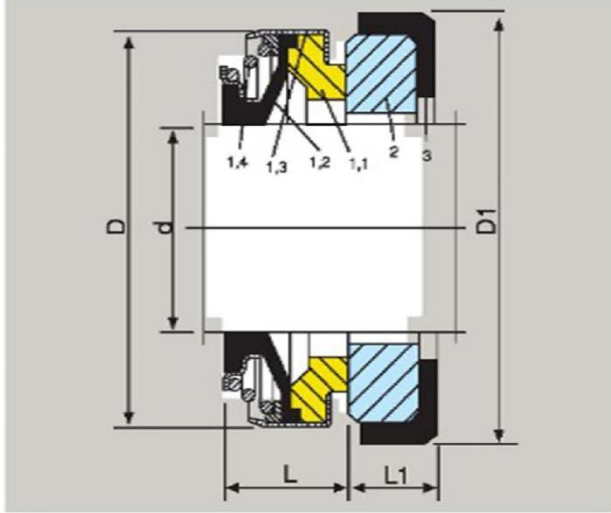
d	D	D1	L	L1	d	D	D1	L	L1
10	20	18.1	15	5.5	20	33	30.9	25	8.0
11	22	20.6	18	5.5	22	38	35.4	25	8.0
12	22	20.6	18	5.5	24	38	35.4	27	8.0
13	25	23.1	22	6.0	25	40	38.2	27	8.5
14	25	23.1	22	6.0	28	46	43.3	29	9.0
15	29	26.9	22	7.0	30	46	43.3	30	9.0
16	29	26.9	23	7.0	32	46	43.3	30	9.0
17	29	26.9	23	7.0	35	50	53.5	39	11.5
18	33	30.9	24	8.0	38	55	60.5	39	11.5
19	33	30.9	25	8.0	40	55	60.5	39	11.5

MSG / 9



- (Operating Conditions)
 (Temperature) :-20°C to +120°C
 (Pressure): <1.0MPa
 (Speed): <10m/s
- (Materials)
 (Stationary Ring): V1,Q1,Q2,U2
 (Rotary Ring): B,A,Q1,Q2,U2
 (Secondary Seal): V,P,E
 (Spring and Metal Parts):F,G
 (Seat Types)
 (Standard): (Metric): L01,L03
 (Inch): L04
- Applications : Clean water, sewage water,
 oil and other Weakly corrosive fluids.

Size (Metric)	d	D3	D6	D7	L3	L32	L33	L34	L4
10	10	21	17	21	44.0	33.4	25.9	25.0	6.6
12	12	23	19	23	44.0	33.4	25.9	25.0	6.6
14	14	26.8	21	25	44.0	33.4	28.4	25.0	6.6
15	15	26.8	—	—	44.0	—	—	25.0	—
16	16	27.8	23	27	44.0	33.4	28.4	25.0	6.6
18	18	29.3	27	33	44.0	37.5	30.0	25.0	7.5
20	20	31.5	29	35	44.0	37.5	30.0	25.0	7.5
22	22	33.5	31	37	44.0	37.5	30.0	25.0	7.5
24	24	39	33	39	44.0	42.5	32.5	25.0	7.5
25	25	39	34	40	44.0	42.5	32.5	25.0	7.5
28	28	42.2	37	43	60.0	42.5	35.0	33.0	7.5
30	30	44.2	39	45	60.0	42.5	35.0	33.0	7.5
32	32	45.7	42	48	60.0	47.5	35.0	33.0	7.5
33	33	48.7	42	48	60.0	47.5	35.0	33.0	7.5
35	35	48.7	44	50	60.0	47.5	35.0	33.0	7.5
38	38	53.7	49	56	60.0	46.0	36.0	33.0	9.0
40	40	56.1	51	58	60.0	46.0	36.0	33.0	9.0
43	43	60.6	54	61	71.0	51.0	36.0	41.0	9.0
45	45	60.6	56	63	71.0	51.0	36.0	41.0	9.0
48	48	65.6	59	66	71.0	51.0	36.0	41.0	9.0
50	50	65.6	62	70	72.5	50.5	38.0	42.5	9.5
53	53	70.6	65	73	71.0	59.0	36.5	41.0	11.0
55	55	70.6	67	75	71.0	59.0	36.5	41.0	11.0
58	58	79.6	70	78	71.0	59.0	41.5	41.0	11.0
60	60	79.6	72	80	71.0	59.0	41.5	41.0	11.0
63	63	82.0	75	83	—	59.0	41.5	—	11.0
65	65	84.1	77	85	70.0	69.0	41.5	49.0	11.0
68	68	87.0	81	90	70.0	68.7	41.2	49.0	11.3
70	70	89.6	83	92	70.0	68.7	48.7	49.0	11.3
75	75	95.1	88	97	73.0	68.7	48.7	52.0	11.3
80	80	103.1	95	105	79.0	78.0	48.0	56.0	12.0
85	85	—	100	110	79.0	76.0	46.0	56.0	14.0
90	90	111.5	105	115	83.0	76.0	51.0	59.0	14.0
95	95	—	110	120	83.0	76.0	51.0	59.0	14.0
100	100	122.5	115	125	86.0	76.0	51.0	62.0	14.0

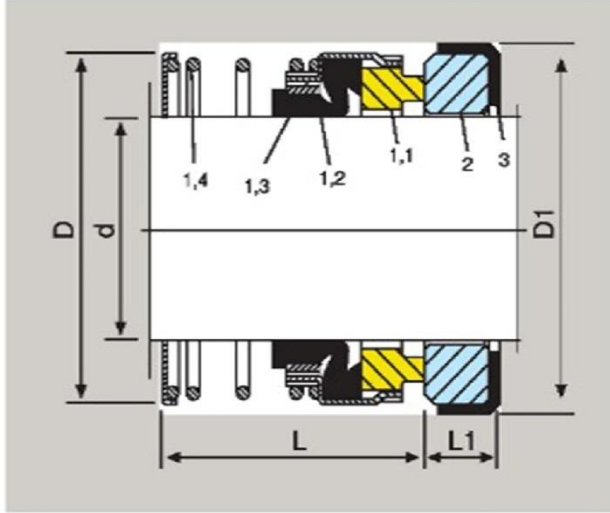


Parça Tanımlama	Teknik Özellikleri	Çalışma Limitleri	Malzemeler
▶ 1,1-Döner Eleman Yüzeği	▶ Tekli Salmastra	▶ $d_1 = 6 - 70\text{mm}$	▶ Döner Eleman Yüzeği Seçenekleri:
▶ 1,2-Elastomer Körük	▶ Balanssız	▶ $p = 6\text{ bar}$	Karbon, Silisyumkarbür,
▶ 1,3-Döner Eleman Kovanı	▶ Kauçuk Körüklü	▶ $t = -20 / 220\text{ }^\circ\text{C}$	Tungstenkarbür
▶ 1,4-Yay	▶ Dönme Yönüne	▶ $V_g = 10\text{ m}^3/\text{sn}$	▶ Sabit Eleman Yüzeği Seçenekleri:
▶ 2-Sabit Eleman	▶ Bağımsız		Seramik, Silisyumkarbür,
▶ 3-Sabit Eleman L-Ringi			Tungstenkarbür
			▶ Elastomerler : Viton (FKM), EPDM,
			Nitril (NBR),

Sabit Eleman Seçenekleri
▶ STANDART ÖLÇÜLERİNDE

★ STANDART ÖLÇÜLERİNDE

d	D	D1	L	L1	d	D	D1	L	L1
6	18	22.0	8	4	17	39	42.0	13	8
8a	20	26.0	11	4	18	39	42.0	13	8
8b	20	22.0	11	4	19	39	42.0	13	8
8c	24	26.0	11	8	20a	39	42.0	13	8
9	24	26.0	11	8	20b	42	45.0	13	10
10	24	26.0	11	8	22	42	45.0	13	10
11	24	26.0	11	8	23	47	50.0	14	10
12a	24	26.0	11	8	24	47	50.0	14	10
12b	24	26.0	13	8	25a	42	50.0	14	10
12c	32	35.0	13	8	25b	47	50.0	14	10
13	24	26.0	13	8	26	47	50.0	14	10
14a	28	25.0	13	7	28	54	57.0	15	10
14b	28	28.5	13	8	30	54	57.0	15	10
14c	32	29.5	13	8	32	54	57.0	15	10
14d	32	35.0	13	8	35	60	63.0	16	10
15a	32	29.5	13	8	38	65	68.0	18	12
15b	32	38.0	13	8	40	65	68.0	18	12
15c	35	38.0	13	8	45	70	73.0	20	12
16a	32	29.5	13	8	50	85	88.0	23	15
16b	35	38.0	13	8	55	85	88.0	23	15
16c	39	38.0	13	8	60	105	110.0	30	15
16d	39	42.0	13	8	70	105	110.0	32	15



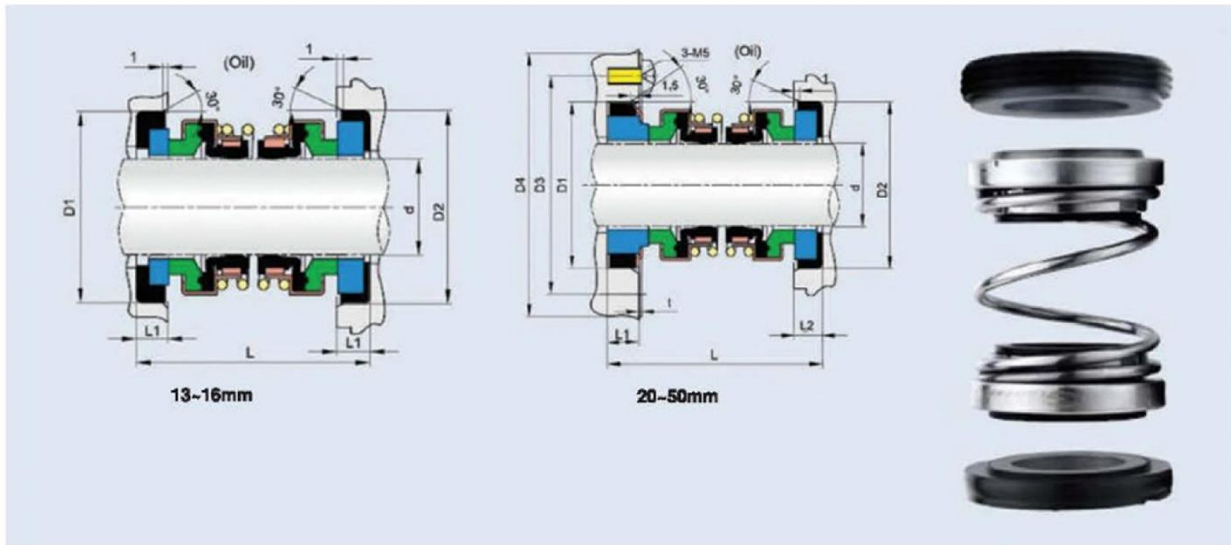
Parça Tanımlama	Teknik Özellikleri	Çalışma Limitleri	Malzemeler
▶ 1,1-Döner Eleman Yüzeyi	▶ Tekli Salmastra	▶ $d1 = 12 - 85\text{mm}$	▶ Döner Eleman Yüzey Seçenekleri: Karbon, Silisyumkarbür,
▶ 1,2-Kauçuk Kırık	▶ Balanssız	▶ $p = 16 \text{ bar}$	▶ Sabit Eleman Yüzey Seçenekleri: Seramik, Silisyumkarbür,
▶ 1,3-Döner Eleman Kovanı	▶ Kauçuk Kırıklı	▶ $t = -35 / 220 \text{ }^\circ\text{C}$	▶ Elastomerler : Viton (FKM), EPDM,
▶ 1,4-Yay	▶ Dönme Yönüne Bağımsız	▶ $Vg = 16 \text{ m}^3/\text{sn}$	▶ Nitril (NBR),
▶ 2-Sabit Eleman			
▶ 3-Sabit Eleman L-Ringi			

Sabit Eleman Seçenekleri

▶ G-55 G-50 G-60



d	D	D1	L	L1	d	D	D1	L	L1
12	21.7	23.0	23.9	8.6	40	55.8	58.0	34.0	11.0
14	23.9	25.0	26.4	8.6	43	58.8	61.0	34.0	11.0
16	26.7	27.0	26.4	8.6	45	61.0	63.0	34.0	11.0
18	30.4	33.0	27.5	10.0	48	64.0	66.0	34.0	11.0
20	33.4	35.0	27.5	10.0	50	66.0	70.0	34.5	13.0
22	33.4	37.0	27.5	10.0	55	71.7	75.0	34.5	13.0
24	38.0	39.0	30.0	10.0	58	78.4	78.0	39.5	13.0
25	39.3	40.0	30.0	10.0	60	78.4	80.0	39.5	13.0
28	42.0	43.0	32.5	10.0	63	81.5	83.0	39.5	13.0
30	44.0	45.0	32.5	10.0	65	84.3	85.0	39.5	13.0
32	45.8	48.0	32.5	10.0	68	89.7	90.0	37.2	15.3
33	45.8	48.0	32.5	10.0	70	89.7	92.0	37.2	15.3
35	49.0	50.0	34.0	11.0	75	96.8	97.0	44.7	15.3
38	52.8	56.0	34.0	11.0	80	104.0	105.0	44.3	15.7
					85	109.0	110.0	44.3	15.7

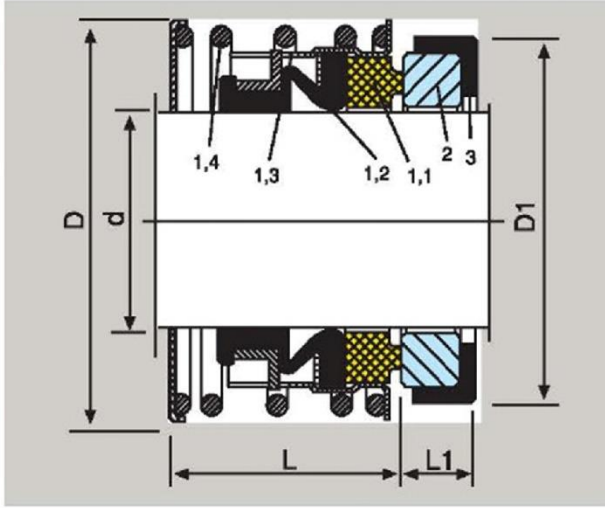


- (Operating Conditions)
(Temperature) : <math><80^{\circ}\text{C}</math>
(Pressure): <math><0.5\text{MPa}</math>
(Speed): <math><10\text{m/s}</math>

- (Materials)
(Stationary Ring): Q1,Q2,U2
(Atmosphere side Rotary Ring): B
(Rotary Ring): Q1,Q2,U2
(Atmosphere side Rotary Ring): B
(Secondary Seal): P
(Spring and Metal Parts):F

- Applications : Clean water, sewage water, oil and other weakly Corrosive fluids.

Size (Metric)	d	D1	D2	D3	D4	L	L1	L2	t
13	13	25	25	—	—	36	5	—	—
14	14	30	30	—	—	36	5	—	—
15	15	30	30	—	—	36	5	—	—
16	16	30	30	—	—	36	5	—	—
20	20	44	38	60	72	49	7	7	1
25	25	50	44	60	72	51	7	7	1
30	30	57	54/44	70	82	59	9	8	1
35	35	64/57	58/54	80	94	61	9	9	1.2
40	40	70	64/68	85	100	64.5	11	9	1.2
45	45	70	66/68	90	105	65	10	9	1.2
50	50	80	72	95	109	69.5	10	9	1.2

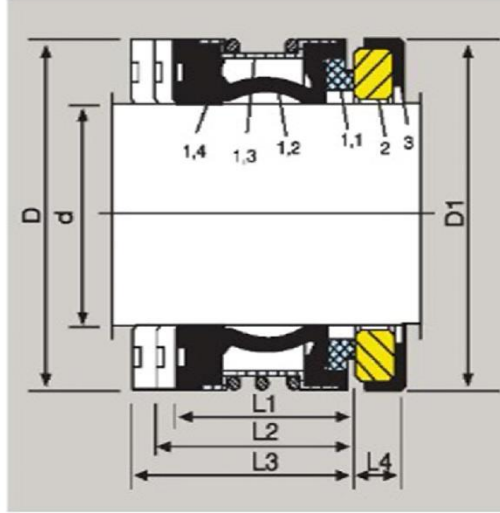


Parça Tanımlama	Teknik Özellikler	Çalışma Limitleri	Malzemeler
▶ 1,1-Döner Eleman Yüzeyi	▶ Tekli Salmastra	▶ $d1 = 16 - 120\text{mm}$	▶ Döner Eleman Yüzey Seçenekleri:
▶ 1,2-Kauçuk Körük	▶ Balanssız	▶ $d1 = 5/8" - 3 1/4"$	Karbon, Silisyumkarbür,
▶ 1,3-Döner Eleman Kovanı	▶ Kauçuk Körüklü	▶ $p = 16 \text{ bar}$	Tungstenkarbür
▶ 1,4-Yay	▶ Dönme Yönüne	▶ $t = -35 / 220 \text{ }^\circ\text{C}$	▶ Sabit Eleman Yüzey Seçenekleri:
▶ 2-Sabit Eleman	▶ Bağımsız	▶ $Vg = 20 \text{ m/sn}$	Seramik, Silisyumkarbür,
▶ 3-Sabit Eleman L-Ringi			Tungstenkarbür
			▶ Elastomerler : Viton (FKM), EPDM,
			Nitril (NBR),

Sabit Eleman Seçenekleri
▶ STANDART ÖLÇÜLERİNDE

★ STANDART ÖLÇÜLERİNDE

d	D	D1	L	L1	d	D	D1	L	L1
16	30	34.0	25	8	0.625	1.312	1.250	0.875	0.406
18	32	36.8	25	8	0.750	1.437	1.275	0.875	0.406
20	34	36.8	25	8	0.875a	1.562	1.437	0.921	0.265
22	36	41.5	25	8	0.875b	1.562	1.500	0.937	0.406
25	39	44.8	26	8	1.000	1.750	1.625	1.062	0.437
28	43	48.5	26	8	1.125	1.875	1.750	1.062	0.437
30	48	52.0	26	8	1.250	2.000	1.875	1.062	0.437
35	53	57.0	30	10	1.375	2.187	2.000	1.125	0.437
40	58	67.0	34	10	1.500	2.312	2.125	1.125	0.437
45	63	73.0	36	10	1.625	2.718	2.375	1.375	0.500
50	68	79.0	42	10	1.750	2.750	2.500	1.375	0.500
55	73	84.0	41	12	1.875	2.875	2.625	1.500	0.500
60	79	90.0	41	12	2.000	3.000	2.750	1.500	0.500
65	86	98.5	49	12	2.125	3.250	3.000	1.687	0.562
70	91	103.5	52	12	2.250	3.375	3.125	1.688	0.562
75	96	110.5	52	12	2.375	3.500	3.250	1.812	0.562
80	105	120.0	56	14	2.500	3.625	3.375	1.812	0.562
85	110	125.0	56	14	2.750	4.000	3.500	1.937	0.625
90	115	132.0	56	14	3.000	4.250	3.875	2.062	0.625
95	120	137.0	56	14	3.250	4.685	4.125	2.062	0.781
100	125	144.0	62	14					
110	135	157.0	62	16					
120	145	169.5	72	16					


Parça Tanımlama

- ▶ 1,1-Döner Eleman Yüzeyi
- ▶ 1,2-Kauçuk Kırık
- ▶ 1,3-Döner Eleman Kovanı
- ▶ 1,4-Yay
- ▶ 2-Sabit Eleman
- ▶ 3-Sabit Eleman L-Ringi

Teknik Özellikleri

- ▶ Tekli Salmastra
- ▶ Balanssız
- ▶ Kauçuk Kırıklı
- ▶ Dönme Yönüne Bağımsız

Çalışma Limitleri

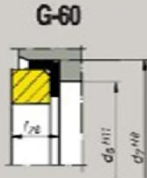
- ▶ $d1 = 10 - 100\text{mm}$
- ▶ $p = 18 \text{ bar}$
- ▶ $t = -40 / 220 \text{ }^\circ\text{C}$
- ▶ $Vg = 15 \text{ m}^3/\text{sn}$

Malzemeler

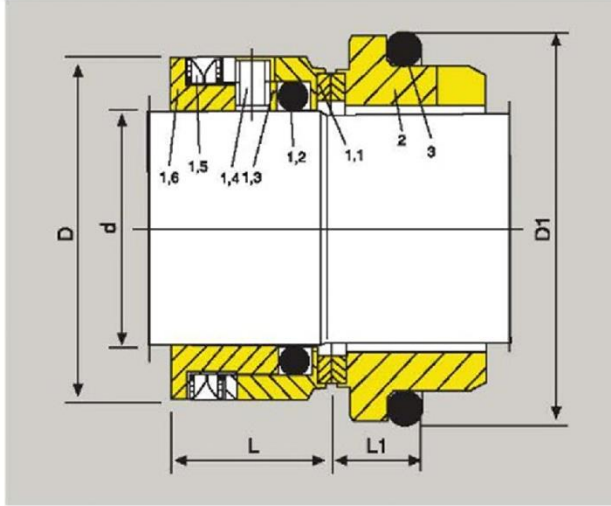
- ▶ Döner Eleman Yüzey Seçenekleri: Karbon, Silisyumkarbür,
- ▶ Sabit Eleman Yüzey Seçenekleri: Seramik, Silisyumkarbür,
- ▶ Elastomerler : Viton (FKM), EPDM, Nitril (NBR),

Sabit Eleman Seçenekleri

- ▶ G-60 G-6



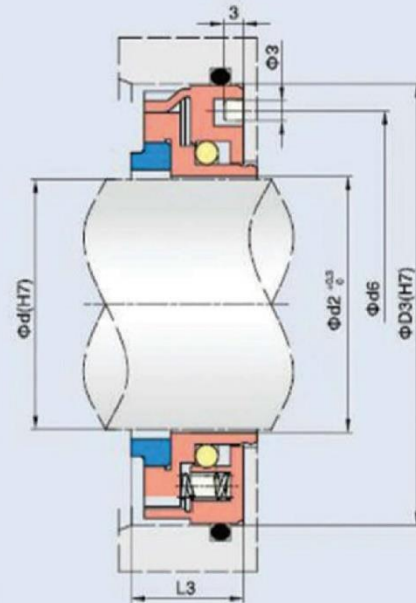
d	D	D1	L1	L2	L3	L4	d	D	D1	L1	L2	L3	L4
10	20	21	15	27.5	35.0	5	45	61	63	30	37.0	52.0	8
12	22	23	15	26.5	34.0	6	48	64	66	30	35.0	50.0	10
14	24	25	15	29.0	34.0	6	50	66	70	30	37.5	50.0	10
15	25	26	15	29.0	34.0	6	53	69	73	30	37.5	60.0	10
16	26	27	15	29.0	34.0	6	55	71	75	30	37.5	60.0	10
18	32	33	20	31.5	39.0	6	58	78	78	33	42.5	60.0	10
20	34	35	20	31.5	39.0	6	60	80	80	33	40.5	58.0	12
22	36	37	20	31.5	39.0	6	63	83	83	33	40.5	58.0	12
24	38	39	20	34.0	44.0	6	65	85	85	33	40.5	68.0	12
25	39	40	20	34.0	44.0	6	68	88	90	33	40.5	68.0	12
28	42	43	26	36.5	44.0	6	70	90	92	33	48.0	68.0	12
30	44	45	26	35.5	43.0	7	75	99	97	40	48.0	68.0	12
32	46	48	26	35.5	48.0	7	80	104	105	40	47.5	77.5	14
33	47	48	26	35.5	48.0	7	85	109	110	40	47.5	77.5	14
35	49	50	26	34.5	47.0	8	90	114	115	40	52.5	77.5	14
38	54	56	30	37.0	47.0	8	95	119	120	40	52.5	77.5	14
40	56	58	30	37.0	47.0	8	100	124	125	40	52.5	77.5	14
43	59	61	30	37.0	52.0	8							



Parça Tanımlama	Teknik Özellikleri	Çalışma Limitleri	Malzemeler
▶ 1,1-Döner Eleman Yüzeyi	▶ Tekli Salmastra	▶ $d1 = 10 - 100\text{mm}$	▶ Döner Eleman Yüzey Seçenekleri:
▶ 1,2-Döner Eleman O-Ringi	▶ Balanslı	▶ $p = 12\text{ bar}$	Karbon, Silisyumkarbür,
▶ 1,3-Döner Eleman Kovanı	▶ Dönme Yönüne	▶ $t = -35 / 220\text{ }^\circ\text{C}$	Tungstenkarbür, Krom-Nikel 316 ti
▶ 1,4-Setusukur	▶ Bağımsız	▶ $Vg = 15\text{ m/sn}$	▶ Sabit Eleman Yüzey Seçenekleri:
▶ 1,5-Yay			Seramik, Silisyumkarbür,
▶ 1,6 Baskı Bileziği			Tungstenkarbür, Krom-Nikel 316 ti
▶ 2-Sabit Eleman			▶ Elastomerler : Viton (FKM), EPDM,
▶ 3-Sabit Eleman L-Ringi			Nitril (NBR),
	Sabit Eleman Seçenekleri		
	▶ STANDART ÖLÇÜLERİNDE		

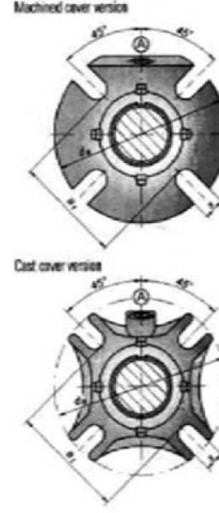
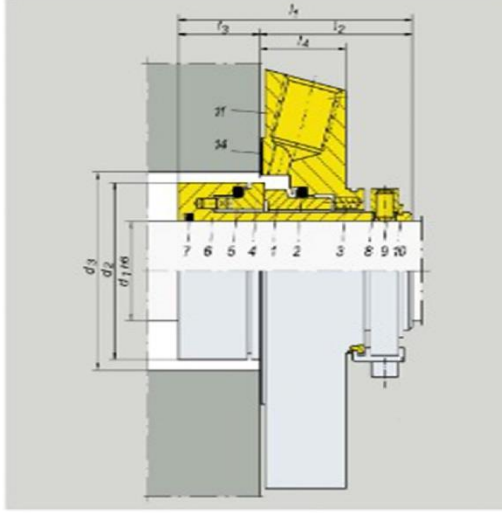
★ STANDART ÖLÇÜLERİNDE

d	D	D1	L	L1	d	D	D1	L	L1
10	21	18.1	18.0	5.5	40	55	60.5	21.1	11.5
12	23	20.6	18.0	5.5	43	60	60.5	21.1	11.5
14	25	23.1	18.0	6.0	45	60	65.5	21.1	11.5
15	26	26.9	19.1	7.0	48	65	65.5	21.1	11.5
16	29	26.9	19.1	7.0	50	65	72.5	21.1	11.5
18	29	30.9	19.1	8.0	55	74	72.5	22.1	11.5
20	32	30.9	19.1	8.0	60	79	79.3	25.8	11.5
22	35	35.4	19.1	8.0	65	87	84.5	25.8	11.5
24	37	35.4	19.1	8.0	70	93	89.5	25.8	11.5
25	41	38.2	19.1	8.5	75	98	94.5	25.8	11.5
28	41	43.3	19.1	9.0	80	104	99.5	25.8	11.5
30	47	43.3	19.1	9.0	85	108	105.5	25.8	13.5
32	47	43.3	19.1	9.0	90	113	111.5	25.8	13.5
33	48	53.5	19.1	11.5	95	118	116.5	25.8	13.5
35	49	53.5	19.1	11.5	100	123	119.5	25.8	13.5
38	53	60.5	21.1	11.5					



- (Operating Conditions)
(Temperature) : -20°C to +150°C
(Pressure): <1,0MPa
(Speed): <15m/s
- (Materials)
(Stationary Ring): A,B
(Secondary Seal): V,P,E
(Spring and Metal Parts):F,G
- Applications :
Clean water, sewage water, oil and other moderately corrosive fluids.

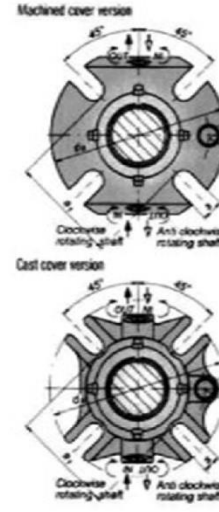
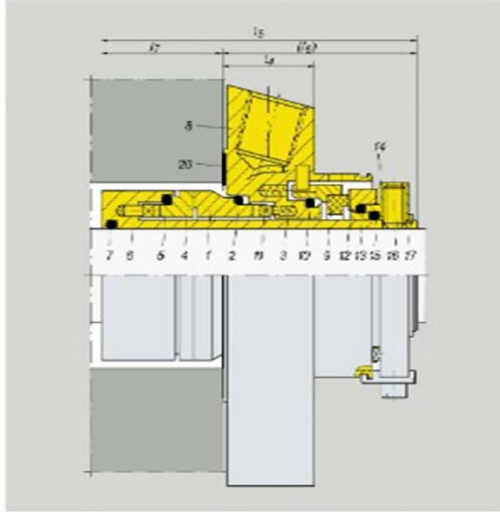
Size (Metric)	d	d2	d6	D3	L3
15	15	16	34	42	17
18	18	19	37	45	17
20	20	21	40	48	17
22	22	23	42	50	17
25	25	26	44	52	17
28	28	29	47	55	17
30	30	31	50	58	17
32	32	33	52	60	17
35	35	36	54	62	17
38	38	39	57	65	17
40	40	41	60	68	17
42	42	43	64	72	17
45	45	46	67	75	17
48	48	49	72	80	17
50	50	51	72	80	17
52	52	53	74	82	17
55	55	56	77	85	17
58	58	59	82	90	17
60	60	61	82	90	17
65	65	66	87	95	19
68	68	69	92	100	19
70	70	71	92	100	19
75	75	76	100	108	19
80	80	81	104	112	19
85	85	86	110	118	19
90	90	91	114	122	19
95	95	96	120	128	19
100	100	101	124	132	19



Parça Tanımlama	Teknik Özellikleri	Çalışma Limitleri	Malzemeler
<ul style="list-style-type: none"> ▶ 1-Sabit Eleman Yüzeyi ▶ 2+5+7-O-Ring ▶ 3-Yay ▶ 4-Döner Eleman Yüzeyi ▶ 6-Salmastra Burç ▶ 8-Baskı Bileziği ▶ 9-Setusukur ▶ 10-Segman ▶ 11-Flanş (Gövde) ▶ 14-Flanş Contası 	<ul style="list-style-type: none"> ▶ Tekli Kartuş Salmastra ▶ Balanslı ▶ Sıvı Soğutmalı ▶ Dönme Yönüne Bağımsız 	<ul style="list-style-type: none"> ▶ $d_1 = 25 - 100\text{mm}$ ▶ $p = 25 \text{ bar}$ ▶ $t = -40 - 220 \text{ }^\circ\text{C}$ ▶ $V_g = 10 \text{ m/sn}$ 	<ul style="list-style-type: none"> ▶ Döner Eleman Yüzey Seçenekleri: Krom-Nikel 316 ti, Silisyumkarbür, Tungstenkarbür, Karbon, Seramik ▶ Sabit Eleman Yüzey Seçenekleri: Karbon, Silisyumkarbür, Seramik, Tungstenkarbür, Krom-Nikel 316 ti, ▶ Elastomerler : Viton (FKM), EPDM, Nitril (NBR)
Sabit Eleman Seçenekleri ▶ STANDART ÖLÇÜLERİNDE			

★ STANDART ÖLÇÜLERİNDE

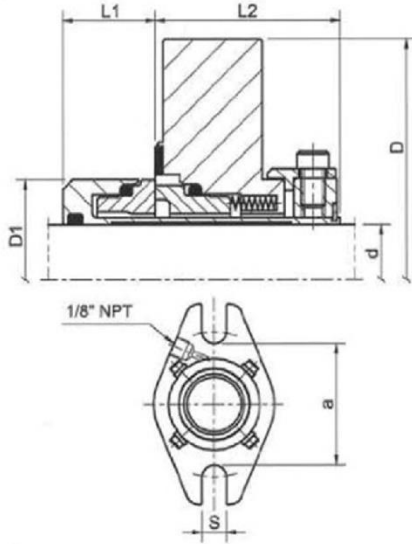
d_1	d_2	$d_{3min.}$	$d_{3max.}$	l_1	l_2	l_3	l_4	l_5	l_6	l_7	l_{12}	l_{13}	l_{14}	l_{15}	l_{16}	l_{17}	a_1	a_2	d_3	s
25	43.0	44.0	51.5	67	42.4	24.6	25.4	83.5	53.4	33.1	35.0	32.0	175	79.5	53.4	26.1	E2	62	105	13.2
28	46.0	47.0	52.0	67	42.4	24.6	25.4	83.5	53.4	33.1	35.0	32.0	175	79.5	53.4	26.1	E2	65	105	13.2
30	48.0	49.0	56.0	67	42.4	24.6	25.4	83.5	53.4	33.1	35.0	32.0	175	79.5	53.4	26.1	E5	67	105	13.2
32	49.8	51.0	57.0	67	42.4	24.6	25.4	83.5	53.4	33.1	35.0	32.0	175	79.5	53.4	26.1	E7	70	108	13.2
33	49.8	51.0	57.0	67	42.4	24.6	25.4	83.5	53.4	33.1	35.0	32.0	175	79.5	53.4	26.1	E7	70	108	13.2
35	53.0	54.0	61.5	67	42.4	24.6	25.4	83.5	53.4	33.1	35.0	32.0	175	79.5	53.4	26.1	E7	70	113	13.2
38	56.0	57.0	66.0	67	42.4	24.6	25.4	83.5	53.4	33.1	35.0	32.0	175	79.5	53.4	26.1	E7	75	123	13.2
40	58.0	59.0	68.0	67	42.4	24.6	25.4	83.5	53.4	33.1	35.0	32.0	175	79.5	53.4	26.1	E7	75	123	14.2
42	60.5	61.5	69.5	67	42.4	24.6	25.4	83.5	53.4	33.1	35.0	32.0	175	79.5	53.4	26.1	E8	80	133	14.2
43	60.5	61.5	70.5	67	42.4	24.6	25.4	83.5	53.4	33.1	35.0	32.0	175	79.5	53.4	26.1	E8	80	133	14.2
45	62.5	64.0	73.0	67	42.4	24.6	25.4	83.5	53.4	33.1	35.0	32.0	175	79.5	53.4	26.1	E8	81	138	14.2
48	65.6	67.0	75.0	67	42.4	24.6	25.4	83.5	53.4	33.1	35.0	32.0	175	79.5	53.4	26.1	E4	85	138	14.2
50	68.0	69.0	78.0	67	42.4	24.6	25.4	83.5	53.4	33.1	35.0	32.0	175	79.5	53.4	26.1	E7	87	148	14.2
53	72.0	73.0	87.0	67	42.4	24.6	25.4	83.5	53.4	33.1	35.0	32.0	175	79.5	53.4	26.1	E7	97	148	18.0
55	73.0	74.0	83.0	67	42.4	24.6	25.4	83.5	53.4	33.1	35.0	32.0	175	79.5	53.4	26.1	E8	92	148	18.0
60	78.0	79.0	91.0	67	42.4	24.6	25.4	83.5	53.4	33.1	35.0	32.0	175	79.5	53.4	26.1	E8	102	157	18.0
65	84.8	85.7	98.5	67	42.4	24.6	25.4	83.5	53.4	33.1	35.0	32.0	175	79.5	53.4	26.1	E8	109	163	18.0
70	93.0	95.0	108.0	67	42.4	24.6	25.4	83.5	53.4	33.1	35.0	32.0	175	79.5	53.4	26.1	E8	118	178	18.0
75	100.0	101.6	118.0	84	57.4	26.6	28.0	109.0	63.9	44.1	46.1	37.9	22.0	-	-	-	E8	129	190	18.0
80	106.4	108.0	124.0	84	57.4	26.6	28.0	109.0	63.9	44.1	46.1	37.9	22.0	-	-	-	E8	135	195	18.0
85	109.5	111.1	128.0	84	57.4	26.6	28.0	109.0	63.9	44.1	46.1	37.9	22.0	-	-	-	E8	139	198	22.0
90	115.9	117.5	135.0	84	57.4	26.6	28.0	109.0	63.9	44.1	46.1	37.9	22.0	-	-	-	E8	145	205	22.0
95	119.1	120.7	138.0	84	57.4	26.6	28.0	109.0	63.9	44.1	46.1	37.9	22.0	-	-	-	E8	148	208	22.0
100	125.4	127.0	144.0	84	57.4	26.6	28.0	109.0	63.9	44.1	46.1	37.9	22.0	-	-	-	E8	154	218	22.0



Parça Tanımlama	Teknik Özellikleri	Çalışma Limitleri	Malzemeler
<ul style="list-style-type: none"> ▶ 1+12-Sabit Eleman Yüzeyi ▶ 2+5+7+10+13+15-O-Ring ▶ 3+11-Yay ▶ 4+9-Döner Eleman Yüzeyi ▶ 6-Salmastra Burç ▶ 8-Flanş (Gövde) ▶ 14-Baskı Bileziği ▶ 16-Setusukur ▶ 17-Segman ▶ 20-Flanş Contası 	<ul style="list-style-type: none"> ▶ Çiftli Kartuş Salmastra ▶ Balanslı ▶ Sıvı Soğutmalı ▶ Dönme Yönüne Bağımsız 	<ul style="list-style-type: none"> ▶ $d_1 = 25 - 100\text{mm}$ ▶ $p = 25\text{ bar}$ ▶ $t = -40 - 220\text{ }^\circ\text{C}$ ▶ $V_g = 10\text{ m}^3/\text{sn}$ 	<ul style="list-style-type: none"> ▶ Döner Eleman Yüzey Seçenekleri: Krom-Nikel 316 ti, Silisyumkarbür, Tungstenkarbür, Karbon, Seramik ▶ Sabit Eleman Yüzey Seçenekleri: Karbon, Silisyumkarbür, Seramik, Tungstenkarbür, Krom-Nikel 316 ti, ▶ Elastomerler : Viton (FKM), EPDM, Nitril (NBR)

Sabit Eleman Seçenekleri
▶ STANDART ÖLÇÜLERİNDE
★ STANDART ÖLÇÜLERİNDE

d_1	d_2	$d_{3min.}$	$d_{3max.}$	l_1	l_2	l_3	l_4	l_5	l_6	l_7	l_{12}	l_{13}	l_{14}	l_{15}	l_{16}	l_{17}	a_1	a_2	d_3	s
25	43.0	44.0	51.5	67	42.4	24.6	25.4	88.5	68.4	38.1	35.0	32.0	17.5	79.5	53.4	26.1	62	62	105	13.2
28	49.0	47.0	52.0	67	42.4	24.6	25.4	88.5	68.4	38.1	35.0	32.0	17.5	79.5	53.4	26.1	62	65	105	13.2
30	49.0	49.0	56.0	67	42.4	24.6	25.4	88.5	68.4	38.1	35.0	32.0	17.5	79.5	53.4	26.1	65	67	105	13.2
32	49.8	51.0	57.0	67	42.4	24.6	25.4	88.5	68.4	38.1	35.0	32.0	17.5	79.5	53.4	26.1	67	70	108	13.2
33	49.8	51.0	57.0	67	42.4	24.6	25.4	88.5	68.4	38.1	35.0	32.0	17.5	79.5	53.4	26.1	67	70	108	13.2
35	53.0	54.0	61.5	67	42.4	24.6	25.4	88.5	68.4	38.1	35.0	32.0	17.5	79.5	53.4	26.1	70	72	113	13.2
38	59.0	57.0	68.0	67	42.4	24.6	25.4	88.5	68.4	38.1	35.0	32.0	17.5	79.5	53.4	26.1	75	75	123	13.2
40	59.0	59.0	68.0	67	42.4	24.6	25.4	88.5	68.4	38.1	35.0	32.0	17.5	79.5	53.4	26.1	75	77	123	14.2
42	60.5	61.5	69.5	67	42.4	24.6	25.4	88.5	68.4	38.1	35.0	32.0	17.5	79.5	53.4	26.1	80	80	133	14.2
43	60.5	61.5	70.5	67	42.4	24.6	25.4	88.5	68.4	38.1	35.0	32.0	17.5	79.5	53.4	26.1	80	80	133	14.2
45	62.5	64.0	73.0	67	42.4	24.6	25.4	88.5	68.4	38.1	35.0	32.0	17.5	79.5	53.4	26.1	81	82	138	14.2
48	65.6	67.0	75.0	67	42.4	24.6	25.4	88.5	68.4	38.1	35.0	32.0	17.5	79.5	53.4	26.1	84	85	138	14.2
50	69.0	69.0	78.0	67	42.4	24.6	25.4	88.5	68.4	38.1	35.0	32.0	17.5	79.5	53.4	26.1	87	87	148	14.2
53	72.0	73.0	87.0	67	42.4	24.6	25.4	88.5	68.4	38.1	35.0	32.0	17.5	79.5	53.4	26.1	97	97	148	18.0
55	73.0	74.0	83.0	67	42.4	24.6	25.4	88.5	68.4	38.1	35.0	32.0	17.5	79.5	53.4	26.1	90	92	148	18.0
60	79.0	79.0	91.0	67	42.4	24.6	25.4	88.5	68.4	38.1	35.0	32.0	17.5	79.5	53.4	26.1	102	102	157	18.0
65	84.8	85.7	98.5	67	42.4	24.6	25.4	88.5	68.4	38.1	35.0	32.0	17.5	79.5	53.4	26.1	109	109	163	18.0
70	93.0	95.0	108.0	67	42.4	24.6	25.4	88.5	68.4	38.1	35.0	32.0	17.5	79.5	53.4	26.1	118	118	178	18.0
75	103.0	101.6	118.0	84	57.4	26.6	28.0	108.0	68.9	44.1	43.1	37.9	22.0	-	-	-	129	129	190	18.0
80	103.4	108.0	124.0	84	57.4	26.6	28.0	108.0	68.9	44.1	43.1	37.9	22.0	-	-	-	135	135	195	18.0
85	103.5	111.1	128.0	84	57.4	26.6	28.0	108.0	68.9	44.1	43.1	37.9	22.0	-	-	-	139	139	198	22.0
90	115.9	117.5	135.0	84	57.4	26.6	28.0	108.0	68.9	44.1	43.1	37.9	22.0	-	-	-	145	145	205	22.0
95	119.1	120.7	138.0	84	57.4	26.6	28.0	108.0	68.9	44.1	43.1	37.9	22.0	-	-	-	148	148	208	22.0
100	125.4	127.0	144.0	84	57.4	26.6	28.0	108.0	68.9	44.1	43.1	37.9	22.0	-	-	-	154	154	218	22.0


Teknik Özellikleri

- ▶ Tekli Kartuş Salmastra
- ▶ Dengeli
- ▶ Sabit çoklu dizayn yaylar
- ▶ Ortamdan izole edilmiş yaylar
- ▶ Döner yüzeyler
- ▶ Talebe bağlı olarak, gaz yolunu/girişleri soğutma özelliği mevcuttur.

Çalışma Limitleri

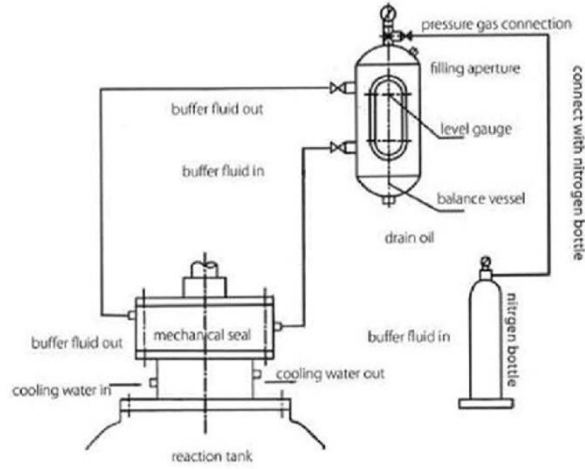
- ▶ $d1 = 24 - 100\text{mm}$,
1.000 - 4.000"
- ▶ $p = 20\text{ bar}$
- ▶ $t = -35 - 160\text{ }^\circ\text{C}$
- ▶ $Vg = 30\text{ m/sn}$

Malzemeler

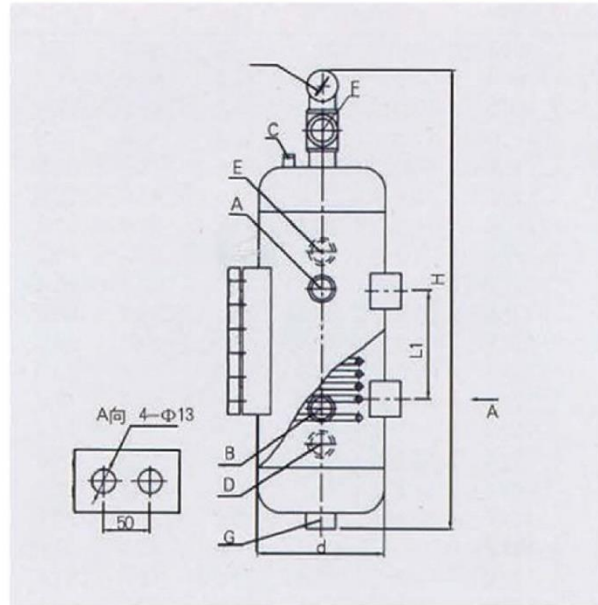
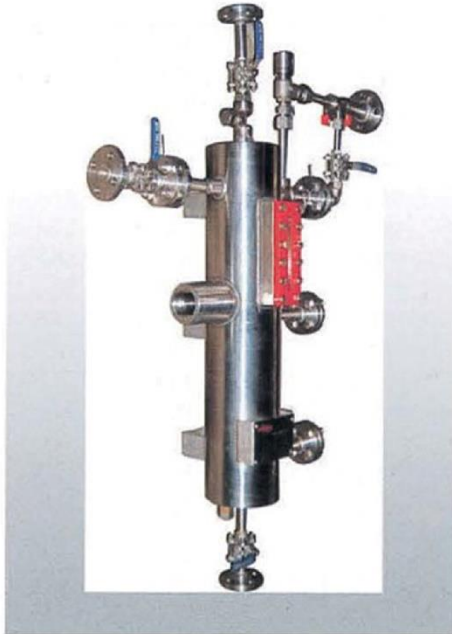
- ▶ Döner Yüzeyler;
Karbon Grafit, Silisyum Karbür,
Tungsten Karbür
- ▶ Sabit Yüzeyler:
Silisyum Karbür, Tungsten Karbür
- ▶ Elastomerler : EPDM, FPM, FEPM, HNBR
- ▶ Yaylar: AISI 316,
- ▶ Diğer Metal Bileşenler; AISI 304,316

★ STANDART ÖLÇÜLERİNDE

d	d (in)	D	D1	L1	L2	a	S
24	-	104	43.5	19	38	62	12.5
25	1.000	104	43.5	19	38	62	12.5
28	1.125	104	46.5	19	38	62	12.5
30	-	104	48.5	19	38	65	12.5
32	1.250	104	50.0	19	38	67	12.5
33	-	104	50.0	19	38	67	12.5
35	1.375	115	53.5	19	38	70	12.5
38	1.500	125	56.5	19	38	75	14.7
40	-	125	58.5	19	38	75	14.7
42	1.625	133	60.5	19	38	80	14.7
43	-	133	61.5	19	38	80	14.7
45	1.750	140	63.5	19	38	81	14.7
48	1.875	140	66.5	19	38	84	14.7
50	2.000	140	68.5	19	38	87	14.7
53	2.125	150	71.5	19	38	90	17.5
55	-	150	73.5	19	38	92	17.5
58	2.250	155	76.6	19	38	95	17.5
60	2.375	160	78.5	19	38	100	17.5
63	2.500	165	81.5	19	38	103	17.5
65	-	165	83.5	19	38	105	17.5
-	2.625	170	85.5	19	38	110	17.5
68	-	170	86.5	19	38	110	17.5
70	2.750	180	88.5	19	38	120	17.5
-	2.875	190	98.0	26	36	123	17.5
75	3.000	190	100.0	26	36	125	17.5
80	3.125	190	105.0	26	36	130	17.5
-	3.250	220	108.0	26	36	133	20.5
85	3.375	220	110.0	26	36	135	20.5
90	3.500	220	115.0	26	36	140	20.5
-	3.625	220	117.0	26	36	142	20.5
95	3.750	220	120.0	26	36	145	20.5
100	4.000	220	125.0	26	36	150	20.5

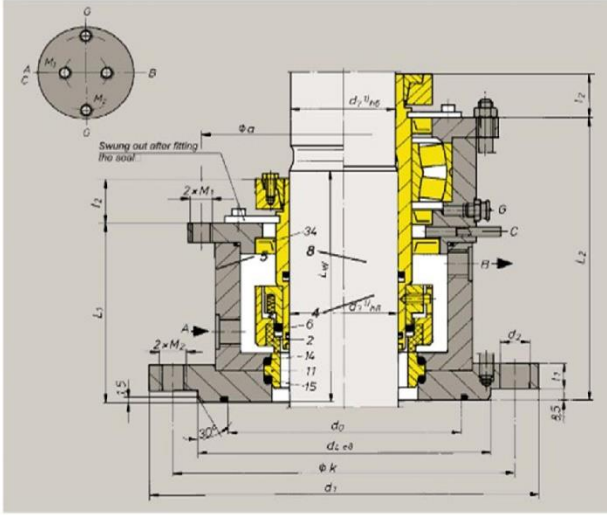


MS termosifon sistem teknesi/kabı çalkalamalı kazan ile birlikte basıncı bağlar ve dengeler. Mekanik salmastra ile birlikte mekanik salmastra sirkülasyon koruma sisteminin ana elementi çalkalamalı kazandır. Kartuş mekanik salmastra içerisindeki basıncın sürdürülmesi, depolanması ve akışkan tamponun soğutulması için tekne/kap kullanılır. Basıncı gerçekleştirirken, denge teknesinin içine hava sıkıştırarak ya da nitrojen koyarak basıncı ortamın içindekinden 0.5-1 bar daha yüksek yapar. Ve böylelikle Kartuş mekanik salmastranın normal çalışmasını garantiye alır.



Tip yatay denge kabı ana bilgi ve ölçüleri

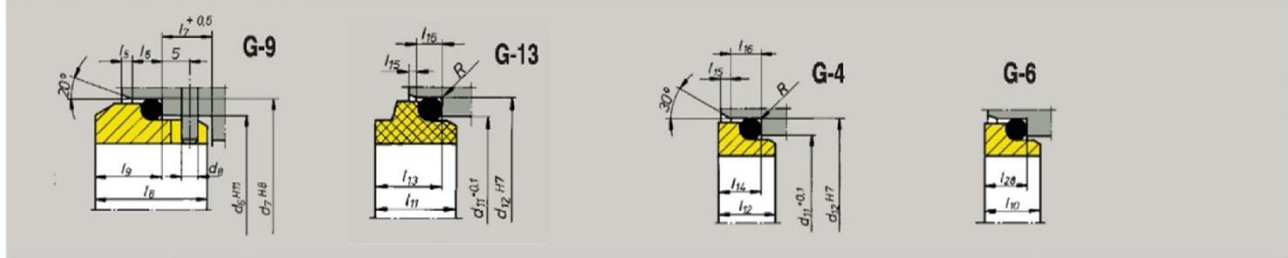
Tip	Basınç (bar)	Hacim / Litre	d	L1	H	Bağlantı	Materyal	Ortam
TSL 1.4 - 25B	25	4	ø 133	175	470	G3 / 8	SUS 304	Su, Alkol, Diesel yağ, Organik yağ vb.
TSL 1.6 - 25B	25	6	ø 159	260	690	G1 / 2	SUS 316	



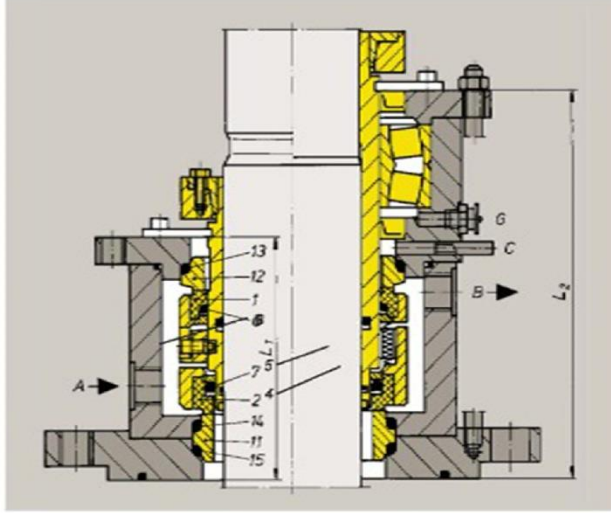
Parça Tanımlama	Teknik Özellikleri	Çalışma Limitleri	Malzemeler
▶ 2-Döner Baskı Elemanı	▶ Tekli Salmastra	▶ d1 = 40 - 220mm	▶ Döner Eleman Yüzey Seçenekleri:
▶ 4-Döner Eleman Kovanı	▶ Balanssız	▶ p = 6 bar	Krom-Nikel 316 ti, Silisyumkarbür,
▶ 5-Yay	▶ Rulmanlı/Rulmansız	▶ t = -30(-80).....	Tungstenkarbür, Karbon, Seramik
▶ 6-Döner Eleman O-Ringi	▶ Dönme Yönüne	▶ +200 (350) °C	▶ Sabit Eleman Yüzey Seçenekleri:
▶ 8-Setusukur	▶ Bağımsız	▶ Vg = 2 (5) m/sn	Karbon, Silisyumkarbür, Seramik,
▶ 11-Sabit Eleman			Tungstenkarbür, Krom-Nikel 316 ti,
▶ 14-Sabit Eleman O-Ringi			▶ Elastomerler : Viton (FKM), EPDM,
▶ 15-Sabit Eleman O-Ringi			Nitril (NBR)
▶ 34-Mil Sızdırmazlık Keçesi			

Sabit Eleman Seçenekleri

▶ G-9 G-13 G-4 G-6



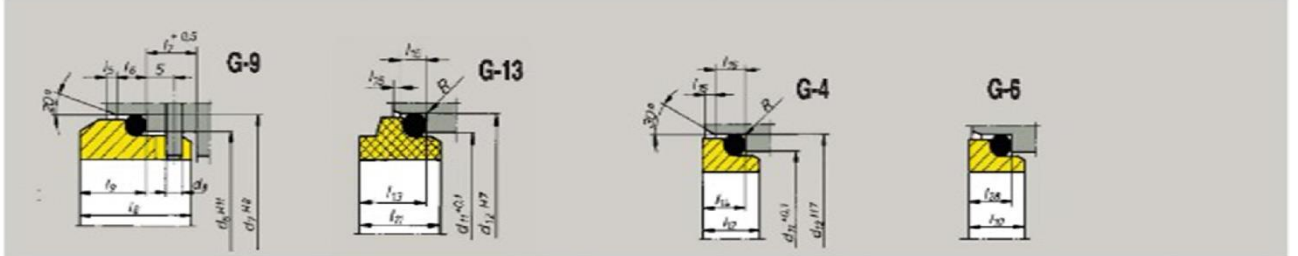
d3 ¹⁾	d7 ¹⁾	d1	n x d2	d4	d0	øk	L1	L2	Lw ²⁾	l1	l2	a	M1	M2	A, B
40	38	175	4x18	110	90	145	110.5	159.5	143	15	28	122	M12	M16	G ^{3/8}
50	48	240	8x18	176	135	210	114.5	174.5	148	17	28	157	M12	M16	G ^{3/8}
60	58	240	8x18	176	135	210	119.0	181.5	158	17	28	168	M12	M16	G ^{3/8}
80	78	275	8x22	204	155	240	133.0	217.5	168	20	34	203	M16	M20	G ^{1/2}
100	98	305	8x22	234	190	270	137.5	218.5	178	20	34	228	M16	M20	G ^{1/2}
125	120	330	8x22	260	215	295	138.5	233.5	203	20	40	268	M20	M20	G ^{1/2}
140	135	395	12x22	313	250	350	152.5	250.5	208	20	40	285	M20	M20	G ^{1/2}
160	150	395	12x22	313	265	350	161.0	253.0	213	25	40	297	M20	M20	G ^{1/2}
180	170	445	12x22	364	310	400	166.0	263.5	233	25	45	332	M24	M20	G ^{1/2}
200	190	445	12x22	364	310	400	171.0	271.0	243	25	45	352	M24	M20	G ^{1/2}
220	210	505	16x22	422	340	460			263	25			M24	M20	G ^{1/2}



Parça Tanımlama	Teknik Özellikleri	Çalışma Limitleri	Malzemeler
▶ 1+2-Döner Baskı Elemanı	▶ Çiftli Salmastra	▶ $d_1 = 40 - 220\text{mm}$	▶ Döner Eleman Yüzey Seçenekleri:
▶ 4-Döner Eleman Kovanı	▶ Balanssız	▶ $p = 6 \text{ bar}$	Krom-Nikel 316 ti, Silisyumkarbür,
▶ 5-Yay	▶ Rulmanlı/Rulmansız	▶ $t = -30(-80).....$	Tungstenkarbür, Karbon, Seramik
▶ 6+7-Döner Eleman O-Ringi	▶ Dönme Yönüne	▶ $+200 (350) \text{ }^\circ\text{C}$	▶ Sabit Eleman Yüzey Seçenekleri:
▶ 8-Setusukur	▶ Bağımsız	▶ $V_g = 2 (5) \text{ m}^3/\text{sn}$	Karbon, Silisyumkarbür, Seramik,
▶ 11+12-Sabit Eleman			Tungstenkarbür, Krom-Nikel 316 ti,
▶ 13+14+15-Sabit Eleman O-Ringi			▶ Elastomerler : Viton (FKM), EPDM,
			Nitril (NBR)

Sabit Eleman Seçenekleri

▶ G-9 G-13 G-4 G-6



$d_3^{1)}$	$d_7^{1)}$	d_1	$n \times d_2$	d_4	d_0	$\varnothing k$	L_1	L_2	$Lw^{2)}$	l_1	l_2	a	M_1	M_2	A, B
40	38	175	4x18	110	90	145	110.5	159.5	143	15	28	122	M12	M16	G $3/8$
50	48	240	8x18	176	135	210	114.5	174.5	148	17	28	157	M12	M16	G $3/8$
60	58	240	8x18	176	135	210	119.0	181.5	158	17	28	168	M12	M16	G $3/8$
80	78	275	8x22	204	155	240	133.0	217.5	168	20	34	203	M16	M20	G $1/2$
100	98	305	8x22	234	190	270	137.5	218.5	178	20	34	228	M16	M20	G $1/2$
125	120	330	8x22	260	215	295	138.5	233.5	203	20	40	268	M20	M20	G $1/2$
140	135	395	12x22	313	250	350	152.5	250.5	208	20	40	285	M20	M20	G $1/2$
160	150	395	12x22	313	265	350	161.0	253.0	213	25	40	297	M20	M20	G $1/2$
180	170	445	12x22	364	310	400	166.0	263.5	233	25	45	332	M24	M20	G $1/2$
200	190	445	12x22	364	310	400	171.0	271.0	243	25	45	352	M24	M20	G $1/2$
220	210	505	16x22	422	340	460			263	25			M24	M20	G $1/2$

MS - 010

- (Size) 35mm
- (For Flygt Pump Model):
2151-11, 2151-50

**MS - 020**

- (Size) 45mm, 60mm, 80mm
- (For Flygt Pump Model):
3152, 3170, 3201, 4410, 4430, 7045, 4680,
4670, 600, 3300, 3230, 3305, 3355, 3356,
3357, 7050, 7051, 7055, 7060, 7061, 7076,
7556, 605, 615, 665, 670, 680

**MS - 030**

- (Size) 20mm, 22mm, 28mm, 35mm
- (For Flygt Pump Model):
Ready 24, 2024, 2066, 2075, 2101, 3065,
3080, 2070, 2071, 2102-40, 3082, 3101,
Ready 90, 2082, 2090, 2125, 2140, 3126-90,
3126-180, 2084, 2135, 2151-10



MS - 040

- (Size) 20, 25, 35, 45, 60, 90mm
- (For Flygt Pump Model):
2610, 2620, 2630, 2640, 4610, 4620,
2660, 4630, 4640, 2670, 3153, 5100.210,
5100.211, 5100.220, 5100.221, 3171,
4650, 4660, 5100.250, 5100.251,
5100.300, 5100.310, 5150.300, 5150.310,
3301, 5150.350, 5150.360



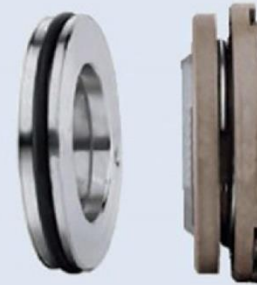
MS - 050

- (Size) 45mm
- (For Flygt Pump Model):
3152, 3150, 2201-590, 690

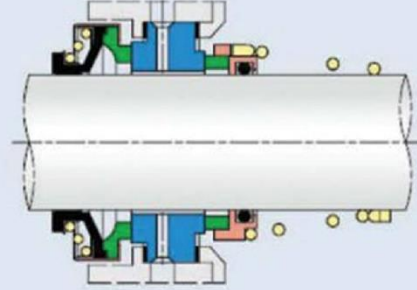


MS - 060

- (Size) 20mm, 25mm, 35mm
- (For Flygt Pump Model):
3085, Steady 7, 2060, 3041-281, 3057, 3060,
3067, 3068, 3102, 3127, 4440, 5530

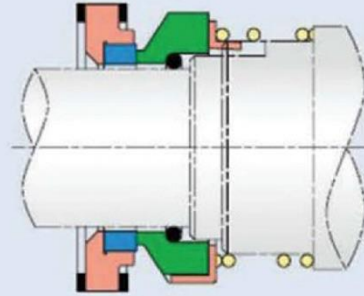


MS - 070



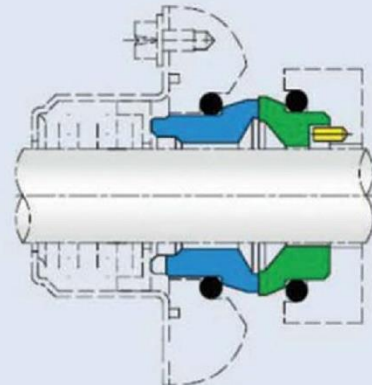
- (Size) 25, 35mm
(For APV pumps, dual seals. flush design, size 25,35 mm available)

MS - 080



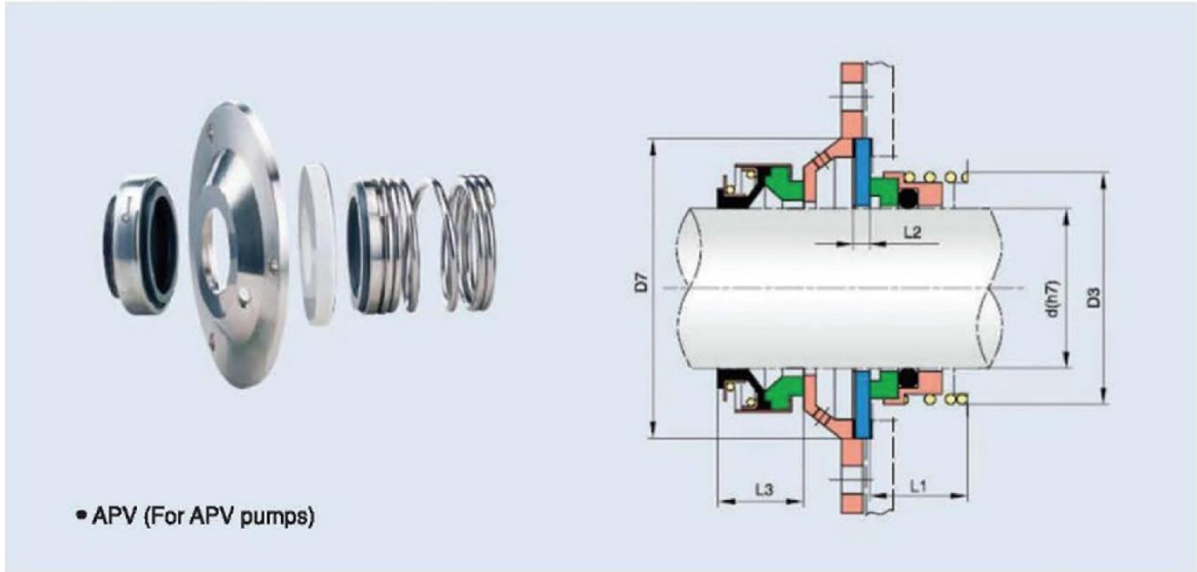
- Tri-Clover CL, (Size) 31.75, 41.25mm
(For CL Pumps, of Tri-Clover, size 1.75, 41.25mm available)

MS - 090



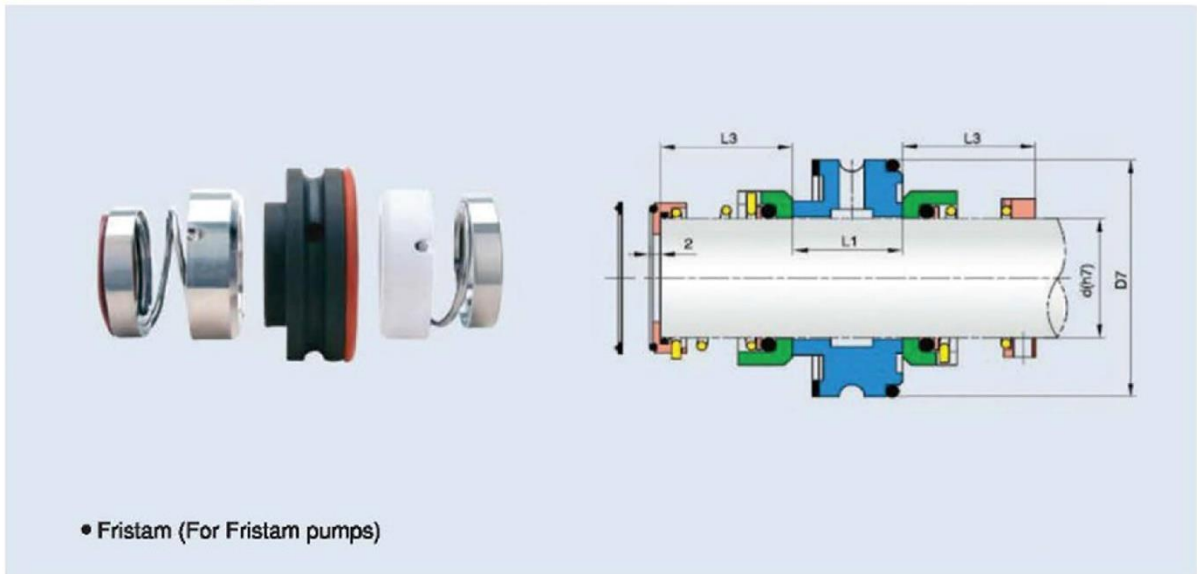
- APV W+(Size) 25, 35mm
(For APV W+ pumps, size 25,35 mm)

MS - 0100



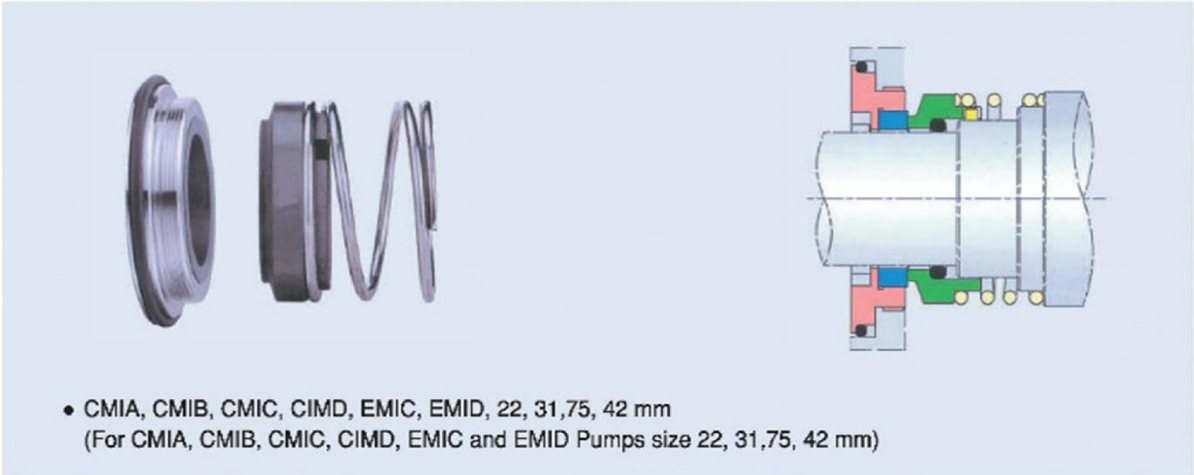
Size (Inch)	d	D3	D7	L1	L2	L3
1.000	25.400	41.20	68.20	25.40	7.80	14.00
1.500	38.100	55.70	80.10	33.30	9.00	17.00

MS - 0110



Size (Inch)	d	D7	L3	L1
22	22	45	20	30
30	30	60	22	26
35	35	64	26	30

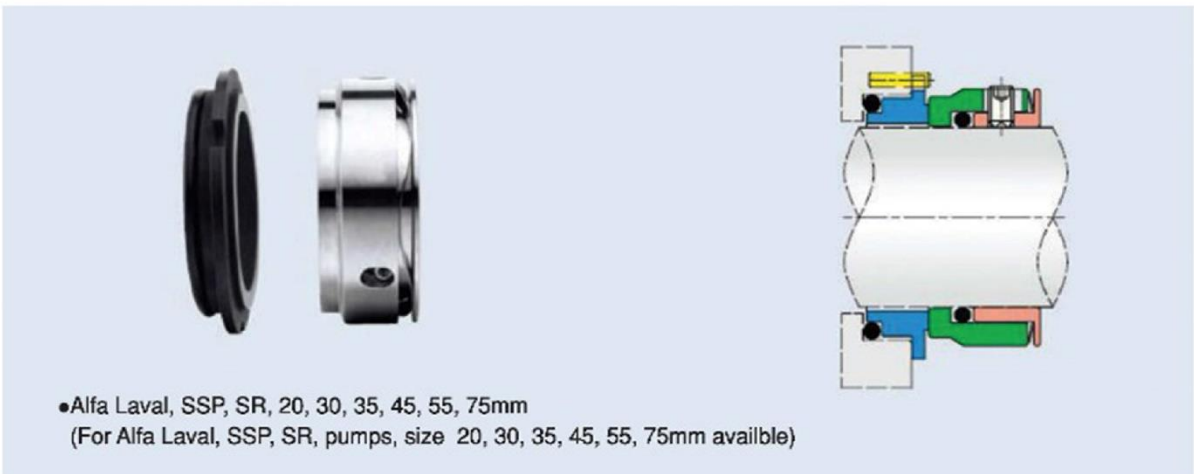
MS - 0120



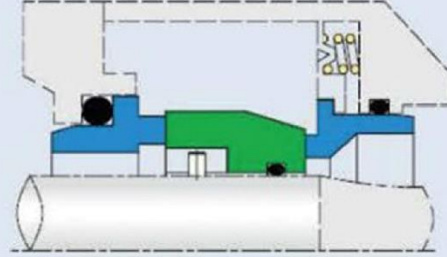
MS - 0130



MS - 0140

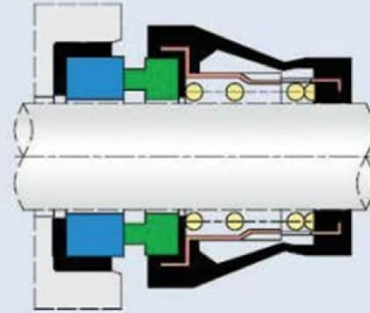


MS - 0150



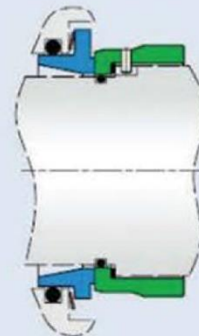
- Sarlin, 16,24 mm
(For Sarlin, Pumps size 16, 24 mm)

MS - 0160



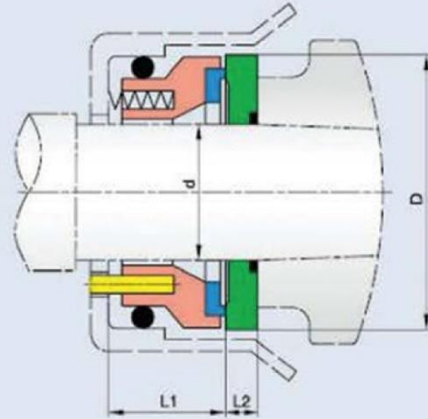
- Alfa Laval LKR, 30, 35 mm
(Alfa Laval LKR, Agitators size 30, 35 mm)

MS - 0170



- Alfa Laval LKR, NMOG, SRU, 30, 35, 45, 55 mm
(For Alfa Laval LKR, NMOG, SRU, pumps size 30, 35, 45, 55 mm available)

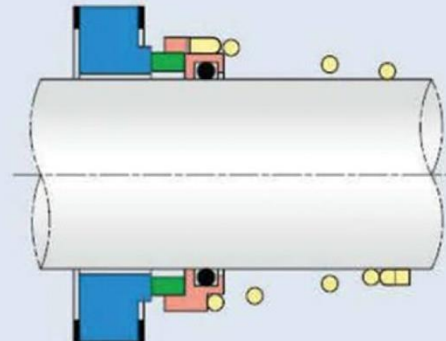
MS - 0180



- Inoxpa Prolac, (For Inoxpa Prolac pumps)
(Multi-spring design)

Size (Inch)	d	D	L1	L2
0,625	15,875	44,5	26	10,5
1,000	25,400	53,5	26	10,0
1,500	38,100	74	31	15,5

MS - 0190

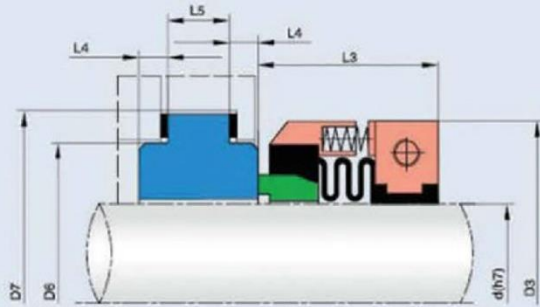


- APV, 25, 35mm
(For APV pumps, single seal, size 25, 35 mm available)

MS - 0200



- (Operating Conditions)
(Temperature) :-45°C to +120°C
(Pressure): <0.8MPa
(Speed): <10m/s
- (Materials)
(Stationary Ring): V1,Q1
(Rotary Ring): Y1,Y2,Q1
(Secondary Seal): T
(Spring and Metal Parts):F,G
(Seat Types)
(Standard): C22
- Applications : Strong corrosive fluids.



Size (Inch)	d	D3	D6	D7	L3	L4	L5
0.875	22.225	49.20	39.69	51	49.20	4.8	8.0
1.000	25.400	57.15	42.86	54	26.97	4.8	8.0
1.125	28.575	60.33	50.80	65	28.58	8.0	11.0
1.250	31.750	66.68	53.98	68	28.58	8.0	11.0
1.375	34.925	69.85	57.15	71	28.58	8.0	11.0
1.500	38.100	73.03	63.50	78	28.58	8.0	11.0
1.625	41.275	76.20	66.68	81	34.93	8.0	11.0
1.750	44.450	79.38	69.85	84	34.93	8.0	11.0
1.875	47.625	85.73	73.03	87	34.93	8.0	11.0
2.000	50.800	88.90	79.38	97	34.93	9.5	14.3
2.125	53.975	92.08	82.55	100	42.85	9.5	14.3
2.250	57.150	95.25	85.73	103	42.85	9.5	14.3
2.375	60.325	98.43	88.90	106	42.85	9.5	14.3
2.500	63.500	101.60	92.08	110	42.85	9.5	14.3
2.625	66.675	104.78	95.25	113	42.85	9.5	14.3
2.750	69.850	107.95	98.43	116	42.85	9.5	14.3
2.875	73.025	111.13	100.01	117	42.85	9.5	14.3
3.000	76.200	114.30	103.19	121	42.85	9.5	14.3
3.250	82.550	127.00	114.30	132	42.85	9.5	14.3
3.500	88.900	133.35	120.65	138	42.85	9.5	14.3
3.750	95.250	139.70	127.00	144	42.85	9.5	14.3
4.000	101.600	146.05	133.35	151	42.85	9.5	14.3

FONTUS

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