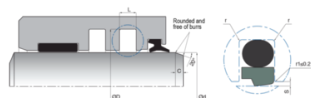
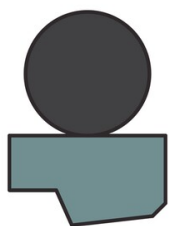


Compact seal type 0710

Type 0710 is a two piece single acting rod seal which consists of one special mixture PTFE profile ring and an o-ring as energizing element.



Characteristics

Type: 0710

Max. operating pressure: 400 bar

Maximum speed: 15 m/s

Application

- Injection moulding machines , fork-lift trucks , loading platforms , cranes , agricultural machinery , hydraulic breakers and servo cylinders.

Technical Information

- Low friction , free of stick-slip
- Due to the special profile it can be used in pair or in front of the u-ring .
- Long service life
- High sliding speed
- Wide range of temperature and chemicals depending on the o-ring material
- Minimum static and dynamic friction coefficient for a minimum energy loss and operating temperature
- Simple groove design and low axial housing heights

Operating Principle

- We recommend using special assembly tool (See section; Hydraulic Sealing Elements General Installation Information). It is very important that the assembly tools must be of soft material and have no sharp edges. Before installation the sealing element must be oiled with system oil.

Mineral oils

- from -30°C till +105°C
- max. 400 Bar
- max. 5.0 m/s

HFA and HFB

- from +5°C till +60°C
- max. 400 Bar
- max. 5.0 m/s

HFC

- from -30°C till +60°C
- max. 400 Bar
- max. 5.0 m/s

Options

- 0710 type of rod seal can be also used with double lip wipers. For special applications that require high temperatures or resistance to chemicals , piston seal is being manufactured with special mixture PTFE and FKM material. For heavy duty applications and high pressures the tolerances should change to H8/f8 and please contact the customer service to choose the suitable sealing element. The permissible sealing gap values of type 0710 rod seal is given in the below table.

OPERATING CONDITIONS			
MEDIA	Mineral oils (DIN 51524)	HFA and HFB	HFC
TEMPERATURE	from -30°C till +105°C	from +5°C till +60°C	from -30°C till +60°C
PRESSURE	max. 400 Bar	max. 400 Bar	max. 400 Bar
SPEED	max. 5.0 m/s	max. 5.0 m/s	max. 5.0 m/s
Note: The above data are maximum values and cannot be used at the same time.			

SURFACE ROUGHNESS	Ra	Rmax
Sliding Surface	max. 0.2 µm	max. 2.0 µm
Groove Base	max. 1.6 µm	max. 6.3 µm
Groove Flanks	max. 3.2 µm	max. 15 µm

Disclaimer: The content of this document has been composed with the utmost care. However, it is possible that certain information changes over time, becomes inaccurate or incomplete. ERIKS does not guarantee that the information provided on this document is up to date, accurate and complete; the information provided is not intended to be advice. ERIKS shall never be liable for damage resulting from the use of the information provided.

SURFACE ROUGHNESS

Ra

Rmax

Note: It is recommended to have 50% to 90% of the working surface material contact area value.

PERMISSIBLE SEALING GAP

B (mm)

Smax (mm)

x

150 Bar

250 Bar

400 Bar

2.2

0.25

0.15

0.10

3.2

0.35

0.20

0.10

4.2

0.35

0.20

0.15

6.3

0.45

0.30

0.20

8.1

0.6

0.35

0.25

9.5

0.7

0.50

0.30

Note: The largest sealing gap value occurring on the non-pressurized side of the seal does have a vital importance for the function of the seal and in this respect it is quite important to use the S value lower than the above indicated numbers.

Rod diameter	Groove diameter	Groove width	Material seal	Compound	Material energizer	Temperature range	Article
mm	mm	mm				°C	
2.5	6.9	2.2	PTFE	ER39	NBR	-30 / 105	14193732
4	8.9	2.2	PTFE	ER39	NBR	-30 / 105	14193733
5	9.9	2.2	PTFE	ER39	NBR	-30 / 105	10019992
6	10.9	2.2	PTFE	ER39	NBR	-30 / 105	11072229
8	12.9	2.2	PTFE	ER39	NBR	-30 / 105	14193734
8	15.3	3.2	PTFE	ER39	NBR	-30 / 105	10020002
9	13.9	2.2	PTFE	ER39	NBR	-30 / 105	14193736
9	16.2	3.2	PTFE	ER39	NBR	-30 / 105	14193735
10	14.9	2.2	PTFE	ER39	NBR	-30 / 105	11338502
10	17.3	3.2	PTFE	ER39	NBR	-30 / 105	10020003
12	19.3	3.2	PTFE	ER39	NBR	-30 / 105	10020005
12.7	17.6	2.2	PTFE	ER39	NBR	-30 / 105	14193737
14	21.3	3.2	PTFE	ER39	NBR	-30 / 105	10020006
15	19.9	2.2	PTFE	ER39	NBR	-30 / 105	14193738
15	22.3	3.2	PTFE	ER39	NBR	-30 / 105	10020008
16	20.9	2.2	PTFE	ER39	NBR	-30 / 105	12436061
16	23.3	3.2	PTFE	ER39	NBR	-30 / 105	10020009
18	22.9	2.2	PTFE	ER39	NBR	-30 / 105	14193739
18	25.3	3.2	PTFE	ER39	NBR	-30 / 105	10020010
19	29.7	4.2	PTFE	ER39	NBR	-30 / 105	14193740
20	27.3	3.2	PTFE	ER39	NBR	-30 / 105	11091389
20	30.7	4.2	PTFE	ER39	NBR	-30 / 105	10020017
22	29.3	3.2	PTFE	ER39	NBR	-30 / 105	11328285
22	29.5	3.2	PTFE	ER39	NBR	-30 / 105	14193741
22	32.7	4.2	PTFE	ER39	NBR	-30 / 105	10020018
25	32.3	3.2	PTFE	ER39	NBR	-30 / 105	11075034
25	35.7	4.2	PTFE	ER39	NBR	-30 / 105	10020020
25.4	36.1	4.2	PTFE	ER39	NBR	-30 / 105	14193742
26	36.7	4.2	PTFE	ER39	NBR	-30 / 105	14193743
28	35.3	3.2	PTFE	ER39	NBR	-30 / 105	11470187
28	38.7	4.2	PTFE	ER39	NBR	-30 / 105	10020022
30	37.3	3.2	PTFE	ER39	NBR	-30 / 105	14193744
30	40.7	4.2	PTFE	ER39	NBR	-30 / 105	10020023

Disclaimer: The content of this document has been composed with the utmost care. However, it is possible that certain information changes over time, becomes inaccurate or incomplete. ERIKS does not guarantee that the information provided on this document is up to date, accurate and complete; the information provided is not intended to be advice. ERIKS shall never be liable for damage resulting from the use of the information provided.

Rod diameter	Groove diameter	Groove width	Material seal	Compound	Material energizer	Temperature range	Article
mm	mm	mm				°C	
32	39.3	3.2	PTFE	ER39	NBR	-30 / 105	14193745
32	42.7	4.2	PTFE	ER39	NBR	-30 / 105	10020024
35	42.3	3.2	PTFE	ER39	NBR	-30 / 105	14193746
35	45.7	4.2	PTFE	ER39	NBR	-30 / 105	10020026
36	43.3	3.2	PTFE	ER39	NBR	-30 / 105	14193747
36	46.7	4.2	PTFE	ER39	NBR	-30 / 105	14199445
38	48.7	4.2	PTFE	ER39	NBR	-30 / 105	14193748
38	53.1	6.3	PTFE	ER39	NBR	-30 / 105	11094619
40	50.7	4.2	PTFE	ER39	NBR	-30 / 105	14193749
40	55.1	6.3	PTFE	ER39	NBR	-30 / 105	10020034
42	52.7	4.2	PTFE	ER39	NBR	-30 / 105	14193750
42	57.1	6.3	PTFE	ER39	NBR	-30 / 105	14193751
43	53.7	4.2	PTFE	ER39	NBR	-30 / 105	14193752
45	55.7	4.2	PTFE	ER39	NBR	-30 / 105	11277913
45	60.1	6.3	PTFE	ER39	NBR	-30 / 105	10020036
48	58.7	4.2	PTFE	ER39	NBR	-30 / 105	14193754
48	63.1	6.3	PTFE	ER39	NBR	-30 / 105	14193753
50	60.7	4.2	PTFE	ER39	NBR	-30 / 105	14193756
50	65.1	6.3	PTFE	ER39	NBR	-30 / 105	10020038
50.8	61.5	4.2	PTFE	ER39	NBR	-30 / 105	14193755
52	62.7	4.2	PTFE	ER39	NBR	-30 / 105	14193757
52	67.1	6.3	PTFE	ER39	NBR	-30 / 105	14193758
55	65.7	4.2	PTFE	ER39	NBR	-30 / 105	14193759
55	70.1	6.3	PTFE	ER39	NBR	-30 / 105	10020039
56	66.7	4.2	PTFE	ER39	NBR	-30 / 105	14193760
56	71.1	6.3	PTFE	ER39	NBR	-30 / 105	10020040
57	72.1	6.3	PTFE	ER39	NBR	-30 / 105	14193761
60	70.7	4.2	PTFE	ER39	NBR	-30 / 105	14193762
60	75.1	6.3	PTFE	ER39	NBR	-30 / 105	10020041
63	73.7	4.2	PTFE	ER39	NBR	-30 / 105	14193764
63	78.1	6.3	PTFE	ER39	NBR	-30 / 105	10020042
63.5	78.6	6.3	PTFE	ER39	NBR	-30 / 105	14193763
65	75.7	4.2	PTFE	ER39	NBR	-30 / 105	14193765
65	80.1	6.3	PTFE	ER39	NBR	-30 / 105	10020043
67	82.1	6.3	PTFE	ER39	NBR	-30 / 105	14193766
68	78.7	4.2	PTFE	ER39	NBR	-30 / 105	14193768
68	83.1	6.3	PTFE	ER39	NBR	-30 / 105	14193767
70	80.7	4.2	PTFE	ER39	NBR	-30 / 105	11370347
70	85.1	6.3	PTFE	ER39	NBR	-30 / 105	12682984
73	88.1	6.3	PTFE	ER39	NBR	-30 / 105	10020045
75	85.7	4.2	PTFE	ER39	NBR	-30 / 105	14193769
75	90.1	6.3	PTFE	ER39	NBR	-30 / 105	13402289
76.2	91.3	6.3	PTFE	ER39	NBR	-30 / 105	14193770
78	93.1	6.3	PTFE	ER39	NBR	-30 / 105	14193771
80	90.7	4.2	PTFE	ER39	NBR	-30 / 105	12959131
80	95.1	6.3	PTFE	ER39	NBR	-30 / 105	10020048
85	100.1	6.3	PTFE	ER39	NBR	-30 / 105	10020049
90	100.7	4.2	PTFE	ER39	NBR	-30 / 105	14193772
90	105.1	6.3	PTFE	ER39	NBR	-30 / 105	10020050
92	107.1	6.3	PTFE	ER39	NBR	-30 / 105	14193773
95	110.1	6.3	PTFE	ER39	NBR	-30 / 105	14199446
95	115.1	8.1	PTFE	ER39	NBR	-30 / 105	14193774

Disclaimer: The content of this document has been composed with the utmost care. However, it is possible that certain information changes over time, becomes inaccurate or incomplete. ERIKS does not guarantee that the information provided on this document is up to date, accurate and complete; the information provided is not intended to be advice. ERIKS shall never be liable for damage resulting from the use of the information provided.

Rod diameter	Groove diameter	Groove width	Material seal	Compound	Material energizer	Temperature range	Article
mm	mm	mm				°C	
100	110.7	4.2	PTFE	ER39	NBR	-30 / 105	14193775
100	115.1	6.3	PTFE	ER39	NBR	-30 / 105	10020052
105	120.1	6.3	PTFE	ER39	NBR	-30 / 105	14193777
105	125.5	8.1	PTFE	ER39	NBR	-30 / 105	14193776
110	120.7	4.2	PTFE	ER39	NBR	-30 / 105	14193779
110	125.1	6.3	PTFE	ER39	NBR	-30 / 105	10020053
110	130.5	8.1	PTFE	ER39	NBR	-30 / 105	14193778
115	130.1	6.3	PTFE	ER39	NBR	-30 / 105	11236051
120	135.1	6.3	PTFE	ER39	NBR	-30 / 105	10020055
125	140.1	6.3	PTFE	ER39	NBR	-30 / 105	10020056
125	145.5	8.1	PTFE	ER39	NBR	-30 / 105	14193780
127	142.1	6.3	PTFE	ER39	NBR	-30 / 105	14193781
130	145.1	6.3	PTFE	ER39	NBR	-30 / 105	10020057
130	150.5	8.1	PTFE	ER39	NBR	-30 / 105	14193782
132	147.1	6.3	PTFE	ER39	NBR	-30 / 105	14193783
135	150.1	6.3	PTFE	ER39	NBR	-30 / 105	11145065
137	152.1	6.3	PTFE	ER39	NBR	-30 / 105	14193784
138	153.1	6.3	PTFE	ER39	NBR	-30 / 105	14193785
140	155.1	6.3	PTFE	ER39	NBR	-30 / 105	10020059
145	160.1	6.3	PTFE	ER39	NBR	-30 / 105	14193786
145	165.5	8.1	PTFE	ER39	NBR	-30 / 105	14193787
150	165.1	6.3	PTFE	ER39	NBR	-30 / 105	10020060
150	170.5	8.1	PTFE	ER39	NBR	-30 / 105	14193788
153	168.1	6.3	PTFE	ER39	NBR	-30 / 105	14193789
155	170.1	6.3	PTFE	ER39	NBR	-30 / 105	14193790
160	175.1	6.3	PTFE	ER39	NBR	-30 / 105	10020061
160	180.5	8.1	PTFE	ER39	NBR	-30 / 105	14193791
165	180.1	6.3	PTFE	ER39	NBR	-30 / 105	10020062
170	185.1	6.3	PTFE	ER39	NBR	-30 / 105	14199443
170	190.5	8.1	PTFE	ER39	NBR	-30 / 105	14193792
172	192.5	8.1	PTFE	ER39	NBR	-30 / 105	14193793
175	190.1	6.3	PTFE	ER39	NBR	-30 / 105	10020064
180	195.1	6.3	PTFE	ER39	NBR	-30 / 105	10020065
180	200.5	8.1	PTFE	ER39	NBR	-30 / 105	11534987
185	200.1	6.3	PTFE	ER39	NBR	-30 / 105	14193794
190	205.1	6.3	PTFE	ER39	NBR	-30 / 105	11185310
192	207.1	6.3	PTFE	ER39	NBR	-30 / 105	14193795
195	210.1	6.3	PTFE	ER39	NBR	-30 / 105	14193796
200	220.5	8.1	PTFE	ER39	NBR	-30 / 105	11477869
205	225.5	8.1	PTFE	ER39	NBR	-30 / 105	14193797
210	230.5	8.1	PTFE	ER39	NBR	-30 / 105	14193798
212	232.5	8.1	PTFE	ER39	NBR	-30 / 105	14193799
215	235.5	8.1	PTFE	ER39	NBR	-30 / 105	14199444
220	240.5	8.1	PTFE	ER39	NBR	-30 / 105	10020067
225	245.5	8.1	PTFE	ER39	NBR	-30 / 105	14193800
230	250.5	8.1	PTFE	ER39	NBR	-30 / 105	11355227
235	255.5	8.1	PTFE	ER39	NBR	-30 / 105	14193801
240	260.5	8.1	PTFE	ER39	NBR	-30 / 105	10020068
245	265.5	8.1	PTFE	ER39	NBR	-30 / 105	14193802
250	270.5	8.1	PTFE	ER39	NBR	-30 / 105	10020069
260	280.5	8.1	PTFE	ER39	NBR	-30 / 105	14193803
260	284	8.1	PTFE	ER39	NBR	-30 / 105	11015578

Disclaimer: The content of this document has been composed with the utmost care. However, it is possible that certain information changes over time, becomes inaccurate or incomplete. ERIKS does not guarantee that the information provided on this document is up to date, accurate and complete; the information provided is not intended to be advice. ERIKS shall never be liable for damage resulting from the use of the information provided.

Rod diameter	Groove diameter	Groove width	Material seal	Compound	Material energizer	Temperature range	Article
mm	mm	mm				°C	
265	289	8.1	PTFE	ER39	NBR	-30 / 105	14193804
270	294	8.1	PTFE	ER39	NBR	-30 / 105	11515716
275	299	8.1	PTFE	ER39	NBR	-30 / 105	14193805
280	304	8.1	PTFE	ER39	NBR	-30 / 105	11073108
285	309	8.1	PTFE	ER39	NBR	-30 / 105	14193806
290	314	8.1	PTFE	ER39	NBR	-30 / 105	14193807
295	319	8.1	PTFE	ER39	NBR	-30 / 105	14193808
300	320.5	8.1	PTFE	ER39	NBR	-30 / 105	12398956
300	324	8.1	PTFE	ER39	NBR	-30 / 105	10020071
310	334	8.1	PTFE	ER39	NBR	-30 / 105	13409905
320	344	8.1	PTFE	ER39	NBR	-30 / 105	10020072
330	354	8.1	PTFE	ER39	NBR	-30 / 105	14193809
340	364	8.1	PTFE	ER39	NBR	-30 / 105	10020073
345	369	8.1	PTFE	ER39	NBR	-30 / 105	14193810
350	374	8.1	PTFE	ER39	NBR	-30 / 105	14193811
360	384	8.1	PTFE	ER39	NBR	-30 / 105	11213540
370	394	8.1	PTFE	ER39	NBR	-30 / 105	14193812
380	404	8.1	PTFE	ER39	NBR	-30 / 105	14193813
390	414	8.1	PTFE	ER39	NBR	-30 / 105	14193814
400	424	8.1	PTFE	ER39	NBR	-30 / 105	11021256
405	429	8.1	PTFE	ER39	NBR	-30 / 105	14193815
410	434	8.1	PTFE	ER39	NBR	-30 / 105	14193816
420	444	8.1	PTFE	ER39	NBR	-30 / 105	14193817
430	454	8.1	PTFE	ER39	NBR	-30 / 105	14193818
440	464	8.1	PTFE	ER39	NBR	-30 / 105	11133213
450	474	8.1	PTFE	ER39	NBR	-30 / 105	14193819
460	484	8.1	PTFE	ER39	NBR	-30 / 105	14193820
470	494	8.1	PTFE	ER39	NBR	-30 / 105	10020075
480	504	8.1	PTFE	ER39	NBR	-30 / 105	11380990
490	514	8.1	PTFE	ER39	NBR	-30 / 105	14193821
500	524	8.1	PTFE	ER39	NBR	-30 / 105	14193822
510	534	8.1	PTFE	ER39	NBR	-30 / 105	14193823
520	544	8.1	PTFE	ER39	NBR	-30 / 105	11831644
530	554	8.1	PTFE	ER39	NBR	-30 / 105	14193824
540	564	8.1	PTFE	ER39	NBR	-30 / 105	14193825
550	574	8.1	PTFE	ER39	NBR	-30 / 105	14193826
570	594	8.1	PTFE	ER39	NBR	-30 / 105	14193827

Disclaimer: The content of this document has been composed with the utmost care. However, it is possible that certain information changes over time, becomes inaccurate or incomplete. ERIKS does not guarantee that the information provided on this document is up to date, accurate and complete; the information provided is not intended to be advice. ERIKS shall never be liable for damage resulting from the use of the information provided.