ERIKS X-ring FKM 75 Compound 51414

You mainly use the black FKM* X-ring from ERIKS as a seal for lubricating and hydraulic oils at high temperatures in linear or rotational applications. The characteristics of this X-ring make it the ideal replacement for an O-ring seal in slow, dynamic applications. This seal is widely applicable and often found in the chemicals and hydraulics sectors, and in general industry. * Viton, the brand name for FKM, may be more familiar to you.

Characteristics

Material: FKM
Colour: Black
Hardness: 75
Compound: 51414
Temperature range: -20 / 200 °C

Application

- Temperature resistance

This FKM 75 X-ring has an operating temperature range of -20°C to +200°C.

Maximum pressure
Compound 51414 has a Shore A hardness of 75. As a result, this X-ring is suitable for applications with a pressure of up to 80 bars. Refer to the chart below for information on the relationship between pressure, hardness, the seal clearance gap and the groove dimensions. You should always adhere to these guidelines.

At higher pressures, we recommend using back-up rings in addition to an X-ring.

Chemical resistance
This material is an excellent solution for applications that involve lubricating and hydraulic oils. It also offers a good resistance to acids, bases, greases, ageing and UV radiation. Furthermore, FKM is often used in combination with a vacuum. For sealing steam, you should preferably use HNBR or FFKM, depending on the application.

Recommended in: Chemical

Internal diameter	Cross section	Size according to AS568-BS1806-ISO3601	Article
mm	mm		Max. 200 articles in the table
0.74	1.02	001	10031716
1.07	1.27	002	10031717
1.24	2.62	102	10031767
1.42	1.52	003	10031718
1.78	1.78	004	10031719
2.06	2.62	103	10031768
2.57	1.78	005	10031720
2.84	2.62	104	10031769
2.9	1.78	006	10031721
3.68	1.78	007	10031722
3.83	2.62		10031770

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Internal diameter	Cross section	Size according to AS568-BS1806-ISO3601	Article
mm	mm		Max. 200 articles in the table
4.34	3.53	201	10031844
4.42	2.62	106	10031771
4.47	1.78	008	10031723
5.23	2.62	107	10031772
5.28	1.78	009	10031724
5.94	3.53	202	10031845
6.02	2.62	108	10031773
6.07	1.78	010	10031725
7.52	3.53	203	10031846
7.59	2.62	109	10031774
7.65	1.78	011	10031726
8.2	1.78		10031728
9.12	3.53	204	10031847
9.19	2.62	110	10031775
9.25	1.78	012	10031727
10.69	3.53	205	10031848
10.77	2.62	111	10031776
10.82	1.78	013	10031729
12.29	3.53	206	10031849
12.37	2.62	112	10031777
12.42	1.78	014	10031730
13.87	3.53	207	10031850
13.94	2.62	113	10031778
14	1.78	015	10031731
15.47	3.53	208	10031851
15.54	2.62	114	10031779
15.6	1.78	016	10031732
17.04	3.53	209	10031852
17.12	2.62	115	10031780
17.17	1.78	017	10031733
18.64	3.53	210	10031853
18.72	2.62	116	10031781
18.77	1.78	018	10031734
20.22	3.53	211	10031854
20.29	2.62	117	10031782
20.35	1.78	019	10031735
21.82	3.53	212	10031855
21.89	2.62	118	10031783
21.95	1.78	020	10031736
23.39	3.53	213	10031856
23.47	2.62	119	10031784
23.52	1.78	021	10031737
24.99	3.53	214	10031857
25.07	2.62	120	10031785
25.12	1.78	022	10031738
26.57	3.53	215	10031858
26.64	2.62	121	10031786
26.7	1.78	023	10031739
28.17	3.53	216	10031859
28.24	2.62	122	10031787
28.3	1.78	024	10031740
29.74	3.53	217	10031860

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Internal diameter	Cross section	Size according to AS568-BS1806-ISO3601	Article
mm	mm		Max. 200 articles in the table
29.82	2.62	123	10031788
29.87	1.78	025	10031741
31.34	3.53	218	10031861
31.42	2.62	124	10031789
31.47	1.78	026	10031742
32.92	3.53	219	10031862
32.99	2.62	125	10031790
33.05	1.78	027	10031743
34.52	3.53	220	10031863
34.59	2.62	126	10031791
34.65	1.78	028	10031744
36.09	3.53	221	10031864
36.17	2.62	127	10031792
37.69	3.53	222	10031865
37.77	2.62	128	10031793
37.82	1.78	029	10031745
39.34	2.62	129	10031794
40.87	3.53	223	10031866
40.94	2.62	130	10031795
41	1.78	030	10031746
42.52	2.62	131	10031796
44.04	3.53	224	10031867
44.12	2.62	132	10031797
44.17	1.78	031	10031747
45.69	2.62	133	10031798
47.22	3.53	225	10031868
47.29	2.62	134	10031799
47.35	1.78	032	10031748
48.9	2.62	135	10031800
50.39	3.53	226	10031869
50.47	2.62	136	10031801
50.52	1.78	033	10031749
52.07	2.62	137	10031802
53.57	3.53	227	10031870
53.64	2.62	138	10031803
53.7	1.78	034	10031750
55.25	2.62	139	10031804
56.74	3.53	228	10031871
56.82	2.62	140	10031805
56.87	1.78	035	10031751
58.42	2.62	141	10031806
59.92	3.53	229	10031872
60	2.62		10031807
60.05	1.78	036	10031752
61.6	2.62	143	10031808
63.09	3.53	230	10031873
63.17	2.62	144	10031809
63.22	1.78	037	10031753
64.77	2.62	145	10031810
66.27	3.53	231	10031874
66.34	2.62	146	10031811
66.4	1.78	038	10031754

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Internal diameter	Cross section	Size according to AS568-BS1806-ISO3601	Article
mm	mm		Max. 200 articles in the table
67.95	2.62	147	10031812
69.44	3.53	232	10031875
69.52	2.62	148	10031813
69.57	1.78	039	10031755
71.12	2.62	149	10031814
72.62	3.53	233	10031876
72.69	2.62	150	10031815
72.75	1.78	040	10031756
75.79	3.53	234	10031877
75.87	2.62	151	10031816
75.92	1.78	041	10031757
78.97	3.53	235	10031878
82.14	3.53	236	10031879
82.22	2.62	152	10031817
82.27	1.78	042	10031758
85.32	3.53	237	10031880
88.49	3.53	238	10031881
88.57	2.62	153	10031818
88.62	1.78	043	10031759
91.67	3.53	239	10031882
94.84	3.53	240	10031883
94.92	2.62	154	10031819
94.97	1.78	044	10031760
98.02	3.53	241	10031884
101.19	3.53	242	10031885
101.27	2.62	155	10031820
101.32	1.78	045	10031761
104.37	3.53	243	10031886
107.54	3.53	244	10031887
107.62	2.62	156	10031821
107.67	1.78	046	10031762
110.72	3.53	245	10031888
113.89	3.53	246	10031889
113.97	2.62	157	10031822
114.02	1.78	047	10031763
117.07	3.53	247	10031890
120.24	3.53	248	10031891
120.32	2.62	158	10031823
120.37	1.78	048	10031764
123.42	3.53	249	10031892
126.59	3.53	250	10031893
126.67	2.62	159	10031824
126.72	1.78	049	10031765
129.77	3.53	251	10031894
132.94	3.53	252	10031895
133.02	2.62	160	10031825
133.07	1.78	050	10031766
136.12	3.53	253	10031896
139.29	3.53	254	10031897
139.37	2.62	161	10031826
142.47	3.53	255	10031898
145.64	3.53	256	10031899

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Internal diameter	Cross section	Size according to AS568-BS1806-ISO3601	Article
mm	mm		Max. 200 articles in the table
145.72	2.62	162	10031827
148.82	3.53	257	10031900
151.99	3.53	258	10031901
152.07	2.62	163	10031828
158.34	3.53	259	10031902
158.42	2.62	164	10031829
164.69	3.53	260	10031903
164.77	2.62	165	10031830
171.04	3.53	261	10031904
171.11	2.62		10031831
177.39	3.53	262	10031905
177.47	2.62	167	10031832
183.74	3.53	263	10031906
183.82	2.62	168	10031833
190.09	3.53	264	10031907
190.17	2.62	169	10031834
196.45	3.53		10031908
196.52	2.62	170	10031835
202.79	3.53	266	10031909
202.87	2.62	171	10031836
209.14	3.53	267	10031910
209.22	2.62	172	10031837
215.49	3.53	268	10031911
215.57	2.62	173	10031838
221.85	3.53		10031912
221.92	2.62	174	10031839
228.19	3.53	270	10031913
228.27	2.62	175	10031840
234.54	3.53	271	10031914
234.62	2.62	176	10031841
240.97	2.62	177	10031842
247.32	2.62	178	10031843

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