



ERIKS Bonded seal FKM Compound 514783

The ERIKS Bonded Seal is a robust solution used for static sealing of bolt heads, nuts, screw connections and flange connections. The product consists of a metal ring bonded to a trapezoidal elastomeric sealing element. As standard ERIKS offer two types of design. One without or one with self-centering [type ZC] feature. The ZC type offers ease of installation ensuring the sealing element is centralized. The chemical resistance of the Bonded Seal depends upon the combination of the metal and the elastomer type. The temperature resistance mainly depends on the rubber material.

Characteristics

Material seal: FKM

Compound: 514783

Temperature range: -20 / 200

Technical Information

- Metal material Carbon steel : Minimal Tensile Strength : 540 N/mm²
- Stainless steel 316 : Minimal Tensile Strength : 540 N/mm²
- Other metallic materials (Aluminum, Brass, etc.) upon request.
- Standard surface treatment on the Carbon Steel ring, for anti-oxidation ZnFe Zinc-iron with Cr+3 passivation Layer thickness 8 tot 11 µm
- Corrosion resistance to salt spray test of approx 100 hours or more according to ASTM B117 or ISO 9227
- Other surface treatments (chrome, Nickel, etc.) upon request.

Construction

- Trapezoidal rubber inner ring
- Metal outer ring

Execution

- Standard
- ZC (Self Centralizing)

Operating Principle

- Temperature range -30 °C up to +200 °C [depending on the rubber material]
- The minimum bursting pressure depends on the tensile strength of the metal, therefore the diameters of the metal ring have an influence. When designing an application, a safety factor of 3x the maximum working pressure must be taken into account.

Selection Guideline

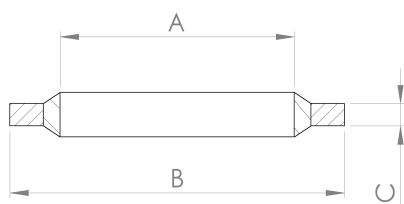
- Very wide application in general industry. Particularly in fuel, HVA, hydraulic, food and beverage, heating and oil and gas applications.
- For use in high pressure environments where copper rings cannot be used
- Reliable static sealing due to configuration with metal ring as compression stop, therefore always the correct pre-tension of the rubber element.
- Sealing both liquids and gases.
- Added self-centering lip (ZC) on the inner diameter ensures correct centering on the position.
- Medium to be sealed, temperature and environment determine which elastomer/metal combination should be used. Most commonly used combination is carbon steel with ZnFe Cr+3 coating with NBR rubber.

Options

- Metric sizes
- Inch sizes
- Range inner diameter: 3mm up to 76mm.

Size table:

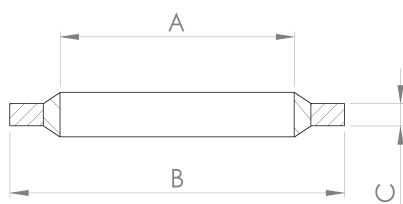
A mm	B mm	C mm
3.05	6.35	1.22
3.6	7.5	1
4.12	7.26	1.22
4.5	7	1
4.6	9	1
5.21	8.38	1.22
5.6	10	1
5.7	9	1
5.7	10	1
6.2	9.2	1
6.6	11	1
6.7	10	1
6.7	11	1
6.86	13.21	1.22
6.99	13.34	1.22
7	11.4	1
7.3	10.2	1
8.31	13.34	1.22
8.64	14.22	1.22
8.7	13	1
8.7	14	1
9.3	13.3	1
10.35	15.88	2
10.37	15.88	2.03
10.7	16	1.5
10.7	17	1.5
10.7	18	1.5
11.26	18.36	2.03
11.69	19.05	2.03
11.8	19.1	1.5
12.7	18	1.5
12.7	19	1.5
12.7	20	1.5
13.7	22	1.5
13.74	20.57	2.03
13.8	20.1	1.5
14	18.7	1.5
14.7	21	1.5



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Size table:

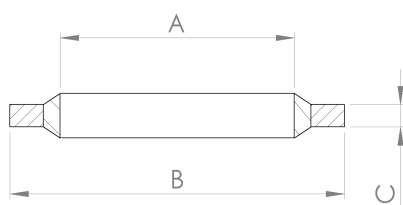
A	B	C
14.7	22	1.5
14.86	22.23	2.03
15.83	22.23	2.03
16	24	1.5
16.51	25.4	2.03
16.7	23	1.5
16.7	24	1.5
17.28	23.8	2.03
17.35	22.7	1.25
17.4	24	1.5
18	24.7	1.5
18.16	25.4	2.5
18.7	26	1.5
18.7	27	2
19.69	26.92	2.5
20.7	28	1.5
21.5	28.7	2.5
21.54	28.58	2.5
21.65	26.7	1.25
22.7	30	2
22.7	31	2
23.49	31.75	2.5
24.26	33.27	2.5
24.7	32	2
26.7	35	2
27	35.3	2
27.05	34.93	2.5
27.2	36	2
27.3	32.5	1.25
28.6	36	2
29.33	36.58	2.5
30.81	38.1	2.5
31	39	2
32.64	41.4	3.38
33.7	42	2
33.89	42.8	2.5
33.89	42.8	3.38
34.2	39.5	2
34.3	43	2



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Size table:

A	B	C
35.94	44.45	2.5
35.94	44.45	3.38
36.7	46	2
38.96	47.75	3.38
40	51	2.5
42.7	53	3
42.8	49.5	2
42.93	52.38	2.5
42.93	52.38	3.38
43	54	2.5
45.34	57.15	3.38
46	57	2.5
48.44	58.6	2.5
48.44	58.6	3.38
48.7	59	3
51.69	63.5	3.38
53.3	64.5	3
54.89	69.85	3.38
60.58	73.03	2.5
60.58	73.03	3.38
64.39	77.72	3.38
66.68	79.5	3.38
76.08	90.17	3.38
89.09	101.47	3.38



Material metal	Internal diameter mm	Outer diameter mm	Thickness mm	Article Max. 200 articles in the table
Mild Steel	3.05	6.35	1.22	14013940
Mild Steel	3.6	7.5	1	14014010
Mild Steel	4.12	7.26	1.22	14013941
Mild Steel	4.5	7	1	14013973
Mild Steel	4.6	9	1	14014011
Mild Steel	5.21	8.38	1.22	14013942
Mild Steel	5.6	10	1	14014012
Mild Steel	5.7	9	1	14013974
Mild Steel	5.7	10	1	14013975
Mild Steel	6.2	9.2	1	14013976
Mild Steel	6.6	11	1	14014013
Mild Steel	6.7	10	1	14013977
Mild Steel	6.7	11	1	14013978
Mild Steel	6.86	13.21	1.22	14013943
Mild Steel	6.99	13.34	1.22	14013944
Mild Steel	7	11.4	1	14014014
Mild Steel	7.3	10.2	1	14013979

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Material metal	Internal diameter	Outer diameter	Thickness	Article
	mm	mm	mm	Max. 200 articles in the table
Mild Steel	8.31	13.34	1.22	14013945
Mild Steel	8.64	14.22	1.22	14013946
Mild Steel	8.7	13	1	14013980
Mild Steel	8.7	14	1	14013981
Mild Steel	9.3	13.3	1	14013982
Mild Steel	10.35	15.88	2	14013983
Mild Steel	10.37	15.88	2.03	14013958
Mild Steel	10.7	16	1.5	14013984
Mild Steel	10.7	17	1.5	14014015
Mild Steel	10.7	18	1.5	14013985
Mild Steel	11.26	18.36	2.03	14013947
Mild Steel	11.69	19.05	2.03	14013948
Mild Steel	11.8	19.1	1.5	14013986
Mild Steel	12.7	18	1.5	14013987
Mild Steel	12.7	19	1.5	14014016
Mild Steel	12.7	20	1.5	14013988
Mild Steel	13.7	22	1.5	14013989
Mild Steel	13.74	20.57	2.03	13657035
Mild Steel	13.8	20.1	1.5	14014017
Mild Steel	14	18.7	1.5	14013990
Mild Steel	14.7	21	1.5	14014018
Mild Steel	14.7	22	1.5	14013991
Mild Steel	14.86	22.23	2.03	14013949
Mild Steel	15.83	22.23	2.03	14014033
Mild Steel	16	24	1.5	14013993
Mild Steel	16.51	25.4	2.03	14013950
Mild Steel	16.7	23	1.5	14014019
Mild Steel	16.7	24	1.5	14013992
Mild Steel	17.28	23.8	2.03	13632244
Mild Steel	17.35	22.7	1.25	14014026
Mild Steel	17.4	24	1.5	14013994
Mild Steel	18	24.7	1.5	14013995
Mild Steel	18.16	25.4	2.5	12996995
Mild Steel	18.7	26	1.5	14013996
Mild Steel	18.7	27	2	14014020
Mild Steel	19.69	26.92	2.5	14013959
Mild Steel	20.7	28	1.5	14013997
Mild Steel	21.5	28.7	2.5	14013998
Mild Steel	21.54	28.58	2.5	13606242
Mild Steel	21.65	26.7	1.25	14014027
Mild Steel	22.7	30	2	14013999
Mild Steel	22.7	31	2	14014021
Mild Steel	23.49	31.75	2.5	14013960
Mild Steel	24.26	33.27	2.5	14013951
Mild Steel	24.7	32	2	14014000
Mild Steel	26.7	35	2	14014001
Mild Steel	27	35.3	2	14014022
Mild Steel	27.05	34.93	2.5	13657033
Mild Steel	27.2	36	2	14014002
Mild Steel	27.3	32.5	1.25	14014028
Mild Steel	28.6	36	2	14014023
Mild Steel	29.33	36.58	2.5	14013952
Mild Steel	30.81	38.1	2.5	14013961

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Material metal	Internal diameter	Outer diameter	Thickness	Article
	mm	mm	mm	Max. 200 articles in the table
Mild Steel	31	39	2	14014003
Mild Steel	32.64	41.4	3.38	14013953
Mild Steel	33.7	42	2	14014004
Mild Steel	33.89	42.8	2.5	12697194
Mild Steel	33.89	42.8	3.38	14013962
Mild Steel	34.2	39.5	2	14014029
Mild Steel	34.3	43	2	14014005
Mild Steel	35.94	44.45	2.5	14014034
Mild Steel	35.94	44.45	3.38	14013954
Mild Steel	36.7	46	2	12437415
Mild Steel	38.96	47.75	3.38	14013955
Mild Steel	40	51	2.5	14014006
Mild Steel	42.7	53	3	14014007
Mild Steel	42.8	49.5	2	14014030
Mild Steel	42.93	52.38	2.5	14013963
Mild Steel	42.93	52.38	3.38	14013964
Mild Steel	43	54	2.5	14014024
Mild Steel	45.34	57.15	3.38	14013956
Mild Steel	46	57	2.5	14014025
Mild Steel	48.44	58.6	2.5	14013965
Mild Steel	48.44	58.6	3.38	14013966
Mild Steel	48.7	59	3	14014008
Mild Steel	51.69	63.5	3.38	14013957
Mild Steel	53.3	64.5	3	14014009
Mild Steel	54.89	69.85	3.38	14013967
Mild Steel	60.58	73.03	2.5	13683044
Mild Steel	60.58	73.03	3.38	14013968
Mild Steel	64.39	77.72	3.38	14013969
Mild Steel	66.68	79.5	3.38	14013970
Mild Steel	76.08	90.17	3.38	14013971
Mild Steel	89.09	101.47	3.38	14013972
Stainless steel 316	4.12	7.26	1.22	12983159
Stainless steel 316	5.21	8.38	1.22	13630943
Stainless steel 316	5.7	9	1	13603886
Stainless steel 316	6.7	10	1	13625566
Stainless steel 316	6.7	11	1	13593473
Stainless steel 316	6.86	13.21	1.22	13657036
Stainless steel 316	8.7	14	1	13630946
Stainless steel 316	10.7	16	1.5	13626249
Stainless steel 316	12.7	18	1.5	13626250
Stainless steel 316	12.7	19	1.5	13656087
Stainless steel 316	12.7	20	1.5	13613901
Stainless steel 316	13.74	20.57	2.03	13603888
Stainless steel 316	16.7	24	1.5	13630947
Stainless steel 316	17.28	23.8	2.03	13624921
Stainless steel 316	18.7	26	1.5	13683039
Stainless steel 316	20.7	28	1.5	13606245
Stainless steel 316	22.7	30	2	13624920
Stainless steel 316	24.7	32	2	13635393
Stainless steel 316	27.05	34.93	2.5	13395204
Stainless steel 316	40	51	2.5	12695182
Stainless steel 316	42.93	52.38	3.38	11181777
Stainless steel 316	53.3	64.5	3	12630265

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Material metal	Internal diameter	Outer diameter	Thickness	Article
	mm	mm	mm	Max. 200 articles in the table
Stainless steel 316	60.58	73.03	3.38	13630945
Stainless steel 316	76.08	90.17	3.38	14013675
Mild Steel	3.05	6.35	1.22	14014035
Mild Steel	4.12	7.26	1.22	14014036
Mild Steel	4.5	7	1	14014074
Mild Steel	5.21	8.38	1.22	14014037
Mild Steel	5.7	9	1	14014075
Mild Steel	5.7	10	1	14014076
Mild Steel	6.2	9.2	1	14014077
Mild Steel	6.7	10	1	14014078
Mild Steel	6.7	11	1	14014079
Mild Steel	6.86	13.21	1.22	14014038
Mild Steel	6.99	13.34	1.22	14014039
Mild Steel	7.3	10.2	1	14014080
Mild Steel	8.31	13.34	1.22	14014040
Mild Steel	8.64	14.22	1.22	14014041
Mild Steel	8.7	13	1	14014081
Mild Steel	8.7	14	1	11345789
Mild Steel	9.3	13.3	1	14014082
Mild Steel	10.35	15.88	2	14014083
Mild Steel	10.37	15.88	2.03	14014054
Mild Steel	10.7	16	1.5	11278784
Mild Steel	10.7	18	1.5	14014084
Mild Steel	11.26	18.36	2.03	14014042
Mild Steel	11.69	19.05	2.03	14014043
Mild Steel	11.8	19.1	1.5	14014085
Mild Steel	12.7	18	1.5	14014086
Mild Steel	12.7	20	1.5	14014087
Mild Steel	13.7	22	1.5	14014088
Mild Steel	13.74	20.57	2.03	14014055
Mild Steel	14	18.7	1.5	14014089
Mild Steel	14.7	22	1.5	14014090
Mild Steel	14.86	22.23	2.03	14014044
Mild Steel	16	24	1.5	14014092
Mild Steel	16.51	25.4	2.03	14014045
Mild Steel	16.7	24	1.5	14014091
Mild Steel	17.28	23.8	2.03	14014056
Mild Steel	17.4	24	1.5	14014093
Mild Steel	18	24.7	1.5	14014094
Mild Steel	18.16	25.4	2.5	14014046
Mild Steel	18.7	26	1.5	14014095
Mild Steel	19.69	26.92	2.5	14014057
Mild Steel	20.7	28	1.5	14014096
Mild Steel	21.5	28.7	2.5	14014097
Mild Steel	21.54	28.58	2.5	14014058
Mild Steel	22.7	30	2	14014098
Mild Steel	23.49	31.75	2.5	14014059
Mild Steel	24.26	33.27	2.5	14014047
Mild Steel	27.05	34.93	2.5	14014060
Mild Steel	29.33	36.58	2.5	14014048
Mild Steel	30.81	38.1	2.5	14014061
Mild Steel	32.64	41.4	3.38	14014049
Mild Steel	33.89	42.8	2.5	14014062

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Material metal	Internal diameter	Outer diameter	Thickness	Article
	mm	mm	mm	Max. 200 articles in the table
Mild Steel	33.89	42.8	3.38	14014063
Mild Steel	35.94	44.45	3.38	14014050
Mild Steel	38.96	47.75	3.38	14014051
Mild Steel	42.93	52.38	2.5	14014064
Mild Steel	42.93	52.38	3.38	14014065
Mild Steel	45.34	57.15	3.38	14014052
Mild Steel	48.44	58.6	2.5	14014066
Mild Steel	48.44	58.6	3.38	14014067
Mild Steel	51.69	63.5	3.38	14014053
Mild Steel	54.89	69.85	3.38	14014068
Mild Steel	60.58	73.03	2.5	14014069
Mild Steel	60.58	73.03	3.38	14014070
Mild Steel	64.39	77.72	3.38	14014071
Mild Steel	66.68	79.5	3.38	14014072
Mild Steel	76.08	90.17	3.38	14014073
Stainless steel 316	10.37	15.88	2.03	11008757
Stainless steel 316	13.74	20.57	2.03	13596070
Stainless steel 316	17.28	23.8	2.03	13603889
Stainless steel 316	21.54	28.58	2.5	13603887
Stainless steel 316	27.05	34.93	2.5	11278792
Stainless steel 316	33.89	42.8	2.5	13625564
Stainless steel 316	42.93	52.38	3.38	13603891
Stainless steel 316	48.44	58.6	3.38	13616398

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