



ERIKS Bonded seal NBR Compound 366292

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: NBR

Compound: 366292

Temperature range: -30 / 120

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

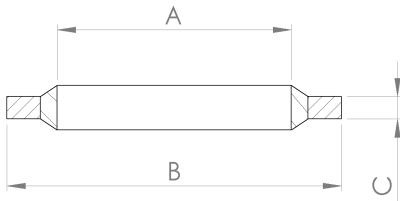
- Very wide application in general industry. Particularly in fuel, HVA, hydraulic, food and beverage, heating and oil and gas applications.
- For use in high pressure environments where copper rings cannot be used
- Reliable static sealing due to configuration with metal ring as compression stop, therefore 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:

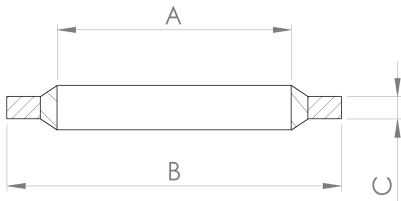
A	B	C
mm	mm	mm
3.05	6.35	1.22
3.6	7.5	1
4.12	7.26	1.22
4.5	7	1
4.6	9	1
5.21	8.38	1.22
5.6	10	1
5.7	9	1
5.7	10	1
6.2	9.2	1
6.6	11	1
6.7	10	1
6.7	11	1
6.86	13.21	1.22
6.99	13.34	1.22
7	11.4	1
7.3	10.2	1
8.31	13.34	1.22
8.64	14.22	1.22
8.7	13	1
8.7	14	1
8.7	16	1
9.3	13.3	1
10.35	15.88	2
10.37	15.88	2.03
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



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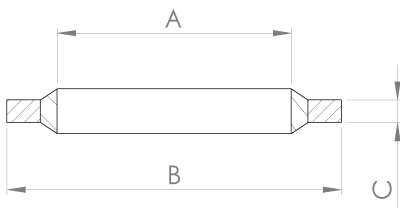
Size table:

A	B	C
14.7	21	1.5
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	30	3
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



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Size table:



A	B	C
34.2	39.5	2
34.3	43	2
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	Outer diameter	Thickness	Article <small>Max. 200 articles in the table</small>
	mm	mm	mm	
Mild Steel	3.05	6.35	1.22	11276386
Mild Steel	3.6	7.5	1	14013694
Mild Steel	4.12	7.26	1.22	13603880
Mild Steel	4.5	7	1	14013687
Mild Steel	4.6	9	1	14013695
Mild Steel	5.21	8.38	1.22	13030735
Mild Steel	5.6	10	1	14013696
Mild Steel	5.7	9	1	13606409
Mild Steel	5.7	10	1	13584899
Mild Steel	6.2	9.2	1	13626244
Mild Steel	6.6	11	1	14013697
Mild Steel	6.7	10	1	13626241
Mild Steel	6.7	11	1	13606239
Mild Steel	6.86	13.21	1.22	13598907

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Material metal	Internal diameter	Outer diameter	Thickness	Article <small>Max. 200 articles in the table</small>
	mm	mm	mm	
Mild Steel	6.99	13.34	1.22	10019879
Mild Steel	7	11.4	1	14013698
Mild Steel	7.3	10.2	1	14013688
Mild Steel	8.31	13.34	1.22	14013673
Mild Steel	8.64	14.22	1.22	13598908
Mild Steel	8.7	13	1	10019906
Mild Steel	8.7	14	1	10019907
Mild Steel	8.7	16	1	10019908
Mild Steel	9.3	13.3	1	13606240
Mild Steel	10.35	15.88	2	13586743
Mild Steel	10.37	15.88	2.03	12100231
Mild Steel	10.7	16	1.5	13606228
Mild Steel	10.7	17	1.5	13598902
Mild Steel	10.7	18	1.5	11289566
Mild Steel	11.26	18.36	2.03	13624922
Mild Steel	11.69	19.05	2.03	14013674
Mild Steel	11.8	19.1	1.5	13626242
Mild Steel	12.7	18	1.5	13624919
Mild Steel	12.7	19	1.5	14013699
Mild Steel	12.7	20	1.5	10019915
Mild Steel	13.7	22	1.5	13586742
Mild Steel	13.74	20.57	2.03	13584896
Mild Steel	13.8	20.1	1.5	13615727
Mild Steel	14	18.7	1.5	13626245
Mild Steel	14.7	21	1.5	14013700
Mild Steel	14.7	22	1.5	13603881
Mild Steel	14.86	22.23	2.03	13606241
Mild Steel	15.83	22.23	2.03	14013714
Mild Steel	16	24	1.5	14013689
Mild Steel	16.51	25.4	2.03	14013676
Mild Steel	16.7	23	1.5	13656091
Mild Steel	16.7	24	1.5	13603877
Mild Steel	17.28	23.8	2.03	13603879
Mild Steel	17.35	22.7	1.25	14013707
Mild Steel	17.4	24	1.5	13584900
Mild Steel	18	24.7	1.5	14013690
Mild Steel	18.16	25.4	2.5	13598909
Mild Steel	18.7	26	1.5	13606244
Mild Steel	18.7	27	2	14013701
Mild Steel	19.69	26.92	2.5	11399668
Mild Steel	20.7	28	1.5	13598576
Mild Steel	21.5	28.7	2.5	13624916
Mild Steel	21.54	28.58	2.5	13586740
Mild Steel	21.65	26.7	1.25	14013708
Mild Steel	22.7	30	2	13624918
Mild Steel	22.7	30	3	14013691
Mild Steel	22.7	31	2	14013702
Mild Steel	23.49	31.75	2.5	11399669
Mild Steel	24.26	33.27	2.5	14013677
Mild Steel	24.7	32	2	13584902
Mild Steel	26.7	35	2	13626243
Mild Steel	27	35.3	2	14013703
Mild Steel	27.05	34.93	2.5	11399670

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Material metal	Internal diameter	Outer diameter	Thickness	Article <small>Max. 200 articles in the table</small>
	mm	mm	mm	
Mild Steel	27.2	36	2	10019927
Mild Steel	27.3	32.5	1.25	14013709
Mild Steel	28.6	36	2	14013704
Mild Steel	29.33	36.58	2.5	11399671
Mild Steel	30.81	38.1	2.5	13603882
Mild Steel	31	39	2	13606238
Mild Steel	32.64	41.4	3.38	11399672
Mild Steel	33.7	42	2	14013692
Mild Steel	33.89	42.8	2.5	13624943
Mild Steel	33.89	42.8	3.38	14013680
Mild Steel	34.2	39.5	2	14013710
Mild Steel	34.3	43	2	10019929
Mild Steel	35.94	44.45	2.5	14013715
Mild Steel	35.94	44.45	3.38	14013678
Mild Steel	36.7	46	2	10019930
Mild Steel	38.96	47.75	3.38	11399673
Mild Steel	40	51	2.5	11278926
Mild Steel	42.7	53	3	14013693
Mild Steel	42.8	49.5	2	14013711
Mild Steel	42.93	52.38	2.5	13584897
Mild Steel	42.93	52.38	3.38	14013681
Mild Steel	43	54	2.5	14013705
Mild Steel	45.34	57.15	3.38	14013679
Mild Steel	46	57	2.5	14013706
Mild Steel	48.44	58.6	2.5	13598905
Mild Steel	48.44	58.6	3.38	14013682
Mild Steel	48.7	59	3	10019932
Mild Steel	51.69	63.5	3.38	13626246
Mild Steel	53.3	64.5	3	13689909
Mild Steel	54.89	69.85	3.38	13603883
Mild Steel	60.58	73.03	2.5	14013683
Mild Steel	60.58	73.03	3.38	10019900
Mild Steel	64.39	77.72	3.38	13689910
Mild Steel	66.68	79.5	3.38	14013684
Mild Steel	76.08	90.17	3.38	14013685
Mild Steel	89.09	101.47	3.38	14013686
Stainless steel 316	3.05	6.35	1.22	12528394
Stainless steel 316	4.12	7.26	1.22	13689907
Stainless steel 316	4.5	7	1	13615726
Stainless steel 316	5.21	8.38	1.22	13598906
Stainless steel 316	6.7	10	1	13586744
Stainless steel 316	6.7	11	1	13613898
Stainless steel 316	10.37	15.88	2.03	13676640
Stainless steel 316	12.7	18	1.5	11401622
Stainless steel 316	12.7	19	1.5	13662768
Stainless steel 316	13.7	22	1.5	12201887
Stainless steel 316	13.74	20.57	2.03	13626247
Stainless steel 316	14	18.7	1.5	12616687
Stainless steel 316	16.7	24	1.5	13585050
Stainless steel 316	17.28	23.8	2.03	13585051
Stainless steel 316	21.54	28.58	2.5	13606243
Stainless steel 316	22.7	30	2	12718069
Stainless steel 316	23.49	31.75	2.5	13689908

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Material metal	Internal diameter	Outer diameter	Thickness	Article <small>Max. 200 articles in the table</small>
	mm	mm	mm	
Stainless steel 316	24.7	32	2	13575297
Stainless steel 316	27.05	34.93	2.5	12718074
Stainless steel 316	27.2	36	2	13683075
Stainless steel 316	30.81	38.1	2.5	12092958
Stainless steel 316	31	39	2	13683074
Stainless steel 316	33.89	42.8	2.5	13603890
Stainless steel 316	42.93	52.38	2.5	13683080
Stainless steel 316	48.7	59	3	13630944
Stainless steel 316	66.68	79.5	3.38	13683077
Mild Steel	3.05	6.35	1.22	14013716
Mild Steel	4.12	7.26	1.22	13591909
Mild Steel	4.5	7	1	13603884
Mild Steel	5.21	8.38	1.22	13591908
Mild Steel	5.7	10	1	12694113
Mild Steel	6.6	11	1	12718062
Mild Steel	6.86	13.21	1.22	14013717
Mild Steel	6.99	13.34	1.22	13030741
Mild Steel	8.31	13.34	1.22	14013718
Mild Steel	8.64	14.22	1.22	14013719
Mild Steel	8.7	13	1	12694114
Mild Steel	8.7	14	1	10019870
Mild Steel	10.37	15.88	2.03	11278740
Mild Steel	10.7	16	1.5	11278785
Mild Steel	10.7	18	1.5	13630948
Mild Steel	11.26	18.36	2.03	13030742
Mild Steel	11.69	19.05	2.03	13030743
Mild Steel	12.7	18	1.5	11118756
Mild Steel	12.7	19	1.5	11278786
Mild Steel	12.7	20	1.5	12718059
Mild Steel	13.74	20.57	2.03	11252247
Mild Steel	14	18.7	1.5	13608343
Mild Steel	14.7	22	1.5	10019860
Mild Steel	14.86	22.23	2.03	14013720
Mild Steel	15.83	22.23	2.03	13030744
Mild Steel	16.51	25.4	2.03	12694106
Mild Steel	16.7	24	1.5	12718058
Mild Steel	17.28	23.8	2.03	11252248
Mild Steel	18.16	25.4	2.5	12718064
Mild Steel	18.7	26	1.5	12718057
Mild Steel	19.69	26.92	2.5	13689906
Mild Steel	20.7	28	1.5	12718060
Mild Steel	21.54	28.58	2.5	11252249
Mild Steel	22.7	30	2	11268641
Mild Steel	23.49	31.75	2.5	12718061
Mild Steel	24.26	33.27	2.5	13030745
Mild Steel	24.7	32	2	12718063
Mild Steel	26.7	35	2	12718366
Mild Steel	27.05	34.93	2.5	11252250
Mild Steel	27.2	36	2	12972814
Mild Steel	28.6	36	2	12718065
Mild Steel	29.33	36.58	2.5	14013721
Mild Steel	30.81	38.1	2.5	12718066
Mild Steel	31	39	2	12694108

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Material metal	Internal diameter	Outer diameter	Thickness	Article
	mm	mm	mm	Max. 200 articles in the table
Mild Steel	32.64	41.4	3.38	14013722
Mild Steel	33.7	42	2	12694110
Mild Steel	33.89	42.8	2.5	13600328
Mild Steel	33.89	42.8	3.38	11252251
Mild Steel	35.94	44.45	3.38	14013723
Mild Steel	36.7	46	2	12694111
Mild Steel	38.96	47.75	3.38	14013724
Mild Steel	42.7	53	3	13016824
Mild Steel	42.93	52.38	2.5	14013727
Mild Steel	42.93	52.38	3.38	11252252
Mild Steel	45.34	57.15	3.38	14013725
Mild Steel	48.44	58.6	2.5	13600327
Mild Steel	48.44	58.6	3.38	11035422
Mild Steel	51.69	63.5	3.38	14013726
Mild Steel	60.58	73.03	2.5	12718067
Stainless steel 316	10.37	15.88	2.03	11269314
Stainless steel 316	10.7	16	1.5	12718071
Stainless steel 316	12.7	18	1.5	12718072
Stainless steel 316	13.74	20.57	2.03	11278787
Stainless steel 316	14.7	22	1.5	12696485
Stainless steel 316	16.7	24	1.5	12718068
Stainless steel 316	18.7	26	1.5	12718070
Stainless steel 316	21.54	28.58	2.5	11278790
Stainless steel 316	26.7	35	2	12696486
Stainless steel 316	27.05	34.93	2.5	11278794
Stainless steel 316	27.2	36	2	12718073

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