



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

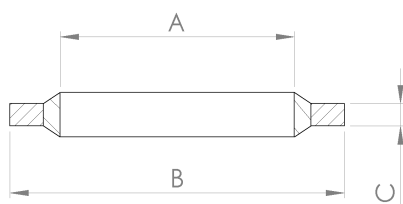
- Very wide application in general industry. Particularly in fuel, HVA, hydraulic, food and beverage, heating and oil and gas applications.
- For use in high pressure environments where copper rings cannot be used
- Reliable static sealing due to configuration with metal ring as compression stop, therefore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

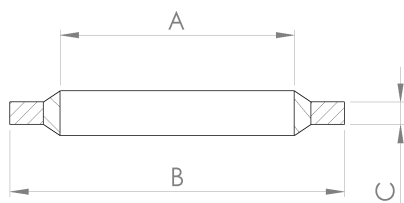
A mm	B mm	C mm
4.12	7.26	1.22
5.21	8.38	1.22
5.7	10	1
6.7	10	1
6.99	13.34	1.22
8.7	13	1
8.7	14	1
8.7	16	1
9.3	13.3	1
10.35	15.88	2
10.7	16	1.5
10.7	18	1.5
12.7	20	1.5
13.7	22	1.5
13.74	20.57	2.03
14	18.7	1.5
14.7	22	1.5
16.7	24	1.5
17.28	23.8	2.03
18	24.7	1.5
19.69	26.92	2.5
20.7	28	1.5
21.5	28.7	2.5
21.54	28.58	2.5
22.7	30	2
26.7	35	2
27.05	34.93	2.5
27.2	36	2
31	39	2
32.64	41.4	3.38
33.89	42.8	2.5
33.89	42.8	3.38
34.3	43	2
36.7	46	2
38.96	47.75	3.38
40	51	2.5
42.93	52.38	2.5
48.44	58.6	3.38



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Size table:

A	B	C
48.7	59	3
60.58	73.03	3.38
6.7	11	1
30.81	38.1	2.5
4.5	7	1
5.7	9	1
10.37	15.88	2.03
11.69	19.05	2.03
14.86	22.23	2.03
18.7	26	1.5
23.49	31.75	2.5
42.93	52.38	3.38
46	57	2.5
48.44	58.6	2.5
53.3	64.5	3
60.58	73.03	2.5
64.39	77.72	3.38
76.08	90.17	3.4
24.7	32	2
43	54	2.5



Material metal	Internal diameter mm	Outer diameter mm	Thickness mm	Article
Mild Steel	4.12	7.26	1.22	13603880
Mild Steel	5.21	8.38	1.22	13030735
Mild Steel	5.7	10	1	13584899
Mild Steel	6.7	10	1	13626241
Mild Steel	6.99	13.34	1.22	10019879
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	10.7	16	1.5	13606228
Mild Steel	10.7	18	1.5	11289566
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	14	18.7	1.5	13626245
Mild Steel	14.7	22	1.5	13603881
Mild Steel	16.7	24	1.5	13603877
Mild Steel	17.28	23.8	2.03	13603879
Mild Steel	18	24.7	1.5	14013690
Mild Steel	19.69	26.92	2.5	11399668
Mild Steel	20.7	28	1.5	13598576

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Material metal	Internal diameter	Outer diameter	Thickness	Article
	mm	mm	mm	
Mild Steel	21.5	28.7	2.5	13624916
Mild Steel	21.54	28.58	2.5	13586740
Mild Steel	22.7	30	2	13624918
Mild Steel	26.7	35	2	13626243
Mild Steel	27.05	34.93	2.5	11399670
Mild Steel	27.2	36	2	10019927
Mild Steel	31	39	2	13606238
Mild Steel	32.64	41.4	3.38	11399672
Mild Steel	33.89	42.8	2.5	13624943
Mild Steel	33.89	42.8	3.38	14013680
Mild Steel	34.3	43	2	10019929
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	42.93	52.38	2.5	13584897
Mild Steel	48.44	58.6	3.38	14013682
Mild Steel	48.7	59	3	10019932
Mild Steel	60.58	73.03	3.38	10019900
Stainless steel 316	6.7	11	1	13613898
Stainless steel 316	30.81	38.1	2.5	12092958
Mild Steel	4.5	7	1	13603884
Mild Steel	5.7	9	1	14013733
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	11.69	19.05	2.03	13030743
Mild Steel	13.74	20.57	2.03	11252247
Mild Steel	14.7	22	1.5	10019860
Mild Steel	14.86	22.23	2.03	14013720
Mild Steel	16.7	24	1.5	12718058
Mild Steel	17.28	23.8	2.03	11252248
Mild Steel	18.7	26	1.5	12718057
Mild Steel	19.69	26.92	2.5	13689906
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	26.7	35	2	12718366
Mild Steel	27.05	34.93	2.5	11252250
Mild Steel	33.89	42.8	2.5	13600328
Mild Steel	33.89	42.8	3.38	11252251
Mild Steel	38.96	47.75	3.38	14013724
Mild Steel	42.93	52.38	2.5	14013727
Mild Steel	42.93	52.38	3.38	11252252
Mild Steel	46	57	2.5	14013763
Mild Steel	48.44	58.6	2.5	13600327
Mild Steel	48.44	58.6	3.38	11035422
Mild Steel	53.3	64.5	3	14013750
Mild Steel	60.58	73.03	2.5	12718067
Mild Steel	64.39	77.72	3.38	14013730
Mild Steel	76.08	90.17	3.4	11334110
Stainless steel 316	8.7	13	1	14013891
Stainless steel 316	10.37	15.88	2.03	11269314
Stainless steel 316	10.7	16	1.5	12718071

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Material metal	Internal diameter	Outer diameter	Thickness	Article
	mm	mm	mm	
Stainless steel 316	11.69	19.05	2.03	14013857
Stainless steel 316	13.74	20.57	2.03	11278787
Stainless steel 316	14.86	22.23	2.03	14013858
Stainless steel 316	20.7	28	1.5	14013903
Stainless steel 316	21.54	28.58	2.5	11278790
Stainless steel 316	22.7	30	2	14013905
Stainless steel 316	23.49	31.75	2.5	14013870
Stainless steel 316	24.7	32	2	14013906
Stainless steel 316	26.7	35	2	12696486
Stainless steel 316	27.05	34.93	2.5	11278794
Stainless steel 316	33.89	42.8	2.5	14013872
Stainless steel 316	36.7	46	2	14013910
Stainless steel 316	42.93	52.38	2.5	14013874
Stainless steel 316	43	54	2.5	14013929
Stainless steel 316	48.44	58.6	2.5	14013876
Stainless steel 316	53.3	64.5	3	14013914
Stainless steel 316	60.58	73.03	2.5	14013879
Stainless steel 316	64.39	77.72	3.38	14013881

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