



HUTCHINSON Bonded seal FKM Compound 7DF2075

The 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: 7DF2075

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

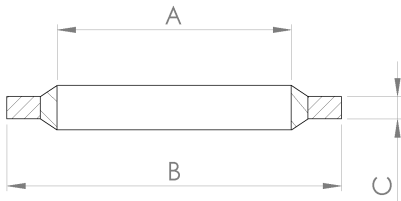
- Very wide application in general industry. Particularly in fuel, HVA, hydraulic, food and beverage, heating and oil and gas applications.
- For use in high pressure environments where copper rings cannot be used
- Reliable static sealing due to configuration with metal ring as compression stop, therefore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

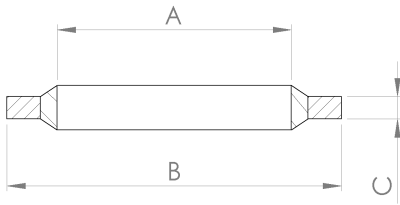
A	B	C
mm	mm	mm
3.05	6.35	1.22
6.7	10	1
8.31	13.34	1.22
8.7	14	1
10.35	15.88	2
10.7	17	1.5
11.69	19.05	2.03
12.7	19	1.5
12.7	20	1.5
13.74	20.57	2.03
14.7	21	1.5
17.28	23.8	2.03
17.4	24	1.5
18.7	27	2
20.7	28	1.5
21.54	28.58	2.5
22.7	31	2
24.7	32	2
27.05	34.93	2.5
31	39	2
32.64	41.4	3.38
33.89	42.8	2.5
60.58	73.03	2.5
3.6	7.5	1
4.12	7.26	1.22
4.5	7	1
5.21	8.38	1.22
5.7	9	1
5.7	10	1
6.7	11	1
6.86	13.21	1.22
8.7	13	1
10.37	15.88	2.03
10.7	16	1.5
10.7	18	1.5
12.7	18	1.5
14	18.7	1.5
14.7	22	1.5



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Size table:

A	B	C
14.86	22.23	2.03
16.7	24	1.5
18.7	26	1.5
22.7	30	2
22.7	30	3
23.49	31.75	2.5
27.2	36	2
30.81	38.1	2.5
33.7	42	2
33.89	42.8	3.38
34.3	43	2
38.96	47.75	3.38
42.93	52.38	3.38
43	54	2.5
48.44	58.6	3.38
48.7	59	3
54.89	69.85	3.38
66.68	79.5	3.38
5.6	10	1
6.6	11	1
11.26	18.36	2.03
11.8	19.1	1.5
16.51	25.4	2.03
16.7	23	1.5
18.16	25.4	2.5
19.69	26.92	2.5
24.26	33.27	2.5
26.7	35	2
35.94	44.45	2.5
42.93	52.38	2.5
89.09	101.47	3.38



Material metal	Internal diameter mm	Outer diameter mm	Thickness mm	Article
Mild Steel	3.05	6.35	1.22	11287254
Mild Steel	6.7	10	1	11415274
Mild Steel	8.31	13.34	1.22	12573340
Mild Steel	8.7	14	1	11123474
Mild Steel	10.35	15.88	2	11087092
Mild Steel	10.7	17	1.5	10019850
Mild Steel	11.69	19.05	2.03	11374535
Mild Steel	12.7	19	1.5	10019851

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Material metal	Internal diameter	Outer diameter	Thickness	Article
	mm	mm	mm	
Mild Steel	12.7	20	1.5	11276260
Mild Steel	13.74	20.57	2.03	10019846
Mild Steel	14.7	21	1.5	10019852
Mild Steel	17.28	23.8	2.03	10019847
Mild Steel	17.4	24	1.5	11094809
Mild Steel	18.7	27	2	10019853
Mild Steel	20.7	28	1.5	12631210
Mild Steel	21.54	28.58	2.5	10019848
Mild Steel	22.7	31	2	10019854
Mild Steel	24.7	32	2	11122826
Mild Steel	27.05	34.93	2.5	10019849
Mild Steel	31	39	2	11145820
Mild Steel	32.64	41.4	3.38	11093201
Mild Steel	33.89	42.8	2.5	11208675
Mild Steel	60.58	73.03	2.5	11172748
Stainless steel 316	3.05	6.35	1.22	12489960
Stainless steel 316	3.6	7.5	1	14015305
Stainless steel 316	4.12	7.26	1.22	14015308
Stainless steel 316	4.5	7	1	11145885
Stainless steel 316	5.21	8.38	1.22	11144651
Stainless steel 316	5.7	9	1	10019835
Stainless steel 316	5.7	10	1	11140172
Stainless steel 316	6.7	10	1	11656582
Stainless steel 316	6.7	11	1	10019836
Stainless steel 316	6.86	13.21	1.22	12631059
Stainless steel 316	8.7	13	1	11932798
Stainless steel 316	8.7	14	1	10019837
Stainless steel 316	10.35	15.88	2	13313817
Stainless steel 316	10.37	15.88	2.03	11546705
Stainless steel 316	10.7	16	1.5	10019838
Stainless steel 316	10.7	17	1.5	11077967
Stainless steel 316	10.7	18	1.5	14015289
Stainless steel 316	12.7	18	1.5	10019839
Stainless steel 316	12.7	19	1.5	11546847
Stainless steel 316	12.7	20	1.5	10019840
Stainless steel 316	13.74	20.57	2.03	10019833
Stainless steel 316	14	18.7	1.5	11932801
Stainless steel 316	14.7	22	1.5	11139215
Stainless steel 316	14.86	22.23	2.03	13274283
Stainless steel 316	16.7	24	1.5	10019841
Stainless steel 316	17.28	23.8	2.03	10019834
Stainless steel 316	18.7	26	1.5	10019842
Stainless steel 316	20.7	28	1.5	10019843
Stainless steel 316	21.54	28.58	2.5	11398291
Stainless steel 316	22.7	30	2	10019844
Stainless steel 316	22.7	30	3	11320294
Stainless steel 316	23.49	31.75	2.5	11398293
Stainless steel 316	24.7	32	2	12323521
Stainless steel 316	27.05	34.93	2.5	11071019
Stainless steel 316	27.2	36	2	12302653
Stainless steel 316	30.81	38.1	2.5	11398297
Stainless steel 316	33.7	42	2	13378884
Stainless steel 316	33.89	42.8	3.38	11398298

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Material metal	Internal diameter	Outer diameter	Thickness	Article
	mm	mm	mm	
Stainless steel 316	34.3	43	2	11181776
Stainless steel 316	38.96	47.75	3.38	11593421
Stainless steel 316	42.93	52.38	3.38	14015287
Stainless steel 316	43	54	2.5	11063982
Stainless steel 316	48.44	58.6	3.38	11398300
Stainless steel 316	48.7	59	3	13431300
Stainless steel 316	54.89	69.85	3.38	11398301
Stainless steel 316	60.58	73.03	2.5	12150166
Mild Steel	5.7	10	1	11415273
Mild Steel	6.7	10	1	11272067
Mild Steel	66.68	79.5	3.38	11241466
Stainless steel 316	5.6	10	1	14015310
Stainless steel 316	5.7	9	1	14015311
Stainless steel 316	6.6	11	1	14015312
Stainless steel 316	6.7	10	1	14015313
Stainless steel 316	6.86	13.21	1.22	14015314
Stainless steel 316	8.31	13.34	1.22	14015315
Stainless steel 316	8.7	13	1	14015316
Stainless steel 316	8.7	14	1	14015317
Stainless steel 316	10.37	15.88	2.03	11287263
Stainless steel 316	10.7	16	1.5	14015288
Stainless steel 316	11.26	18.36	2.03	14015290
Stainless steel 316	11.8	19.1	1.5	14015291
Stainless steel 316	12.7	18	1.5	12748637
Stainless steel 316	12.7	19	1.5	14015292
Stainless steel 316	13.74	20.57	2.03	11178633
Stainless steel 316	14.7	22	1.5	14015293
Stainless steel 316	14.86	22.23	2.03	14015294
Stainless steel 316	16.51	25.4	2.03	14015295
Stainless steel 316	16.7	23	1.5	14015296
Stainless steel 316	16.7	24	1.5	14015297
Stainless steel 316	17.28	23.8	2.03	11091436
Stainless steel 316	18.16	25.4	2.5	14015298
Stainless steel 316	18.7	26	1.5	14015299
Stainless steel 316	19.69	26.92	2.5	14015300
Stainless steel 316	21.54	28.58	2.5	11178634
Stainless steel 316	22.7	30	2	14015301
Stainless steel 316	23.49	31.75	2.5	11091433
Stainless steel 316	24.26	33.27	2.5	14015302
Stainless steel 316	24.7	32	2	14015303
Stainless steel 316	26.7	35	2	14015304
Stainless steel 316	27.05	34.93	2.5	12139618
Stainless steel 316	30.81	38.1	2.5	14015306
Stainless steel 316	33.89	42.8	2.5	11075778
Stainless steel 316	35.94	44.45	2.5	14015307
Stainless steel 316	42.93	52.38	2.5	12495431
Stainless steel 316	43	54	2.5	14015309
Stainless steel 316	48.44	58.6	3.38	11386503
Stainless steel 316	89.09	101.47	3.38	12495432

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