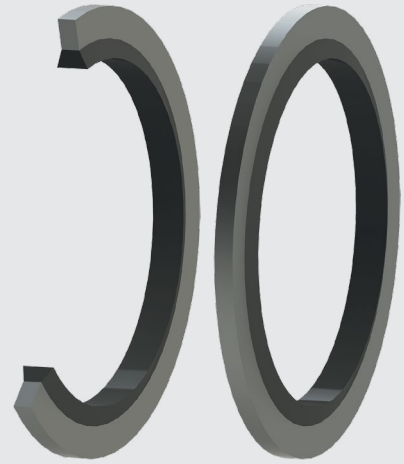


STATIC SEALS BECA 114



DESCRIPTION

The BECA 114 is a BS ring composed of a metal ring with a rectangular cross-section, to the inside of which a rubber ring with a trapezoidal cross-section has been bonded and vulcanised.

ADVANTAGES

- Economic solution
- Precise positioning of the ring
- Can be disassembled and reused
- Reliable sealing at both high and low pressures
- Reduced assembly time

APPLICATIONS

- Sealing under the screw heads and bolts
- General mechanics
- Motors
- Pipe fittings
- Valves

MATERIALS

Rubber

- NBR 70 and 90 Shore A
- FKM 70 and 90 Shore A
- EPDM 70 and 90 Shore A

Metal insert

- Cadmium-plated steel
- Stainless steel

Other grades of materials are available. Please contact our experts.

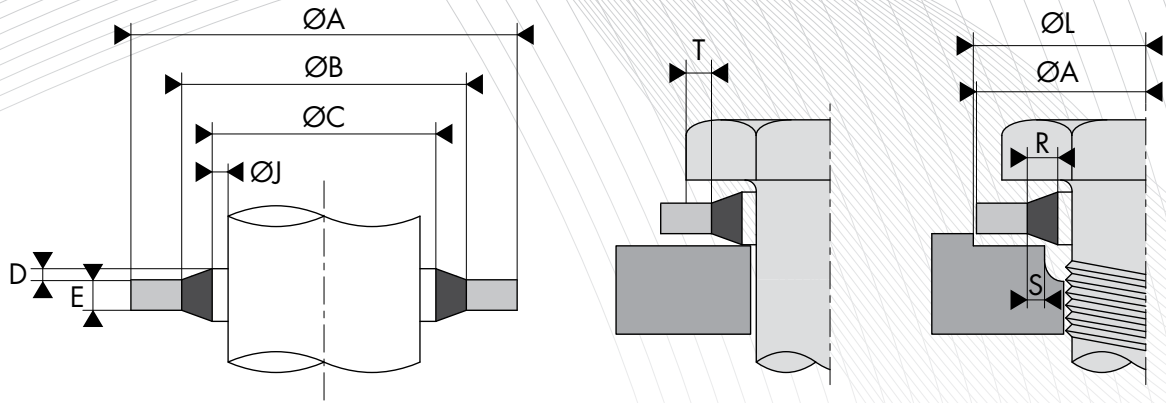
TECHNICAL DATA

Temperature	-45°C / +200°C
Media	Mineral hydraulic oils Water Water/oil emulsions gas
Breaking resistance	540 MPa

The figures above indicate the maximum values and may not be cumulated. They may be developed, depending on the materials used.

SURFACE ROUGHNESS

Roughness	Contact surface area
Ra	≤3.0 µm
Rmax	≤15.0 µm



COUNTERBORE L

Metric	Counterbore ØL (mm)
M3 at M8.5	ØA +0.20
M9 at M33	ØA +0.40
M34 at M60	ØA +0.60

The overlapping of the metal ring (T) must be at least 0.70 mm and the overlapping of the rubber ring (S) must be at least 75% ($S \geq 0,75 R$).

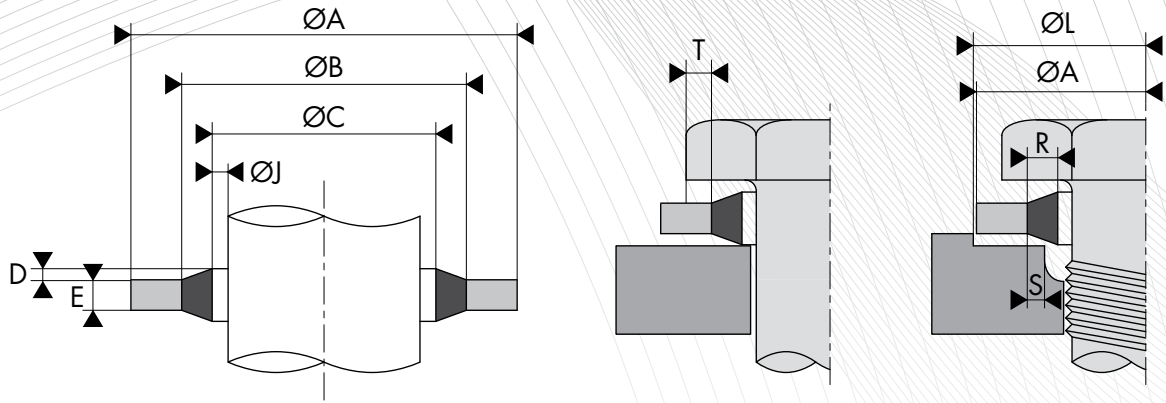
RADIAL GAP J

The non-self-centred BECA 114 BS ring is not composed of a centring lip. The following recommendations allow for a good positioning.

Metric	Max. gap of the radius J (mm)
M3 at M8.5	0.30
M9 at M33	0.35
M34 at M60	0.50

TIGHTENING TORQUE

Metric	Dimensions		Torque (Nm)	
	BSW	BSP	1 ring	2 rings
up to M8	5/16	-	5.3	8.5
M10	3/8	1/8	7.1	11.4
M11	7/16	-	11.8	15.3
M12	1/2	1/4	15.8	20.5
M14	9/16	-	22.6	29.4
M16	5/8	3/8	30.5	39.7
M18	3/4	-	40.7	52.9
M20	13/16	1/2	56.5	67.8
M22	7/8	5/8	67.8	74.6
M24	1.0	3/4	73.4	73.4
from M27	1.1/16	-	79.0	79.0



DIMENSIONS

Part number	Standard	BS ring dimensions					Min. breaking pressure (bar)
		ØA +0.13/0	ØB ±0.13	ØC ±0.13	ØD +0.25/0	ØE ±0.13	
114.1E001	BSW 6BA	6.35	4.09	3.05	0.20 / 0.38	1.22	2150
114.1E201	M3.5	7.20	5.20	4.10	0.30	1.00	1600
114.1E002	BSW 4BA	7.26	5.26	4.12	0.20 / 0.38	1.22	1570
114.1E301	M3	7.50	5.00	3.60	0.30	1.00	1980
114.1E003	BSW 2BA	8.38	6.35	5.21	0.20 / 0.38	1.22	1375
114.1E302	M4	9.00	6.00	4.60	0.30	1.00	2000
114.1E205	M5.5	9.20	7.20	6.20	0.30	1.00	1220
114.1E210	M6.7	10.20	8.60	7.30	0.30	1.00	850
114.1E209	M6.5	12.00	8.81	7.10	0.30	1.00	1560
114.1E020	BSW 3/8 - BSP 1/8	15.88	11.48	10.37	0.25/0.51	2.03	1480
114.1E009	BSW 7/16	19.05	13.08	11.69	0.25/0.51	2.03	1890
114.1E224	M13	20.00	15.40	13.70	0.40	1.50	1340
114.1E315	M13	20.10	15.20	13.80	0.40	1.50	1430
114.1E225	M13	22.00	15.40	13.70	0.40	1.50	1810
114.1E022	BSW 0.60	22.23	17.30	15.83	0.25/0.51	2.03	1290
114.1E228	M15	22.70	17.78	16.00	0.40	1.50	1260
114.1E319	M16.5	23.90	18.70	17.20	0.30	2.10	1970
114.1E231	M17.5	24.70	20.10	18.00	0.40	1.50	1070
114.1E322	M20.63	28.60	23.00	21.50	0.40	2.50	1130
114.1E234	M21	28.70	23.30	21.50	0.40	2.50	1080
114.1E323	M21	30.00	23.40	21.70	0.30	2.00	1290
114.1E325	M23	32.00	25.40	23.70	0.40	2.00	965
114.1E240	M27	36.00	29.00	27.20	0.40	2.00	1130
114.1E328	M27	36.00	29.40	27.70	0.40	2.00	1060
114.1E329	M28	36.00	30.30	28.60	0.40	2.00	720
114.1E014	BSW 1 1/6	36.58	30.86	29.33	0.25/0.51	2.34	880
114.1E241	M28	37.00	30.40	28.70	0.40	2.00	1030
114.1E330	M28.5	37.50	30.90	29.20	0.40	2.00	810
114.1E331	M30	39.00	32.40	30.70	0.40	2.00	970
114.1E242	M30	39.00	33.00	31.00	0.40	2.00	870
114.1E332	M33	42.00	35.40	33.70	0.40	2.00	900
114.1E243	M33	42.00	35.80	33.70	0.40	2.00	840
114.1E244	M33	43.00	20.10	18.00	0.40	2.00	1070
114.1E016	BSW 1 3/8	44.45	38.99	35.94	0.25/0.51	3.25	680
114.1E246	M39	51.00	41.90	40.00	0.40	2.50	1030
114.1E334	M39	51.00	42.60	40.00	0.40	2.50	950
114.1E336	M45	57.00	48.60	46.00	0.40	2.50	860
114.1E248	M48	59.00	50.80	48.70	0.40	3.00	790
114.1E337	M48	60.00	51.60	49.00	0.40	2.50	790
114.1E249	M51	60.00	54.10	52.00	0.40	3.00	540
114.1E019	BSW 2	63.50	54.74	51.69	0.25/0.51	3.25	780
114.1E250	M52	64.50	56.40	53.30	0.40	3.00	710
114.1E251	M60	73.00	63.00	60.70	0.40	3.00	780
114.1E038	BSP 2 1/4	79.50	69.98	66.68	0.25/0.51	3.25	670
114.1E252	M68	79.50	72.10	68.60	0.40	3.50	510
114.1E253	M75	90.30	79.10	76.08	0.40	3.38	700
114.1E039	BSP 2 1/2	90.30	79.38	76.08	0.25/0.51	3.25	680
114.1E254	M88	101.48	92.10	89.09	0.40	3.25	510
114.1E255	M125	143.67	132.70	127.00	0.40	5.00	420