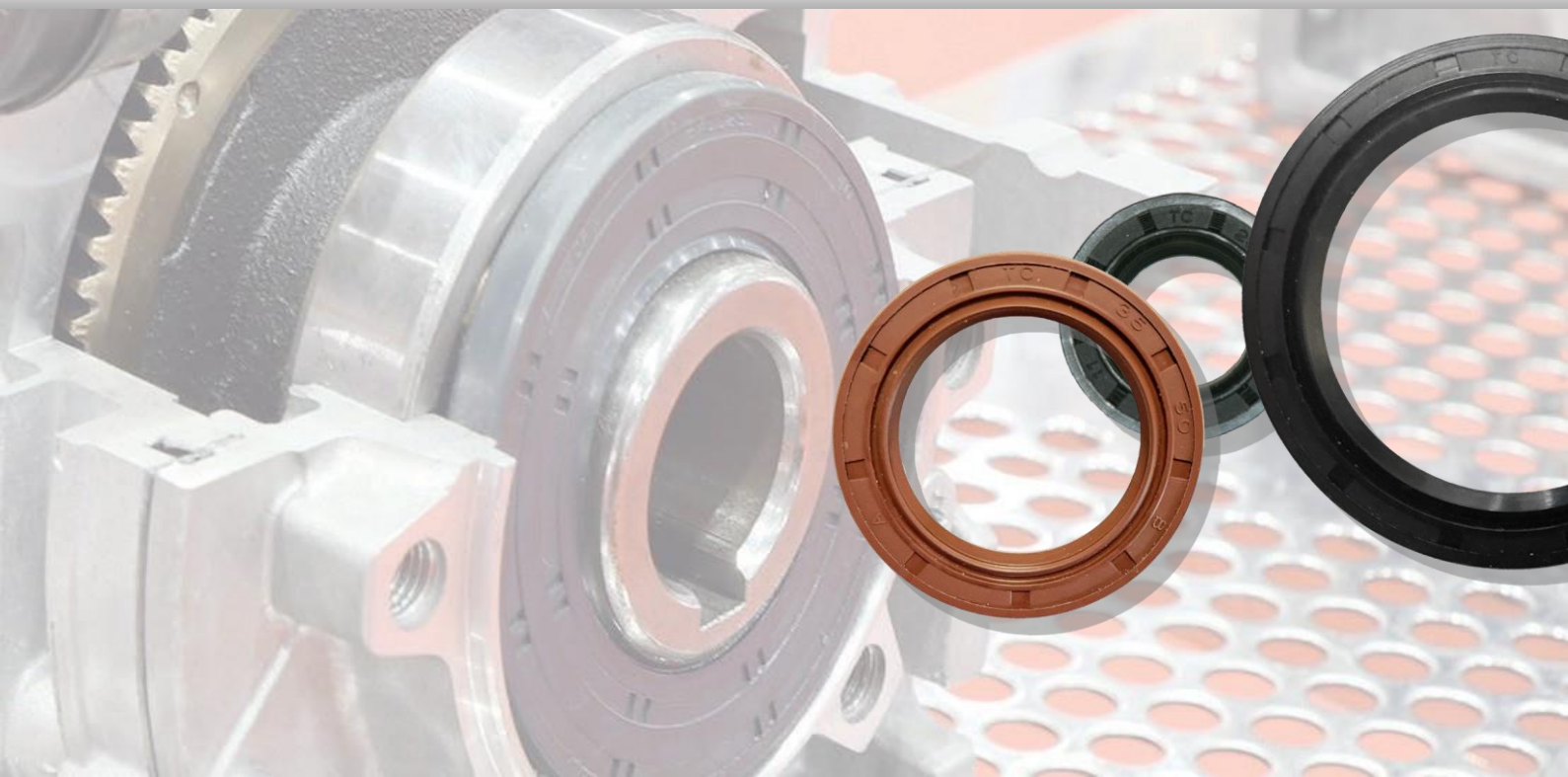




Rotary Shaft Oil Seals

Leading High-Quality Oil Seals

Oil Seals Overview

Oil Seals also called rotary shaft oil seals are widely used to prevent the leakage of a medium (such as oil and grease) along a rotating shaft. It is a mechanical machine component used to seal in the lubricant, oil and grease being the most common liquid substances found in any power transmission system such as an engine, gear box or electric motor, but also seals all general liquid substances. It isolates the moving parts that need to be lubricated and prevents them from running dry and seizing.

All TC (Trusted Containment) oil seals, have a double-lip design with a self-tightening spring, the steel housing is completely covered by rubber, generally speaking, TC oil seals are commonly known as R23 design.

Oil Seal Materials

Common materials for stock oil seals are NBR/Nitrile and FKM/Viton, also available to order are materials silicone, polyurethane and PTFE. NBR/Nitrile and FKM/Viton are the most widely used oil seals due to their ability to operate in a vast range of conditions.

Nitrile rubber (NBR) – has good heat resistance and wear resistance, and is resistant to various lubricating oils, greases, oil and gas mixtures, and is suitable for temperatures ranging from -30°C to +120°C degrees Celsius, but it cannot be used in applications using phosphate ester hydraulic oils and gear oils containing extreme pressure additives. It is stable in gasoline and low aniline point of mineral oil.

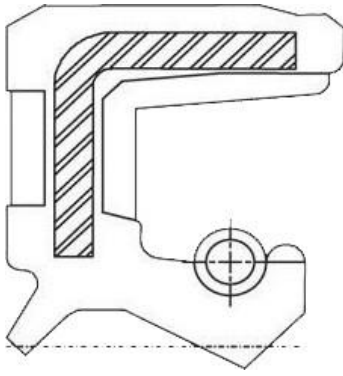
Viton (FKM) - Aging resistance, heat resistance, oil resistance, suitable for almost all lubricating oil, fuel oil, gasoline, not easy to harden in oil containing extreme pressure additives, but poor cold resistance, high temperature wear resistance, large permanent compression deformation, suitable for use at temperature ranges between -20°C to +250°C degrees Celsius.

Silicone - Has outstanding high and low-temperature resistance, and can be used for long periods of time at +150°C degrees Celsius without performance changes; it can also be used continuously for 10,000 hours at 200°C degrees Celsius and can maintain its unique elasticity and ozone resistance in working temperature ranges of -70°C to +260°C degrees Celsius.

PTFE - It has outstanding chemical stability, thermal stability, friction reduction, and self-lubrication, and its high temperature range of up to 400°C. Therefore, it can work normally in temperature ranges of -200°C to +300°C degrees Celsius. In addition to free fluorine and alkali metals, it has excellent corrosion resistance to chemicals, solvents, hydroxide compounds, and acids.

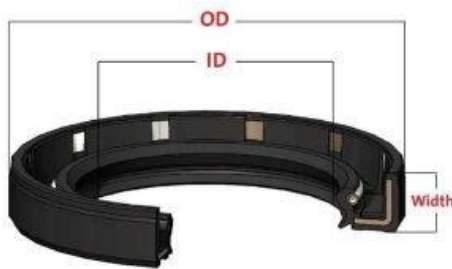
Oil Seal Types

There are many types of oil seals, TC Oil Seals manufactures and stocks the most commonly used being R23 in NBR/Nitrile and FKM/Viton as shown in the picture below.



Oil Seal Sizes

An oil seal has three dimensions, the ID (inside diameter), the OD (outside diameter), and W (width). Normally, a standard oil seal size will be given, ID 20 x OD 30 x W 7 mm, these dimensions are moulded into the body of all TC Oil Seals. Therefore, part numbers are easy to follow, OSM (Oil seal metric) OSM-20x30x7- R23-NBR for example.



Oil Seal Hardness

The hardness of an Oil Seals can be easily measured by a Shore scale durometer. Generally, the hardness of the oil seal is defined by the rubber materials themselves. We normally produce Nitrile/NBR oil seals with a shore hardness of 70 and Viton/FKM oil seals with a shore hardness of 75.

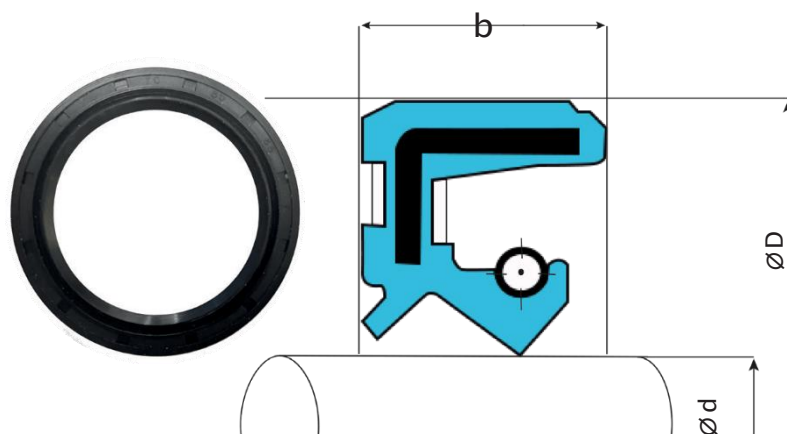
Oil Seal Colours

We can manufacture oil seals in various colours for customers and customers need to the standard Pantone colour number. However, considering cost and easy identification, it is generally recommended to choose classified material colour oil seals, being black for Nitrile/NBR oil seals, brown for Viton/FKM oil seals, special colour requests will incur additional cost and larger minimum order quantities.

Standard Oil Seals

TCType**Material** Nitrile (NBR)

The sectional on the right shows the typical profile of TC Oil Seals

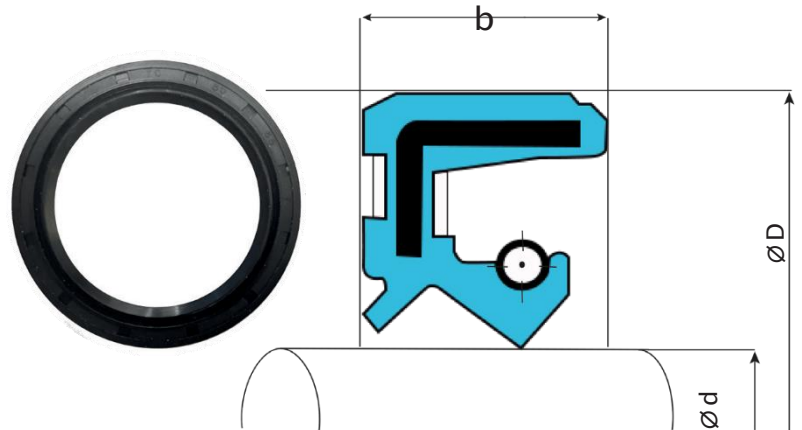


Dimensions			TC Type
Shaft diameter d	Outside diameter D	Width b	Part Number OSM
7	20	7	7 x 20 x 7 - R23 NBR
8	22	7	8 x 22 x 7 - R23 NBR
8	25	8	8 x 25 x 8 - R23 NBR
8	34	8	8 x 34 x 8 - R23 NBR
9	22	7	9 x 22 x 7 - R23 NBR
9	28	8	9 x 28 x 8 - R23 NBR
10	20	7	10 x 20 x 7 - R23 NBR
10	25	7	10 x 25 x 7 - R23 NBR
10	28	8	10 x 28 x 8 - R23 NBR
11	25	7	11 x 25 x 7 - R23 NBR
11	30	10	11 x 30 x 10 - R23 NBR
12	22	7	12 x 22 x 7 - R23 NBR
12	23	8	12 x 23 x 8 - R23 NBR
12	25	7	12 x 25 x 7 - R23 NBR
12	28	7	12 x 28 x 7 - R23 NBR
12	30	9	12 x 30 x 9 - R23 NBR
12	32	7	12 x 32 x 7 - R23 NBR
13	25	7	13 x 25 x 7 - R23 NBR
13	28	7	13 x 28 x 7 - R23 NBR
13	30	8	13 x 30 x 8 - R23 NBR
14	25	7	14 x 25 x 7 - R23 NBR
14	28	7	14 x 28 x 7 - R23 NBR
14	28	11	14 x 28 x 11 - R23 NBR
14	32	9	14 x 32 x 9 - R23 NBR
15	25	7	15 x 25 x 7 - R23 NBR
15	30	7	15 x 30 x 7 - R23 NBR
15	30	10	15 x 30 x 10 - R23 NBR
15	32	9	15 x 32 x 9 - R23 NBR
15	35	7	15 x 35 x 7 - R23 NBR
15	35	8	15 x 35 x 8 - R23 NBR
16	26	7	16 x 26 x 7 - R23 NBR
16	28	7	16 x 28 x 7 - R23 NBR
16	30	7	16 x 30 x 7 - R23 NBR
16	35	9	16 x 35 x 9 - R23 NBR
17	28	6	17 x 28 x 6 - R23 NBR
17	30	7	17 x 30 x 7 - R23 NBR
17	30	8	17 x 30 x 8 - R23 NBR
17	32	7	17 x 32 x 7 - R23 NBR
17	32	8	17 x 32 x 8 - R23 NBR
17	35	7	17 x 35 x 7 - R23 NBR

Standard Oil Seals

TC_{Type}**Material****Nitrile (NBR)**

The sectional on the right shows the typical profile of TC Oil Seals

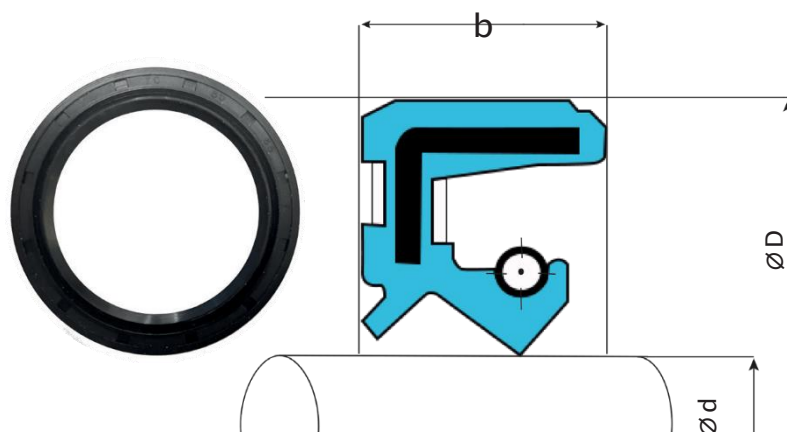


Dimensions			TC Type
Shaft diameter d	Outside diameter D	Width b	Part Number OSM
17	35	8	17 x 35 x 8 - R23 NBR
17	35	10	17 x 35 x 10 - R23 NBR
17	38	7	17 x 38 x 7 - R23 NBR
17	40	9	17 x 40 x 9 - R23 NBR
18	30	8	18 x 30 x 8 - R23 NBR
18	32	7	18 x 32 x 7 - R23 NBR
18	35	8	18 x 35 x 8 - R23 NBR
18	35	9	18 x 35 x 9 - R23 NBR
18	38	7	18 x 38 x 7 - R23 NBR
19	32	8	19 x 32 x 8 - R23 NBR
19	35	7	19 x 35 x 7 - R23 NBR
19	35	8	19 x 35 x 8 - R23 NBR
19	36	7	19 x 36 x 7 - R23 NBR
19	38	7	19 x 38 x 7 - R23 NBR
19	38	10	19 x 38 x 10 - R23 NBR
20	30	7	20 x 30 x 7 - R23 NBR
20	32	6	20 x 32 x 6 - R23 NBR
20	32	8	20 x 32 x 8 - R23 NBR
20	34	7	20 x 34 x 7 - R23 NBR
20	35	7	20 x 35 x 7 - R23 NBR
20	35	8	20 x 35 x 8 - R23 NBR
20	35	10	20 x 35 x 10 - R23 NBR
20	36	7	20 x 36 x 7 - R23 NBR
20	37	7	20 x 37 x 7 - R23 NBR
20	37	9	20 x 37 x 9 - R23 NBR
20	37	10	20 x 37 x 10 - R23 NBR
20	38	7	20 x 38 x 7 - R23 NBR
20	40	7	20 x 40 x 7 - R23 NBR
20	40	8	20 x 40 x 8 - R23 NBR
20	40	9	20 x 40 x 9 - R23 NBR
20	40	10	20 x 40 x 10 - R23 NBR
20	40	11	20 x 40 x 11 - R23 NBR
20	42	8	20 x 42 x 8 - R23 NBR
20	44	12	20 x 44 x 12 - R23 NBR
20	45	8	20 x 45 x 8 - R23 NBR
20	45	12	20 x 45 x 12 - R23 NBR
21	38	8	21 x 38 x 8 - R23 NBR
21	40	7	21 x 40 x 7 - R23 NBR
22	35	8	22 x 35 x 8 - R23 NBR
22	38	8	22 x 38 x 8 - R23 NBR

Standard Oil Seals

TC_{Type}**Material****Nitrile (NBR)**

The sectional on the right shows the typical profile of TC Oil Seals

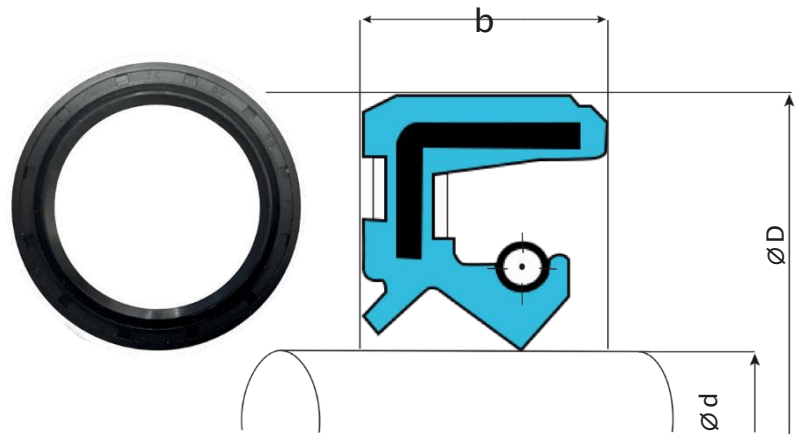


Dimensions			TC Type
Shaft diameter d	Outside diameter D	Width b	Part Number OSM
22	40	11	22 x 40 x 11 - R23 NBR
22	42	7	22 x 42 x 7 - R23 NBR
22	42	10	22 x 42 x 10 - R23 NBR
22	42	11	22 x 42 x 11 - R23 NBR
23	42	11	23 x 42 x 11 - R23 NBR
24	38	8	24 x 38 x 8 - R23 NBR
24	38	10	24 x 38 x 10 - R23 NBR
24	40	8	24 x 40 x 8 - R23 NBR
24	45	7	24 x 45 x 7 - R23 NBR
24	45	10	24 x 45 x 10 - R23 NBR
25	35	6	25 x 35 x 6 - R23 NBR
25	38	7	25 x 38 x 7 - R23 NBR
25	38	8	25 x 38 x 8 - R23 NBR
25	40	7	25 x 40 x 7 - R23 NBR
25	40	8	25 x 40 x 8 - R23 NBR
25	40	10	25 x 40 x 10 - R23 NBR
25	42	8	25 x 42 x 8 - R23 NBR
25	42	11	25 x 42 x 11 - R23 NBR
25	45	7	25 x 45 x 7 - R23 NBR
25	45	8	25 x 45 x 8 - R23 NBR
25	45	10	25 x 45 x 10 - R23 NBR
25	45	11	25 x 45 x 11 - R23 NBR
25	45	12	25 x 45 x 12 - R23 NBR
25	46	7	25 x 46 x 7 - R23 NBR
25	47	7	25 x 47 x 7 - R23 NBR
25	47	8	25 x 47 x 8 - R23 NBR
25	48	7	25 x 48 x 7 - R23 NBR
25	49	12	25 x 49 x 12 - R23 NBR
25	50	12	25 x 50 x 12 - R23 NBR
25	50	14	25 x 50 x 14 - R23 NBR
25	52	10	25 x 52 x 10 - R23 NBR
26	38	7	26 x 38 x 7 - R23 NBR
26	40	7	26 x 40 x 7 - R23 NBR
26	40	8	26 x 40 x 8 - R23 NBR
26	40	9	26 x 40 x 9 - R23 NBR
26	42	8	26 x 42 x 8 - R23 NBR
26	48	11	26 x 48 x 11 - R23 NBR
26	52	8	26 x 52 x 8 - R23 NBR
27	42	7	27 x 42 x 7 - R23 NBR
27	47	11	27 x 47 x 11 - R23 NBR

Standard Oil Seals

TCType**Material** Nitrile (NBR)

The sectional on the right shows the typical profile of TC Oil Seals

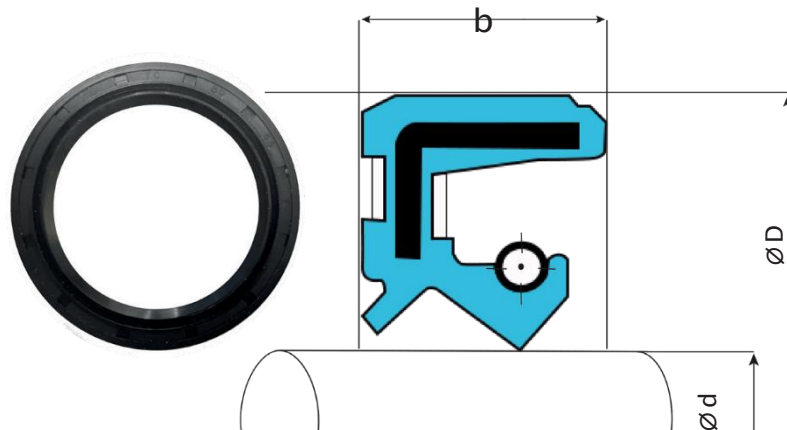


Dimensions			TC Type
Shaft diameter d	Outside diameter D	Width b	Part Number OSM
28	40	8	28 x 40 x 8 - R23 NBR
28	42	7	28 x 42 x 7 - R23 NBR
28	42	8	28 x 42 x 8 - R23 NBR
28	44	8	28 x 44 x 8 - R23 NBR
28	44	11	28 x 44 x 11 - R23 NBR
28	45	8	28 x 45 x 8 - R23 NBR
28	45	11	28 x 45 x 11 - R23 NBR
28	47	7	28 x 47 x 7 - R23 NBR
28	47	8	28 x 47 x 8 - R23 NBR
28	48	8	28 x 48 x 8 - R23 NBR
28	48	11	28 x 48 x 11 - R23 NBR
29	45	9	29 x 45 x 9 - R23 NBR
30	42	8	30 x 42 x 8 - R23 NBR
30	44	7	30 x 44 x 7 - R23 NBR
30	45	8	30 x 45 x 8 - R23 NBR
30	45	11	30 x 45 x 11 - R23 NBR
30	46	7	30 x 46 x 7 - R23 NBR
30	46	9	30 x 46 x 9 - R23 NBR
30	46	10	30 x 46 x 10 - R23 NBR
30	47	8	30 x 47 x 8 - R23 NBR
30	47	10	30 x 47 x 10 - R23 NBR
30	48	7	30 x 48 x 7 - R23 NBR
30	48	8	30 x 48 x 8 - R23 NBR
30	48	11	30 x 48 x 11 - R23 NBR
30	50	7	30 x 50 x 7 - R23 NBR
30	50	8	30 x 50 x 8 - R23 NBR
30	50	11	30 x 50 x 11 - R23 NBR
30	50	13	30 x 50 x 13 - R23 NBR
30	52	8	30 x 52 x 8 - R23 NBR
30	52	11	30 x 52 x 11 - R23 NBR
30	52	12	30 x 52 x 12 - R23 NBR
30	55	12	30 x 55 x 12 - R23 NBR
30	55	14	30 x 55 x 14 - R23 NBR
31	45	9	31 x 45 x 9 - R23 NBR
32	45	8	32 x 45 x 8 - R23 NBR
32	48	8	32 x 48 x 8 - R23 NBR
32	52	8	32 x 52 x 8 - R23 NBR
32	52	11	32 x 52 x 11 - R23 NBR
32	54	10	32 x 54 x 10 - R23 NBR
33	44	8	33 x 44 x 8 - R23 NBR

Standard Oil Seals

TCType**Material** Nitrile (NBR)

The sectional on the right shows the typical profile of TC Oil Seals

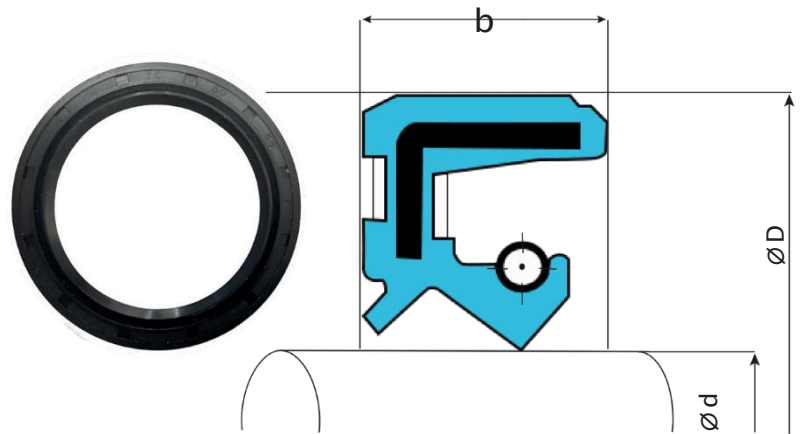


Dimensions			TC Type
Shaft diameter d	Outside diameter D	Width b	Part Number OSM
33	50	11	33 x 50 x 11 - R23 NBR
34	52	11	33 x 52 x 11 - R23 NBR
34	54	11	34 x 54 x 11 - R23 NBR
35	48	8	35 x 48 x 8 - R23 NBR
35	50	7	35 x 50 x 7 - R23 NBR
35	50	8	35 x 50 x 8 - R23 NBR
35	50	12	35 x 50 x 12 - R23 NBR
35	52	7	35 x 52 x 7 - R23 NBR
35	52	8	35 x 52 x 8 - R23 NBR
35	52	9	35 x 52 x 9 - R23 NBR
35	52	11	35 x 52 x 11 - R23 NBR
35	52	12	35 x 52 x 12 - R23 NBR
35	55	8	35 x 55 x 8 - R23 NBR
35	55	9	35 x 55 x 9 - R23 NBR
35	55	10	35 x 55 x 10 - R23 NBR
35	55	11	35 x 55 x 11 - R23 NBR
35	55	12	35 x 55 x 12 - R23 NBR
35	60	12	35 x 60 x 12 - R23 NBR
35	60	14	35 x 60 x 14 - R23 NBR
35	62	12	35 x 62 x 12 - R23 NBR
36	58	12	36 x 58 x 12 - R23 NBR
37	53	7	37 x 53 x 7 - R23 NBR
38	50	8	38 x 50 x 8 - R23 NBR
38	55	8	38 x 55 x 8 - R23 NBR
38	55	9	38 x 55 x 9 - R23 NBR
38	58	7	38 x 58 x 7 - R23 NBR
38	58	8	38 x 58 x 8 - R23 NBR
38	58	11	38 x 58 x 11 - R23 NBR
38	58	13	38 x 58 x 13 - R23 NBR
38	60	11	38 x 60 x 11 - R23 NBR
38	62	9	38 x 62 x 9 - R23 NBR
38	62	11	38 x 62 x 11 - R23 NBR
40	52	8	40 x 52 x 8 - R23 NBR
40	55	8	40 x 55 x 8 - R23 NBR
40	55	9	40 x 55 x 9 - R23 NBR
40	56	10	40 x 56 x 10 - R23 NBR
40	58	8	40 x 58 x 8 - R23 NBR
40	58	12	40 x 58 x 12 - R23 NBR
40	60	12	40 x 60 x 12 - R23 NBR
40	62	8	40 x 62 x 8 - R23 NBR

Standard Oil Seals

TCType**Material** Nitrile (NBR)

The sectional on the right shows the typical profile of TC Oil Seals

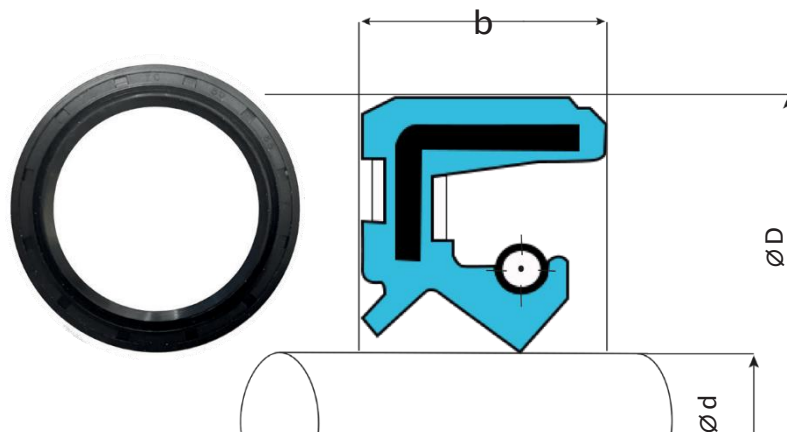


Dimensions			TC Type
Shaft diameter d	Outside diameter D	Width b	Part Number OSM
40	62	11	40 x 62 x 11 - R23 NBR
40	62	12	40 x 62 x 12 - R23 NBR
40	63	7	40 x 63 x 7 - R23 NBR
40	65	10	40 x 65 x 10 - R23 NBR
40	65	12	40 x 65 x 12 - R23 NBR
40	65	14	40 x 65 x 14 - R23 NBR
40	68	11	40 x 68 x 11 - R23 NBR
42	55	9	42 x 55 x 9 - R23 NBR
42	60	9	42 x 60 x 9 - R23 NBR
42	65	9	42 x 65 x 9 - R23 NBR
42	65	12	42 x 65 x 12 - R23 NBR
44	60	9	44 x 60 x 9 - R23 NBR
44	62	10	44 x 62 x 10 - R23 NBR
45	60	9	45 x 60 x 9 - R23 NBR
45	62	9	45 x 62 x 9 - R23 NBR
45	62	12	45 x 62 x 12 - R23 NBR
45	68	9	45 x 68 x 9 - R23 NBR
45	68	12	45 x 68 x 12 - R23 NBR
45	68	14	45 x 68 x 14 - R23 NBR
45	70	12	45 x 70 x 12 - R23 NBR
45	70	14	45 x 70 x 14 - R23 NBR
45	72	12	45 x 72 x 12 - R23 NBR
46	64	11	46 x 64 x 11 - R23 NBR
48	62	9	48 x 62 x 9 - R23 NBR
48	65	9	48 x 65 x 9 - R23 NBR
48	70	9	48 x 70 x 9 - R23 NBR
48	70	12	48 x 70 x 12 - R23 NBR
48	70	14	48 x 70 x 14 - R23 NBR
49	70	11	49 x 70 x 11 - R23 NBR
50	65	9	50 x 65 x 9 - R23 NBR
50	68	9	50 x 68 x 9 - R23 NBR
50	68	10	50 x 68 x 10 - R23 NBR
50	70	10	50 x 70 x 10 - R23 NBR
50	70	11	50 x 70 x 11 - R23 NBR
50	70	12	50 x 70 x 12 - R23 NBR
50	72	9	50 x 72 x 9 - R23 NBR
50	72	10	50 x 72 x 10 - R23 NBR
50	72	12	50 x 72 x 12 - R23 NBR
50	72	14	50 x 72 x 14 - R23 NBR
50	80	12	50 x 80 x 12 - R23 NBR

Standard Oil Seals

TCType**Material** Nitrile (NBR)

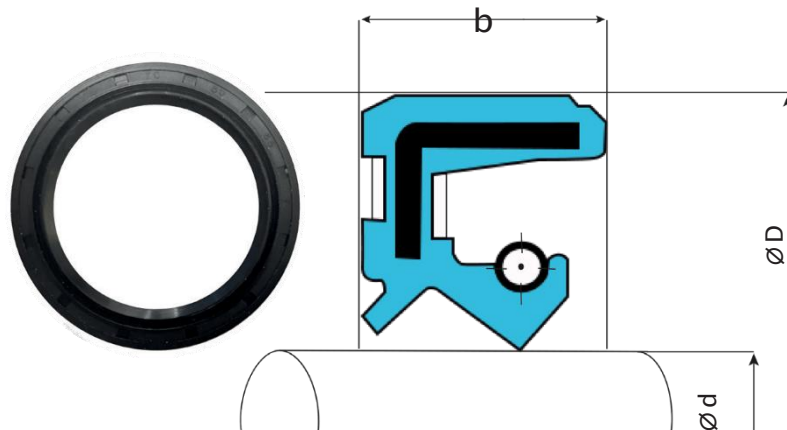
The sectional on the right shows the typical profile of TC Oil Seals



Dimensions			TC Type
Shaft diameter d	Outside diameter D	Width b	Part Number OSM
50	80	14	50 x 80 x 14 - R23 NBR
52	70	9	52 x 70 x 9 - R23 NBR
52	75	9	52 x 75 x 9 - R23 NBR
52	75	12	52 x 75 x 12 - R23 NBR
52	75	14	52 x 75 x 14 - R23 NBR
52	78	12	52 x 78 x 12 - R23 NBR
54	70	9	54 x 70 x 9 - R23 NBR
55	72	9	55 x 72 x 9 - R23 NBR
55	72	12	52 x 72 x 12 - R23 NBR
55	75	9	55 x 75 x 9 - R23 NBR
55	78	9	55 x 78 x 9 - R23 NBR
55	78	12	55 x 78 x 12 - R23 NBR
55	78	14	55 x 78 x 14 - R23 NBR
55	79	13	55 x 79 x 13 - R23 NBR
55	80	10	55 x 80 x 10 - R23 NBR
55	80	12	55 x 80 x 12 - R23 NBR
55	85	14	55 x 85 x 14 - R23 NBR
56	72	9	56 x 72 x 9 - R23 NBR
56	78	9	56 x 78 x 9 - R23 NBR
56	78	12	56 x 78 x 12 - R23 NBR
58	75	9	58 x 75 x 9 - R23 NBR
58	80	9	58 x 80 x 9 - R23 NBR
58	80	12	58 x 80 x 12 - R23 NBR
58	90	11	55 x 90 x 11 - R23 NBR
60	75	9	60 x 75 x 9 - R23 NBR
60	78	9	60 x 78 x 9 - R23 NBR
60	80	12	60 x 80 x 12 - R23 NBR
60	80	13	60 x 80 x 13 - R23 NBR
60	82	9	60 x 82 x 9 - R23 NBR
60	82	12	60 x 82 x 12 - R23 NBR
60	82	14	60 x 82 x 14 - R23 NBR
60	85	12	60 x 85 x 12 - R23 NBR
60	90	11	60 x 90 x 11 - R23 NBR
60	90	13	60 x 90 x 13 - R23 NBR
60	90	14	60 x 90 x 14 - R23 NBR
62	80	9	62 x 80 x 9 - R23 NBR
62	85	9	62 x 85 x 9 - R23 NBR
62	85	12	62 x 85 x 12 - R23 NBR
63	80	9	63 x 80 x 9 - R23 NBR
63	85	12	63 x 85 x 12 - R23 NBR

Standard Oil Seals**TC_{Type}****Material** **Nitrile (NBR)**

The sectional on the right shows the typical profile of TC Oil Seals

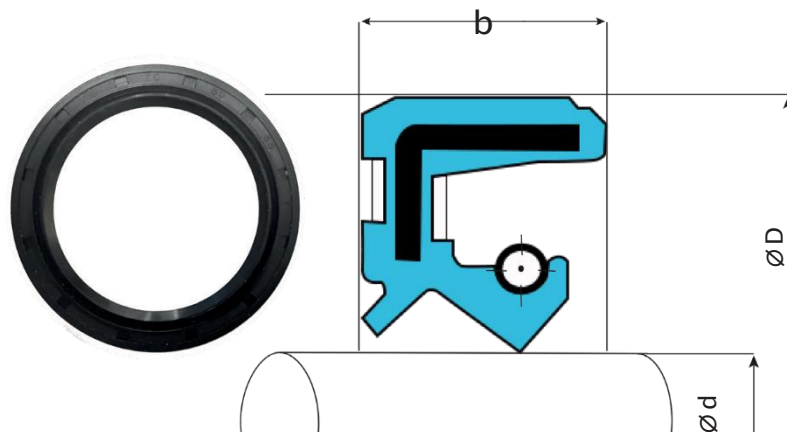


Dimensions			TC Type
Shaft diameter d	Outside diameter D	Width b	Part Number OSM
65	88	12	65 x 88 x 12 - R23 NBR
65	88	14	65 x 88 x 14 - R23 NBR
65	90	13	65 x 90 x 13 - R23 NBR
65	95	14	65 x 95 x 14 - R23 NBR
65	95	16	65 x 95 x 16 - R23 NBR
68	90	12	68 x 90 x 12 - R23 NBR
68	95	13	68 x 95 x 13 - R23 NBR
70	88	12	70 x 88 x 12 - R23 NBR
70	90	12	70 x 90 x 12 - R23 NBR
70	92	12	70 x 92 x 12 - R23 NBR
70	92	14	70 x 92 x 14 - R23 NBR
70	95	13	70 x 95 x 13 - R23 NBR
70	100	13	70 x 100 x 13 - R23 NBR
70	100	14	70 x 100 x 14 - R23 NBR
71	95	13	71 x 95 x 13 - R23 NBR
72	94	10	72 x 94 x 10 - R23 NBR
75	95	13	75 x 95 x 13 - R23 NBR
75	100	13	75 x 100 x 13 - R23 NBR
75	105	15	75 x 105 x 15 - R23 NBR
75	110	13	75 x 110 x 13 - R23 NBR
78	100	13	78 x 100 x 13 - R23 NBR
80	100	12	80 x 100 x 12 - R23 NBR
80	100	13	80 x 100 x 13 - R23 NBR
80	105	13	80 x 105 x 13 - R23 NBR
80	105	15	80 x 105 x 15 - R23 NBR
80	115	15	80 x 115 x 15 - R23 NBR
85	110	13	85 x 110 x 13 - R23 NBR
85	110	15	85 x 110 x 15 - R23 NBR
85	115	15	85 x 115 x 15 - R23 NBR
85	120	15	85 x 120 x 15 - R23 NBR
90	110	13	90 x 110 x 13 - R23 NBR
90	115	13	90 x 115 x 13 - R23 NBR
90	115	15	90 x 115 x 15 - R23 NBR
90	120	13	90 x 120 x 13 - R23 NBR
90	120	15	90 x 120 x 15 - R23 NBR
90	125	15	90 x 125 x 15 - R23 NBR
90	125	17	90 x 125 x 17 - R23 NBR
90	135	15	90 x 135 x 15 - R23 NBR
95	115	13	95 x 115 x 13 - R23 NBR
95	120	13	95 x 120 x 13 - R23 NBR

Standard Oil Seals

TCType**Material** Nitrile (NBR)

The sectional on the right shows the typical profile of TC Oil Seals

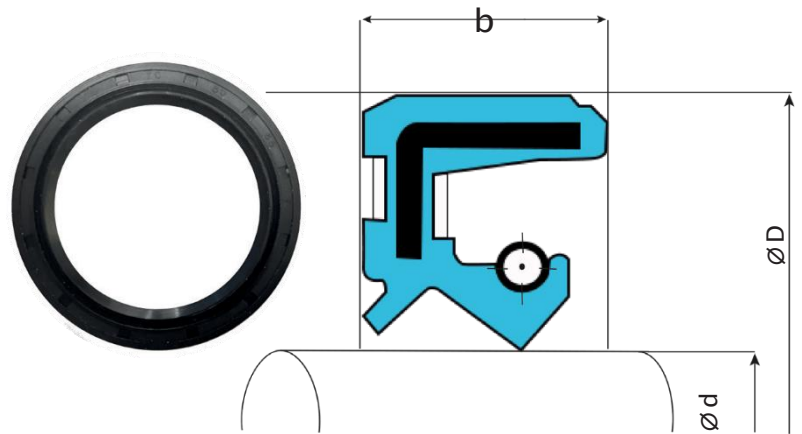


Dimensions			TC Type
Shaft diameter d	Outside diameter D	Width b	Part Number OSM
95	120	15	95 x 120 x 15 - R23 NBR
95	130	15	95 x 130 x 15 - R23 NBR
95	130	17	95 x 130 x 17 - R23 NBR
100	114	12	100 x 114 x 12 - R23 NBR
100	125	13	100 x 125 x 13 - R23 NBR
100	125	15	100 x 125 x 15 - R23 NBR
100	130	13	100 x 130 x 13 - R23 NBR
100	135	15	100 x 135 x 15 - R23 NBR
100	135	17	100 x 135 x 17 - R23 NBR
105	135	14	105 x 135 x 14 - R23 NBR
105	135	16	105 x 135 x 16 - R23 NBR
105	140	15	105 x 140 x 15 - R23 NBR
110	140	14	110 x 140 x 14 - R23 NBR
110	140	16	110 x 140 x 16 - R23 NBR
110	145	15	110 x 145 x 15 - R23 NBR
110	145	17	110 x 145 x 17 - R23 NBR
112	145	14	112 x 145 x 14 - R23 NBR
115	140	15	115 x 140 x 15 - R23 NBR
115	145	14	115 x 145 x 14 - R23 NBR
115	145	16	115 x 145 x 16 - R23 NBR
115	150	16	115 x 150 x 16 - R23 NBR
120	150	14	120 x 150 x 14 - R23 NBR
120	150	16	120 x 150 x 16 - R23 NBR
120	155	16	120 x 155 x 16 - R23 NBR
120	155	18	120 x 155 x 18 - R23 NBR
125	155	14	125 x 155 x 14 - R23 NBR
125	155	16	125 x 155 x 16 - R23 NBR
125	160	16	125 x 160 x 16 - R23 NBR
125	160	18	125 x 160 x 18 - R23 NBR
130	160	14	130 x 160 x 14 - R23 NBR
130	160	16	130 x 160 x 16 - R23 NBR
135	160	14	135 x 160 x 14 - R23 NBR
135	165	14	135 x 165 x 14 - R23 NBR
135	175	16	135 x 175 x 16 - R23 NBR
140	160	14	140 x 160 x 14 - R23 NBR
140	170	14	140 x 170 x 14 - R23 NBR
140	180	16	140 x 180 x 16 - R23 NBR
140	185	16	140 x 185 x 16 - R23 NBR
145	175	14	145 x 175 x 14 - R23 NBR
145	175	16	145 x 175 x 16 - R23 NBR
145	176	14	145 x 176 x 14 - R23 NBR

Standard Oil Seals

TC_{Type}
Material Nitrile (NBR)

The sectional on the right shows the typical profile of TC Oil Seals



Dimensions			TC Type
Shaft diameter d	Outside diameter D	Width b	Part Number OSM
145	190	16	145 x 190 x 16 - R23 NBR
150	180	14	145 x 180 x 14 - R23 NBR
150	180	16	150 x 180 x 16 - R23 NBR
155	180	15	155 x 180 x 15 - R23 NBR
155	200	20	155 x 200 x 20 - R23 NBR
160	190	15	160 x 190 x 15 - R23 NBR
160	190	16	160 x 190 x 16 - R23 NBR
160	196	20	160 x 196 x 20 - R23 NBR
170	200	16	170 x 200 x 16 - R23 NBR
170	205	16	170 x 205 x 16 - R23 NBR
170	225	20	170 x 225 x 20 - R23 NBR
180	210	16	180 x 210 x 16 - R23 NBR
180	215	18	180 x 215 x 18 - R23 NBR
185	210	15	185 x 210 x 15 - R23 NBR
190	225	16	190 x 225 x 16 - R23 NBR
200	230	15	200 x 230 x 15 - R23 NBR
200	235	18	200 x 235 x 18 - R23 NBR
200	240	17	200 x 240 x 17 - R23 NBR
200	240	20	200 x 240 x 20 - R23 NBR
210	250	16	210 x 250 x 16 - R23 NBR
210	250	20	210 x 250 x 20 - R23 NBR
220	250	16	220 x 250 x 16 - R23 NBR
220	255	18	220 x 255 x 18 - R23 NBR
220	260	22	220 x 260 x 22 - R23 NBR
220	275	23	220 x 275 x 23 - R23 NBR
220	275	26	220 x 275 x 26 - R23 NBR
230	260	20	230 x 260 x 20 - R23 NBR
230	270	16	230 x 270 x 16 - R23 NBR
230	270	20	230 x 270 x 20 - R23 NBR
240	270	20	240 x 270 x 20 - R23 NBR
240	275	16	240 x 275 x 16 - R23 NBR
240	275	18	240 x 275 x 18 - R23 NBR
240	280	19	240 x 280 x 19 - R23 NBR
250	285	18	250 x 285 x 18 - R23 NBR
250	310	25	250 x 310 x 25 - R23 NBR
260	320	25	260 x 320 x 25 - R23 NBR
270	330	25	270 x 330 x 25 - R23 NBR
280	320	22	280 x 320 x 22 - R23 NBR
280	340	28	280 x 340 x 28 - R23 NBR
290	350	25	290 x 350 x 25 - R23 NBR
300	360	25	300 x 360 x 25 - R23 NBR



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