

Description

The 440 shaft seals are designed with a variety of profiles to suit specific applications. They are equipped with a strong, flexible textile-rubber back. The specially formulated NBR compound contains some PTFE which assists in reducing the friction of the seals.

Product Benefits

- High durability
- Low friction
- Garter prevents dislodging when mounting blind

Material

In addition to the standard NBR and fabric-reinforced NBR with PTFE coating, the 440 shaft seal is available in FPM and H-NBR for demanding applications

Material	Code
NBR fabric/ garter spring	N139
HNBR fabric / garter spring	N145
Viton / fabric garter spring	F24

Operating Parameters

Temperature	°C	°F
hydraulic oil	-30...+100	-22...+212
water oil emulsions (HFA)	+5...+60	+41...+140
water-glycol fluids (HFC)	-30...+60	-22...+140
polyol esters (HFD)	-30...+80	-22...+176
water	+5...+100	41...+212

Speed	15 m/s (50 ft/sec)
Pressure	0.05 MPa (7.25 psi)

Note: for other materials or fluids please contact our engineering department

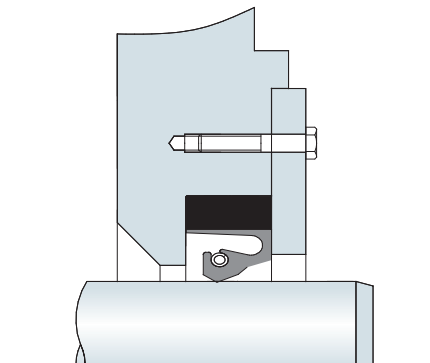
Applications

The 440 shaft seal is used primarily in heavy industries.

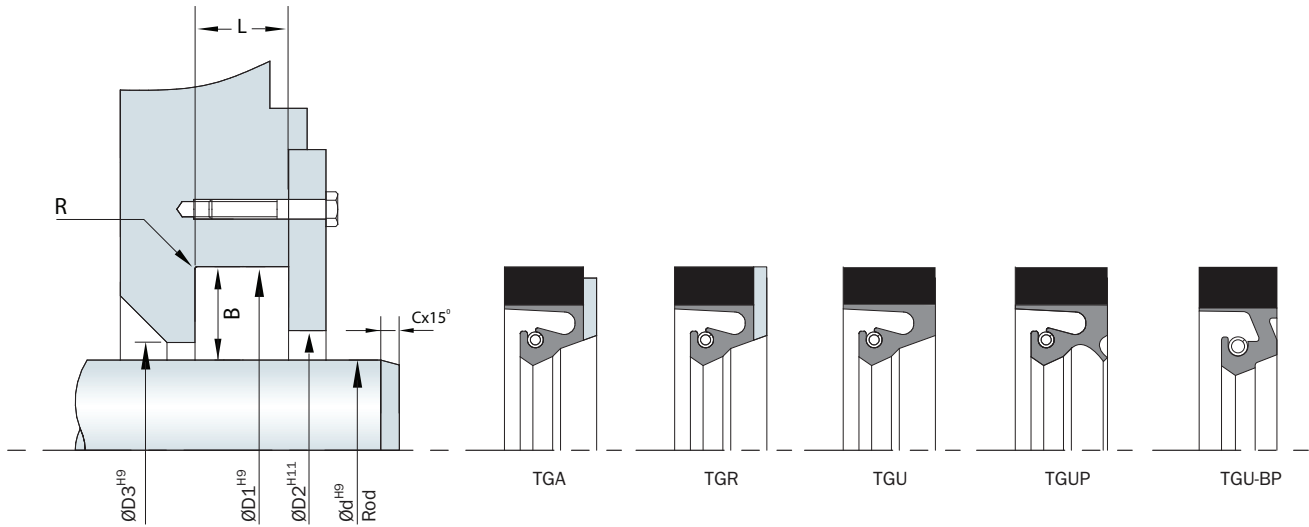
Typical applications include:

- Gear drives
- Propeller shafts
- Work rolls in hot and cold mills
- Pumps
- Paper machinery
- Split applications
- Wind energy
- As a dirt wiper in single acting, rocking HAGC cylinders with high degree of tilt

Installation Drawing



Design Guidelines



Model Description

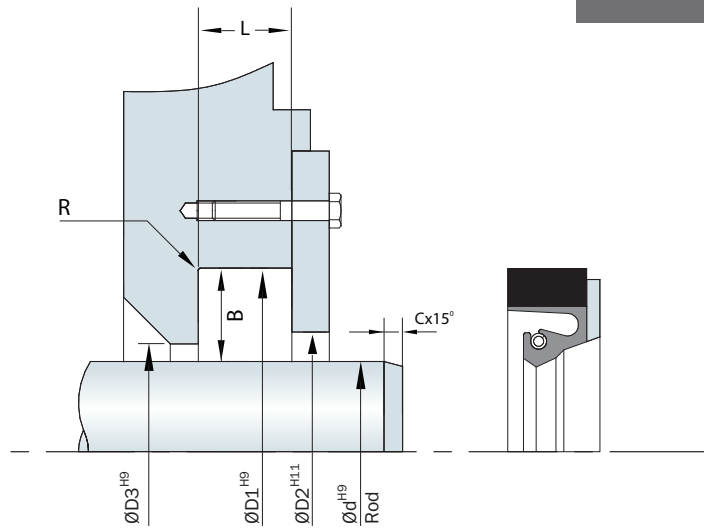
TGU	Standard style in endless and split form. On request with additional dust lip (designation TGUP)
TGR	Like TGU, however radial lubrication grooves in the back. Available also in "Split" form. On request with additional dust lip (designation TGRP)
TGA	Like TGR, but with additional circumferential groove for lubrication. Preferably used in back to back arrangements. On request with additional dust lip (designation TGAP)
TGF	Contrary to TGU/TGR/TGA, type TGF does not use a textile rubber back, but a metallic flexible stiffening ring, which allows mounting without end cover. Available only in endless form. On request with additional dust lip (designation TGFP).
TGF-B	Like TGF but with axial and radial groove for lubrication as TGA type. It has a metallic flexible stiffening ring, which allows mounting without end cover. Available only in endless form. On request with additional dust lip (designation TGFP-B)
TGU-BP	Like TGU but with special profile of the sealing lip to resist to pressure until 4 bar.
TGA-BP	Like TGA but with special profile of the sealing lip to resist to pressure until 4 bar

Available in NBR / FKM and HNBR compounds.

P.S. On request garter spring with PVC cover or other materials to avoid dust to be enclosed by the spring.

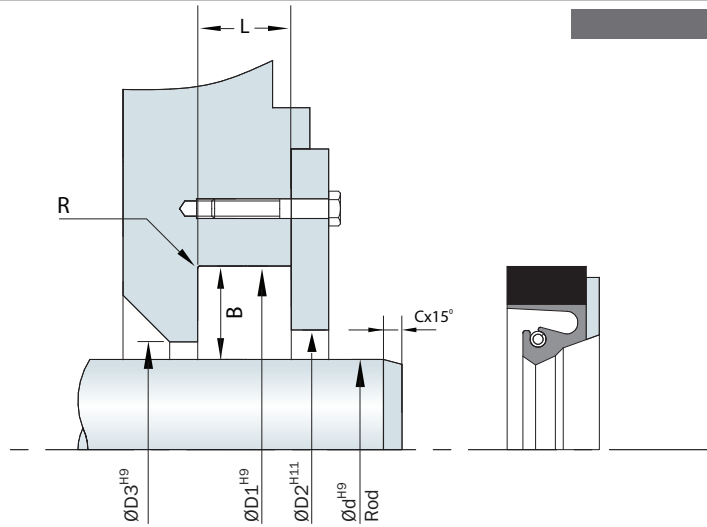
Surface Finish

Surface roughness	Ra	Rt	RMS
Sliding surface	$\leq 0.3 \mu\text{m}$	$\leq 3 \mu\text{m}$	6-12 RMS
Surface of groove I.D.	$\leq 1.8 \mu\text{m}$	$\leq 10 \mu\text{m}$	64 RMS
Sides of groove	$\leq 3 \mu\text{m}$	$\leq 16 \mu\text{m}$	125 RMS



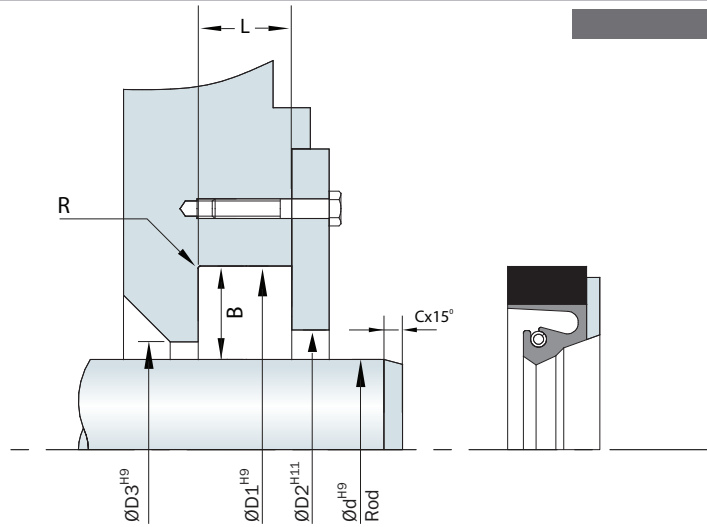
Parts List

$\varnothing d$	$\varnothing D$	B	L	Type	NBR/fabric N139
25.40	47.60	11.10	9.52	TGU	440.93493
40.00	60.00	10.00	10.00	TGU	440.93225
55.00	80.00	12.50	12.20	TGU	440.92771
60.00	80.00	10.00	10.00	TGU	440.93118
69.85	85.72	7.94	7.92	TGU	440.92920
70.00	102.00	16.00	12.50	TGU	440.93377
75.00	107.00	16.00	12.50	TGUP	440.93298
80.00	95.00	7.50	10.00	TGA	440.93435
80.00	100.00	10.00	8.00	TGU	440.93006
80.00	100.00	10.00	8.00	TGUP	440.93174
80.00	100.00	10.00	8.00	TGUP	440.93194
80.00	100.00	10.00	10.00	TGU	440.93204
80.00	112.00	16.00	12.50	TGU	440.92840
82.50	114.30	15.90	12.70	TGU	440.92850
84.00	100.00	8.00	8.00	TGU	440.93205
85.00	101.00	8.00	8.00	TGU	440.93223
85.00	109.00	12.00	12.00	TGU	440.92713
85.00	120.00	17.50	12.00	TGU	440.93341
87.00	120.00	16.50	15.00	TGU	440.92825
88.00	108.00	10.00	10.00	TGUP	440.93060
88.90	114.30	12.70	12.70	TGU	440.93183
90.00	110.00	10.00	10.00	TGU	440.92876
90.00	110.00	10.00	12.00	TGU	440.92708
90.00	122.00	16.00	12.50	TGU	440.93029
95.00	120.00	12.50	12.50	TGU	440.93070
98.40	123.90	12.75	12.70	TGU	440.93354
100.00	116.00	8.00	8.00	TGU	440.92776
100.00	120.00	10.00	13.00	TGU	440.93125
100.00	125.00	12.50	10.00	TGU	440.93321
100.00	125.00	12.50	10.00	TGUP	440.93259
100.00	130.00	15.00	10.00	TGU	440.93495



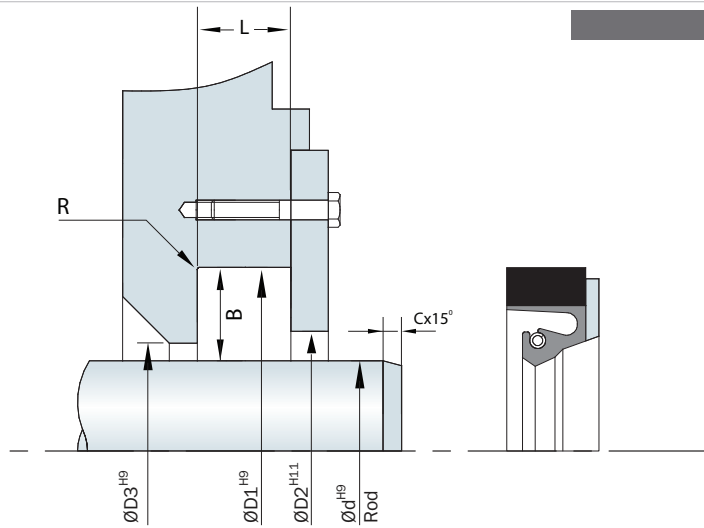
Parts List

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100.00	130.00	15.00	12.50	TGA	440.93302
101.60	127.00	12.70	12.70	TGU	440.92911
101.60	133.40	15.90	12.70	TGU	440.92797
105.00	145.00	20.00	16.00	TGUP	440.93263
107.95	146.05	19.05	15.87	TGUP	440.92927
110.00	130.00	10.00	12.00	TGU	440.92964
110.00	130.00	10.00	13.00	TGUP	440.92928
110.00	140.00	15.00	13.00	TGU	440.93045
110.00	140.00	15.00	15.00	TGU	440.93013
112.40	139.70	13.65	14.28	TGU	440.93410
112.70	138.80	13.05	14.80	TGU	440.92818
120.00	150.00	15.00	13.00	TGU	440.93426
120.00	160.00	20.00	12.00	TGUP	440.93373
120.00	160.00	20.00	16.00	TGU	440.93342
123.80	149.20	12.70	12.70	TGU	440.92993
125.00	155.00	15.00	12.50	TGU	440.93262
125.00	157.00	16.00	12.50	TGU	440.93036
125.00	160.00	17.50	12.00	TGU	440.93027
127.00	146.05	9.53	11.11	TGU	440.93362
127.00	158.80	15.90	12.30	TGA	440.93186
127.00	158.80	15.90	12.30	TGR	440.92999
127.00	165.00	19.00	16.00	TGU	440.92725
130.00	150.00	10.00	12.00	TGU	440.93236
130.00	160.00	15.00	12.00	TGU	440.93416
132.20	165.20	16.50	15.00	TGU	440.93329
133.00	165.00	16.00	12.50	TGU	440.92735
135.00	160.00	12.50	12.00	TGU	440.92978
135.00	170.00	17.50	16.50	TGU	440.93499
140.00	170.00	15.00	12.00	TGU	440.93255
140.00	170.00	15.00	15.00	TGU	440.92745
140.00	180.00	20.00	16.00	TGA	440.93219

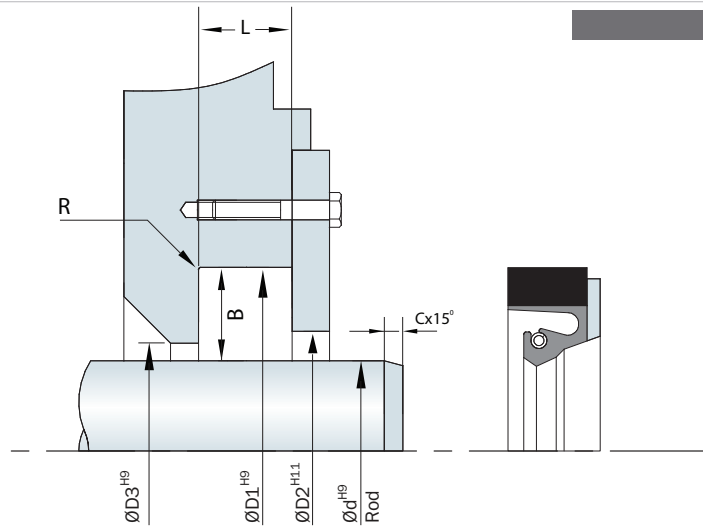


Parts List

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140.00	180.00	20.00	16.00	TGUP	440.93025
142.80	168.20	12.70	15.87	TGU	440.93159
145.00	175.00	15.00	15.00	TGU	440.93155
145.00	180.00	17.50	14.00	TGU	440.93137
146.05	177.80	15.88	15.87	TGU	440.93330
146.05	184.15	19.05	15.87	TGUP	440.92870
149.20	177.80	14.30	12.50	TGU	440.93200
150.00	180.00	15.00	12.00	TGU	440.93152
150.00	180.00	15.00	15.00	TGU	440.92719
150.00	190.00	20.00	16.00	TGA	440.93472
152.40	181.00	14.30	16.00	TGU	440.92985
152.40	190.50	19.05	15.87	TGU	440.93288
152.40	190.50	19.05	19.05	TGU	440.92723
160.00	190.00	15.00	14.30	TGA	440.93372
160.00	190.00	15.00	15.00	TGU	440.93187
160.00	190.00	15.00	16.50	TGU	440.93017
160.00	200.00	20.00	16.00	TGA	440.92732
160.00	200.00	20.00	16.00	TGU	440.92809
165.00	190.00	12.50	13.00	TGU	440.93048
165.00	195.00	15.00	15.00	TGA	440.93480
165.00	205.00	20.00	16.00	TGU	440.93072
165.10	203.20	19.05	19.05	TGU	440.92888
170.00	200.00	15.00	12.00	TGU	440.93322
170.00	200.00	15.00	12.00	TGUP	440.92883
170.00	200.00	15.00	16.00	TGU	440.93198
170.00	200.00	15.00	16.00	TGUP	440.93308
170.00	210.00	20.00	16.00	TGU	440.92748
170.00	211.00	20.50	16.00	TGU	440.92801
171.40	196.80	12.70	19.05	TGU	440.93179
175.00	200.00	12.50	15.00	TGU	440.92900
175.00	205.00	15.00	15.00	TGU	440.92846

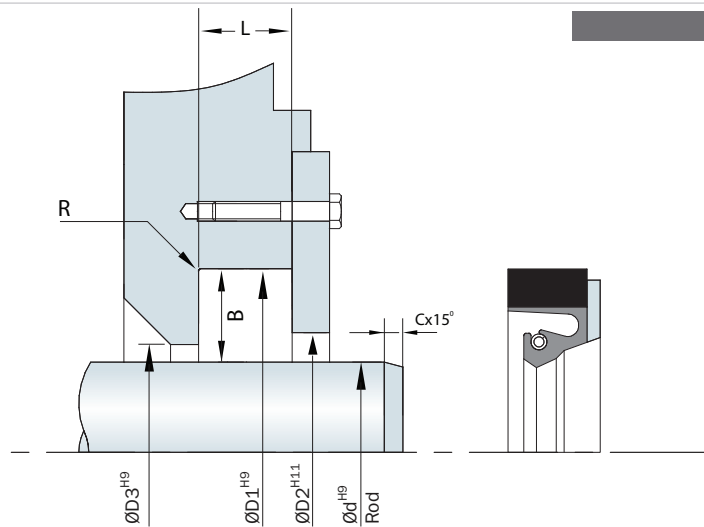

Parts List

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177.00	230.00	26.50	16.00	TGU	440.93396
177.80	203.20	12.70	11.11	TGU	440.93393
177.80	209.55	15.88	19.05	TGU	440.93237
179.38	209.55	15.09	19.05	TGU	440.93300
180.00	210.00	15.00	14.00	TGUP	440.93447
180.00	210.00	15.00	15.00	TGU	440.93319
180.00	215.00	17.50	18.00	TGU	440.92931
180.00	220.00	20.00	16.00	TGU	440.93471
180.00	222.00	21.00	16.00	TGU	440.92720
180.97	215.90	17.47	15.87	TGU	440.93386
184.15	215.90	15.88	15.87	TGU	440.93227
185.00	225.00	20.00	16.00	TGU	440.93351
190.00	220.00	15.00	15.00	TGU	440.92715
190.00	225.00	17.50	18.00	TGU	440.93285
190.00	230.00	20.00	15.00	TGU	440.93455
190.00	230.00	20.00	16.00	TGA	440.93282
190.00	230.00	20.00	16.00	TGA	440.93257
190.00	230.00	20.00	16.00	TGU	440.92808
190.00	230.00	20.00	16.00	TGU-BP	440.93057
190.00	230.00	20.00	16.00	TGUP	440.93397
190.50	215.90	12.70	15.87	TGU	440.92872
195.00	220.40	12.70	12.70	TGU	440.92970
200.00	225.40	12.70	12.70	TGU	440.93273
200.00	230.00	15.00	14.00	TGA	440.92773
200.00	230.00	15.00	15.00	TGA	440.93184
200.00	230.00	15.00	15.87	TGU	440.92724
200.00	240.00	20.00	16.00	TGU	440.93242
200.00	240.00	20.00	16.50	TGU-BP	440.93358
200.00	250.00	25.00	15.00	TGU	440.93107
200.00	250.00	25.00	18.00	TGU	440.93391
210.00	230.00	10.00	15.00	TGU	440.92918

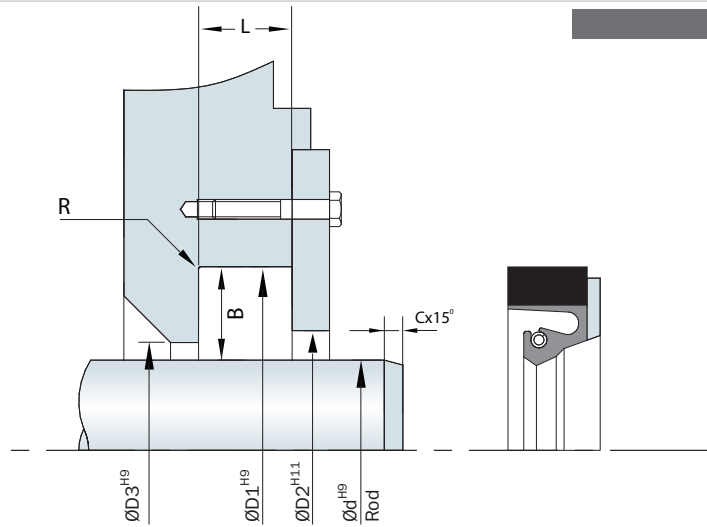


Parts List

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210.00	240.00	15.00	12.00	TGU	440.93395
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210.00	240.00	15.00	15.00	TGU	440.92992
210.00	245.00	17.50	18.20	TGU	440.92933
210.00	250.00	20.00	16.00	TGA	440.92944
210.00	250.00	20.00	16.00	TGU	440.93175
215.00	240.00	12.50	12.00	TGU	440.93389
215.00	240.00	12.50	20.00	TGU	440.93497
215.00	248.00	16.50	15.00	TGU	440.93222
215.00	250.00	17.50	16.00	TGU	440.93033
215.00	250.00	17.50	16.00	TGUP	440.93091
215.90	247.65	15.88	20.62	TGA	440.92849
215.90	247.75	15.93	19.05	TGU	440.92837
218.40	250.00	15.80	15.00	TGU	440.93053
220.00	250.00	15.00	15.00	TGA	440.92917
220.00	250.00	15.00	15.00	TGU	440.92854
220.00	250.00	15.00	16.50	TGA	440.93085
220.00	255.00	17.50	18.00	TGU	440.93355
220.00	255.00	17.50	18.30	TGA	440.93001
220.00	260.00	20.00	16.00	TGU	440.93241
220.00	260.00	20.00	16.00	TGUP	440.93009
220.00	260.00	20.00	16.50	TGU	440.93240
220.00	260.00	20.00	18.00	TGA	440.93427
222.25	254.00	15.88	15.87	TGU	440.93246
225.00	265.00	20.00	16.00	TGU	440.93311
226.00	276.00	25.00	22.30	TGU	440.93253
228.00	254.00	13.00	10.50	TGU	440.92884
228.60	270.00	20.70	16.00	TGUP	440.92770
230.00	260.00	15.00	15.00	TGU	440.93418
230.00	260.00	15.00	16.00	TGU	440.93165
230.00	265.00	17.50	18.00	TGU	440.93032

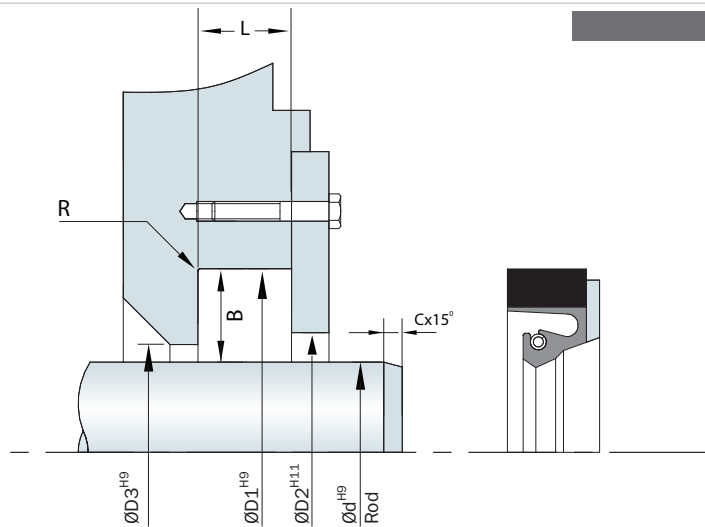

Parts List

ød	ØD	B	L	Type	NBR/fabric N139
230.00	270.00	20.00	16.00	TGA	440.93000
230.00	270.00	20.00	16.00	TGU	440.93340
231.77	282.57	25.40	25.40	TGU	440.93171
235.00	265.00	15.00	15.00	TGU	440.92908
235.00	265.00	15.00	15.00	TGUP	440.93265
235.00	265.00	15.00	15.30	TGA	440.92965
235.00	270.00	17.50	16.00	TGU	440.92957
235.00	275.00	20.00	16.00	TGU	440.93164
235.00	275.00	20.00	20.00	TGU	440.93484
236.00	276.00	20.00	16.00	TGU	440.93352
240.00	270.00	15.00	15.00	TGU	440.92968
240.00	275.00	17.50	18.00	TGU	440.93133
240.00	280.00	20.00	16.00	TGA	440.93213
240.00	280.00	20.00	16.00	TGU	440.93326
240.00	280.00	20.00	16.00	TGU-BP	440.93361
240.00	280.00	20.00	18.00	TGA	440.93403
240.00	280.00	20.00	18.00	TGU	440.93346
240.00	290.00	25.00	16.00	TGU	440.93315
240.00	290.00	25.00	25.00	TGA	440.93365
240.00	290.00	25.00	25.00	TGU	440.93099
241.30	292.10	25.40	25.40	TGU	440.93448
244.47	295.53	25.53	25.40	TGU	440.92756
245.00	275.00	15.00	16.00	TGU	440.93379
245.00	285.00	20.00	16.00	TGA	440.92969
250.00	275.40	12.70	12.70	TGU	440.92960
250.00	280.00	15.00	15.00	TGU	440.92904
250.00	280.00	15.00	16.00	TGA	440.92765
250.00	285.00	17.50	18.00	TGU	440.92790
250.00	290.00	20.00	16.00	TGU	440.92921
250.00	290.00	20.00	16.50	TGA	440.93075
250.00	290.00	20.00	16.50	TGA	440.92821

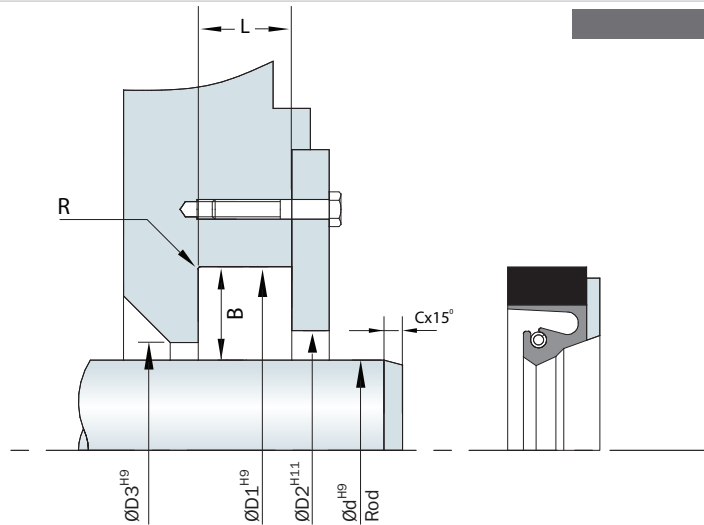


Parts List

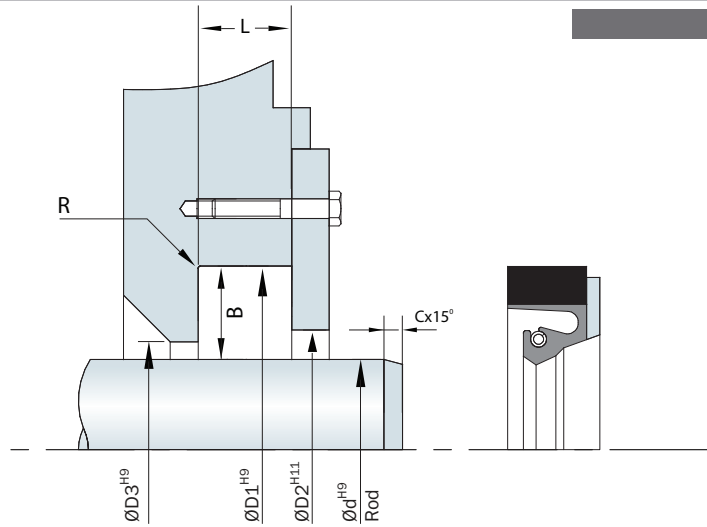
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250.00	290.00	20.00	16.50	TGU	440.92781
250.00	290.00	20.00	18.00	TGU	440.92800
250.00	300.00	25.00	20.00	TGU	440.92977
254.00	279.40	12.70	19.05	TGU	440.92889
254.00	285.75	15.88	15.87	TGU	440.93135
254.00	292.10	19.05	15.87	TGU	440.93218
254.00	292.10	19.05	16.00	TGA	440.92830
255.00	290.00	17.50	16.00	TGU	440.93486
255.00	295.00	20.00	16.00	TGU	440.93094
255.00	299.00	22.00	20.00	TGA	440.92981
255.00	299.00	22.00	20.00	TGU	440.93374
260.00	290.00	15.00	16.00	TGU	440.92817
260.00	300.00	20.00	16.00	TGA	440.93350
260.00	300.00	20.00	18.00	TGU	440.93323
260.00	300.00	20.00	18.00	TGU-BP	440.93030
260.00	300.00	20.00	20.00	TGU	440.92950
260.00	300.00	20.00	20.00	TGUP	440.93385
260.00	304.00	22.00	20.00	TGU	440.92763
260.35	311.15	25.40	19.05	TGU	440.92973
265.00	295.00	15.00	15.00	TGU	440.93102
265.00	309.00	22.00	20.00	TGU	440.93359
266.70	304.80	19.05	19.05	TGUP	440.93378
266.70	311.15	22.23	19.05	TGU	440.92786
270.00	310.00	20.00	15.00	TGU	440.92879
270.00	310.00	20.00	16.00	TGU	440.93024
270.00	310.00	20.00	18.00	TGA	440.92871
270.00	314.00	22.00	20.00	TGA	440.93207
270.00	314.00	22.00	20.00	TGU	440.93066
270.00	314.00	22.00	26.00	TGU	440.93079
275.00	315.00	20.00	18.00	TGA	440.93283
275.00	315.00	20.00	20.00	TGU	440.93178


Parts List

ød	ØD	B	L	Type	NBR/fabric N139
275.00	319.50	22.25	19.00	TGR	440.93488
279.40	309.40	15.00	15.00	TGU	440.93299
280.00	310.00	15.00	15.00	TGU	440.93492
280.00	315.00	17.50	15.00	TGU	440.93064
280.00	320.00	20.00	16.00	TGU	440.92728
280.00	320.00	20.00	18.00	TGA	440.93115
280.00	320.00	20.00	18.00	TGU	440.93228
280.00	320.00	20.00	20.00	TGU	440.92717
280.00	320.00	20.00	24.00	TGU	440.93344
280.00	324.00	22.00	20.00	TGA	440.93465
280.00	324.00	22.00	20.00	TGU	440.93261
280.00	350.00	35.00	16.00	TGU	440.93120
285.00	310.00	12.50	15.00	TGU	440.93143
285.00	325.00	20.00	18.00	TGA	440.92707
285.00	329.00	22.00	20.00	TGA	440.93230
285.75	317.50	15.88	15.87	TGU	440.92826
286.00	336.55	25.28	15.00	TGU	440.92757
289.00	327.00	19.00	19.00	TGU	440.93077
290.00	315.40	12.70	12.70	TGU	440.93394
290.00	320.00	15.00	15.00	TGU	440.92741
290.00	330.00	20.00	20.00	TGU	440.92749
290.00	330.00	20.00	20.30	TGU	440.93519
290.00	334.00	22.00	20.00	TGU	440.93804
290.00	334.00	22.00	20.30	TGA	440.93694
292.00	330.00	19.00	15.87	TGU	440.93586
292.10	350.00	28.95	16.00	TGA	440.93763
300.00	340.00	20.00	16.00	TGUP	440.93833
300.00	340.00	20.00	16.50	TGA	440.93817
300.00	340.00	20.00	16.50	TGU	440.93926
300.00	340.00	20.00	18.00	TGA	440.93878
300.00	340.00	20.00	18.00	TGU	440.93872

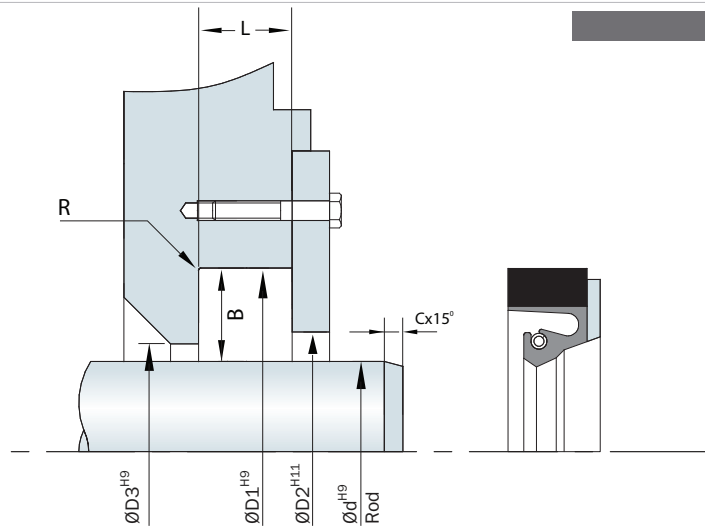

Parts List

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300.00	340.00	20.00	22.00	TGU	440.93649
300.00	344.00	22.00	20.00	TGA	440.93954
300.00	344.00	22.00	20.00	TGU	440.93693
300.00	344.00	22.00	20.00	TGU-BP	440.93632
304.00	348.00	22.00	20.00	TGU	440.93757
305.00	345.00	20.00	16.00	TGU	440.93611
308.00	352.00	22.00	20.00	TGU	440.93819
310.00	345.00	17.50	18.00	TGU	440.93963
310.00	353.00	21.50	20.00	TGA	440.93839
310.00	354.00	22.00	20.00	TGA	440.93887
310.00	354.00	22.00	20.00	TGU	440.93569
310.00	354.00	22.00	20.50	TGU	440.93590
310.00	355.00	22.50	20.00	TGA	440.93832
310.00	360.00	25.00	22.00	TGU	440.93846
311.00	345.00	17.00	18.30	TGU	440.93751
311.15	361.95	25.40	20.62	TGA	440.93932
311.15	361.95	25.40	20.62	TGU	440.93983
314.00	355.00	20.50	20.00	TGU	440.93705
315.00	360.00	22.50	20.00	TGA	440.93888
315.00	365.00	25.00	20.00	TGU	440.93895
316.00	360.00	22.00	20.00	TGU	440.93514
317.10	355.60	19.25	16.00	TGU	440.93520
317.50	355.60	19.05	19.05	TGU	440.93774
317.50	355.60	19.05	19.05	TGU	440.93972
317.60	355.60	19.00	17.45	TGU	440.93534
320.00	350.00	15.00	15.00	TGA	440.93728
320.00	350.00	15.00	15.00	TGU	440.93889
320.00	350.00	15.00	15.40	TGU	440.93525
320.00	355.00	17.50	16.00	TGR	440.93966



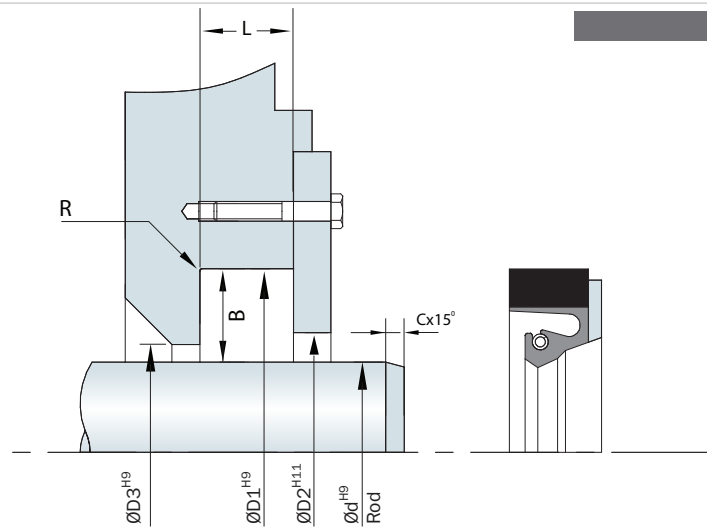
Parts List

ød	ØD	B	L	Type	NBR/fabric N139
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320.00	360.00	20.00	20.00	TGU	440.93552
320.00	364.00	22.00	18.00	TGR	440.94000
320.00	364.00	22.00	20.00	TGU	440.93612
323.75	374.65	25.45	25.40	TGU	440.93964
323.85	361.95	19.05	17.45	TGU	440.93764
325.00	365.00	20.00	16.00	TGA	440.93873
328.00	372.00	22.00	20.20	TGU	440.93690
330.00	370.00	20.00	14.00	TGU	440.93990
330.00	370.00	20.00	14.00	TGU-BP	440.93759
330.00	370.00	20.00	18.00	TGU	440.93995
330.00	370.00	20.00	20.00	TGA	440.93736
330.00	370.00	20.00	20.00	TGU	440.93851
330.00	374.00	22.00	20.00	TGA	440.93684
330.00	374.00	22.00	20.00	TGR	440.93614
330.00	374.00	22.00	20.00	TGU	440.93867
330.00	374.00	22.00	20.00	TGUP	440.93601
330.00	380.80	25.40	20.62	TGU	440.93952
330.20	361.95	15.88	25.40	TGUP	440.93892
330.20	368.30	19.05	17.45	TGU	440.93746
331.00	371.00	20.00	16.00	TGU	440.93677
335.00	373.00	19.00	19.00	TGU	440.93808
335.00	379.00	22.00	20.00	TGU-BP	440.93849
340.00	372.00	16.00	16.00	TGA	440.93841
340.00	380.00	20.00	16.00	TGU	440.93842
340.00	380.00	20.00	18.00	TGU	440.93737
340.00	380.00	20.00	20.00	TGU	440.93943
340.00	380.00	20.00	20.60	TGU	440.93931
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340.00	384.00	22.00	20.00	TGU	440.93543

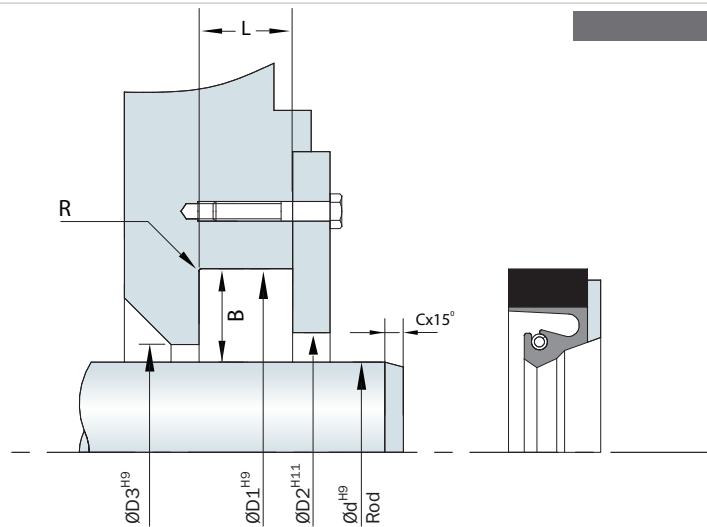


Parts List

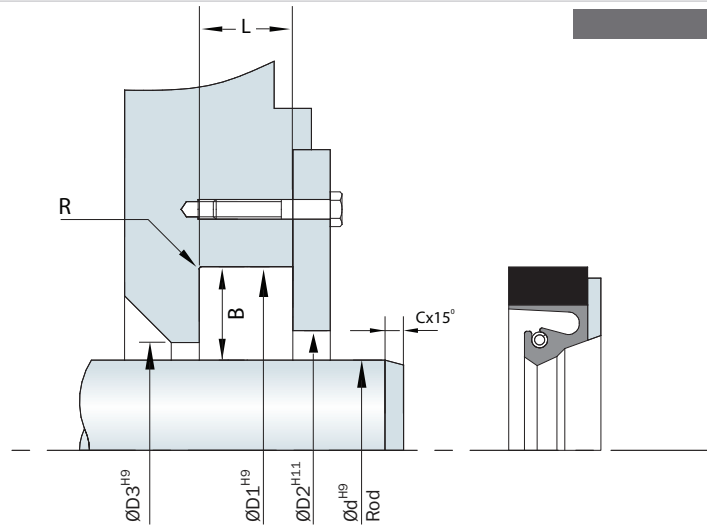
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345.00	389.00	22.00	20.00	TGA	440.93719
346.00	390.00	22.00	18.00	TGU-BP	440.93672
348.00	380.00	16.00	16.00	TGU	440.93524
350.00	380.00	15.00	16.00	TGA	440.93665
350.00	380.00	15.00	17.70	TGU	440.93553
350.00	390.00	20.00	18.00	TGA	440.93678
350.00	390.00	20.00	20.00	TGU	440.93778
350.00	394.00	22.00	20.00	TGA	440.93914
350.00	394.00	22.00	20.00	TGU	440.93869
350.00	394.00	22.00	22.00	TGA	440.93898
351.00	391.00	20.00	16.00	TGU	440.93968
355.00	394.00	19.50	20.00	TGA	440.93641
355.00	395.00	20.00	20.00	TGU	440.93958
360.00	390.00	15.00	18.00	TGR	440.93707
360.00	400.00	20.00	19.50	TGA	440.93991
360.00	400.00	20.00	20.00	TGU	440.93581
360.00	404.00	22.00	17.45	TGU-BP	440.93664
360.00	404.00	22.00	20.00	TGA	440.93795
360.00	404.00	22.00	20.00	TGU	440.93603
360.00	410.00	25.00	20.00	TGU	440.93748
360.00	410.00	25.00	20.00	TGU-BP	440.93741
362.00	400.00	19.00	20.00	TGU	440.93697
362.00	406.00	22.00	19.80	TGU	440.93930
362.00	406.00	22.00	19.80	TGU	440.93510
362.00	406.00	22.00	22.00	TGU	440.93582
362.00	412.75	25.38	20.62	TGU	440.93875
363.00	418.00	27.50	20.00	TGU	440.93570
365.00	409.00	22.00	15.00	TGA	440.93762
365.00	409.00	22.00	20.00	TGU	440.93890


Parts List

$\varnothing d$	$\varnothing D$	B	L	Type	NBR/fabric N139
365.00	409.40	22.20	19.05	TGA	440.93837
365.00	409.40	22.20	19.05	TGU	440.93589
366.00	410.00	22.00	20.00	TGA	440.93771
368.30	412.75	22.23	15.87	TGU	440.93708
368.30	419.10	25.40	20.62	TGA	440.93550
368.30	419.10	25.40	29.25	TGA	440.93624
370.00	410.00	20.00	15.00	TGUP	440.93631
370.00	410.00	20.00	18.00	TGA	440.93858
370.00	410.00	20.00	20.00	TGU	440.93729
370.00	414.00	22.00	20.00	TGA	440.93775
370.00	414.00	22.00	20.00	TGU	440.93654
374.65	419.10	22.23	22.22	TGA	440.93648
380.00	419.00	19.50	24.00	TGA	440.93743
380.00	420.00	20.00	20.00	TGU	440.93667
380.00	420.00	20.00	20.00	TGUP	440.93917
380.00	420.00	20.00	22.00	TGUP	440.93574
380.00	424.00	22.00	20.00	TGA	440.93640
380.00	430.80	25.40	20.62	TGU	440.93936
380.00	457.20	38.60	20.00	TGU	440.93994
384.00	414.00	15.00	15.00	TGU	440.93508
385.00	425.00	20.00	18.30	TGA	440.93695
387.00	431.00	22.00	22.50	TGA	440.93821
387.00	431.00	22.00	22.50	TGU	440.93884
387.00	438.00	25.50	25.40	TGU	440.93593
387.35	438.15	25.40	15.87	TGA	440.93925
387.35	438.15	25.40	22.22	TGU	440.93558
387.35	438.15	25.40	25.40	TGA	440.93598
390.00	420.00	15.00	16.00	TGU	440.93725
390.00	430.00	20.00	18.00	TGA	440.93796
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390.00	434.00	22.00	20.00	TGA	440.93829

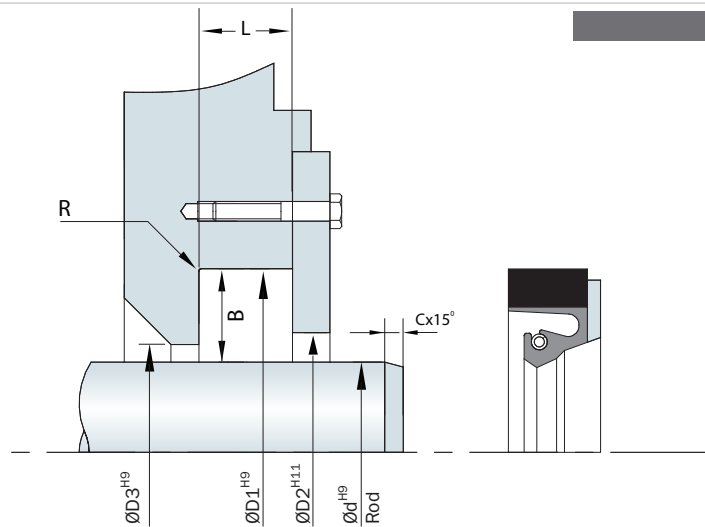

Parts List

ød	ØD	B	L	Type	NBR/fabric N139
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395.00	439.00	22.00	20.50	TGU	440.93643
400.00	440.00	20.00	14.00	TGU	440.93685
400.00	440.00	20.00	18.00	TGA	440.93870
400.00	440.00	20.00	20.00	TGU	440.93680
400.00	440.00	20.00	20.00	TGUP	440.93749
400.00	440.00	20.00	22.00	TGA	440.93720
400.00	440.00	20.00	22.00	TGR	440.93670
400.00	444.00	22.00	20.00	TGA	440.93840
400.00	444.00	22.00	20.00	TGU	440.93756
400.00	450.00	25.00	18.10	TGA	440.93970
400.00	450.00	25.00	18.10	TGU	440.93779
400.00	450.00	25.00	20.00	TGA	440.93999
400.00	450.00	25.00	22.00	TGA	440.93935
400.00	450.00	25.00	22.00	TGU	440.93969
400.00	450.00	25.00	22.00	TGU	440.93961
406.20	444.50	19.15	17.45	TGU	440.93658
406.40	457.20	25.40	19.05	TGU	440.93863
406.40	457.20	25.40	20.62	TGU	440.93502
406.40	457.20	25.40	21.20	TGU	440.93549
406.40	457.20	25.40	22.22	TGUP	440.93578
406.40	457.20	25.40	23.00	TGU	440.93965
406.40	457.20	25.40	23.81	TGA	440.93635
406.40	457.20	25.40	23.81	TGU	440.93772
406.40	457.20	25.40	23.81	TGU	440.93836
410.00	450.00	20.00	20.00	TGU	440.93733
412.15	450.85	19.35	17.45	TGU	440.93602
412.75	450.85	19.05	17.45	TGA	440.93638
419.10	450.85	15.88	19.05	TGU	440.93625
419.10	457.20	19.05	19.05	TGA	440.93706
420.00	460.00	20.00	20.00	TGU	440.93848

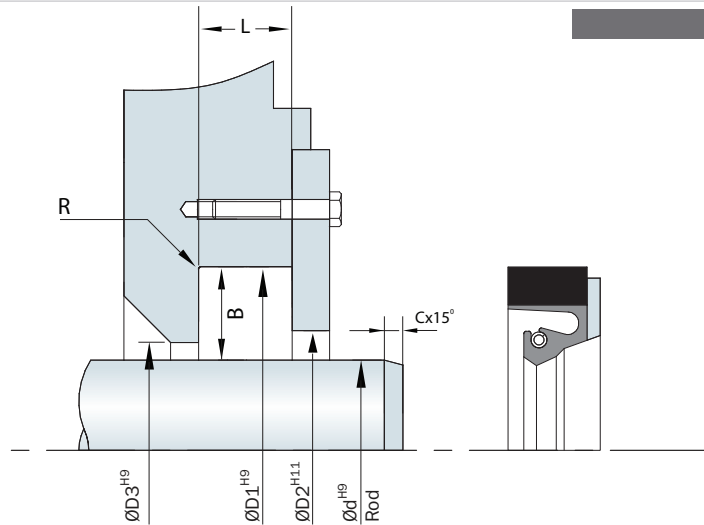


Parts List

ød	ØD	B	L	Type	NBR/fabric N139
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420.00	470.00	25.00	22.00	TGU	440.93532
420.00	470.00	25.00	25.00	TGU	440.93996
425.00	475.00	25.00	22.00	TGA	440.93623
430.00	474.00	22.00	20.00	TGU	440.93773
430.00	480.00	25.00	21.50	TGU	440.93579
430.00	480.00	25.00	22.00	TGA	440.93718
430.00	480.00	25.00	22.00	TGR	440.93753
430.00	480.00	25.00	22.00	TGU	440.93568
430.00	480.00	25.00	25.00	TGU	440.93575
430.00	480.00	25.00	27.50	TGA	440.93770
431.80	482.60	25.40	20.62	TGU	440.93507
435.00	485.00	25.00	22.00	TGA	440.93769
435.00	485.00	25.00	22.00	TGU	440.93907
435.00	485.00	25.00	22.60	TGA	440.93730
438.00	476.00	19.00	24.00	TGU	440.93577
438.10	476.20	19.05	19.05	TGU	440.93542
440.00	469.00	14.50	12.50	TGA	440.93544
440.00	480.00	20.00	20.00	TGU	440.93503
440.00	480.00	20.00	20.00	TGUP	440.93735
440.00	480.00	20.00	26.00	TGU	440.93927
440.00	484.30	22.15	19.05	TGU	440.93555
440.00	490.00	25.00	20.00	TGU	440.93788
440.00	490.00	25.00	20.00	TGUP	440.93663
440.00	490.00	25.00	21.50	TGU	440.93944
440.00	490.00	25.00	22.00	TGA	440.93856
440.00	490.00	25.00	22.00	TGU	440.93882
440.00	490.00	25.00	22.00	TGU-BP	440.93985
440.00	490.00	25.00	22.00	TGUP	440.93571
440.00	490.00	25.00	25.00	TGU	440.93920
440.00	490.00	25.00	28.00	TGA	440.93891

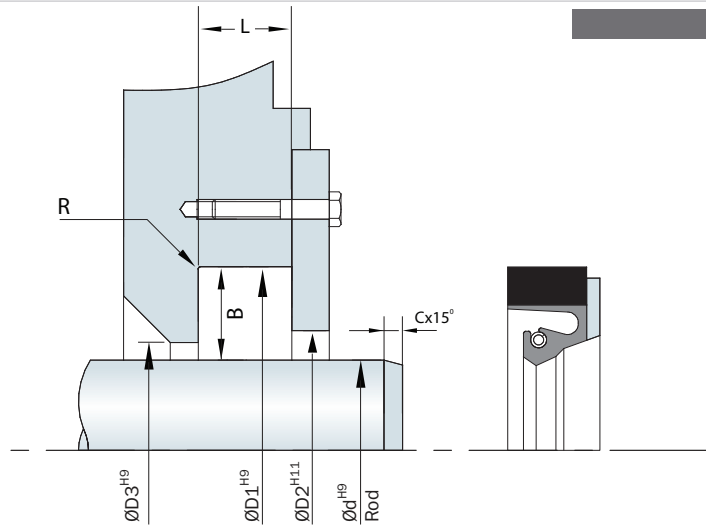

Parts List

ød	ØD	B	L	Type	NBR/fabric N139
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446.00	486.00	20.00	16.50	TGU	440.93636
450.00	480.00	15.00	20.00	TGA	440.93978
450.00	490.00	20.00	18.00	TGU	440.93668
450.00	494.00	22.00	20.00	TGA	440.93967
450.00	500.00	25.00	20.00	TGA	440.93539
450.00	500.00	25.00	20.00	TGU	440.93924
450.00	500.00	25.00	22.00	TGA	440.93745
450.00	500.00	25.00	22.00	TGU	440.93755
450.00	500.00	25.00	22.00	TGUP	440.93721
450.00	500.00	25.00	25.00	TGU	440.93910
454.00	504.00	25.00	21.00	TGU	440.93727
454.00	504.80	25.40	21.00	TGA	440.93868
454.02	504.20	25.09	20.62	TGU-BP	440.93655
455.00	505.00	25.00	22.00	TGA	440.93916
460.00	500.00	20.00	16.00	TGUP	440.93835
460.00	510.00	25.00	21.50	TGU	440.93877
460.00	510.00	25.00	22.00	TGA	440.93852
460.00	510.00	25.00	22.00	TGR	440.93689
460.00	510.00	25.00	22.00	TGU	440.93777
460.00	510.00	25.00	25.00	TGU	440.93960
461.50	540.00	39.25	31.00	TGU	440.93628
468.00	532.00	32.00	20.00	TGU	440.93673
469.90	520.70	25.40	22.22	TGA	440.93913
470.00	510.00	20.00	18.00	TGA	440.93785
470.00	520.00	25.00	25.00	TGU	440.93781
480.00	520.00	20.00	18.00	TGU	440.93583
480.00	520.00	20.00	20.00	TGU	440.93949
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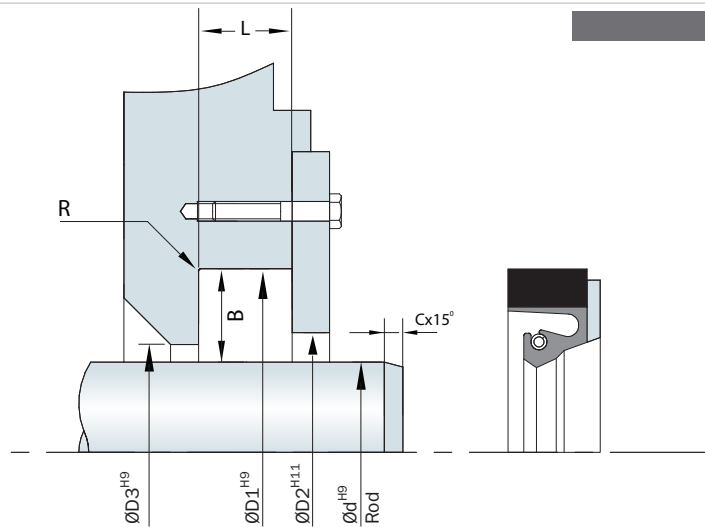


Parts List

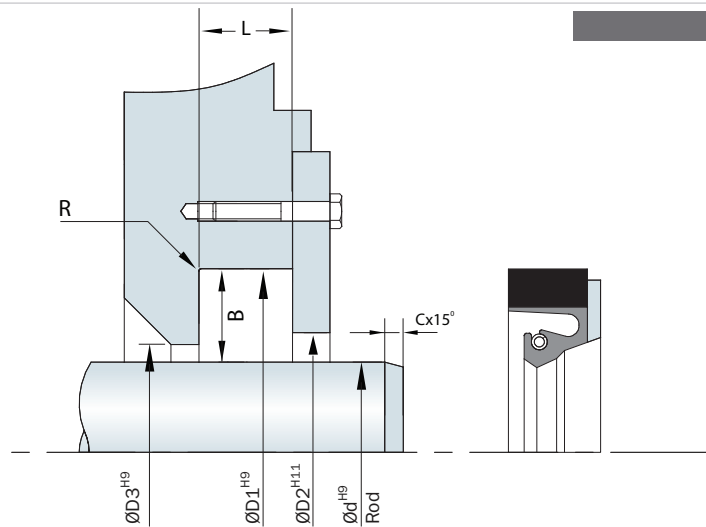
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480.00	550.00	35.00	25.00	TGU	440.93511
485.00	535.00	25.00	22.00	TGU	440.93627
490.00	530.00	20.00	20.00	TGA	440.93651
495.00	545.00	25.00	22.00	TGU	440.93567
500.00	540.00	20.00	10.00	TGU	440.93822
500.00	540.00	20.00	20.00	TGA	440.93880
500.00	540.00	20.00	20.00	TGU	440.93615
500.00	540.00	20.00	20.00	TGU-BP	440.93827
500.00	540.00	20.00	22.00	TGUP	440.93933
500.00	544.00	22.00	20.00	TGA	440.93661
500.00	550.00	25.00	20.00	TGU	440.93953
500.00	550.00	25.00	22.00	TGA	440.93904
500.00	550.00	25.00	22.00	TGU	440.93710
500.00	564.00	32.00	25.00	TGU	440.93897
510.00	560.00	25.00	22.00	TGU-BP	440.93647
510.00	560.00	25.00	22.50	TGA	440.93657
515.00	555.00	20.00	20.00	TGA	440.93850
515.00	555.00	20.00	20.00	TGU-BP	440.93912
515.00	565.00	25.00	22.00	TGA	440.93992
520.00	560.00	20.00	18.00	TGU	440.93816
520.00	560.00	20.00	20.00	TGU	440.93956
520.00	564.00	22.00	20.00	TGA	440.93646
520.00	570.00	25.00	22.00	TGA	440.93679
520.00	570.00	25.00	22.00	TGU	440.93596
520.70	571.50	25.40	25.40	TGU	440.93518
525.00	575.00	25.00	22.00	TGU	440.93564
530.00	580.00	25.00	20.00	TGR	440.93854
530.00	580.00	25.00	22.00	TGA	440.93528


Parts List

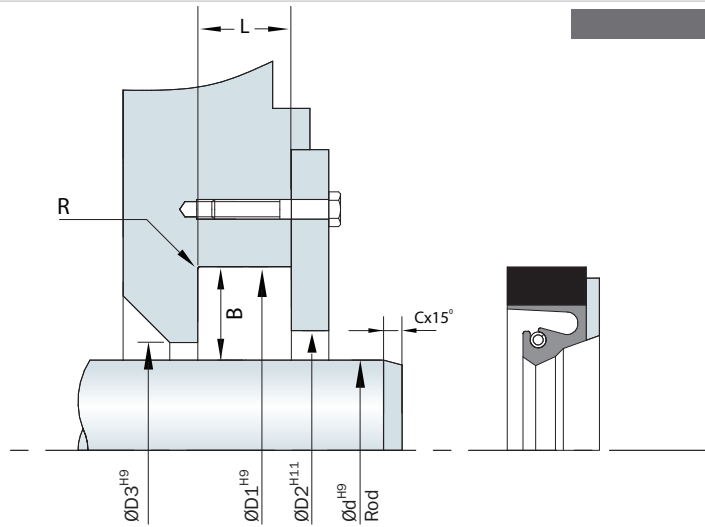
ød	ØD	B	L	Type	NBR/fabric N139
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530.00	580.00	25.00	25.00	TGU	440.93783
533.40	584.20	25.40	22.22	TGR	440.93987
533.40	584.20	25.40	22.22	TGU	440.93669
535.00	585.00	25.00	22.00	TGU	440.93604
540.00	584.00	22.00	20.00	TGU	440.93998
540.00	590.00	25.00	22.00	TGA	440.93947
540.00	590.00	25.00	22.00	TGU	440.93905
540.00	590.00	25.00	22.60	TGA	440.93704
540.00	590.00	25.00	25.00	TGA	440.93809
540.00	590.00	25.00	27.50	TGA	440.93820
540.00	590.00	25.00	30.00	TGU	440.93592
545.00	596.90	25.95	19.05	TGA	440.93662
550.00	600.00	25.00	22.00	TGA	440.93676
550.00	600.00	25.00	22.30	TGU	440.93752
555.00	605.00	25.00	22.00	TGA	440.93866
558.80	596.92	19.06	19.05	TGU	440.93980
558.80	609.60	25.40	22.22	TGU	440.93989
560.00	603.00	21.50	20.00	TGA	440.93533
560.00	604.00	22.00	20.00	TGA	440.93797
560.00	604.00	22.00	20.00	TGU	440.93830
560.00	610.00	25.00	20.00	TGU	440.93600
560.00	610.00	25.00	22.30	TGU	440.93893
560.00	610.00	25.00	25.00	TGU	440.93523
565.00	615.00	25.00	22.00	TGA	440.93902
565.00	615.00	25.00	22.00	TGU	440.93859
570.00	616.00	23.00	19.00	TGU	440.93591
570.00	620.00	25.00	22.00	TGA	440.93537
570.00	620.00	25.00	22.00	TGU	440.93652


Parts List

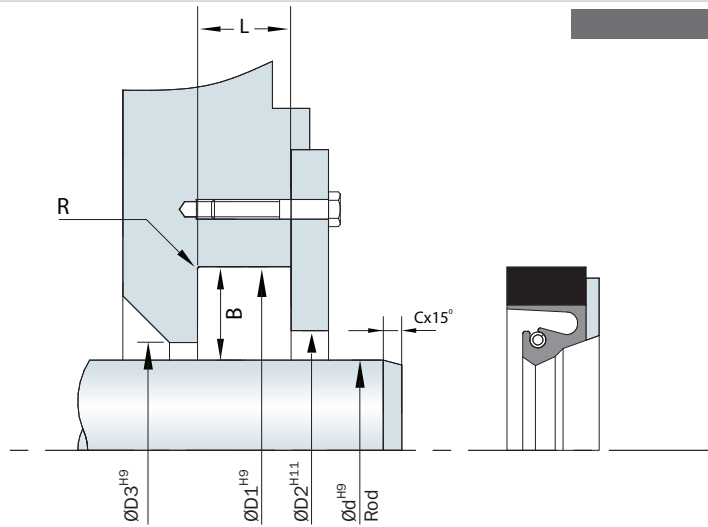
ød	ØD	B	L	Type	NBR/fabric N139
570.00	620.00	25.00	25.00	TGU	440.93506
574.00	610.00	18.00	16.00	TGA	440.93941
575.00	625.00	25.00	22.00	TGU	440.93608
580.00	630.00	25.00	22.00	TGA	440.93923
580.00	630.00	25.00	22.00	TGU	440.93580
580.00	630.00	25.00	22.00	TGU-BP	440.93594
586.00	646.00	30.00	22.00	TGU	440.93536
590.00	640.00	25.00	22.00	TGA	440.93501
590.50	641.35	25.43	20.62	TGU	440.93876
590.50	641.35	25.43	20.62	TGU-BP	440.93937
600.00	640.00	20.00	18.00	TGA	440.93618
600.00	640.00	20.00	20.00	TGA	440.93945
600.00	644.00	22.00	20.00	TGU-BP	440.93687
600.00	650.00	25.00	22.00	TGU	440.93714
606.81	644.91	19.05	22.22	TGA	440.93894
610.00	650.00	20.00	22.00	TGU	440.93692
610.00	674.00	32.00	25.00	TGU	440.93512
614.00	658.00	22.00	20.00	TGA	440.93675
615.00	665.00	25.00	20.50	TGA	440.93573
615.95	666.75	25.40	22.00	TGA	440.93702
618.00	682.00	32.00	25.00	TGU-BP	440.93862
619.10	671.50	26.20	19.05	TGU	440.93828
620.00	670.00	25.00	22.00	TGA	440.93619
620.00	670.00	25.00	22.00	TGU	440.93559
620.00	684.00	32.00	25.00	TGA	440.93834
620.00	684.00	32.00	25.00	TGU	440.93716
625.00	689.00	32.00	25.00	TGU	440.93981
630.00	690.00	30.00	30.00	TGU	440.93554
630.00	694.00	32.00	25.00	TGA	440.93909
630.00	694.00	32.00	25.00	TGU	440.93504
635.00	705.00	35.00	30.00	TGU	440.93621


Parts List

ød	ØD	B	L	Type	NBR/fabric N139
640.00	680.00	20.00	20.00	TGA	440.93811
640.00	704.00	32.00	25.00	TGU-BP	440.93630
650.00	690.00	20.00	18.00	TGU	440.93922
650.00	690.00	20.00	20.00	TGU	440.93731
650.00	700.00	25.00	22.00	TGA	440.93566
650.00	700.00	25.00	22.00	TGR	440.93717
650.00	714.00	32.00	25.00	TGA	440.93843
657.22	711.20	26.99	22.22	TGA	440.93813
660.00	700.00	20.00	18.00	TGA	440.93939
660.00	700.00	20.00	20.00	TGU	440.93688
660.00	704.00	22.00	20.00	TGUP	440.93540
660.00	724.00	32.00	25.00	TGU	440.93538
660.30	711.20	25.45	25.40	TGU-BP	440.93671
665.00	715.00	25.00	22.00	TGA	440.93722
665.00	729.00	32.00	25.00	TGU	440.93700
670.00	714.00	22.00	22.00	TGA	440.93551
670.00	734.00	32.00	25.00	TGA	440.93997
670.00	734.00	32.00	25.00	TGU	440.93703
676.00	740.00	32.00	28.00	TGA	440.93530
680.00	730.00	25.00	20.00	TGU	440.93948
685.00	749.00	32.00	25.00	TGU	440.93847
690.00	740.00	25.00	22.00	TGU	440.93768
690.00	740.00	25.00	25.00	TGU	440.93793
700.00	750.00	25.00	25.00	TGA	440.93698
700.00	750.00	25.00	25.00	TGU-BP	440.93642
700.00	760.00	30.00	30.00	TGU	440.93531
700.00	764.00	32.00	25.00	TGA	440.93928
700.00	764.00	32.00	25.00	TGU	440.93637
710.00	760.00	25.00	22.00	TGA	440.93784
710.00	770.00	30.00	30.00	TGU	440.93653
710.00	774.00	32.00	25.00	TGA	440.93826

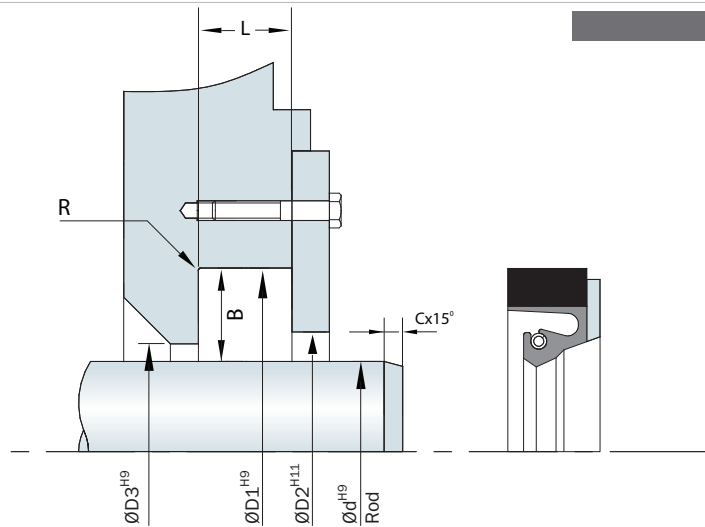

Parts List

$\varnothing d$	$\varnothing D$	B	L	Type	NBR/fabric N139
710.00	774.00	32.00	25.00	TGU	440.93805
720.00	768.00	24.00	25.00	TGA	440.93556
720.00	780.00	30.00	25.00	TGA	440.93620
720.00	784.00	32.00	25.00	TGU	440.93814
724.00	775.00	25.50	22.00	TGA	440.93701
730.00	780.00	25.00	20.00	TGR	440.93557
730.00	780.00	25.00	22.00	TGU	440.93682
730.00	794.00	32.00	25.00	TGA	440.93606
730.00	794.00	32.00	25.00	TGA	440.93563
730.00	794.00	32.00	25.00	TGU	440.93977
735.00	799.00	32.00	25.00	TGR	440.93634
735.00	799.00	32.00	25.00	TGU	440.93576
736.00	800.00	32.00	25.00	TGU	440.93794
740.00	780.00	20.00	16.50	TGA	440.93940
740.00	785.00	22.50	18.00	TGU	440.93975
744.00	808.00	32.00	25.00	TGU	440.93617
750.00	800.00	25.00	28.00	TGA	440.93806
750.00	810.00	30.00	25.00	TGU	440.93962
750.00	810.00	30.00	30.00	TGU	440.93724
750.00	814.00	32.00	25.00	TGA	440.93900
750.00	814.00	32.00	25.00	TGU	440.93691
750.00	814.00	32.00	25.40	TGU-BP	440.93659
750.00	814.00	32.00	28.00	TGA	440.93515
750.00	840.00	45.00	25.00	TGU	440.93908
751.00	814.00	31.50	25.40	TGU-BP	440.93986
760.00	804.00	22.00	20.00	TGA	440.93807
760.00	820.00	30.00	30.00	TGU	440.93929
760.00	824.00	32.00	25.00	TGU-BP	440.93971
762.00	825.50	31.75	25.40	TGU	440.93521
762.00	825.50	31.75	25.40	TGU-BP	440.93509
770.00	834.00	32.00	25.00	TGU	440.93823



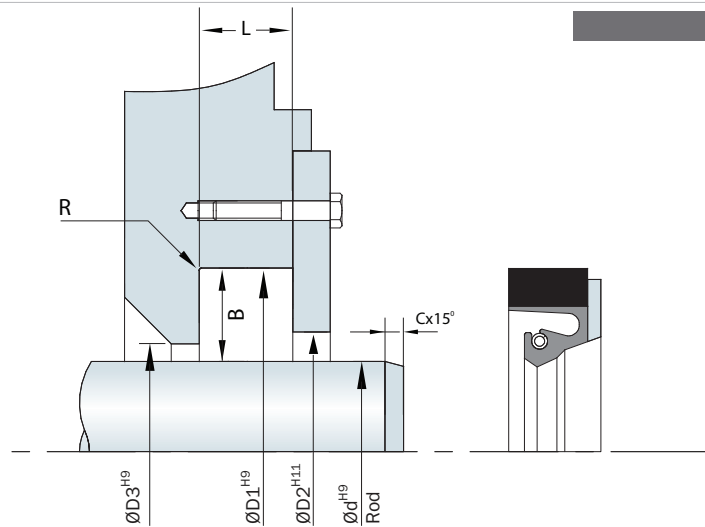
Parts List

ød	ØD	B	L	Type	NBR/fabric N139
773.70	825.50	25.90	23.01	TGU	440.93712
775.00	825.00	25.00	25.00	TGA	440.93861
775.00	839.00	32.00	25.00	TGA	440.93955
780.00	830.00	25.00	20.00	TGR	440.93639
780.00	830.00	25.00	22.00	TGA	440.93906
780.00	830.00	25.00	27.50	TGA	440.93871
780.00	830.00	25.00	27.50	TGA	440.93584
780.00	844.00	32.00	25.00	TGU	440.93709
780.00	844.00	32.00	25.00	TGU	440.93699
787.40	838.20	25.40	23.00	TGU	440.93742
790.00	834.00	22.00	25.00	TGA	440.93903
790.00	850.00	30.00	30.00	TGU	440.93711
790.00	854.00	32.00	25.00	TGA	440.93562
793.75	844.55	25.40	19.05	TGU	440.93715
800.00	860.00	30.00	30.00	TGU	440.93750
800.00	864.00	32.00	21.60	TGR	440.93959
800.00	864.00	32.00	25.00	TGA	440.93934
800.00	865.00	32.50	25.00	TGU	440.93845
810.00	860.00	25.00	25.00	TGU	440.93740
810.00	874.00	32.00	22.00	TGU	440.93547
810.00	874.00	32.00	25.00	TGA	440.93831
820.00	870.00	25.00	25.00	TGA	440.93723
820.00	884.00	32.00	25.00	TGA	440.93527
820.00	884.00	32.00	25.00	TGU	440.93565
820.00	884.00	32.00	28.00	TGU	440.93758
825.50	876.30	25.40	22.22	TGU	440.93686
825.50	876.30	25.40	25.40	TGU	440.93950
830.00	894.00	32.00	25.00	TGA	440.93776
830.00	894.00	32.00	25.00	TGU	440.93766
830.00	894.00	32.00	28.00	TGR	440.93899
838.20	889.00	25.40	23.00	TGU	440.93739

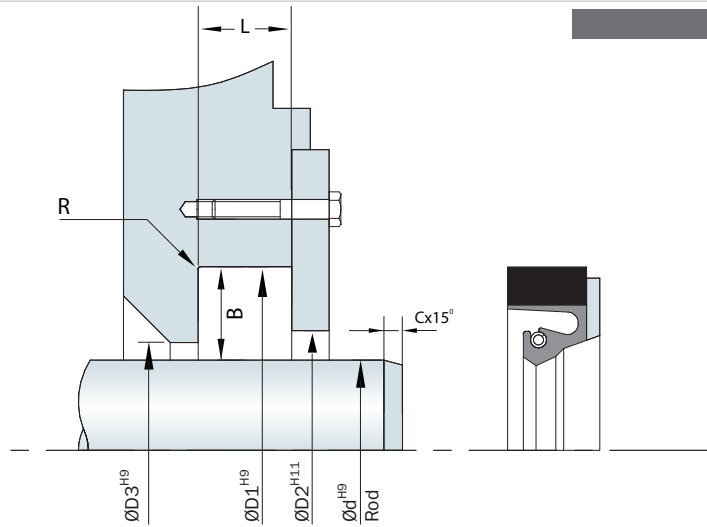


Parts List

ød	ØD	B	L	Type	NBR/fabric N139
840.00	880.00	20.00	18.00	TGA	440.93946
840.00	904.00	32.00	25.00	TGU	440.93984
840.00	904.00	32.00	25.00	TGU-BP	440.93918
840.20	890.25	25.03	22.22	TGU-BP	440.93754
850.00	890.00	20.00	20.00	TGUP	440.93622
850.00	900.00	25.00	22.00	TGU	440.93645
850.00	904.00	27.00	25.00	TGU	440.93726
850.00	910.00	30.00	30.00	TGU	440.93780
850.00	910.00	30.00	30.00	TGUP	440.93626
850.00	914.00	32.00	25.00	TGA	440.93855
850.00	914.00	32.00	25.00	TGU	440.93957
860.00	920.00	30.00	22.00	TGA	440.93761
860.00	924.00	32.00	25.00	TGA	440.93681
860.00	924.00	32.00	25.00	TGU-BP	440.93744
860.00	925.00	32.50	25.00	TGU	440.93526
860.00	950.00	45.00	32.00	TGU	440.93572
870.00	934.00	32.00	25.00	TGU	440.93548
873.12	936.62	31.75	31.75	TGU	440.93738
880.00	944.00	32.00	25.00	TGA	440.93644
880.00	944.00	32.00	25.40	TGA	440.93911
890.00	930.00	20.00	18.00	TGA	440.93938
890.00	954.00	32.00	25.00	TGA	440.93597
900.00	960.00	30.00	30.00	TGA	440.93595
900.00	960.00	30.00	30.00	TGU	440.93942
900.00	964.00	32.00	32.00	TGU	440.93732
901.70	952.50	25.40	22.22	TGA	440.93541
910.00	974.00	32.00	25.00	TGA	440.93629
910.00	974.00	32.00	25.00	TGU	440.93786
910.00	974.00	32.00	25.40	TGU	440.93599
914.40	977.90	31.75	22.22	TGA	440.93801
920.00	984.00	32.00	25.00	TGU	440.93879


Parts List

ød	ØD	B	L	Type	NBR/fabric N139
927.10	990.60	31.75	31.75	TGU	440.93585
930.00	980.00	25.00	22.00	TGR	440.93505
930.00	994.00	32.00	25.00	TGA	440.93803
933.40	984.23	25.42	22.22	TGU	440.93810
936.00	1003.00	33.50	25.40	TGR	440.93760
940.00	1000.00	30.00	25.00	TGUP	440.93792
950.00	990.00	20.00	18.00	TGU	440.93838
950.00	990.00	20.00	20.00	TGU	440.93951
950.00	1000.00	25.00	25.00	TGU	440.93790
950.00	1000.00	25.00	25.00	TGU	440.93825
950.00	1010.00	30.00	30.00	TGU	440.93864
950.00	1014.00	32.00	25.00	TGA	440.93865
950.00	1014.00	32.00	25.00	TGU-BP	440.93883
960.00	1024.00	32.00	25.00	TGU	440.93713
965.20	1016.00	25.40	22.22	TGU	440.93815
965.20	1016.00	25.40	22.22	TGUP	440.93587
970.00	1020.00	25.00	22.00	TGA	440.93881
970.00	1020.00	25.00	25.00	TGU	440.93609
970.00	1030.00	30.00	21.50	TGA	440.93921
970.00	1030.00	30.00	22.00	TGA	440.93915
970.00	1034.00	32.00	25.00	TGA	440.93818
970.00	1034.00	32.00	25.00	TGU	440.93982
985.00	1045.00	30.00	25.00	TGA	440.93798
1000.00	1064.00	32.00	25.00	TGU	440.93973
1000.00	1064.00	32.00	25.00	TGU-BP	440.93747
1014.50	1078.20	31.85	25.40	TGU	440.93607
1014.50	1078.20	31.85	25.40	TGU-BP	440.93529
1016.00	1043.10	13.55	13.70	TGU	440.93853
1020.00	1084.00	32.00	25.00	TGA	440.93546
1020.00	1084.00	32.00	25.00	TGU	440.93633
1040.00	1100.00	30.00	25.00	TGU	440.93787



Parts List

ød	ØD	B	L	Type	NBR/fabric N139
1040.00	1100.00	30.00	25.00	TGUP	440.93610
1060.00	1124.00	32.00	25.00	TGU	440.93885
1105.00	1175.00	35.00	25.00	TGU-BP	440.93812
1110.00	1174.00	32.00	25.00	TGU	440.93860
1155.70	1193.80	19.05	20.62	TGA	440.93988
1155.70	1193.80	19.05	23.02	TGR	440.93789
1220.00	1284.00	32.00	25.00	TGA	440.93561
1250.00	1314.00	32.00	25.60	TGA	440.93974
1300.00	1364.00	32.00	25.60	TGR	440.93605
1400.00	1464.00	32.00	20.00	TGA	440.93683
1540.00	1590.00	25.00	22.00	TGU	440.93650
1610.00	1670.00	30.00	20.00	TGA	440.93656