

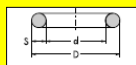
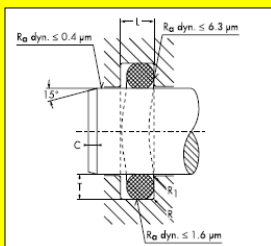
MARYLAND METRICS Technical Data Chart
Groove sizes for rotating and oscillating O-rings:

Selection criteria:

The selection of the correct O-ring for a particular application depends on the familiar criteria of: pressure, medium and temperature.

Medium and temperature largely determine the choice of O-ring material. This selection can be made with the aid of the tables.

Cord Diam. Ø S [mm]	Groove Depth [mm]		Groove Width [mm]		R [mm]	R1 [mm]	C [mm]
	T	Tol.	L	Tol.			
1	0.9		1.1				
1.2	1.1		1.35				
1.25	1.15		1.4		0.1		1.2
1.5	1.4		1.65				
1.6	1.5		1.75				
1.78	1.7	-0.02	2			0.1	
2	1.85		2.2				
2.4	2.25		2.65				1.5
2.5	2.35		2.75				
2.62	2.5		2.9		0.2		
3	2.85		3.3				
3.15	3		3.45				2
3.53	3.3		3.85				
4	3.5		4.4	0.1	0.3		
4.5	4.3		5				2.5
5	4.75	-0.03	5.5				
5.33	5.05		5.8		0.4		
5.5	5.25		6.1				
5.7	5.4		6.3				
6	5.7		6.6			0.2	3.5
6.3	6		6.9		0.5		
6.5	6.2		7.2				
6.99	6.65		7.7				
8	7.5		8.8				
8.4	8	-0.05	9.3		0.6		4.5
9	8.55		9.9				
10	9.5		11				

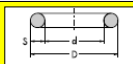
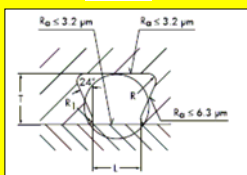
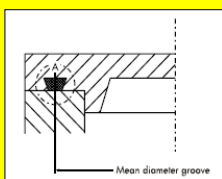


d = 1.05 x shaft diameter

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MARYLAND METRICS Technical Data Chart
Groove sizes for O-ring keystone grooves, static:

Cord Diam. Ø S	Groove Depth		R	R1
	T-0.05	L+0.1		
3	2.4	2.65	0.5	0.15
3.53	2.8	3.05		
4	3.2	3.4		
4.5	3.65	3.75		0.25
5	4.15	4.1		
5.33	4.4	4.35	0.8	
5.5	4.5	4.6		
5.7	4.8	4.7		
6	5.05	4.95		
6.3	5.35	5.15		0.4
6.5	5.5	5.3		
6.99	5.95	5.65		
8	6.85	6.5		
8.4	7.25	6.8		
9	7.8	7.25	1.5	0.5
10	8.7	7.55		



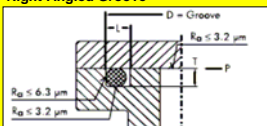
Selection of the appropriate O-ring sizes: Internal diameter O-ring = keystone core - S to 2 S

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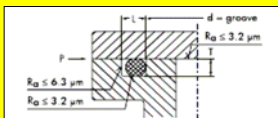
MARYLAND METRICS Technical Data Chart
Groove sizes for covers and flanges, static:

Cord Diam. Ø S [mm]	Right-Angled Groove			Triangular Groove	
	Groove Depth [mm]		Groove Width [mm]	Angle Size	
	T	Tol.		L+0.2	E Tol.
1	0.85		1.1	1.4	
1.2	1.05	-0.02	1.3	1.6	
1.25	1.07		1.4	1.7	
1.5	1.3		1.6	2	
1.6	1.4	-0.05	1.9	2.1	
1.78	1.55		2.1	2.4	
2	1.75		2.3	2.7	0.1
2.4	2.1		2.8	3.2	
2.5	2.2		2.9	3.4	
2.62	2.3		3	3.5	
3	2.6		3.4	4	
3.15	2.75		3.6	4.3	
3.53	3.05		4	4.8	
4	3.5		4.5	5.4	
4.5	3.95		5	6.1	
5	4.4		5.5	6.8	
5.33	4.7		5.9	7.2	
5.5	4.85	-0.1	6.1	7.5	
5.7	5		6.3	7.8	
6	5.25		6.7	8.2	0.2
6.3	5.55		7	8.5	
6.5	5.7		7.2	8.8	
6.99	6.15		7.7	9.5	
8	7		8.6	10.8	
8.4	7.4		9	11.4	
9	7.9		9.6	12.2	
10	8.8		10.7	13.6	

Right-Angled Groove

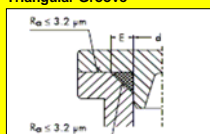


Outer diameter D equal or maximum 1% greater than outer groove diameter.



Inner diameter d the same or maximum 6% smaller than inner groove diameter.

Triangular Groove



Inner diameter d the same or maximum 6% smaller than chamber diameter.

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