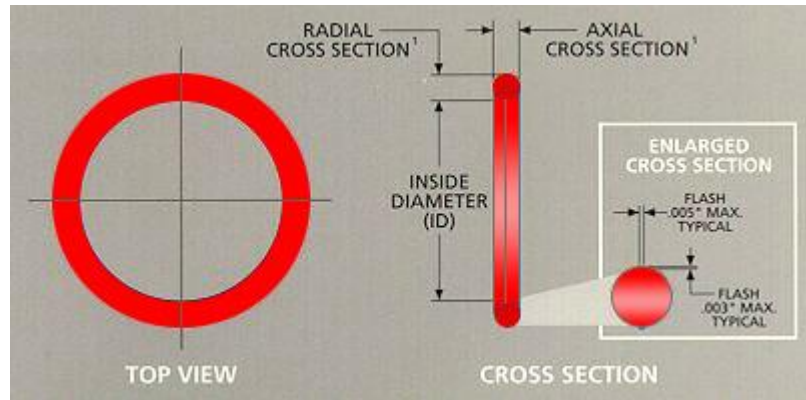
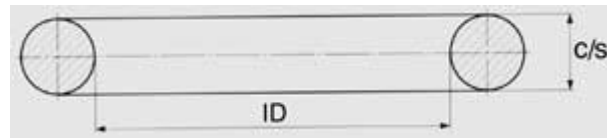


## O-Ring Technical data



## Rubber Cord Tolerance List Cross-section ISO 3302-1

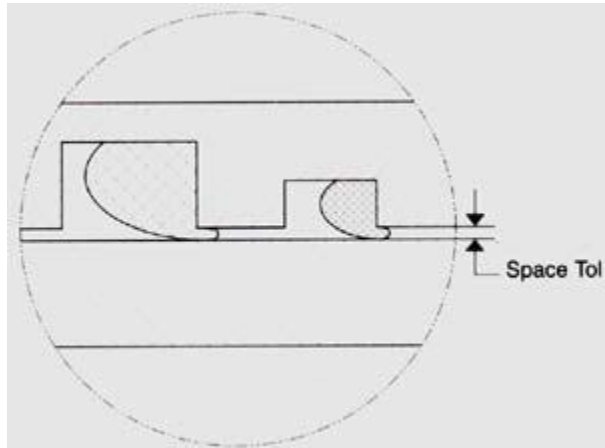
Size		Class E1 ±	Class E2 ±	Class E3 ±
From	To(include)			
0	1.5	0.15	0.25	0.40
1.5	2.5	0.20	0.35	0.50
2.5	4.0	0.25	0.40	0.70
4.0	6.3	0.35	0.50	0.80
6.3	10	0.40	0.70	1.00
10	16	0.50	0.80	1.30
16	25	0.70	1.00	1.60
25	40	0.80	1.30	2.00
40	63	1.00	1.60	2.50
63	100	1.30	2.00	3.20

E1: high quality  
 E2: good quality  
 E3: non-critical

## O-Ring Size Indication & Tolerance Chart

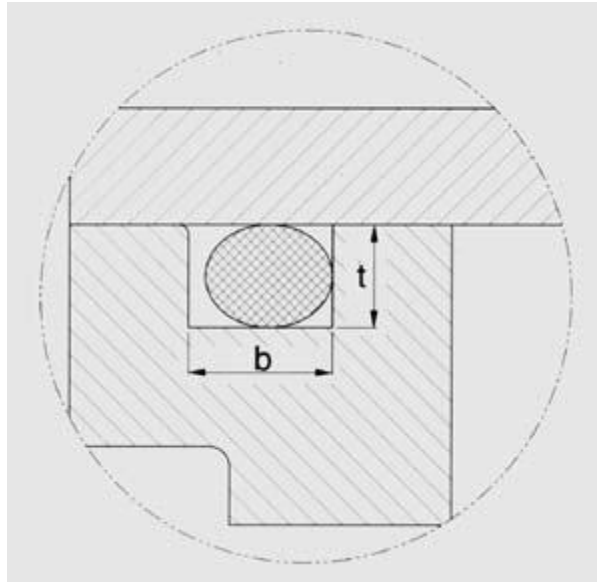
ID			TOL (±)	C/S			TOL (±)
	-	1.50	0.10		-	2.00	0.07
1.51	-	14.00	0.12	2.01	-	3.00	0.08
14.01	-	25.00	0.22	3.01	-	4.00	0.10
25.01	-	30.00	0.25	4.01	-	5.00	0.12
30.01	-	38.00	0.30	5.01	-	7.00	0.15
38.01	-	42.00	0.33	7.01	-	10.00	0.20
42.01	-	48.00	0.38	10.01	-	15.00	0.25
48.01	-	57.00	0.43	15.01	-	25.00	0.35
57.01	-	64.00	0.45	25.01	-	100.00	0.45
64.01	-	73.00	0.50				
73.01	-	89.00	0.60				
89.01	-	102.00	0.68				
102.01	-	105.00	0.71				
105.01	-	125.00	0.76				
125.01	-	153.00	0.88				
153.01	-	178.00	1.01				
178.01	-	203.00	1.14				
203.01	-	230.00	1.27				
230.01	-	267.00	1.39				
267.01	-	330.00	1.52				
330.01	-	381.00	1.65				
381.01	-	394.00	1.77				
394.01	-	418.00	1.90				
418.01	-	431.00	2.03				
431.01	-	470.00	2.15				
470.01	-	533.00	2.28				
533.01	-	558.00	2.54				
558.01	-	583.00	2.66				
583.01	-	610.00	2.79				
610.01	-	634.00	2.92				
634.01	-	660.00	3.04				
660.01	-	999.00	5.00				

## Hardness / Working pressure chart



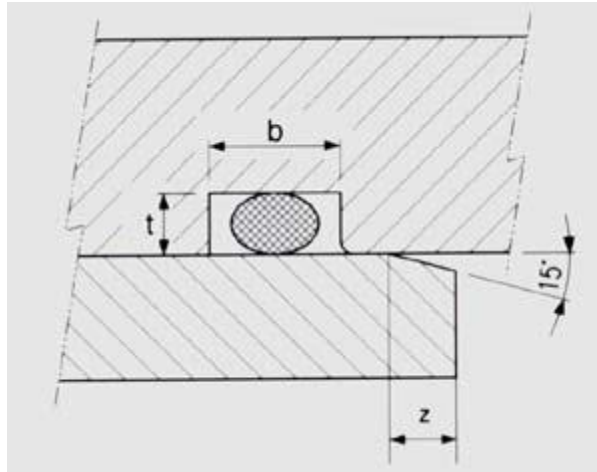
Pressure (kg/cm <sup>2</sup> )	Hardness Shore A	35 KG/CM <sup>2</sup>	70 KG/CM <sup>2</sup>	105 KG/CM <sup>2</sup>	140 KG/CM <sup>2</sup>	175 KG/CM <sup>2</sup>	210 KG/CM <sup>2</sup>	350 KG/CM <sup>2</sup>
Cross Section (mm)								
1.78	70	0.15	0.10	0.05				
	80	0.20	0.15	0.10	0.05	0.03		
	90	0.25	0.20	0.13	0.10	0.08	0.05	0.03
2.62	70	0.18	0.13	0.08				
	80	0.25	0.18	0.13	0.08	0.04		
	90	0.30	0.25	0.18	0.13	0.10	0.08	0.04
3.53	70	0.20	0.15	0.10				
	80	0.30	0.20	0.15	0.10	0.05		
	90	0.40	0.30	0.20	0.15	0.13	0.10	0.05
5.34	70	0.25	0.18	0.13				
	80	0.35	0.25	0.18	0.13	0.06		
	90	0.45	0.35	0.25	0.18	0.15	0.13	0.06
7.00	70	0.30	0.20	0.15				
	80	0.40	0.30	0.20	0.15	0.07		
	90	0.50	0.40	0.30	0.20	0.18	0.15	0.07

## O-Ring Fitting Dimension Chart (Static)



c/s	t	b		c/s	t	b
1.00	0.80	1.3				
1.50	1.10	1.9		5.00	4.00	6.5
1.60	1.20	2.1		5.33	4.30	6.9
1.78	1.30	2.3		5.50	4.50	7.1
1.90	1.40	2.4		5.70	4.65	7.4
2.00	1.50	2.6		6.00	4.95	7.8
2.40	1.80	3.1		6.50	5.40	8.4
2.50	1.90	3.2		6.99	5.85	9.1
2.62	2.00	3.4		7.00	5.85	9.1
2.70	2.10	3.5		7.50	6.30	9.7
3.00	2.30	3.9		8.00	6.75	10.4
3.50	2.70	4.5		8.40	7.15	10.9
3.53	2.70	4.5		8.50	7.25	11.0
3.60	2.80	4.7		9.00	7.70	11.7
4.00	3.15	5.2		9.50	8.20	12.3
4.50	36.0	5.8		10.00	8.65	13.0

## O-Ring Fitting Dimension Chart (Dynamic)



Medium = LIQUID

c/s	t	b	Z	c/s	t	b	Z
1.00	0.90	1.3	1.0	5.00	4.45	6.0	2.5
1.50	1.30	1.9	1.0	5.33	4.70	6.4	2.7
1.60	1.40	2.0	1.1	5.50	4.95	6.6	2.8
1.78	1.50	2.3	1.1	5.70	5.10	6.9	3.0
1.90	1.60	2.4	1.2	6.00	5.40	7.2	3.1
2.00	1.70	2.4	1.2	6.50	5.80	7.8	3.3
2.40	2.10	2.9	1.4	6.99	6.30	8.4	3.6
2.50	2.20	3.0	1.4	7.00	6.30	8.4	3.6
2.62	2.30	3.1	1.5	7.50	6.70	9.0	3.8
2.70	2.40	3.2	1.5	8.00	7.20	9.6	4.0
3.00	2.60	3.6	1.6	8.40	7.60	10.1	4.2
3.50	3.10	4.2	1.8	8.50	7.70	10.2	4.2
3.53	3.10	4.2	1.8	9.00	8.20	10.8	4.3
3.60	3.20	4.3	1.8	9.50	8.60	11.4	4.4
4.00	3.50	4.8	2.0	10.00	9.10	12.0	4.5
4.50	4.00	5.4	2.3				

Medium = AIR

c/s	t	b	Z	C/S	t	b	Z
1.00	0.95	1.3	1.0	5.00	4.65	6.0	2.5
1.50	1.35	1.9	1.0	5.33	4.95	6.4	2.7
1.60	1.45	2.0	1.1	5.50	5.15	6.6	2.8
1.78	1.55	2.3	1.1	5.70	5.35	6.9	3.0
1.90	1.75	2.4	1.2	6.00	5.65	7.2	3.1
2.00	1.80	2.4	1.2	6.50	6.10	7.8	3.3
2.40	2.15	2.9	1.4	6.99	6.60	8.4	3.6
2.50	2.25	3.0	1.4	7.00	6.60	8.4	3.6
2.62	2.35	3.1	1.5	7.50	7.10	9.0	3.8
2.70	2.45	3.2	1.5	8.00	7.60	9.6	4.0
3.00	2.75	3.6	1.6	8.40	7.90	10.1	4.2
3.50	3.25	4.2	1.8	8.50	8.00	10.2	4.2

3.53	3.25	4.2	1.8	9.00	8.50	10.8	4.3
3.60	3.35	4.3	1.8	9.50	9.00	11.4	4.4
4.00	3.70	4.8	2.0	10.00	9.50	12.0	4.5
4.50	4.20	5.4	2.3				