INTERNAL – SINGLE-TURN LIGHT DUTY

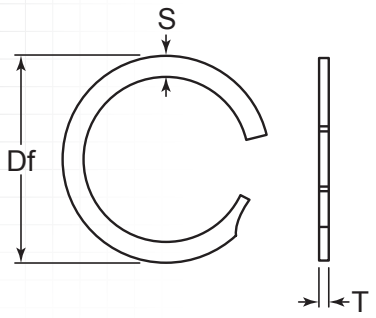
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DESCRIPTION

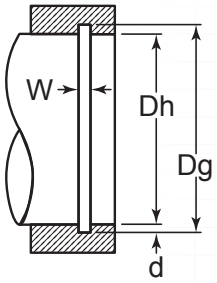
These single-turn rings are ideal for light duty applications where axial positioning is the primary function. *See page 221 for thrust load comparisons.*

HOW TO IDENTIFY

1. Verify single-turn notched design and appearance.
2. Measure the housing diameter (Dh).
3. Measure the ring free outside diameter (Df).
4. Measure the thickness (T).
5. Measure the radial wall (S).
6. Find the part in the chart.



Ring Dimensions



Groove Dimensions

Item #	Housing Diameter	Groove Size					Ring Size & Weight						Thrust Load lbs.	
		Diameter		Width		Depth	Free Diameter		Thickness		Section		Ring Safety Factor of 3	Groove Safety Factor of 2
	Dh	Dg	Tol.	W	Tol.	d	Df	Tol.	T	Tol.	S	Tol.		
UR-050	.500"	.528"	±.002"	.022"	+.002/ -.000"	.014"	.531"	+.013/ -.000"	.018"	±.0015"	.045"	±.004"	1,300	500
UR-056	.562"	.590"	±.002"	.022"		.014"	.593"		.018"	±.0015"	.045"	±.004"	1,460	560
UR-062	.625"	.653"	±.002"	.022"		.014"	.656"		.018"	±.0015"	.045"	±.004"	1,630	620
UR-068	.687"	.715"	±.002"	.022"		.014"	.719"		.018"	±.0015"	.045"	±.004"	1,790	680
UR-075	.75"	.779"	±.002"	.022"		.015"	.783"		.018"	±.0015"	.045"	±.004"	1,950	800
UR-081	.812"	.854"	±.003"	.026"		.021"	.862"		.021"	±.0015"	.065"	±.004"	2,460	1,210
UR-087	.875"	.917"	±.003"	.026"		.021"	.926"		.021"	±.0015"	.065"	±.004"	2,660	1,300
UR-093	.937"	.979"	±.003"	.026"		.021"	.989"		.021"	±.0015"	.065"	±.004"	2,840	1,390
UR-100	1.000"	1.042"	±.003"	.026"		.021"	1.052"		.021"	±.0015"	.065"	±.004"	3,040	1,480
UR-106	1.062"	1.106"	±.004"	.031"		.022"	1.117"	+.015/ -.000"	.025"	±.0015"	.088"	±.004"	3,500	1,650
UR-112	1.125"	1.169"	±.004"	.031"		.022"	1.180"		.025"	±.0015"	.088"	±.004"	3,710	1,750
UR-118	1.187"	1.231"	±.004"	.031"		.022"	1.242"		.025"	±.0015"	.088"	±.004"	3,920	1,850
UR-125	1.25"	1.294"	±.004"	.031"		.022"	1.307"		.025"	±.0015"	.088"	±.004"	4,120	1,940
UR-131	1.312"	1.356"	±.004"	.031"		.022"	1.369"		.025"	±.0015"	.088"	±.004"	4,330	2,040
UR-137	1.375"	1.419"	±.004"	.031"		.022"	1.433"		.025"	±.0015"	.088"	±.004"	4,540	2,140
UR-143	1.437"	1.481"	±.004"	.031"		.022"	1.496"		.025"	±.0015"	.088"	±.004"	4,740	2,240
UR-150	1.500"	1.544"	±.004"	.031"		.022"	1.559"		.025"	±.0015"	.088"	±.004"	4,950	2,330
UR-156	1.562"	1.619"	±.005"	.039"	+.003/ -.000"	.029"	1.637"	+.020/ -.000"	.031"	±.002"	.118"	±.004"	6,390	3,200
UR-162	1.625"	1.682"	±.005"	.039"		.029"	1.701"		.031"	±.002"	.118"	±.004"	6,650	3,330
UR-168	1.687"	1.744"	±.005"	.039"		.029"	1.763"		.031"	±.002"	.118"	±.004"	6,900	3,460
UR-175	1.750"	1.807"	±.005"	.039"		.029"	1.827"		.031"	±.002"	.118"	±.004"	7,160	3,590
UR-181	1.812"	1.869"	±.005"	.039"		.029"	1.890"		.031"	±.002"	.118"	±.004"	7,410	3,710
UR-187	1.875"	1.932"	±.005"	.039"		.029"	1.953"		.031"	±.002"	.118"	±.004"	7,670	3,840
UR-193	1.937"	1.994"	±.005"	.039"		.029"	2.016"		.031"	±.002"	.118"	±.004"	7,920	3,970
UR-200	2.000"	2.057"	±.005"	.039"		.029"	2.079"		.031"	±.002"	.118"	±.004"	8,180	4,100

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INTERNAL – SINGLE-TURN LIGHT DUTY

MATERIAL & HARDNESS

MATERIAL: CARBON SPRING STEEL
HARDNESS: ALL RING SIZES - HRC 42-52

UR

Item #	Housing Diameter	Groove Size					Ring Size & Weight						Thrust Load lbs.	
		Diameter		Width		Depth	Free Diameter		Thickness		Section		Ring Safety Factor of 3	Groove Safety Factor of 2
	Dh	Dg	Tol.	W	Tol.	d	Df	Tol.	T	Tol.	S	Tol.		
UR-206	2.062"	2.138"	±.006"	.039"		.038"	2.162"		.031"	±.002"	.158"	±.004"	8,430	5,540
UR-212	2.125"	2.201"	±.006"	.039"		.038"	2.226"		.031"	±.002"	.158"	±.004"	8,690	5,710
UR-218	2.187"	2.263"	±.006"	.039"		.038"	2.289"		.031"	±.002"	.158"	±.004"	8,950	5,870
UR-225	2.250"	2.326"	±.006"	.039"		.038"	2.352"		.031"	±.002"	.158"	±.004"	9,200	6,040
UR-231	2.312"	2.388"	±.006"	.039"		.038"	2.415"		.031"	±.002"	.158"	±.004"	9,460	6,210
UR-237	2.375"	2.451"	±.006"	.039"		.038"	2.478"		.031"	±.002"	.158"	±.004"	9,720	6,380
UR-243	2.437"	2.513"	±.006"	.039"		.038"	2.541"		.031"	±.002"	.158"	±.004"	9,970	6,550
UR-250	2.500"	2.576"	±.006"	.039"		.038"	2.605"	+.025/ -.000"	.031"	±.002"	.158"	±.004"	10,230	6,720
UR-256	2.562"	2.638"	±.006"	.039"		.038"	2.667"		.031"	±.002"	.158"	±.004"	10,480	6,880
UR-262	2.625"	2.701"	±.006"	.039"		.038"	2.731"		.031"	±.002"	.158"	±.004"	10,740	7,050
UR-268	2.687"	2.763"	±.006"	.039"		.038"	2.794"		.031"	±.002"	.158"	±.004"	10,990	7,220
UR-275	2.750"	2.826"	±.006"	.039"		.038"	2.857"		.031"	±.002"	.158"	±.004"	11,250	7,390
UR-281	2.812"	2.888"	±.006"	.039"		.038"	2.920"		.031"	±.002"	.158"	±.004"	11,500	7,550
UR-287	2.875"	2.951"	±.006"	.039"		.038"	2.983"		.031"	±.002"	.158"	±.004"	11,760	7,720
UR-293	2.937"	3.013"	±.006"	.039"		.038"	3.046"		.031"	±.002"	.158"	±.004"	12,010	7,890
UR-300	3.000"	3.076"	±.006"	.039"	+.003/ -.000"	.038"	3.110"		.031"	±.002"	.158"	±.004"	12,270	8,060
UR-306	3.062"	3.154"	±.006"	.044"		.046"	3.188"		.039"	±.002"	.188"	±.005"	15,760	9,960
UR-312	3.125"	3.217"	±.006"	.044"		.046"	3.251"		.039"	±.002"	.188"	±.005"	16,080	10,160
UR-318	3.187"	3.279"	±.006"	.044"		.046"	3.314"		.039"	±.002"	.188"	±.005"	16,400	10,360
UR-325	3.250"	3.342"	±.006"	.044"		.046"	3.377"		.039"	±.002"	.188"	±.005"	16,720	10,570
UR-331	3.312"	3.404"	±.006"	.044"		.046"	3.440"		.039"	±.002"	.188"	±.005"	17,040	10,770
UR-337	3.375"	3.467"	±.006"	.044"		.046"	3.504"		.039"	±.002"	.188"	±.005"	17,370	10,970
UR-343	3.437"	3.529"	±.006"	.044"		.046"	3.566"		.039"	±.002"	.188"	±.005"	17,690	11,180
UR-350	3.500"	3.592"	±.006"	.044"		.046"	3.630"	+.030/ -.000"	.039"	±.002"	.188"	±.005"	18,010	11,380
UR-356	3.562"	3.654"	±.006"	.044"		.046"	3.692"		.039"	±.002"	.188"	±.005"	18,330	11,580
UR-362	3.625"	3.717"	±.006"	.044"		.046"	3.756"		.039"	±.002"	.188"	±.005"	18,650	11,790
UR-368	3.687"	3.779"	±.006"	.044"		.046"	3.819"		.039"	±.002"	.188"	±.005"	18,970	11,990
UR-375	3.750"	3.842"	±.006"	.044"		.046"	3.882"		.039"	±.002"	.188"	±.005"	19,300	12,190
UR-381	3.812"	3.904"	±.006"	.044"		.046"	3.945"		.039"	±.002"	.188"	±.005"	19,620	12,400
UR-387	3.875"	3.967"	±.006"	.044"		.046"	4.009"		.039"	±.002"	.188"	±.005"	19,940	12,600
UR-393	3.937"	4.029"	±.006"	.044"		.046"	4.071"		.039"	±.002"	.188"	±.005"	20,260	12,800
UR-400	4.000"	4.092"	±.006"	.044"		.046"	4.135"		.039"	±.002"	.188"	±.005"	20,580	13,010

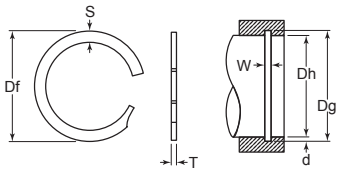
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* Some exclusions apply

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INTERNAL – SINGLE-TURN LIGHT DUTY

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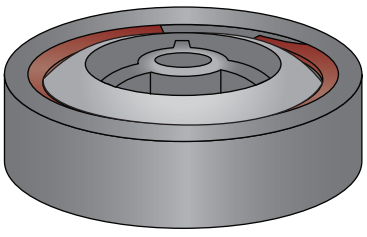


MATERIAL & HARDNESS

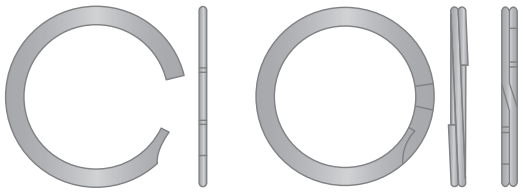
MATERIAL: CARBON SPRING STEEL
FOR UR HARDNESS, SEE PAGE 187

Item #	Housing Diameter	Groove Size					Ring Size & Weight						Thrust Load lbs.	
		Diameter		Width		Depth	Free Diameter		Thickness		Section		Ring Safety Factor of 3	Groove Safety Factor of 2
	Dh	Dg	Tol.	W	Tol.	d	Df	Tol.	T	Tol.	S	Tol.		
UR-412	4.125"	4.235"	±.006"	.052"		.055"	4.279"		.046"	±.002"	.225"	±.005"	23,850	16,040
UR-425	4.250"	4.360"	±.006"	.052"		.055"	4.405"		.046"	±.002"	.225"	±.005"	24,570	16,520
UR-437	4.375"	4.485"	±.006"	.052"		.055"	4.531"		.046"	±.002"	.225"	±.005"	25,290	17,010
UR-450	4.500"	4.610"	±.006"	.052"		.055"	4.658"	+.035/ -.000"	.046"	±.002"	.225"	±.005"	26,010	17,500
UR-462	4.625"	4.735"	±.006"	.052"		.055"	4.784"		.046"	±.002"	.225"	±.005"	26,740	17,980
UR-475	4.750"	4.860"	±.006"	.052"		.055"	4.910"		.046"	±.002"	.225"	±.005"	27,460	18,470
UR-487	4.875"	4.985"	±.006"	.052"		.055"	5.036"		.046"	±.002"	.225"	±.005"	28,180	18,950
UR-500	5.000"	5.110"	±.006"	.052"		.055"	5.163"		.046"	±.002"	.225"	±.005"	28,900	19,440
UR-525	5.250"	5.381"	±.007"	.067"		.066"	5.435"		.061"	±.002"	.225"	±.005"	40,240	24,490
UR-550	5.500"	5.638"	±.007"	.067"		.069"	5.694"		.061"	±.002"	.225"	±.005"	42,160	26,830
UR-575	5.750"	5.894"	±.007"	.067"	+.004/ -.000"	.072"	5.953"		.061"	±.002"	.225"	±.005"	44,080	29,260
UR-600	6.000"	6.150"	±.007"	.067"		.075"	6.212"	+.045/ -.000"	.061"	±.002"	.265"	±.005"	45,990	31,810
UR-625	6.250"	6.406"	±.008"	.067"		.078"	6.470"		.061"	±.002"	.265"	±.005"	47,910	34,460
UR-650	6.500"	6.663"	±.008"	.067"		.082"	6.730"		.061"	±.002"	.265"	±.005"	49,830	37,680
UR-675	6.750"	6.919"	±.008"	.067"		.085"	6.988"		.061"	±.002"	.265"	±.005"	51,740	40,560
UR-700	7.000"	7.175"	±.008"	.067"		.088"	7.247"		.061"	±.002"	.265"	±.005"	53,660	43,540
UR-725	7.250"	7.431"	±.008"	.067"		.091"	7.505"		.061"	±.002"	.265"	±.005"	55,580	46,640
UR-750	7.500"	7.688"	±.008"	.067"		.094"	7.765"		.061"	±.002"	.265"	±.005"	57,490	49,830
UR-775	7.750"	7.944"	±.008"	.067"		.097"	8.023"		.061"	±.002"	.300"		59,410	53,140
UR-800	8.000"	8.200"	±.008"	.067"		.100"	8.282"	+.060/ -.000"	.061"	±.002"	.300"		61,320	56,500
UR-825	8.250"	8.456"	±.008"	.067"		.103"	8.541"		.061"	±.002"	.300"		63,240	60,000
UR-850	8.500"	8.713"	±.008"	.067"		.107"	8.800"		.061"	±.002"	.300"		65,160	64,290
UR-875	8.750"	8.969"	±.008"	.082"		.110"	9.059"		.076"	±.002"	.345"	+.004/ -.008"	83,570	68,040
UR-900	9.000"	9.225"	±.008"	.082"		.113"	9.317"		.076"	±.002"	.345"		85,950	71,890
UR-925	9.250"	9.481"	±.008"	.082"	+.005/ -.000"	.116"	9.576"		.076"	±.002"	.345"		88,340	75,850
UR-950	9.500"	9.738"	±.008"	.082"		.119"	9.835"	+.070/ -.000"	.076"	±.002"	.345"		90,730	79,910
UR-975	9.750"	9.994"	±.008"	.082"		.122"	1.094"		.076"	±.002"	.345"		93,120	84,080
UR-1000	10.000"	1.250"	±.008"	.082"		.125"	1.353"		.076"	±.002"	.345"		95,500	88,360

APPLICATIONS



This single-turn spiral retaining ring installs tightly into the groove of this housing. The end design of the rings provide a nearly complete 360° support.



Single-turn vs. Multi-turn

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