INTERNAL – 2-TURN HEAVY DUTY

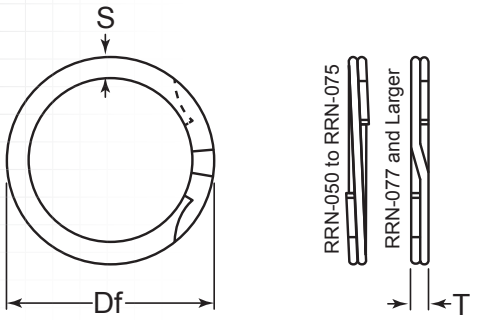
RRN

DESCRIPTION

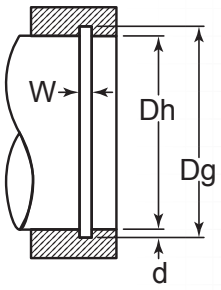
These 2-turn and multi-turn rings provide 360° groove contact and are designed for applications with medium-high thrust loads. *See page 221 for thrust load comparisons.*

HOW TO IDENTIFY

1. Verify multi-turn 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	
		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.		
RRN-050	.500"	.530"	±.002"	.039"		.015"	.538"		.035"	±.002"	.045"		2,530	530
RRN-051	.512"	.542"	±.002"	.039"		.015"	.550"		.035"	±.002"	.045"		2,590	540
RRN-056	.562"	.596"	±.002"	.039"		.017"	.605"		.035"	±.002"	.055"		2,840	680
RRN-062	.625"	.665"	±.002"	.039"		.020"	.675"		.035"	±.002"	.055"		3,160	880
RRN-068	.688"	.732"	±.002"	.039"		.022"	.743"		.035"	±.002"	.065"		3,480	1,070
RRN-075	.750"	.796"	±.002"	.039"		.023"	.807"		.035"	±.002"	.065"		3,790	1,220
RRN-077	.777"	.825"	±.003"	.046"	+.003/ -.000"	.024"	.836"		.042"	±.002"	.075"		4,720	1,320
RRN-081	.812"	.862"	±.003"	.046"		.025"	.873"		.042"	±.002"	.075"		4,930	1,440
RRN-086	.866"	.920"	±.003"	.046"		.027"	.931"		.042"	±.002"	.075"		5,260	1,650
RRN-087	.875"	.931"	±.003"	.046"		.028"	.943"		.042"	±.002"	.085"		5,310	1,730
RRN-090	.901"	.959"	±.003"	.046"		.029"	.972"		.042"	±.002"	.085"		5,470	1,850
RRN-093	.938"	1.000"	±.003"	.046"		.031"	1.013"	+.013/ -.000"	.042"	±.002"	.085"		5,690	2,060
RRN-100	1.000"	1.066"	±.003"	.046"		.033"	1.080"		.042"	±.002"	.085"		6,070	2,330
RRN-102	1.023"	1.091"	±.003"	.046"		.034"	1.105"		.042"	±.002"	.085"	+.003/ -.005"	6,210	2,460
RRN-106	1.062"	1.130"	±.004"	.056"		.034"	1.138"		.050"	±.002"	.103"		7,010	2,550
RRN-112	1.125"	1.197"	±.004"	.056"		.036"	1.205"		.050"	±.002"	.103"		7,420	2,860
RRN-118	1.188"	1.262"	±.004"	.056"		.037"	1.271"		.050"	±.002"	.103"		7,840	3,110
RRN-125	1.250"	1.330"	±.004"	.056"		.040"	1.339"		.050"	±.002"	.103"		8,250	3,530
RRN-131	1.312"	1.396"	±.004"	.056"		.042"	1.406"		.050"	±.002"	.118"		8,660	3,900
RRN-137	1.375"	1.461"	±.004"	.056"		.043"	1.471"		.050"	±.002"	.118"		9,070	4,180
RRN-143	1.439"	1.528"	±.004"	.056"	+.004/ -.000"	.045"	1.539"		.050"	±.002"	.118"		9,490	4,580
RRN-145	1.456"	1.548"	±.004"	.056"		.046"	1.559"		.050"	±.002"	.118"		9,610	4,730
RRN-150	1.500"	1.594"	±.004"	.056"		.047"	1.605"		.050"	±.002"	.118"		9,900	4,980
RRN-156	1.562"	1.658"	±.005"	.068"		.048"	1.675"		.062"	±.003"	.128"		12,780	5,300
RRN-162	1.625"	1.725"	±.005"	.068"		.050"	1.742"		.062"	±.003"	.128"		13,290	5,740
RRN-165	1.653"	1.755"	±.005"	.068"		.051"	1.772"	+.020/ -.000"	.062"	±.003"	.128"		13,520	5,960
RRN-168	1.688"	1.792"	±.005"	.068"		.052"	1.810"		.062"	±.003"	.128"		13,810	6,210
RRN-175	1.750"	1.858"	±.005"	.068"		.054"	1.876"		.062"	±.003"	.128"		14,320	6,680

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INTERNAL – 2-TURN HEAVY DUTY

MATERIAL

MATERIAL: CARBON SPRING STEEL



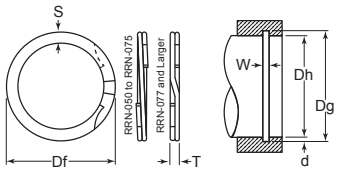
Item #	Housing Diameter	Groove Size					Ring Size & Weight						Thrust Load	
		Diameter		Width		Depth	Free Diameter		Thickness		Section		Ring Safety Factor of 3	Groove Safety Factor of 2
	Dh	Dg	Tol.	W	Tol.	d	Df	Tol.	T	Tol.	S	Tol.		
RRN-181	1.812"	1.922"	±.005"	.068"		.055"	1.940"		.062"	±.003"	.128"		14,820	7,050
RRN-185	1.850"	1.962"	±.005"	.068"		.056"	1.981"		.062"	±.003"	.158"		15,130	7,320
RRN-187	1.875"	1.989"	±.005"	.068"	+.004/ -.000"	.057"	2.008"	+.020/ -.000"	.062"	±.003"	.158"	+.003/ -.005"	15,340	7,560
RRN-193	1.938"	2.056"	±.005"	.068"		.059"	2.075"		.062"	±.003"	.158"		15,850	8,080
RRN-200	2.000"	2.122"	±.005"	.068"		.061"	2.142"		.062"	±.003"	.158"		16,360	8,620
RRN-206	2.062"	2.186"	±.006"	.086"		.062"	2.201"		.078"	±.003"	.168"		21,220	9,040
RRN-212	2.125"	2.251"	±.006"	.086"		.063"	2.267"		.078"	±.003"	.168"		21,870	9,460
RRN-218	2.188"	2.318"	±.006"	.086"		.065"	2.334"		.078"	±.003"	.168"		22,520	10,050
RRN-225	2.250"	2.382"	±.006"	.086"		.066"	2.399"		.078"	±.003"	.168"		23,160	10,500
RRN-231	2.312"	2.450"	±.006"	.086"		.069"	2.467"	+.025/ -.000"	.078"	±.003"	.200"		23,800	11,280
RRN-237	2.375"	2.517"	±.006"	.086"		.071"	2.535"		.078"	±.003"	.200"		24,440	11,920
RRN-244	2.440"	2.584"	±.006"	.086"		.072"	2.602"		.078"	±.003"	.200"		25,110	12,420
RRN-250	2.500"	2.648"	±.006"	.086"		.074"	2.667"		.078"	±.003"	.200"		25,730	13,080
RRN-253	2.531"	2.681"	±.006"	.086"		.075"	2.700"		.078"	±.003"	.200"		26,050	13,420
RRN-256	2.562"	2.714"	±.006"	.103"		.076"	2.733"		.093"	±.003"	.225"		29,940	13,760
RRN-262	2.625"	2.781"	±.006"	.103"		.078"	2.801"		.093"	±.003"	.225"		30,680	14,470
RRN-268	2.688"	2.848"	±.006"	.103"		.080"	2.868"		.093"	±.003"	.225"		31,410	15,200
RRN-275	2.750"	2.914"	±.006"	.103"		.082"	2.934"		.093"	±.003"	.225"		32,140	15,940
RRN-281	2.813"	2.980"	±.006"	.103"		.084"	3.001"	+.030/ -.000"	.093"	±.003"	.225"	+.004/ -.006"	32,880	16,700
RRN-283	2.834"	3.006"	±.006"	.103"		.086"	3.027"		.093"	±.003"	.225"		33,120	17,230
RRN-287	2.875"	3.051"	±.006"	.103"		.088"	3.072"		.093"	±.003"	.225"		33,600	17,880
RRN-300	3.000"	3.182"	±.006"	.103"		.091"	3.204"		.093"	±.003"	.225"		35,060	18,300
RRN-306	3.062"	3.248"	±.006"	.120"		.093"	3.271"		.111"	±.003"	.281"		42,710	20,130
RRN-312	3.125"	3.315"	±.006"	.120"	+.005/ -.000"	.095"	3.338"		.111"	±.003"	.281"		43,590	20,990
RRN-315	3.157"	3.348"	±.006"	.120"		.096"	3.371"		.111"	±.003"	.281"		44,040	21,420
RRN-325	3.250"	3.446"	±.006"	.120"		.098"	3.470"		.111"	±.003"	.281"		45,330	22,510
RRN-334	3.346"	3.546"	±.006"	.120"		.100"	3.571"		.111"	±.003"	.281"		46,670	23,650
RRN-347	3.464"	3.675"	±.006"	.120"		.105"	3.701"		.111"	±.003"	.281"		48,320	25,710
RRN-350	3.500"	3.710"	±.006"	.120"		.105"	3.736"		.111"	±.003"	.281"		48,820	25,980
RRN-354	3.543"	3.755"	±.006"	.120"		.106"	3.781"		.111"	±.003"	.281"		49,420	26,550
RRN-356	3.562"	3.776"	±.006"	.120"		.107"	3.802"		.111"	±.003"	.281"		49,690	26,940
RRN-362	3.625"	3.841"	±.006"	.120"		.108"	3.868"		.111"	±.003"	.281"		50,560	27,670
RRN-375	3.750"	3.974"	±.006"	.120"		.112"	4.002"	+.035/ -.000"	.111"	±.003"	.312"		52,310	29,690
RRN-387	3.875"	4.107"	±.006"	.120"		.116"	4.136"		.111"	±.003"	.312"		54,050	31,770
RRN-393	3.938"	4.174"	±.006"	.120"		.118"	4.203"		.111"	±.003"	.312"		54,930	32,850
RRN-400	4.000"	4.240"	±.006"	.120"		.120"	4.270"		.111"	±.003"	.312"		55,800	33,930
RRN-412	4.125"	4.365"	±.006"	.120"		.120"	4.369"		.111"	±.003"	.312"		57,540	34,990
RRN-425	4.250"	4.490"	±.006"	.120"		.120"	4.501"		.111"	±.003"	.312"	+.004/ -.008"	59,280	36,050
RRN-433	4.330"	4.570"	±.006"	.120"		.120"	4.588"		.111"	±.003"	.312"		60,400	36,730
RRN-450	4.500"	4.740"	±.006"	.120"		.120"	4.770"		.111"	±.003"	.312"		62,770	38,170
RRN-462	4.625"	4.865"	±.006"	.120"		.120"	4.899"		.111"	±.003"	.312"		64,510	39,230
RRN-475	4.750"	4.995"	±.006"	.120"		.123"	5.030"		.111"	±.003"	.312"		66,260	41,300
RRN-500	5.000"	5.260"	±.006"	.120"		.130"	5.297"		.111"	±.003"	.312"		69,740	45,950

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INTERNAL – 2-TURN HEAVY DUTY





MATERIAL

MATERIAL: CARBON SPRING STEEL

Item #	Housing Diameter	Groove Size					Ring Size & Weight						Thrust Load	
		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.		
RRN-525	5.250"	5.520"	±.007"	.139"	+.006/ -.000"	.135"	5.559"	+.050/ -.000"	.127"	±.004"	.350"	+.004/ -.008"	83,790	50,100
RRN-537	5.375"	5.645"	±.007"	.139"		.135"	5.690"		.127"	±.004"	.350"		85,780	51,290
RRN-550	5.500"	5.770"	±.007"	.139"		.135"	5.810"		.127"	±.004"	.350"		87,780	52,480
RRN-575	5.750"	6.020"	±.007"	.139"		.135"	6.062"		.127"	±.004"	.350"		91,770	54,870
RRN-600	6.000"	6.270"	±.007"	.139"		.135"	6.314"		.127"	±.004"	.350"		95,760	57,260
RRN-625	6.250"	6.530"	±.008"	.174"	+.008/ -.000"	.140"	6.576"	+.055/ -.000"	.156"	±.005"	.380"		122,520	61,850
RRN-650	6.500"	6.790"	±.008"	.174"		.145"	6.838"		.156"	±.005"	.380"		127,420	66,620
RRN-662	6.625"	6.925"	±.008"	.174"		.150"	6.974"		.156"	±.005"	.380"		129,870	70,240
RRN-675	6.750"	7.055"	±.008"	.174"		.153"	7.105"		.156"	±.005"	.380"		132,320	73,000
RRN-700	7.000"	7.315"	±.008"	.174"		.158"	7.366"		.156"	±.005"	.380"		137,230	78,180
RRN-725	7.250"	7.575"	±.008"	.209"		.163"	7.628"	+.070/ -.000"	.187"	±.005"	.418"		170,370	83,530
RRN-750	7.500"	7.840"	±.008"	.209"		.170"	7.895"		.187"	±.005"	.418"		176,240	90,120
RRN-775	7.750"	8.100"	±.008"	.209"		.175"	8.157"		.187"	±.005"	.418"		182,120	95,870
RRN-800	8.000"	8.360"	±.008"	.209"		.180"	8.419"		.187"	±.005"	.418"		187,990	101,790
RRN-825	8.250"	8.620"	±.008"	.209"		.185"	8.680"		.187"	±.005"	.437"		193,870	107,880
RRN-850	8.500"	8.880"	±.008"	.209"		.190"	8.942"		.187"	±.005"	.437"		199,740	114,160
RRN-875	8.750"	9.145"	±.008"	.209"		.198"	9.209"		.187"	±.005"	.437"		205,620	122,460
RRN-900	9.000"	9.405"	±.008"	.209"		.203"	9.471"		.187"	±.005"	.437"		211,490	129,140
RRN-925	9.250"	9.669"	±.008"	.209"		.210"	9.737"		.187"	±.005"	.437"		217,370	137,310
RRN-950	9.500"	9.930"	±.008"	.209"		.215"	10.000"		.187"	±.005"	.500"	+.005/ -.015"	223,240	144,380
RRN-975	9.750"	10.189"	±.008"	.209"		.220"	10.260"		.187"	±.005"	.500"		229,120	150,620
RRN-1000	10.000"	10.450"	±.008"	.209"		.225"	10.523"		.187"	±.005"	.500"		234,990	159,040
RRN-1025	10.250"	10.711"	±.008"	.209"		.235"	10.786"		.187"	±.005"	.500"		246,740	174,420
RRN-1050	10.500"	10.970"	±.008"	.209"		.231"	11.047"		.187"	±.005"	.500"		240,870	167,370
RRN-1075	10.750"	11.234"	±.010"	.209"		.242"	11.313"	+.120/ -.000"	.187"	±.005"	.500"		252,620	183,890
RRN-1100	11.000"	11.495"	±.010"	.209"		.248"	11.575"		.187"	±.005"	.500"		258,490	192,830
RRN-1125	11.250"	11.756"	±.010"	.209"		.253"	11.838"		.187"	±.005"	.500"		264,370	201,190
RRN-1150	11.500"	12.018"	±.010"	.209"		.259"	12.102"		.187"	±.005"	.562"		270,240	210,540
RRN-1175	11.750"	12.279"	±.010"	.209"		.265"	12.365"		.187"	±.005"	.562"		276,120	220,100
RRN-1200	12.000"	12.540"	±.010"	.209"		.270"	12.628"	+.120/ -.000"	.187"	±.005"	.562"		281,990	229,020
RRN-1225	12.250"	12.801"	±.010"	.209"		.276"	12.891"		.187"	±.005"	.562"		287,860	238,990
RRN-1250	12.500"	13.063"	±.010"	.209"		.282"	13.154"		.187"	±.005"	.562"		293,740	249,170
RRN-1275	12.750"	13.324"	±.012"	.209"		.287"	13.417"		.187"	±.005"	.562"		299,610	258,660
RRN-1300	13.000"	13.585"	±.012"	.209"		.293"	13.680"	+.140/ -.000"	.187"	±.005"	.662"		305,490	269,240
RRN-1325	13.250"	13.846"	±.012"	.209"		.298"	13.943"		.187"	±.005"	.662"		311,360	279,100
RRN-1350	13.500"	14.108"	±.012"	.209"		.304"	14.207"		.187"	±.005"	.662"		317,240	290,100
RRN-1375	13.750"	14.369"	±.012"	.209"		.310"	14.470"		.187"	±.005"	.662"		323,110	301,300
RRN-1400	14.000"	14.630"	±.012"	.209"		.315"	14.732"		.187"	±.005"	.662"		328,990	311,730
RRN-1425	14.250"	14.891"	±.012"	.209"		.321"	14.995"		.187"	±.005"	.662"		334,860	323,340
RRN-1450	14.500"	15.153"	±.012"	.209"		.327"	15.259"		.187"	±.005"	.750"		340,740	335,160
RRN-1475	14.750"	15.414"	±.012"	.209"		.332"	15.522"		.187"	±.005"	.750"		346,610	346,150
RRN-1500	15.000"	15.675"	±.012"	.209"		.338"	15.785"		.187"	±.005"	.750"		352,490	358,380

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