

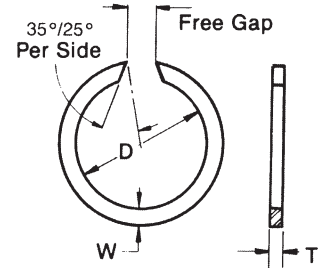
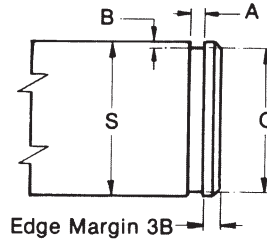
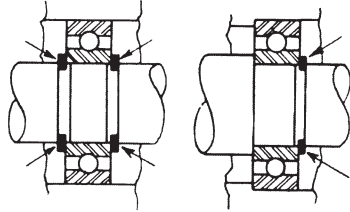


**Applicable Shaft
0.4724" to 4.3307"**

Standard Material
Carbon Spring Steel

Method of using snap rings to retain bearings on shafts.
Snap rings are used in place of shoulder or lock nuts.

**EXTERNAL
RETAINING
RINGS**



Material Steel SAE 1060 to 1075 Hardness R/C42-52

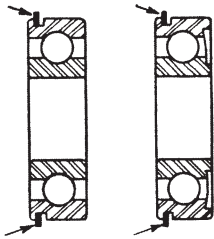
PART NUMBER	BASIC BEARING NUMBER			S SHAFT DIA. OR BEARING BORE		RING DIMENSIONS			GROOVE			FREE GAP			
						FREE DIAMETER		WIDTH W ±.005	THICK T ±.002	DIA.		WIDTH A	NOM. DEPTH B	MIN.	MAX.
						D inches	Tol. inches			C	Tol.				
584	201	301		.4724	12.00	.421	$^{+.000}_{-.020}$	.062 ±.003	.042	.436		.046 $^{+.003}_{-.000}$	.018	.062	.187
594	202	302		.5906	15.00	.538	+0.000	.078	.047	.550		.053 $^{+.004}_{-.000}$	.020		
614	203	303	403	.6693	17.00	.616	-.025	±.003		.629	±.002			.078	.218
639R	204	304	404	.7874	20.00	.710		.093 ±.003	.062	.731		.068 $^{+.004}_{-.000}$	.028		
698R	205	305	405	.9843	25.00	.910		.109 ±.003		.924			.030	.156	.312
740R	206	306	406	1.1811	30.00	1.093	+0.000	.125 ±.005	.075	1.111		.085 $^{+.004}_{-.000}$	.035		
823	207	307	407	1.3780	35.00	1.265	-.031	.156		1.288	±.004		.045	.250	.406
916R	208	308	408	1.5748	40.00	1.452		±.005	.093	1.465		.108 $^{+.005}_{-.000}$	.055		
974R	209	309	409	1.7717	45.00	1.625		.188		1.648			.062		
1065R	210	310	410	1.9685	50.00	1.820	+0.000	±.005		1.844					
1129R	211	311	411	2.1654	55.00	1.995	-.046	.218	.109	2.015		.120 $^{+.005}_{-.000}$	.075	.250	.468
1185	212	312	412	2.3622	60.00	2.187		±.005		2.212					
1258	213	313	413	2.5591	65.00	2.359				2.389					
1308R	214	314	414	2.7559	70.00	2.556		.250		2.586					
1378	215	315	415	2.9528	75.00	2.750	+0.000	±.005		2.783		.139 $^{+.006}_{-.000}$	.085	.250	.500
1407R	216	316	416	3.1496	80.00	2.946	-.062		.125	2.979	±.006				
1468R	217	317	417	3.3465	85.00	3.139				3.176					
1517R	218	318	418	3.5433	90.00	3.308	+0.000			3.343					
1551R	219	319	419	3.7402	95.00	3.500	-.078	.312		3.540				.312	.625
1572R	220	320	420	3.9370	100.00	3.697		±.005		3.737		.174 $^{+.008}_{-.000}$	.100		
2919R	221	321	421	4.1339	105.00	3.888	+0.000		.156	3.934				.312	.687
1625R	222	322	422	4.3307	110.00	4.080	-.093			4.131					

**Applicable Shaft
0.8661" to 9.4488"**

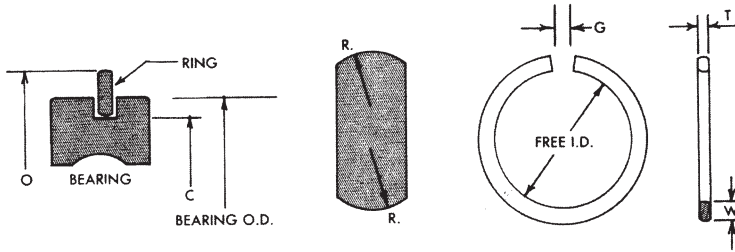
Standard Material
Carbon Spring Steel



**EXTERNAL
RETAINING
RINGS**



Conventional method of mounting and use of snap rings on open and shielded type bearings.



Material Steel SAE 1065 Tensile Strength 200 M to 250 M P.S.I. R/C 40-50

XX Gap "G" dimension applies when ring diameter is held to dimension under column marked I.D. Measurement is the straight line distance between nearest gap edges on inner periphery of ring.

PART NUMBER	BEARING NUMBER				BEARING O.D.		RING DIMENSIONS—FREE			GROOVE Dia. C	ASSEMBLED O.D. O	GAP XX G	RADIUS MAX R	WEIGHT PER M
	Extra Light	Light	Med.	Heavy	(M.M.) D	Inches D	FREE I.D.		THICK T ±.002					
							I.D.	Tol.						
1957		37-38			22	.8661	.799	+ ^{.000} _{-.015}	.094		.8125	1.000		2.7
743-4		200			30	1.1811	1.094				1.109	1.359		5.6
781-2	102	201			32	1.2598	1.172		.125		1.187	1.437	3/32	6.0
2046	103	202	300		35	1.3780	1.291	+0.000		.042	1.306	1.547	±	6.6
2976-1			301		37	1.4567	1.354	-.020			1.369	1.609	1/32	7.0
939-2		203			40	1.5748	1.485				1.500	1.750		7.8
954	104		302		42	1.6535	1.550				1.565	1.812		7.8
1039	105	204	303		47	1.8504	1.741		.156		1.756	2.062		11.0
1117-2		205	304		52	2.0472	1.943				1.958	2.265		12.1
3918-1	106				55	2.1654	2.056	+0.000			2.071	2.375	1/8	12.8
1245-6	107	206	305	403	62	2.4409	2.322	-.030			2.347	2.656	±	21.9
2261	108				68	2.6772	2.527			.065	2.552	2.922	1/32	29.1
1356-7		207	306	404	72	2.8346	2.684				2.709	3.078		30.8
3919-1	109				75	2.9528	2.803				2.828	3.203		32.1
1438-5	110	208	307	405	80	3.1496	2.999		.188		3.024	3.406		34.2
1490-5		209			85	3.3465	3.196	+0.000			3.221	3.594	5/32	36.7
1534-4	111	210	308	406	90	3.5433	3.392	-.046			3.417	3.797	±	56.5
3920-1	112				95	3.7402	3.590			.095	3.615	3.984	3/64	59.7
1598-1	113	211	309	407	100	3.9370	3.786				3.811	4.187		62.1
1642-3	114	212	310	408	110	4.3307	4.180				4.205	4.578		68.7
3126	115				115	4.5276	4.377	+0.000			4.402	4.781	3/16	72.2
1675-4		213	311	409	120	4.7244	4.506	-.062			4.536	5.094	±	128.8
1693	116	214			125	4.9213	4.703		.281		4.733	5.297	1/16	136.0
1706-3	117	215	312	410	130	5.1181	4.900			.109	4.930	5.500		139.5
1730-5	118	216	313	411	140	5.5118	5.294				5.324	5.890	9/32	150.4
3921-1	119				145	5.7087	5.491	+0.000			5.521	6.078	±	155.0
1744-5	120	217	314	412	150	5.9055	5.688	-.093			5.718	6.281	1/16	160.9
1764-1	121	218	315	413	160	6.2992	6.081				6.111	6.672		171.7
1773-2	122	219	316		170	6.6929	6.413				6.443	7.187		267.4
1787-1	124	220	317	414	180	7.0866	6.807				6.837	7.594	3/8	284.4
1849-1		221	318	415	190	7.4803	7.200	+0.000			7.230	7.984	±	300.1
2165-2	126	222	319	416	200	7.8740	7.594	-.125	.375	.120	7.624	8.375	1/16	309.1
3922-1	128			417	210	8.2677	7.987				8.018	8.766		319.0
3923-1		224	320		215	8.4646	8.184				8.215	8.969		338.4
3924-1	1 30		321	418	225	8.8583	8.578	+0.000			8.6083	9.328	15/32	349.0
3925-1		226			230	9.0551	8.775	-.156			8.8051	9.562	±	362.0
3926-1	1 32		322		240	9.4488	9.168				9.1988	9.953	3/32	375.4