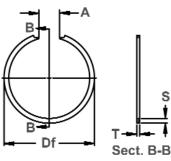


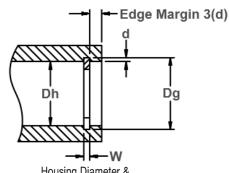
## Snap Ring, Internal, Metric

Designed for SAE Standard Metric Bearings.

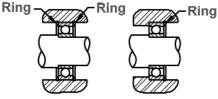
Once installed in the groove of a housing/bore the portion of the ring protruding from the groove holds an assembly in place.



Free Diameter & Ring Measurement with Section B-B



Housing Diameter & Groove Dimensions



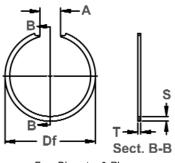
Ring Depicted retaining outer race of bearing in two directions (left) and in one direction (right).

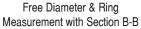
Material: SAE 1060-1075

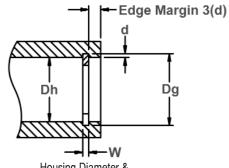
RING	BEAF	ING NU	MBER	HOU	ISING		OVE SI	ZE		RING DIMENESIONS						
NUMBER				DIAMETER Dh Dh		DIAMETER		WIDTH		DEPTH	FREE DIAMETER		THICKNESS	SECTION		GAP AT
															MIN. FREE	
	LIGHT	MED.	HEAVY	DEC	mm I	Dq	TOL.	w	TOL.	d	Df I	TOL.	T ±.002	S	TOL.	0.D.
HBL-30	200	IIILD.	IILAV.	1.1811	29.93	1.243	102.	.035	TOL.	.031	1.265	102.	.031	.100	±.003	
HBM-30				1.1811	29.93	1.253	1	.046		.036	1.265		.042	.125	±.005	
HBH-30				1.1811	29.93	1.251	1	.068		.035	1.271		.062	.109	±.003	
HBL-32	201			1.2598	31.93	1.321	1	.035		.031	1.349	+.031	.031	.100		.375
HBM-32				1.2598	31.93	1.331	1	.046		.036	1.343	000	.042	.125	±.005	+.080
HBH-32				1.2598	31.93	1.329	1	.068		.035	1.365		.062	.109	±.003	000
HBL-35	202			1.3780	34.92	1.440	1	.035		.031	1.468		.031	.100		
HBM-35		300		1.3780	34.92	1.450		.046		.036	1.468		.042	.125	±.005	
HBH-35				1.3780	34.92	1.458		.068		.040	1.486		.062	.140		
HBL-37				1.4567	36.92	1.518	±.005	.035		.031	1.546		.031	.100	±.003	
HBM-37		301		1.4567	36.92	1.528		.046		.036	1.546		.042	.125		
HBH-37				1.4567	36.92	1.536		.068		.040	1.564		.062	.140		
HBL-40	203			1.5748	39.91	1.654		.046		.040	1.687		.042	.125		
HBM-40				1.5748	39.91	1.668		.046		.047	1.703		.042	.156		
HBH-40				1.5748	39.91	1.668		.068		.047	1.703		.062	.156		
HBL-42				1.6535	41.90	1.733		.046		.040	1.765		.042	.125		
HBM-42		302		1.6535	41.90	1.747		.046		.047	1.781	+.046	.042	.156		.437
HBH-42				1.6535	41.90	1.747		.062		.047	1.781	000	.062	.156		+.093
HBL-47	204			1.8504	46.89	1.930		.046		.040	1.968		.042	.125		000
HBM-47		303		1.8504	46.89	1.944		.046		.047	1.968		.042	.156		
HBH-47				1.8504	46.89	1.951		.068		.050	1.976		.062	.172		
HBL-52	205			2.0472	51.88	2.137		.046	+.004	.045	2.171		.042	.156		
HBM-52		304		2.0472	51.88	2.141		.046	000	.047	2.171		.042	.156		
HBH-52				2.0472	51.88	2.148		.068		.050	2.179		.062	.172		
HBL-62	206	00-		2.4409	61.86	2.530		.068		.045	2.562		.062	.156	±.005	
HBM-62		305	100	2.4409	61.86	2.544		.068		.052	2.562		.062	.156		
HBH-62			403	2.4409	61.86	2.565		.103		.062	2.593		.093	.187		
HBL-72	207	000		2.8346	71.83	2.934	±.006	.068		.050	2.968		.062	.156		
HBM-72		306	10.1	2.8346	71.83	2.959		.068		.062	2.984		.062	.187		500
HBH-72	200		404	2.8346	71.83	2.959		.103		.062	3.000		.093	.187		.562
HBL-80	208	007		3.1496	79.82	3.249		.068		.050	3.281	+.062	.062	.156		+.093
HBM-80		307	405	3.1496	79.82	3.274		.068		.062	3.296	000	.062	.187		000
HBH-80	000		405	3.1496	79.82	3.274		.103		.062	3.312		.093	.218		
HBL-85	209			3.3465	84.81	3.446		.068		.050	3.484		.062	.156		
HBM-85				3.3465	84.81	3.471		.068		.062	3.500		.062	.187		
HBH-85				3.3465	84.81	3.471		.103		.062	3.500		.093	.218		

Hardness: All Ring Sizes - HRC 42-52

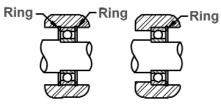








Housing Diameter & Groove Dimensions



Ring Depicted retaining outer race of bearing in two directions (left) and in one direction (right).

Material: SAE 1060-1075

RING	BEAR	ING NU	MBER	HOU	JSING	GROOVE SIZE					RING DIMENESIONS						
NUMBER				DIAMETER		DIAMETER		WIDTH		DEPTH	FREE DIAMETER		THICKNESS	SECTION		GAP AT	
			Di Di												MIN. FREE		
	LIGHT	MED.	HEAVY	Dh DEC	Dh mm	Da	TOL.	w	TOL.	d	Df	TOL.	T ±.002	S	TOL.	0.D.	
HBL-90	210	IIILD.	IILAVI	3.5433	89.79	3.643	102.	.103	102.	.050	3.687	102.	.093	.156	TOL.		
HBM-90	2.0	308		3.5433	89.79	3.668	i	.103	i	.062	3.703	1	.093	.187			
HBH-90			406	3.5433	89.79	3.713	1	.139	1	.085	3.750	1	.125	.250			
HBL-100	211			3.9370	100.00	4.062	1	.103	1	.062	4.093	1	.093	.187		.687	
HBM-100		309		3.9370	100.00	4.107	1	.103	1	.085	4.140	1	.093	.250		+.093	
HBH-100			407	3.9370	100.00	4.107	]	.139	]	.085	4.140	]	.125	.250		000	
HBL-110	212			4.3307	110.00	4.455	±.006	.103	]	.062	4.500	+.093	.093	.187			
HBM-110		310		4.3307	110.00	4.500		.103		.085	4.531	000	.093	.250			
HBH-110			408	4.3307	110.00	4.500		.139		.085	4.531	]	.125	.250			
HBL-120	213			4.7244	120.00	4.884		.120		.080	4.937	]	.109	.250			
HBM-120		311		4.7244	120.00	4.912		.120		.094	4.953	]	.109	.281			
HBH-120			409	4.7244	120.00	4.894		.139		.085	4.937	1	.125	.250			
HBL-125	214			4.9213	125.00	5.081		.120		.080	5.125	]	.109	.250			
HBM-125				4.9213	125.00	5.109		.120		.094	5.156	1	.109	.281			
HBH-125				4.9213	125.00	5.121		.174	+.004	.100	5.151		.156	.312	±.005		
HBL-130	215			5.1181	130.00	5.278		.120	000	.080	5.312		.109	.250		.875	
HBM-130		312		5.1181	130.00	5.306		.120		.094	5.343		.109	.281		+.125	
HBH-130			410	5.1181	130.00	5.318		.174		.100	5.355		.156	.312		000	
HBL-140	216			5.5118	140.00	5.671		.120		.080	5.703		.109	.250			
HBM-140		313		5.5118	140.00	5.699		.120		.094	5.750	+.125	.109	.281			
HBH-140	21-		411	5.5118	140.00	5.711	±.007	.174		.100	5.750	000	.156	.312			
HBL-150	217	211		5.9055	150.00	6.065		.120		.080	6.093		.109	.250			
HBM-150		314		5.9055	150.00	6.093		.120		.094	6.125		.109	.281			
HBH-150	010		412	5.9055	150.00	6.105		.174		.100	6.156		.156	.312			
HBL-160	218	0.15		6.2992	160.00	6.459		.120		.080	6.500		.109	.250			
HBM-160		315	440	6.2992	160.00	6.497		.120		.094	6.550		.109	.281			
HBH-160	010		413	6.2992	160.00	6.500		.174		.100	6.550		.156	.312			
HBL-170 HBM-170	219	316		6.6929	170.00	6.892		.139		.100 .125	6.937		.125 .125	.312			
HBH-170		310		6.6929 6.6929	170.00 170.00	6.942 6.892		.174		.100	6.982 6.937		.125	.312			
HBL-180	220			7.0866	180.00	7.286		.139		.100	7.343		.125	.312			
HBM-180	220	317		7.0866	180.00	7.336		.139		.100	7.343	+.187	.125	.375		1.125	
HBH-180		317	414	7.0866	180.00	7.336	±.008	.209		.125	7.381	000	.125	.375		+.187	
HBL-190	221		414	7.4803	190.00	7.680	±.000	.139		.125	7.718	000	.107	.312		000	
HBM-190	221	318		7.4803	190.00	7.730		.139	1	.125	7.781		.125	.375		000	
HBH-190		310		7.4803	190.00	7.730		.209		.125	7.782	1	.125	.375			
HBL-200	222			7.8740	200.00	8.074		.139	1	.100	8.125	1	.125	.312			
HBM-200	222	319		7.8740	200.00	8.125		.139		.125	8.187	1	.125	.375			
HBH-200		313	416	7.8740	200.00	8.125		.209		.125	8.187	1	.123	.375			
NDH-200		I	410	1.8/40	200.00	0.120	ı	.209	ı	.120	0.10/	I	.10/	.3/3		I	

Hardness: All Ring Sizes - HRC 42-52