

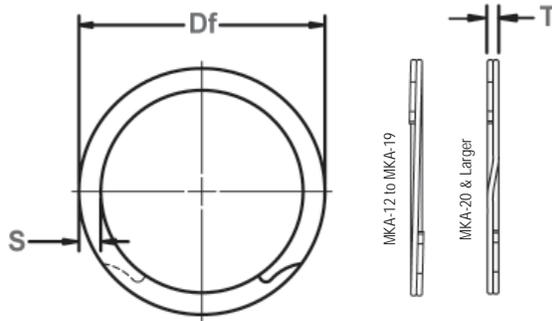


MKA Spiral Housing Rings

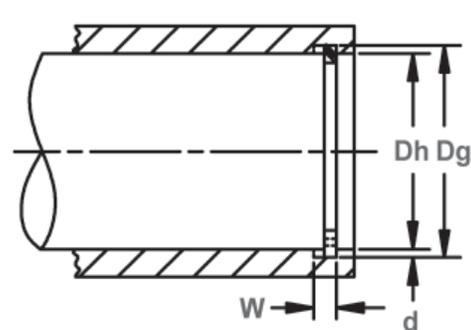
Internal, Aerospace, Metric

Dimensions Conform to Metric Aerospace

Specification MA 4017*.



Free Diameter & Ring Measurements



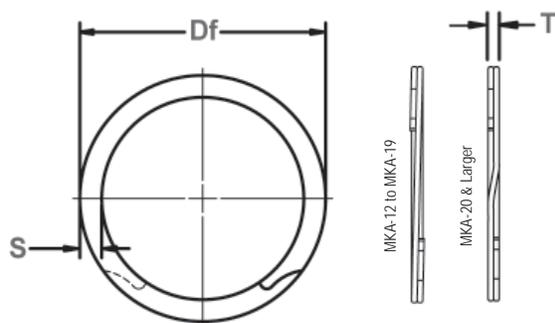
Housing Diameter & Groove Dimensions

RING NO.	HOUSING DIAMETER (mm)	GROOVE SIZE				RING SIZE				THRUST LOAD (N)			
		DIAMETER		WIDTH		FREE DIAMETER		THICKNESS		SECTION S	RING Safety factor of 3	GROOVE Safety factor of 2	
		Dh	Dg	Tol.	W	Tol.	Df	Tol.	T				Tol.
MKA-12	12.00	12.70	±0.05	0.70	+0.15/-0.00	12.89		0.60		1.02-1.22	7950	2050	
MKA-13	13.00	13.75		1.00		13.95		0.89		1.02-1.22	12110	2410	
MKA-14	14.00	14.85		1.00		15.07		0.89		1.27-1.47	13040	2930	
MKA-15	15.00	15.90		1.00		16.14		0.89		1.27-1.47	13970	3290	
MKA-16	16.00	16.95		1.00		17.15		0.89		1.27-1.47	14900	3740	
MKA-17	17.00	18.05		1.00		18.32		0.89		1.52-1.73	15830	4390	
MKA-18	18.00	19.10		1.00		19.39		0.89		1.52-1.73	16760	4820	
MKA-19	19.00	20.17		1.00		20.48		0.89		1.52-1.73	17690	5460	
MKA-20	20.00	21.22		1.00		21.51		0.89		1.78-1.98	18620	5940	
MKA-21	21.00	22.27		1.00		22.56		0.89		1.78-1.98	19550	6550	
MKA-22	22.00	23.37	±0.075	1.20		23.65	+0.35	1.07	±0.05	1.78-1.98	24630	7390	
MKA-23	23.00	24.42		1.20		24.69		-0.00		1.07	2.03-2.24	25750	7950
MKA-24	24.00	25.47		1.20		25.73		1.07		2.03-2.24	26870	8650	
MKA-25	25.00	26.67		1.20		27.03		1.07		2.03-2.24	27990	10230	
MKA-26	26.00	27.77		1.20		28.07		1.07		2.03-2.24	29110	11270	
MKA-27	27.00	28.87		1.40		29.11		1.27		2.49-2.69	31170	12360	
MKA-28	28.00	29.87		1.40		30.10		1.27		2.49-2.69	32330	12820	
MKA-29	29.00	30.95		1.40		31.21		1.27		2.49-2.69	33480	13840	
MKA-30	30.00	32.00		1.40		32.28		1.27		2.49-2.69	34640	14610	
MKA-31	31.00	33.05		1.40		33.32		1.27		2.49-2.69	35790	15550	
MKA-32	32.00	34.00	1.40	34.23	1.27	2.49-2.69	36950	15880					
MKA-34	34.00	36.20	1.40	36.46	1.27	2.87-3.07	39260	18210					
MKA-35	35.00	37.30	±0.10	1.40		37.55		1.27		2.87-3.07	40410	19600	
MKA-36	36.00	38.40		1.40		38.68		1.27		2.87-3.07	41560	21040	
MKA-37	37.00	39.40		1.40		39.60		1.27		2.87-3.07	42720	21620	
MKA-38	38.00	40.50		1.40		40.77		1.27		2.87-3.07	43870	23130	
MKA-40	40.00	42.50		1.75		42.91		1.57		3.12-3.33	57090	24350	
MKA-42	42.00	44.60		1.75		45.01		1.57		3.12-3.33	59950	26590	
MKA-45	45.00	47.70		1.75		48.13		+0.51		3.12-3.33	64230	29590	
MKA-46	46.00	48.80		1.75		49.28		-0.00		3.12-3.33	65660	31370	
MKA-47	47.00	49.90		1.75		50.32		1.57		3.89-4.09	67080	33190	
MKA-48	48.00	51.00		1.75		51.46		1.57		3.89-4.09	68510	35070	
MKA-50	50.00	53.20	1.75	53.66	1.57	3.89-4.09	71370	38960					
MKA-52	52.00	53.79	±0.125	1.42		54.30	+0.50	1.25		3.12-3.33	59090	22790	
MKA-53	53.00	54.79		1.42		55.32		-0.00		1.25	3.12-3.33	60230	23230
MKA-55	55.00	56.85	±0.15	1.42		57.38		1.25		3.38-3.58	62500	24910	
MKA-56	56.00	57.85		1.42		58.40		1.25		3.38-3.58	63640	25360	
MKA-58	58.00	59.85		1.42		60.43		1.25		3.38-3.58	65910	26270	
MKA-59	59.00	60.93		1.42		61.54		1.25		3.38-3.58	67050	27870	
MKA-60	60.00	61.99		1.42		62.57		+0.63		3.38-3.58	68180	29220	
MKA-61	61.00	63.09		1.42		63.65		-0.00		1.25	3.63-3.84	69320	31190
MKA-62	62.00	64.09		1.42		64.70		1.25		3.63-3.84	70460	31700	
MKA-63	63.00	65.09		1.42		65.70		1.25		3.63-3.84	71590	32220	
MKA-64	64.00	66.19		1.42		66.77		1.25		3.63-3.84	72730	34290	
MKA-65	65.00	67.19		1.42		67.82		1.25		3.63-3.84	73870	34820	
MKA-66	66.00	68.19	1.42	68.80	1.25	3.63-3.84	75000	35360					
MKA-67	67.00	69.25	1.42	69.90	1.25	3.63-3.84	76140	36870					

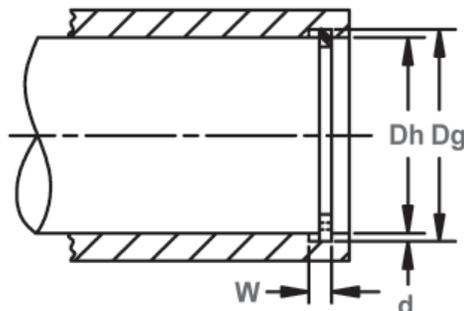
ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE STATED.

*Contact factory on particulars for rings to meet aerospace specifications.





Free Diameter & Ring Measurements



Housing Diameter & Groove Dimensions

RING NO.	HOUSING DIAMETER (mm)		GROOVE SIZE				RING SIZE				THRUST LOAD (N)	
			DIAMETER		WIDTH		FREE DIAMETER		THICKNESS		SECTION	RING Safety factor of 3
	Dh	Dg	Tol.	W	Tol.	Df	Tol.	T	Tol.	S		
MKA-68	68.00	70.29		1.42		70.94		1.25		3.88-4.09	77270	38090
MKA-69	69.00	71.29		1.42		71.94		1.25		3.88-4.09	78410	38650
MKA-70	70.00	72.29		1.42	+0.10	72.94	+0.63	1.25		3.88-4.09	79550	39210
MKA-71	71.00	73.29		1.42	-0.00	73.99	-0.00	1.25		3.88-4.09	80680	39770
MKA-72	72.00	74.39		1.42		75.04		1.25		4.11-4.39	81510	40910
MKA-75	75.00	77.39		1.42		78.07		1.25		4.11-4.39	85230	43830
MKA-78	78.00	80.45		1.73		81.21		1.55		4.11-4.39	109910	46730
MKA-80	80.00	82.49		1.73		83.22		1.55		4.37-4.62	112730	48700
MKA-82	82.00	84.55		1.73		85.28		1.55		4.37-4.62	115550	51120
MKA-85	85.00	87.65		1.73		88.38		1.55	±0.08	4.62-4.88	119780	55060
MKA-88	88.00	90.69		1.73		91.45	+0.76	1.55		4.62-4.88	124000	57860
MKA-90	90.00	92.79	±0.15	1.73		93.58	-0.00	1.55		4.88-5.13	126820	61370
MKA-92	92.00	94.85		1.73		95.66		1.55		4.88-5.13	129640	64070
MKA-95	95.00	97.85		1.73		98.69		1.55		4.88-5.13	133870	66160
MKA-98	98.00	100.99		1.73	+0.13	101.83		1.55		5.13-5.38	138090	71590
MKA-100	100.00	102.99		1.73	-0.00	103.83		1.55		5.13-5.38	140910	73050
MKA-102	102.00	105.15		1.73		106.00		1.55		5.38-5.64	143730	78490
MKA-105	105.00	108.15		1.73		109.00		1.55		5.38-5.64	147960	80800
MKA-108	108.00	111.31		1.73		112.22		1.55		5.64-5.89	152190	87310
MKA-110	110.00	113.31		1.73		114.25		1.55		5.64-5.89	155000	62140
MKA-112	112.00	115.45		1.73		116.44	+0.90	1.55		5.89-6.15	157820	94370
MKA-115	115.00	118.45		1.73		119.44	-0.00	1.55		5.89-6.15	162050	96890
MKA-120	120.00	123.55		2.00		124.54		1.83		6.20-6.45	199640	104030
MKA-125	125.00	128.55		2.00		129.59		1.83		6.20-6.45	207960	108360
MKA-130	130.00	133.65		2.00		134.71		1.83		6.20-6.45	216280	115860
MKA-135	135.00	138.62		2.00		139.74		1.83		6.20-6.45	224600	119000
MKA-140	140.00	143.72	±0.18	2.00		144.87	+1.14	1.83		6.20-6.45	232920	126820
MKA-145	145.00	148.82		2.00		150.04	-0.00	1.83		6.20-6.45	241230	134880
MKA-150	150.00	153.82		2.00		155.07		1.83		6.20-6.45	249550	139530
MKA-155	155.00	159.40		2.40		160.72		2.18		7.72-8.03	307190	166080
MKA-160	160.00	164.40		2.40		165.74		2.18		7.72-8.03	317100	171433
MKA-165	165.00	169.40		2.40		170.77	+1.40	2.18		7.72-8.03	327010	176790
MKA-170	170.00	174.60		2.40		176.05	-0.00	2.18		7.72-8.03	336920	190430
MKA-175	175.00	179.60		2.40		181.05		2.18	±0.10	7.72-8.03	346830	196030
MKA-180	180.00	184.88		2.40		186.38		2.18		7.72-8.03	356740	213900
MKA-185	185.00	189.88		2.40		191.10		2.18		7.72-8.03	366650	219840
MKA-190	190.00	194.88	±0.20	2.40	+0.15	196.45		2.18		7.72-8.03	376560	225790
MKA-195	195.00	200.14		2.40	-0.00	201.74		2.18		7.72-8.03	386460	244070
MKA-200	200.00	205.14		2.40		206.76		2.18		7.72-8.03	396370	250330
MKA-210	210.00	215.40		2.40		217.10	+1.65	2.18		9.32-9.63	416490	276140
MKA-220	220.00	225.64		2.40		227.40	-0.00	2.18		9.32-9.63	436010	257150
MKA-230	230.00	235.90		2.40		237.73		2.18		9.32-9.63	455830	330450
MKA-240	240.00	245.90		2.40		247.80		2.18		9.32-9.63	475650	344810
MKA-250	250.00	256.16		2.40		258.10		2.18		9.32-9.63	495470	375010
MKA-260	260.00	266.40		2.40		268.43		2.18		9.32-9.63	515290	405210
MKA-270	270.00	276.40		2.40		278.50		2.18		9.32-9.63	535100	420790
MKA-280	280.00	286.66		2.40		288.82		2.18		9.32-9.63	554920	454100

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