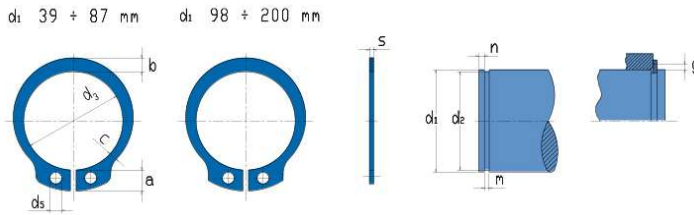


2160-5160

ANELLI ELASTICI PER ALBERI - SPESSORE MAGGIORATO RETAINING RINGS FOR SHAFTS - HEAVY DUTY



Dimensions in inch

Ring no.	SIZE		RING DIMENSIONS										GROOVE DIMENSIONS				SUPPLEMENTARY DATA				nabl	PLIERS					
	d1	d1 frac.	s	tol	d3	tol	a	tol	b	tol	c	tol	d5	tol	d2	tol	m	tol	n	FN		FR	g	FRg	lbs/1000	straight	bent
39	,394	-	,035	±.002	,362	+ .003 - .008	,101	±.004	,068	±.004	,039	±.004	,042	+ .010 - .002	0,368	+ .001 - .002	0,039	+ .003 - .000	0,039	700	2,030	0,039	450	80,000	0,814	A0	A01
42	,428	-	,035	±.002	,394	+ .003 - .008	,101	±.004	,076	±.004	,043	±.004	,042	+ .010 - .002	0,402	+ .001 - .002	0,039	+ .003 - .000	0,039	800	2,335	0,046	530	72,000	0,946	A0	A01
47	,473	-	,042	±.002	,435	+ .005 - .010	,101	±.004	,088	±.004	,053	±.004	,042	+ .010 - .002	0,444	+ .001 - .002	0,046	+ .003 - .000	0,045	1,000	3,045	0,058	550	69,000	1,408	A0	A01
50	,500	1/2	,050	±.002	,460	+ .005 - .010	,120	±.004	,090	±.005	,050	±.005	,050	+ .010 - .002	0,468	+ .001 - .002	0,056	+ .004 - .000	0,048	1,100	3,959	0,058	650	65,000	1,826	A0	A01
59	,591	-	,050	±.002	,543	+ .005 - .010	,130	±.004	,102	±.005	,057	±.005	,050	+ .010 - .002	0,555	+ .001 - .003	0,056	+ .004 - .000	0,054	1,500	4,568	0,058	750	52,500	2,398	A0	A01
62	,625	5/8	,050	±.002	,575	+ .005 - .010	,130	±.004	,106	±.005	,059	±.005	,050	+ .010 - .002	0,588	+ .001 - .003	0,056	+ .004 - .000	0,057	1,600	4,872	0,062	750	49,000	2,596	A0	A01
66	,669	-	,050	±.002	,616	+ .005 - .010	,130	±.004	,112	±.005	,062	±.005	,050	+ .010 - .002	0,629	+ .001 - .003	0,056	+ .004 - .000	0,060	1,900	5,278	0,064	900	45,000	2,904	A0	A01
75	,750	3/4	,078	±.003	,689	+ .005 - .010	,180	±.005	,127	±.006	,077	±.006	,078	+ .015 - .002	0,704	+ .001 - .003	0,086	+ .005 - .000	0,069	2,400	9,135	0,074	2,500	40,500	6,182	A1	A11
75	,787	-	,078	±.003	,689	+ .005 - .010	,180	±.005	,127	±.006	,077	±.006	,078	+ .015 - .002	0,740	+ .001 - .003	0,086	+ .005 - .000	0,072	2,400	9,135	0,074	2,500	38,000	6,182	A1	A11
87	,875	7/8	,078	±.003	,804	+ .005 - .010	,180	±.005	,148	±.006	,083	±.006	,078	+ .015 - .002	0,821	+ .001 - .003	0,086	+ .005 - .000	0,081	3,300	10,556	0,083	2,500	34,000	7,920	A1	A11
98	,984	63/64	,078	±.003	,906	+ .005 - .010	,180	±.005	,151	±.006	,084	±.006	,078	+ .015 - .002	0,925	+ .001 - .003	0,086	+ .005 - .000	0,090	4,000	11,673	0,083	2,500	30,000	8,998	A1	A11
98	1,000	1	,078	±.003	,906	+ .005 - .010	,180	±.005	,151	±.006	,084	±.006	,078	+ .015 - .002	0,938	+ .001 - .003	0,086	+ .005 - .000	0,093	4,000	11,673	0,083	2,500	30,000	8,998	A1	A11
106	1,062	1-1/16	,093	±.003	,978	+ .010 - .015	,220	±.005	,161	±.007	,090	±.007	,093	+ .015 - .002	0,998	+ .002 - .004	0,103	+ .005 - .000	0,096	4,800	15,225	0,088	4,000	27,000	13,046	A1	A11
112	1,125	1-1/8	,093	±.003	1,036	+ .010 - .015	,220	±.005	,169	±.007	,095	±.007	,093	+ .015 - .002	1,059	+ .002 - .004	0,103	+ .005 - .000	0,099	5,200	16,240	0,093	4,000	26,000	14,322	A1	A11
118	1,181	-	,093	±.003	1,087	+ .010 - .015	,220	±.005	,176	±.007	,098	±.007	,093	+ .015 - .002	1,111	+ .002 - .004	0,103	+ .005 - .000	0,105	5,600	16,748	0,093	4,000	24,000	15,510	A2	A21
118	1,188	1-3/16	,093	±.003	1,087	+ .010 - .015	,220	±.005	,176	±.007	,098	±.007	,093	+ .015 - .002	1,111	+ .002 - .004	0,103	+ .005 - .000	0,114	5,600	16,748	0,093	4,000	24,000	15,510	A2	A21
125	1,250	1-1/4	,093	±.003	1,150	+ .010 - .015	,220	±.005	,185	±.007	,103	±.007	,093	+ .015 - .002	1,174	+ .002 - .004	0,103	+ .005 - .000	0,114	6,500	17,763	0,093	4,000	23,000	16,918	A2	A21
131	1,312	1-5/16	,093	±.003	1,208	+ .010 - .015	,220	±.005	,192	±.007	,106	±.007	,093	+ .015 - .002	1,234	+ .002 - .004	0,103	+ .005 - .000	0,117	7,400	18,270	0,107	4,000	21,500	18,062	A2	A21
137	1,375	1-3/8	,093	±.003	1,268	+ .010 - .015	,220	±.005	,200	±.007	,110	±.007	,093	+ .015 - .002	1,291	+ .002 - .004	0,103	+ .005 - .000	0,126	8,200	19,793	0,107	4,000	20,500	19,250	A2	A21
137	1,378	-	,093	±.003	1,268	+ .010 - .015	,220	±.005	,200	±.007	,110	±.007	,093	+ .015 - .002	1,291	+ .002 - .004	0,103	+ .005 - .000	0,132	8,200	19,793	0,107	4,000	20,500	19,250	A2	A21
150	1,500	1-1/2	,109	±.003	1,380	+ .010 - .015	,280	±.005	,218	±.008	,123	±.008	,109	+ .015 - .002	1,406	+ .002 - .004	0,120	+ .005 - .000	0,141	10,000	24,868	0,107	5,000	18,500	28,600	A2	A21
156	1,562	1-9/16	,109	±.003	1,437	+ .013 - .020	,280	±.005	,228	±.008	,127	±.008	,109	+ .015 - .002	1,468	+ .003 - .004	0,120	+ .005 - .000	0,141	10,400	26,390	0,107	5,000	17,000	30,668	A2	A21
156	1,575	-	,109	±.003	1,437	+ .013 - .020	,280	±.005	,228	±.008	,127	±.008	,109	+ .015 - .002	1,480	+ .003 - .004	0,120	+ .005 - .000	0,144	10,400	26,930	0,107	5,000	17,000	30,668	A2	A21
175	1,750	1-3/4	,109	±.003	1,608	+ .013 - .020	,290	±.005	,254	±.008	,140	±.008	,109	+ .015 - .002	1,650	+ .003 - .004	0,120	+ .005 - .000	0,150	12,400	29,435	0,107	5,000	15,500	36,806	A2	A21
175	1,772	-	,109	±.003	1,608	+ .013 - .020	,290	±.005	,254	±.008	,140	±.008	,109	+ .015 - .002	1,668	+ .003 - .004	0,120	+ .005 - .000	0,156	12,400	29,435	0,107	5,000	15,500	36,806	A2	A21
193	1,938	1-15/16	,125	±.004	1,782	+ .013 - .020	,314	±.006	,280	±.008	,154	±.008	,125	+ .015 - .002	1,826	+ .003 - .004	0,139	+ .006 - .000	0,168	15,300	37,555	0,128	6,000	14,300	50,952	A3	A31
193	1,969	1-31/32	,125	±.004	1,782	+ .013 - .020	,314	±.006	,280	±.008	,154	±.008	,125	+ .015 - .002	1,850	+ .003 - .004	0,139	+ .006 - .000	0,180	15,300	37,555	0,128	6,000	14,100	50,952	A3	A31
200	2,000	2	,125	±.004	1,840	+ .013 - .020	,314	±.006	,290	±.008	,160	±.008	,125	+ .015 - .002	1,880	+ .003 - .004	0,139	+ .006 - .000	0,180	17,000	38,570	0,128	6,000	14,000	53,746	A3	A3

SYMBOLS

FN	load bearing capacity of the groove
FR	load bearing capacity of the mounted ring with sharp-cornered abutment
FRg	load bearing capacity of the mounted ring with chamfered abutment or corner radius of "g" mm
g	chamfering or rounding of the element opposite the ring
nabl	maximum acceptable speed rotation of the shaft (external rings)



Gli anelli in pollici 2160-5160 con spessore maggiorato sono elementi di sicurezza per alberi a montaggio assiale, di impiego universale; possono essere applicati nei casi più gravosi, dove gli anelli della serie ordinaria non riescono a garantire la stabilità di montaggio.

MATERIALI
DUREZZA
FINITURE STANDARD
PACKAGING
INFORMAZIONI AGGIUNTIVE

Acciaio per molle SAE 1060 / EN 10132 - 1/4 (DIN 17222)
Da n. 39 a n. 87: nastro C60S (C60)

Acciaio per molle SAE 1074 / EN 10132 - 1/4 (DIN 17222)
Da n. 98 a n. 200: filo C75S (C75)

Da n. 39 a n. 62: scala 30N 67.5 ÷ 72 (HRC 49 ÷ 54)
Da n. 66 a n. 200: scala C 47 ÷ 52

fosfatati e oliati

Da n. 39 a n. 137: sciolti in scatola
Da n. 150 a n. 200: rollpack impilati - non allineati

Richieste speciali

Per materiali o finiture superficiali differenti invia la tua richiesta di offerta. Prezzi e quantitativi minimi da concordare.



The axially assembled 2160-5160 are retaining rings for shafts with thicker thickness in inch dimensions; they can be used in critical applications, where standard rings cannot guarantee stability in assembly.

MATERIALI
DUREZZA
FINITURE STANDARD
PACKAGING
INFORMAZIONI AGGIUNTIVE

Spring steel SAE 1060 / EN 10132 - 1/4 (DIN 17222)
From n. 39 to n. 87: strip C60S (C60)

Spring steel SAE 1074 / EN 10132 - 1/4 (DIN 17222)
From n. 98 to n. 200: wire C75S (C75)

From n. 39 to n. 62: scale 30N 67.5 ÷ 72 (HRC 49 ÷ 54)
From n. 66 to n. 200: scale C 47 ÷ 52

phosphated and oiled

From n. 39 to n. 137: loose in boxes
From n. 150 to n. 200: thermoplastic wrapped – non oriented

Special requests

For different materials or surface finishes, please send your request. Price and minimum quantity to be established.