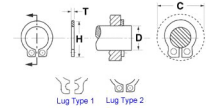




MBA

Circlips - External - Grooveless



Includes MIL-R-21248/MS 90707 - Styles M1440 / Ellison GR / Seeger G and GA.

Reusable tapered section rings for grooveless shafts like plastics, tubes or castings.

Can be used where adjustable ring placement is desired - like progressively tightening a compression spring.

Circlips - External - Grooveless

Part Number	Shaft Diameter (D) mm	Circlip Thickness (T) mm	Lug Type	Shaft Tolerance	Material	Assemb. Clearance on Shaft (C)	Allowable Load N	Free ID mm	Tool
	<i>inches</i>	<i>inches</i>						<i>inches</i>	
# DSHX-0015	1.50	0.40	1 (Open)	-	Carbon Spring Steel	5.10	-	1.380 - 1.420	PRS-ZGG0
	<i>0.059</i>	<i>0.016</i>							
CCNG-002.00-CS	2.00	0.50	1 (Open)	+ 0 / -0.025	Carbon Spring Steel	5.80	50	1.90	PRS-ZGG0
	<i>0.079</i>	<i>0.020</i>						<i>0.075</i>	
# CCNG-002.00H-CS	2.00	0.60	1 (Open)	+/- 0.06	Carbon Spring Steel	6.90	49	1.85	PRS-ZGG0
	<i>0.079</i>	<i>0.024</i>						<i>0.073</i>	

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Circlips - External - Grooveless

Part Number	Shaft Diameter (D) mm	Circlip Thickness (T) mm	Lug Type	Shaft Tolerance	Material	Assemb. Clearance on Shaft (C)	Allowable Load N	Free ID mm	Tool
	<i>inches</i>	<i>inches</i>						<i>inches</i>	
# CCNG-002.01-CS	2.01	0.61	1 (Open)	+/- 0.05	Carbon Spring Steel	6.10	41	1.88	PRS-E034
	<i>0.079</i>	<i>0.024</i>						<i>0.074</i>	
# DSHX-0022	2.20	0.60	1 (Open)	-	Carbon Spring Steel	6.20	-	2.025 - 2.075	PRS-ZGG0
	<i>0.087</i>	<i>0.024</i>							
# CCNG-002.38-420	2.38	0.64	2 (Closed)	+/- 0.05	420 Stainless Steel	6.60	33	2.26	PRS-E034
	<i>0.094</i>	<i>0.025</i>						<i>0.089</i>	
CCNG-002.38-CS	2.38	0.64	1 (Open)	+/- 0.05	Carbon Spring Steel	6.60	41	2.26	PRS-E034
	<i>0.094</i>	<i>0.025</i>						<i>0.089</i>	
CCNG-002.50-CS	2.50	0.60	1 (Open)	+ 0 / -0.025	Carbon Spring Steel	6.50	60	2.35	PRS-ZGG0
	<i>0.098</i>	<i>0.024</i>						<i>0.093</i>	
# DSHX-0028	2.80	0.60	1 (Open)	-	Carbon Spring Steel	7.00	-	2.615 - 2.675	PRS-ZGG0
	<i>0.110</i>	<i>0.024</i>							
CCNG-003.00-CS	3.00	0.60	1 (Open)	+/- 0.06	Carbon Spring Steel	7.40	73	2.84	PRS-ZGG0
	<i>0.118</i>	<i>0.024</i>						<i>0.112</i>	
CCNG-003.18-420	3.18	0.64	2 (Closed)	+/- 0.05	420 Stainless Steel	8.38	41	3.05	PRS-E040
	<i>0.125</i>	<i>0.025</i>						<i>0.120</i>	

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Part Number	Shaft Diameter (D) mm	Circlip Thickness (T) mm	Lug Type	Shaft Tolerance	Material	Assemb. Clearance on Shaft (C)	Allowable Load N	Free ID mm	Tool
	<i>inches</i>	<i>inches</i>						<i>inches</i>	
# CCNG-003.18-CS	3.18	0.64	2 (Closed)	+/- 0.05	Carbon Spring Steel	8.38	81	3.05	PRS-E040
	<i>0.125</i>	<i>0.025</i>						<i>0.120</i>	
# CCNG-003.50-CS	3.50	0.60	1 (Open)	+/- 0.06	Carbon Spring Steel	8.30	88	3.30	PRS-ZGG1
	<i>0.138</i>	<i>0.024</i>						<i>0.130</i>	
# CCNG-003.97-420	3.97	0.64	2 (Closed)	+/- 0.05	420 Stainless Steel	9.14	49	3.79	PRS-E040
	<i>0.156</i>	<i>0.025</i>						<i>0.149</i>	
# CCNG-003.96-CS	3.96	0.64	2 (Closed)	+/- 0.05	Carbon Spring Steel	9.14	89	3.79	PRS-E040
	<i>0.156</i>	<i>0.025</i>						<i>0.149</i>	
CCNG-004.00-CS	4.00	0.80	1 (Open)	+/- 0.06	Carbon Spring Steel	9.65	98	3.80	PRS-ZGG1
	<i>0.157</i>	<i>0.031</i>						<i>0.150</i>	
# CCNG-004.50-CS	4.50	0.80	1 (Open)	+/- 0.06	Carbon Spring Steel	10.50	117	4.23	PRS-ZGG1
	<i>0.177</i>	<i>0.031</i>						<i>0.167</i>	
CCNG-004.76-CS	4.75	0.89	2 (Closed)	+/- 0.08	Carbon Spring Steel	11.18	101	4.57	PRS-E047-X
	<i>0.187</i>	<i>0.035</i>						<i>0.180</i>	
# CCNG-004.76-420	4.75	0.89	2 (Closed)	+/- 0.05	420 Stainless Steel	11.18	81	4.57	PRS-E047-X
	<i>0.187</i>	<i>0.035</i>						<i>0.180</i>	

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Circlips - External - Grooveless

Part Number	Shaft Diameter (D) mm	Circlip Thickness (T) mm	Lug Type	Shaft Tolerance	Material	Assemb. Clearance on Shaft (C)	Allowable Load N	Free ID mm	Tool
	<i>inches</i>	<i>inches</i>						<i>inches</i>	
CCNG-005.00-CS	5.00 <i>0.197</i>	0.80 <i>0.031</i>	1 (Open)	+/- 0.06	Carbon Spring Steel	11.00	127	4.75 <i>0.187</i>	PRS-ZGG1
# DSHX-0055	5.50 <i>0.217</i>	0.80 <i>0.031</i>	1 (Open)	-	Carbon Spring Steel	11.70	-	5.125 - 5.275	PRS-ZGG1
# CCNG-005.99-CS	5.99 <i>0.236</i>	0.99 <i>0.039</i>	1 (Open)	+/- 0.08	Carbon Spring Steel	12.70	142	5.69 <i>0.224</i>	PRS-E047-X
# DSHF-006	6.00 <i>0.236</i>	1.00 <i>0.039</i>	2 (Closed)	-	Carbon Spring Steel	12.20	-	5.570 - 5.830	PRS-ZGG1
CCNG-006.00-CS	6.00 <i>0.236</i>	1.00 <i>0.039</i>	1 (Open)	+/- 0.08	Carbon Spring Steel	12.60	166	5.72 <i>0.225</i>	PRS-ZGG1
# CCNG-006.35-CS	6.35 <i>0.250</i>	0.89 <i>0.035</i>	2 (Closed)	+/- 0.08	Carbon Spring Steel	12.45	142	6.00 <i>0.236</i>	PRS-E047-X
# CCNG-006.35-420	6.35 <i>0.250</i>	0.89 <i>0.035</i>	2 (Closed)	+/- 0.05	420 Stainless Steel	12.45	93	6.00 <i>0.236</i>	PRS-E047-X
# CCNG-007.94-420	7.94 <i>0.313</i>	1.07 <i>0.042</i>	2 (Closed)	+/- 0.08	420 Stainless Steel	17.27	102	7.70 <i>0.303</i>	PRS-E070-X

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Circlips - External - Grooveless

Part Number	Shaft Diameter (D) mm	Circlip Thickness (T) mm	Lug Type	Shaft Tolerance	Material	Assemb. Clearance on Shaft (C)	Allowable Load N	Free ID mm	Tool
	<i>inches</i>	<i>inches</i>						<i>inches</i>	
# CCNG-007.94-CS	7.94	1.07	2 (Closed)	+/- 0.08	Carbon Spring Steel	17.02	182	7.54	PRS-E070-X
	<i>0.313</i>	<i>0.042</i>						<i>0.297</i>	
# DSHF-008	8.00	1.00	2 (Closed)	-	Carbon Spring Steel	16.00	-	7.610 - 7.790	PRS-ZGG2
	<i>0.315</i>	<i>0.039</i>							
CCNG-008.00-CS	8.00	1.00	1 (Open)	+/- 0.08	Carbon Spring Steel	17.30	196	7.70	PRS-ZGG1
	<i>0.315</i>	<i>0.039</i>						<i>0.303</i>	
# DSHF-009	9.00	1.20	2 (Closed)	-	Carbon Spring Steel	16.40	-	8.560 - 8.740	PRS-ZGG1
	<i>0.354</i>	<i>0.047</i>							
# CCNG-009.00-CS	9.00	1.20	1 (Open)	+/- 0.08	Carbon Spring Steel	18.65	225	8.66	PRS-ZGG2
	<i>0.354</i>	<i>0.047</i>						<i>0.341</i>	
# CCNG-009.53-CS	9.53	1.07	2 (Closed)	+/- 0.08	Carbon Spring Steel	18.54	243	8.97	PRS-E070-X
	<i>0.375</i>	<i>0.042</i>						<i>0.353</i>	
# CCNG-009.53-420	9.53	1.07	2 (Closed)	+/- 0.08	420 Stainless Steel	18.80	122	8.97	PRS-E070-X
	<i>0.375</i>	<i>0.042</i>						<i>0.353</i>	
# CCNG-010.00-CS	10.00	1.20	1 (Open)	+/- 0.08	Carbon Spring Steel	19.65	245	9.65	PRS-ZGG2
	<i>0.394</i>	<i>0.047</i>						<i>0.380</i>	

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Circlips - External - Grooveless

Part Number	Shaft Diameter (D) mm	Circlip Thickness (T) mm	Lug Type	Shaft Tolerance	Material	Assemb. Clearance on Shaft (C)	Allowable Load N	Free ID mm	Tool
	<i>inches</i>	<i>inches</i>						<i>inches</i>	
# DSHX-0105	10.50 <i>0.413</i>	1.20 <i>0.047</i>	1 (Open)	-	Carbon Spring Steel	18.70	-	10.090 - 10.310	PRS-ZGG1
# DSHF-011	11.00 <i>0.433</i>	1.20 <i>0.047</i>	2 (Closed)	-	Carbon Spring Steel	19.80	-	10.470 - 10.730	PRS-ZGG1
# CCNG-011.11-420	11.11 <i>0.437</i>	1.27 <i>0.050</i>	2 (Closed)	+/- 0.08	420 Stainless Steel	20.57	163	10.44 <i>0.411</i>	PRS-E070-X
# CCNG-011.11-CS	11.11 <i>0.437</i>	1.27 <i>0.050</i>	2 (Closed)	+/- 0.08	Carbon Spring Steel	20.83	243	10.44 <i>0.411</i>	PRS-E070-X
# DSHF-012	12.00 <i>0.472</i>	1.20 <i>0.047</i>	2 (Closed)	-	Carbon Spring Steel	21.40	-	11.470 - 11.730	PRS-ZGG1
# DSHX-012	12.00 <i>0.472</i>	1.20 <i>0.047</i>	1 (Open)	-	Carbon Spring Steel	21.80	-	11.490 - 11.700	PRS-ZGG2
# CCNG-012.00-CS	12.00 <i>0.472</i>	1.20 <i>0.047</i>	1 (Open)	+ 0 / -0.110	Carbon Spring Steel	21.80	300	11.60 <i>0.457</i>	PRS-ZGG2
# CCNG-012.70-420	12.70 <i>0.500</i>	1.27 <i>0.050</i>	2 (Closed)	+/- 0.08	420 Stainless Steel	22.86	183	11.90 <i>0.469</i>	PRS-E070-X

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Circlips - External - Grooveless

Part Number	Shaft Diameter (D) mm	Circlip Thickness (T) mm	Lug Type	Shaft Tolerance	Material	Assemb. Clearance on Shaft (C)	Allowable Load N	Free ID mm	Tool
	<i>inches</i>	<i>inches</i>						<i>inches</i>	
# CCNG-012.70-CS	12.70	1.27	2 (Closed)	+/- 0.08	Carbon Spring Steel	22.61	264	11.90	PRS-E070-X
	<i>0.500</i>	<i>0.050</i>						<i>0.469</i>	
# DSHF-013	13.00	1.20	2 (Closed)	-	Carbon Spring Steel	23.20	-	12.420 - 12.680	PRS-ZGG2
	<i>0.512</i>	<i>0.047</i>							
# DSHX-013	13.00	1.20	1 (Open)	-	Carbon Spring Steel	23.80	-	12.440 - 12.660	PRS-ZGG2
	<i>0.512</i>	<i>0.047</i>							
# DSHX-0138	13.80	1.50	1 (Open)	-	Carbon Spring Steel	24.80	-	13.190 - 13.410	PRS-ZGG2
	<i>0.543</i>	<i>0.059</i>							
# DSHX-014	14.00	1.50	1 (Open)	-	Carbon Spring Steel	25.00	-	13.390 - 13.610	PRS-ZGG2
	<i>0.551</i>	<i>0.059</i>							
# CCNG-014.99-CS	14.99	1.50	2 (Closed)	+/- 0.08	Carbon Spring Steel	26.16	325	14.48	PRS-E070-X
	<i>0.590</i>	<i>0.059</i>						<i>0.570</i>	
# DSHF-015	15.00	1.50	2 (Closed)	-	Carbon Spring Steel	26.40	-	14.370 - 14.630	PRS-ZGG2
	<i>0.591</i>	<i>0.059</i>							
# CCNG-015.00-CS	15.00	1.50	1 (Open)	+/- 0.10	Carbon Spring Steel	27.20	360	14.50	PRS-ZGG2
	<i>0.591</i>	<i>0.059</i>						<i>0.571</i>	

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Circlips - External - Grooveless

Part Number	Shaft Diameter (D) mm	Circlip Thickness (T) mm	Lug Type	Shaft Tolerance	Material	Assemb. Clearance on Shaft (C)	Allowable Load N	Free ID mm	Tool
	<i>inches</i>	<i>inches</i>						<i>inches</i>	
# CCNG-015.88-CS	15.88	1.57	2 (Closed)	+/- 0.10	Carbon Spring Steel	26.92	345	15.04	PRS-E070-X
	<i>0.625</i>	<i>0.062</i>						<i>0.592</i>	
# CCNG-015.88-420	15.88	1.57	2 (Closed)	+/- 0.08	420 Stainless Steel	26.92	244	15.04	PRS-E070-X
	<i>0.625</i>	<i>0.062</i>						<i>0.592</i>	
# DSHF-016	16.00	1.50	2 (Closed)	-	Carbon Spring Steel	28.00	-	15.270 - 15.530	PRS-ZGG2
	<i>0.630</i>	<i>0.059</i>							
# CCNG-016.00-CS	16.00	1.50	1 (Open)	+/- 0.10	Carbon Spring Steel	27.90	490	15.40	PRS-ZGG3
	<i>0.630</i>	<i>0.059</i>						<i>0.606</i>	
# DSHF-017	17.00	1.75	2 (Closed)	-	Carbon Spring Steel	30.20	-	16.220 - 16.480	PRS-ZGG3
	<i>0.669</i>	<i>0.069</i>							
# DSHX-017	17.00	1.75	1 (Open)	-	Carbon Spring Steel	29.50	-	16.240 - 16.460	PRS-ZGG3
	<i>0.669</i>	<i>0.069</i>							
# DSHX-018	18.00	1.75	1 (Open)	-	Carbon Spring Steel	31.40	-	17.190 - 17.410	PRS-ZGG3
	<i>0.709</i>	<i>0.069</i>							
# CCNG-019.05-CS	19.05	1.57	2 (Closed)	+/- 0.10	Carbon Spring Steel	33.27	365	17.90	PRS-E070-X
	<i>0.750</i>	<i>0.062</i>						<i>0.705</i>	

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Part Number	Shaft Diameter (D) mm	Circlip Thickness (T) mm	Lug Type	Shaft Tolerance	Material	Assemb. Clearance on Shaft (C)	Allowable Load N	Free ID mm	Tool
	<i>inches</i>	<i>inches</i>						<i>inches</i>	
# CCNG-019.05-420	19.05	1.57	2 (Closed)	+/- 0.12	420 Stainless Steel	33.53	264	17.90	PRS-E070-X
	<i>0.750</i>	<i>0.062</i>						<i>0.705</i>	
# CCNG-020.00-CS	20.00	1.75	1 (Open)	+ 0 / -0.130	Carbon Spring Steel	35.00	750	19.30	PRS-ZGG3
	<i>0.787</i>	<i>0.069</i>						<i>0.760</i>	
# DSHX-022	22.00	1.75	1 (Open)	-	Carbon Spring Steel	37.00	-	21.070 - 21.330	PRS-ZGG3
	<i>0.866</i>	<i>0.069</i>							
# DSHX-024	24.00	1.75	1 (Open)	-	Carbon Spring Steel	39.80	-	23.020 - 23.280	PRS-ZGG3
	<i>0.945</i>	<i>0.069</i>							
# DSHX-025	25.00	1.75	1 (Open)	-	Carbon Spring Steel	41.60	-	24.020 - 24.280	PRS-ZGG3
	<i>0.984</i>	<i>0.069</i>							
# DSHX-030	30.00	1.75	1 (Open)	-	Carbon Spring Steel	48.20	-	28.870 - 29.130	PRS-ZGG3
	<i>1.181</i>	<i>0.069</i>							

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Ph +61 7 3245 7977

Fax +61 7 3245 1017

Catalogue requests to catalogues@minibearings.com.au

