

EXTERNAL

PHONE: 516.328.3300 • FAX: 516.326.8827 • WWW.SDP-SI.COM

> MATERIAL:

Beryllium Copper (Berylco 25)
Carbon Spring Steel (SAE 1065 - 1090), Oil-Dipped

> TENSILE STRENGTH:

45,000 psi

> SPECIFICATIONS:

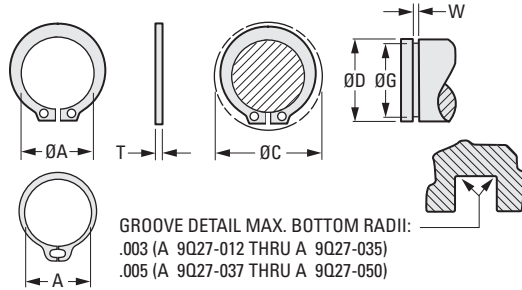
A Tolerance:
.112 to .225 in. +.002/-.004
.250 to .461 in. +.002/-.005

G Tolerance:
.117 to .230 in. ± .0015
.255 to .468 in. ± .002

W Tolerance:
.012 to .018 in. +.002/-.000
.029 to .039 in. +.003/-.000

T Tolerance:
.010 in. ± .001
.015 to .035 in. ± .002

Priced Per 100 Pieces



INCH COMPONENT

Catalog Number	A Free Dia.	C Ring Clear Dia.	D Shaft Dia.	G Groove Dia.	W Groove Width	T Ring Thick.	Thrust Strength* lbf Max.	
							Ring	Groove
Beryllium Copper (Berylco 25)								
A 9Q27-012	.112	.22	.125	.117	.012	.010	112	35
A 9Q27-015	.142	.27	.156	.146	.012	.010	132	55
A 9Q27-018	.168	.30	.188	.175	.018	.015	244	80
A 9Q27-019	.179	.32	.197	.185	.018	.015	254	85
A 9Q27-021	.196	.33	.219	.205	.018	.015	284	110
A 9Q27-023	.215	.36	.236	.222	.018	.015	315	120
Carbon Spring Steel (SAE 1065 - 1090), Oil-Dipped								
A 9Q27-025	.225	.45	.250	.230	.029	.025	599	175
A 9Q27-027	.250	.48	.276	.255	.029	.025	660	195
A 9Q27-028	.256	.49	.281	.261	.029	.025	670	200
A 9Q27-031	.281	.54	.312	.290	.029	.025	751	240
A 9Q27-034	.309	.57	.344	.321	.029	.025	812	265
A 9Q27-035	.320	.58	.354	.330	.029	.025	832	300
A 9Q27-037	.338	.60	.375	.352	.029	.025	883	320
A 9Q27-039	.354	.62	.394	.369	.029	.025	954	335
A 9Q27-040	.366	.63	.406	.382	.029	.025	964	350
A 9Q27-043	.395	.66	.438	.412	.029	.025	1035	400
A 9Q27-046	.428	.69	.469	.443	.029	.025	1117	450
A 9Q27-050	.461	.77	.500	.468	.039	.035	1675	550

* Thrust Strength Factor of Safety: Rings = 4 Grooves = 2

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> MATERIAL:

Carbon Spring Steel (SAE 1065 - 1090), Oil-Dipped

> TENSILE STRENGTH:

45,000 psi

> SPECIFICATIONS:

A Tolerance:

.579 to .925 in. +.005/-0.10
 1.041 to 1.156 in. +.010/-0.15
 1.446 to 1.850 in. +.013/-0.20
 1.964 to 2.313 in. +.015/-0.25
 2.543 to 2.775 in. +.020/-0.30

G Tolerance:

.588 to .940 in. ± .003
 1.059 to 1.176 in. ± .004
 1.468 to 1.886 in. ± .005
 2.003 to 2.838 in. ± .006

W Tolerance:

.039 to .046 in. +.003/-0.000
 .056 to .068 in. +.004/-0.000
 .086 to .103 in. +.005/-0.020

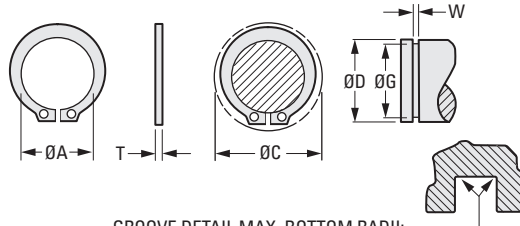
T Tolerance:

.035 to .050 in. ± .002
 .062 to .093 in. ± .003

Priced Per 100 Pieces



Carbon Spring Steel



GROOVE DETAIL MAX. BOTTOM RADII:
 .005 (A 9Q27-062 THRU A 9Q27-087)
 .010 (A 9Q27-100 THRU A 9Q27-300)

INCH COMPONENT

Catalog Number	A Free Dia.	C Ring Clear. Dia.	D Shaft Dia.	G Groove Dia.	W Groove Width	T Ring Thick.	Thrust Strength* lbf Max.	
							Ring	Groove
A 9Q27-062	.579	.90	.625	.588	.039	.035	2091	800
A 9Q27-075	.693	1.09	.750	.704	.046	.042	3756	1200
A 9Q27-087	.810	1.21	.875	.821	.046	.042	4365	1650
A 9Q27-100	.925	1.41	1.000	.940	.046	.042	5024	2100
A 9Q27-112	1.041	1.55	1.125	1.059	.056	.050	6699	2600
A 9Q27-125	1.156	1.69	1.250	1.176	.056	.050	7460	3250
A 9Q27-156	1.446	2.10	1.562	1.468	.068	.062	11571	5200
A 9Q27-175	1.618	2.31	1.750	1.650	.068	.062	12992	6200
A 9Q27-187	1.735	2.44	1.875	1.769	.068	.062	13906	7000
A 9Q27-200	1.850	2.60	2.000	1.886	.068	.062	14819	8050
A 9Q27-212	1.964	2.78	2.125	2.003	.086	.078	19793	9150
A 9Q27-225	2.081	2.88	2.250	2.120	.086	.078	21011	10350
A 9Q27-237	2.197	3.06	2.375	2.239	.086	.078	22127	11400
A 9Q27-250	2.313	3.17	2.500	2.360	.086	.078	23345	12350
A 9Q27-275	2.543	3.48	2.750	2.602	.103	.093	30551	14400
A 9Q27-300	2.775	3.60	3.000	2.838	.103	.093	33394	17200

* Thrust Strength Factor of Safety: Rings = 4 Grooves = 2

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