**Stock Items** in carbon steel and 17-7 PH/C stainless steel.

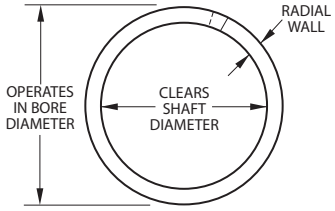
| Smalley Part Number [1,2,5] | Operates in Bore Diameter | Clears Shaft Diameter | Load (lb) | Work Height | Free Height [3] | Number of Waves | Number of Turns | Thickness | Radial Wall | Spring Rate [4] |
|---|---|---|---|---|---|---|---|---|---|---|
| C025-L1* | .250 | .150 | 2 | .033 | .075 | 2.5 | 3 | .006 | .024 | 48 |
| C025-L2* | .250 | .150 | 2 | .050 | .100 | 2.5 | 4 | .006 | .024 | 40 |
| C025-L3* | .250 | .150 | 2 | .060 | .125 | 2.5 | 5 | .006 | .024 | 31 |
| C025-L4* | .250 | .150 | 2 | .075 | .150 | 2.5 | 6 | .006 | .024 | 27 |
| C025-L5* | .250 | .150 | 2 | .085 | .175 | 2.5 | 7 | .006 | .024 | 22 |
| C025-L6* | .250 | .150 | 2 | .095 | .200 | 2.5 | 8 | .006 | .024 | 19 |
| C025-L7* | .250 | .150 | 2 | .120 | .225 | 2.5 | 9 | .006 | .024 | 19 |
| C025-L8* | .250 | .150 | 2 | .140 | .275 | 2.5 | 11 | .006 | .024 | 15 |
| C025-L9* | .250 | .150 | 2 | .170 | .325 | 2.5 | 13 | .006 | .024 | 13 |
| C025-M1* | .250 | .150 | 5 | .037 | .075 | 2.5 | 3 | .008 | .024 | 132 |
| C025-M2* | .250 | .150 | 5 | .048 | .100 | 2.5 | 4 | .008 | .024 | 96 |
| C025-M3* | .250 | .150 | 5 | .065 | .125 | 2.5 | 5 | .008 | .024 | 83 |
| C025-M4* | .250 | .150 | 5 | .075 | .150 | 2.5 | 6 | .008 | .024 | 67 |
| C025-M5* | .250 | .150 | 5 | .090 | .175 | 2.5 | 7 | .008 | .024 | 59 |
| C025-M6* | .250 | .150 | 5 | .100 | .200 | 2.5 | 8 | .008 | .024 | 50 |
| C025-M7* | .250 | .150 | 5 | .120 | .225 | 2.5 | 9 | .008 | .024 | 48 |
| C025-M8* | .250 | .150 | 5 | .148 | .275 | 2.5 | 11 | .008 | .024 | 39 |
| C025-M9* | .250 | .150 | 5 | .175 | .325 | 2.5 | 13 | .008 | .024 | 33 |
| C031-L1 | .312 | .200 | 3 | .070 | .114 | 2.5 | 3 | .008 | .032 | 68 |
| C031-L2 | .312 | .200 | 3 | .096 | .152 | 2.5 | 4 | .008 | .032 | 54 |
| C031-L3 | .312 | .200 | 3 | .118 | .190 | 2.5 | 5 | .008 | .032 | 42 |
| C031-L4 | .312 | .200 | 3 | .145 | .228 | 2.5 | 6 | .008 | .032 | 36 |
| C031-L5 | .312 | .200 | 3 | .165 | .266 | 2.5 | 7 | .008 | .032 | 30 |
| C031-L6 | .312 | .200 | 3 | .195 | .304 | 2.5 | 8 | .008 | .032 | 28 |
| C031-L7 | .312 | .200 | 3 | .215 | .342 | 2.5 | 9 | .008 | .032 | 24 |
| C031-L8 | .312 | .200 | 3 | .262 | .418 | 2.5 | 11 | .008 | .032 | 19 |
| C031-L9 | .312 | .200 | 3 | .309 | .494 | 2.5 | 13 | .008 | .032 | 16 |
| C031-M1 | .312 | .200 | 6 | .072 | .114 | 2.5 | 3 | .010 | .032 | 143 |
| C031-M2 | .312 | .200 | 6 | .096 | .152 | 2.5 | 4 | .010 | .032 | 107 |
| C031-M3 | .312 | .200 | 6 | .123 | .190 | 2.5 | 5 | .010 | .032 | 90 |
| C031-M4 | .312 | .200 | 6 | .144 | .228 | 2.5 | 6 | .010 | .032 | 71 |
| C031-M5 | .312 | .200 | 6 | .176 | .266 | 2.5 | 7 | .010 | .032 | 67 |
| C031-M6 | .312 | .200 | 6 | .197 | .304 | 2.5 | 8 | .010 | .032 | 56 |
| C031-M7 | .312 | .200 | 6 | .227 | .342 | 2.5 | 9 | .010 | .032 | 52 |
| C031-M8 | .312 | .200 | 6 | .278 | .418 | 2.5 | 11 | .010 | .032 | 43 |
| C031-M9 | .312 | .200 | 6 | .336 | .494 | 2.5 | 13 | .010 | .032 | 38 |
| C037-L1 | .375 | .250 | 4 | .062 | .150 | 2.5 | 3 | .008 | .032 | 45 |
| C037-L2 | .375 | .250 | 4 | .098 | .200 | 2.5 | 4 | .008 | .032 | 39 |
| C037-L3 | .375 | .250 | 4 | .108 | .250 | 2.5 | 5 | .008 | .032 | 28 |
| C037-L4 | .375 | .250 | 4 | .135 | .300 | 2.5 | 6 | .008 | .032 | 24 |
| C037-L5 | .375 | .250 | 4 | .150 | .350 | 2.5 | 7 | .008 | .032 | 20 |
| C037-L6 | .375 | .250 | 4 | .184 | .400 | 2.5 | 8 | .008 | .032 | 19 |
| C037-L7 | .375 | .250 | 4 | .195 | .450 | 2.5 | 9 | .008 | .032 | 16 |
| C037-L8 | .375 | .250 | 4 | .228 | .500 | 2.5 | 10 | .008 | .032 | 15 |
| C037-L9 | .375 | .250 | 4 | .240 | .550 | 2.5 | 11 | .008 | .032 | 13 |
| C037-M1 | .375 | .250 | 7 | .081 | .150 | 2.5 | 3 | .011 | .032 | 101 |
| C037-M2 | .375 | .250 | 7 | .119 | .200 | 2.5 | 4 | .011 | .032 | 86 |
| C037-M3 | .375 | .250 | 7 | .145 | .250 | 2.5 | 5 | .011 | .032 | 67 |
| C037-M4 | .375 | .250 | 7 | .180 | .300 | 2.5 | 6 | .011 | .032 | 58 |
| C037-M5 | .375 | .250 | 7 | .202 | .350 | 2.5 | 7 | .011 | .032 | 47 |
| C037-M6 | .375 | .250 | 7 | .240 | .400 | 2.5 | 8 | .011 | .032 | 44 |
| C037-M7 | .375 | .250 | 7 | .262 | .450 | 2.5 | 9 | .011 | .032 | 37 |
| C037-M8 | .375 | .250 | 7 | .298 | .500 | 2.5 | 10 | .011 | .032 | 35 |
| C037-M9 | .375 | .250 | 7 | .327 | .550 | 2.5 | 11 | .011 | .032 | 31 |

[1] Use "C" prefix for plain ends. Use "CS" prefix for squared-shim ends.
[2] Add suffix "-S17" for 17-7 stainless steel.
[3] Reference dimension.
[4] Theoretical dimension; measured in lb/in.
[5] See See pages 126-127 for How to Order.

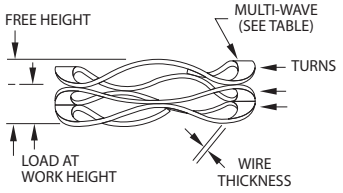
*Not available with shim ends

## Product Dimensions

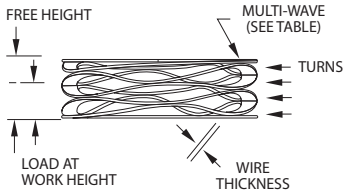
**All dimensions in inches unless otherwise specified.**




### Plain Ends




### Shim Ends




## Order Options

C037-L1 [ ]

**End options:**
Plain ends . . . . . C
Squared-shim ends. . . . . CS

**Material option:**
Carbon Steel . . . . . (blank)
Stainless Steel . . . . . -S17

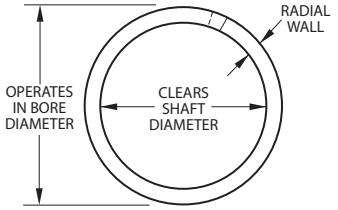
**Stock Items** in carbon steel and 17-7 PH/C stainless steel.

| Smalley Part Number [1,2,5] | Operates in Bore Diameter | Clears Shaft Diameter | Load (lb) | Work Height | Free Height [3] | Number of Waves | Number of Turns | Thickness | Radial Wall | Spring Rate [4] |
|---|---|---|---|---|---|---|---|---|---|---|
| C043-L1 | .437 | .281 | 4 | .063 | .165 | 2.5 | 3 | .008 | .040 | 39 |
| C043-L2 | .437 | .281 | 4 | .093 | .220 | 2.5 | 4 | .008 | .040 | 31 |
| C043-L3 | .437 | .281 | 4 | .109 | .275 | 2.5 | 5 | .008 | .040 | 24 |
| C043-L4 | .437 | .281 | 4 | .143 | .330 | 2.5 | 6 | .008 | .040 | 21 |
| C043-L5 | .437 | .281 | 4 | .160 | .385 | 2.5 | 7 | .008 | .040 | 18 |
| C043-L6 | .437 | .281 | 4 | .195 | .440 | 2.5 | 8 | .008 | .040 | 16 |
| C043-L7 | .437 | .281 | 4 | .210 | .495 | 2.5 | 9 | .008 | .040 | 14 |
| C043-L8 | .437 | .281 | 4 | .240 | .550 | 2.5 | 10 | .008 | .040 | 13 |
| C043-L9 | .437 | .281 | 4 | .260 | .605 | 2.5 | 11 | .008 | .040 | 12 |
| C043-M1 | .437 | .281 | 8 | .082 | .165 | 2.5 | 3 | .011 | .046 | 96 |
| C043-M2 | .437 | .281 | 8 | .115 | .220 | 2.5 | 4 | .011 | .046 | 76 |
| C043-M3 | .437 | .281 | 8 | .142 | .275 | 2.5 | 5 | .011 | .046 | 60 |
| C043-M4 | .437 | .281 | 8 | .179 | .330 | 2.5 | 6 | .011 | .046 | 53 |
| C043-M5 | .437 | .281 | 8 | .198 | .385 | 2.5 | 7 | .011 | .046 | 43 |
| C043-M6 | .437 | .281 | 8 | .231 | .440 | 2.5 | 8 | .011 | .046 | 38 |
| C043-M7 | .437 | .281 | 8 | .255 | .495 | 2.5 | 9 | .011 | .046 | 33 |
| C043-M8 | .437 | .281 | 8 | .290 | .550 | 2.5 | 10 | .011 | .046 | 31 |
| C043-M9 | .437 | .281 | 8 | .319 | .605 | 2.5 | 11 | .011 | .046 | 28 |
| C050-L1 | .500 | .312 | 5 | .062 | .180 | 2.5 | 3 | .008 | .056 | 42 |
| C050-L2 | .500 | .312 | 5 | .090 | .240 | 2.5 | 4 | .008 | .056 | 33 |
| C050-L3 | .500 | .312 | 5 | .107 | .300 | 2.5 | 5 | .008 | .056 | 26 |
| C050-L4 | .500 | .312 | 5 | .136 | .360 | 2.5 | 6 | .008 | .056 | 22 |
| C050-L5 | .500 | .312 | 5 | .150 | .420 | 2.5 | 7 | .008 | .056 | 19 |
| C050-L6 | .500 | .312 | 5 | .180 | .480 | 2.5 | 8 | .008 | .056 | 17 |
| C050-L7 | .500 | .312 | 5 | .195 | .540 | 2.5 | 9 | .008 | .056 | 14 |
| C050-L8 | .500 | .312 | 5 | .220 | .600 | 2.5 | 10 | .008 | .056 | 13 |
| C050-L9 | .500 | .312 | 5 | .240 | .660 | 2.5 | 11 | .008 | .056 | 12 |
| C050-M1 | .500 | .312 | 10 | .065 | .180 | 2.5 | 3 | .010 | .058 | 87 |
| C050-M2 | .500 | .312 | 10 | .092 | .240 | 2.5 | 4 | .010 | .058 | 68 |
| C050-M3 | .500 | .312 | 10 | .114 | .300 | 2.5 | 5 | .010 | .058 | 54 |
| C050-M4 | .500 | .312 | 10 | .147 | .360 | 2.5 | 6 | .010 | .058 | 47 |
| C050-M5 | .500 | .312 | 10 | .162 | .420 | 2.5 | 7 | .010 | .058 | 39 |
| C050-M6 | .500 | .312 | 10 | .196 | .480 | 2.5 | 8 | .010 | .058 | 35 |
| C050-M7 | .500 | .312 | 10 | .207 | .540 | 2.5 | 9 | .010 | .058 | 30 |
| C050-M8 | .500 | .312 | 10 | .246 | .600 | 2.5 | 10 | .010 | .058 | 28 |
| C050-M9 | .500 | .312 | 10 | .264 | .660 | 2.5 | 11 | .010 | .058 | 25 |
| C050-H1 | .500 | .312 | 15 | .075 | .180 | 2.5 | 3 | .012 | .060 | 143 |
| C050-H2 | .500 | .312 | 15 | .110 | .240 | 2.5 | 4 | .012 | .060 | 115 |
| C050-H3 | .500 | .312 | 15 | .136 | .300 | 2.5 | 5 | .012 | .060 | 91 |
| C050-H4 | .500 | .312 | 15 | .167 | .360 | 2.5 | 6 | .012 | .060 | 78 |
| C050-H5 | .500 | .312 | 15 | .182 | .420 | 2.5 | 7 | .012 | .060 | 63 |
| C050-H6 | .500 | .312 | 15 | .216 | .480 | 2.5 | 8 | .012 | .060 | 57 |
| C050-H7 | .500 | .312 | 15 | .240 | .540 | 2.5 | 9 | .012 | .060 | 50 |
| C050-H8 | .500 | .312 | 15 | .280 | .600 | 2.5 | 10 | .012 | .060 | 47 |
| C050-H9 | .500 | .312 | 15 | .312 | .660 | 2.5 | 11 | .012 | .060 | 43 |
| C056-L1 | .562 | .375 | 5 | .080 | .195 | 2.5 | 3 | .009 | .058 | 43 |
| C056-L2 | .562 | .375 | 5 | .125 | .260 | 2.5 | 4 | .009 | .058 | 37 |
| C056-L3 | .562 | .375 | 5 | .135 | .325 | 2.5 | 5 | .009 | .058 | 26 |
| C056-L4 | .562 | .375 | 5 | .180 | .390 | 2.5 | 6 | .009 | .058 | 24 |
| C056-L5 | .562 | .375 | 5 | .190 | .455 | 2.5 | 7 | .009 | .058 | 19 |
| C056-L6 | .562 | .375 | 5 | .230 | .520 | 2.5 | 8 | .009 | .058 | 17 |
| C056-L7 | .562 | .375 | 5 | .260 | .585 | 2.5 | 9 | .009 | .058 | 15 |
| C056-L8 | .562 | .375 | 5 | .285 | .650 | 2.5 | 10 | .009 | .058 | 14 |
| C056-L9 | .562 | .375 | 5 | .315 | .715 | 2.5 | 11 | .009 | .058 | 13 |

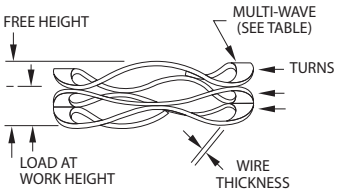
[1] Use "C" prefix for plain ends. Use "CS" prefix for squared-shim ends.
[2] Add suffix "-S17" for 17-7 stainless steel.
[3] Reference dimension.
[4] Theoretical dimension; measured in lb/in.
[5] See pages 126-127 for How to Order.

## Product Dimensions

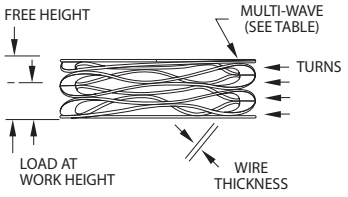
**All dimensions in inches unless otherwise specified.**




### Plain Ends




### Shim Ends




## Order Options

C037-L1 [ ]

**End options:**
Plain ends . . . . . C
Squared-shim ends. . . . . CS

**Material option:**
Carbon Steel . . . . . (blank)
Stainless Steel . . . . . -S17

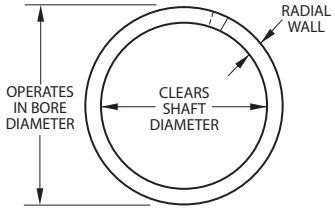
**Stock Items** in carbon steel and 17-7 PH/C stainless steel.

| Smalley Part Number [1,2,5] | Operates in Bore Diameter | Clears Shaft Diameter | Load (lb) | Work Height | Free Height [3] | Number of Waves | Number of Turns | Thickness | Radial Wall | Spring Rate [4] |
|---|---|---|---|---|---|---|---|---|---|---|
| C056-M1 | .562 | .375 | 11 | .086 | .195 | 2.5 | 3 | .012 | .060 | 101 |
| C056-M2 | .562 | .375 | 11 | .123 | .260 | 2.5 | 4 | .012 | .060 | 80 |
| C056-M3 | .562 | .375 | 11 | .145 | .325 | 2.5 | 5 | .012 | .060 | 61 |
| C056-M4 | .562 | .375 | 11 | .187 | .390 | 2.5 | 6 | .012 | .060 | 54 |
| C056-M5 | .562 | .375 | 11 | .209 | .455 | 2.5 | 7 | .012 | .060 | 45 |
| C056-M6 | .562 | .375 | 11 | .253 | .520 | 2.5 | 8 | .012 | .060 | 41 |
| C056-M7 | .562 | .375 | 11 | .273 | .585 | 2.5 | 9 | .012 | .060 | 35 |
| C056-M8 | .562 | .375 | 11 | .318 | .650 | 2.5 | 10 | .012 | .060 | 33 |
| C056-M9 | .562 | .375 | 11 | .343 | .715 | 2.5 | 11 | .012 | .060 | 30 |
| C056-H1 | .562 | .375 | 18 | .093 | .195 | 2.5 | 3 | .015 | .060 | 176 |
| C056-H2 | .562 | .375 | 18 | .136 | .260 | 2.5 | 4 | .015 | .060 | 145 |
| C056-H3 | .562 | .375 | 18 | .165 | .325 | 2.5 | 5 | .015 | .060 | 113 |
| C056-H4 | .562 | .375 | 18 | .212 | .390 | 2.5 | 6 | .015 | .060 | 101 |
| C056-H5 | .562 | .375 | 18 | .245 | .455 | 2.5 | 7 | .015 | .060 | 86 |
| C056-H6 | .562 | .375 | 18 | .282 | .520 | 2.5 | 8 | .015 | .060 | 76 |
| C056-H7 | .562 | .375 | 18 | .323 | .585 | 2.5 | 9 | .015 | .060 | 69 |
| C056-H8 | .562 | .375 | 18 | .360 | .650 | 2.5 | 10 | .015 | .060 | 62 |
| C056-H9 | .562 | .375 | 18 | .408 | .715 | 2.5 | 11 | .015 | .060 | 59 |
| C062-L1 | .625 | .450 | 6 | .055 | .180 | 2.5 | 3 | .010 | .058 | 48 |
| C062-L2 | .625 | .450 | 6 | .068 | .240 | 2.5 | 4 | .010 | .058 | 35 |
| C062-L3 | .625 | .450 | 6 | .085 | .300 | 2.5 | 5 | .010 | .058 | 28 |
| C062-L4 | .625 | .450 | 6 | .106 | .360 | 2.5 | 6 | .010 | .058 | 24 |
| C062-L5 | .625 | .450 | 6 | .128 | .420 | 2.5 | 7 | .010 | .058 | 21 |
| C062-L6 | .625 | .450 | 6 | .165 | .540 | 2.5 | 9 | .010 | .058 | 16 |
| C062-L7 | .625 | .450 | 6 | .202 | .660 | 2.5 | 11 | .010 | .058 | 13 |
| C062-L8 | .625 | .450 | 6 | .238 | .780 | 2.5 | 13 | .010 | .058 | 11 |
| C062-M1 | .625 | .450 | 12 | .104 | .180 | 3.5 | 3 | .010 | .058 | 158 |
| C062-M2 | .625 | .450 | 12 | .130 | .240 | 3.5 | 4 | .010 | .058 | 109 |
| C062-M3 | .625 | .450 | 12 | .175 | .300 | 3.5 | 5 | .010 | .058 | 96 |
| C062-M4 | .625 | .450 | 12 | .206 | .360 | 3.5 | 6 | .010 | .058 | 78 |
| C062-M5 | .625 | .450 | 12 | .246 | .420 | 3.5 | 7 | .010 | .058 | 69 |
| C062-M6 | .625 | .450 | 12 | .317 | .540 | 3.5 | 9 | .010 | .058 | 54 |
| C062-M7 | .625 | .450 | 12 | .386 | .660 | 3.5 | 11 | .010 | .058 | 44 |
| C062-M8 | .625 | .450 | 12 | .454 | .780 | 3.5 | 13 | .010 | .058 | 37 |
| C062-H1 | .625 | .450 | 20 | .102 | .180 | 3.5 | 3 | .012 | .060 | 256 |
| C062-H2 | .625 | .450 | 20 | .135 | .240 | 3.5 | 4 | .012 | .060 | 190 |
| C062-H3 | .625 | .450 | 20 | .175 | .300 | 3.5 | 5 | .012 | .060 | 160 |
| C062-H4 | .625 | .450 | 20 | .205 | .360 | 3.5 | 6 | .012 | .060 | 129 |
| C062-H5 | .625 | .450 | 20 | .245 | .420 | 3.5 | 7 | .012 | .060 | 114 |
| C062-H6 | .625 | .450 | 20 | .315 | .540 | 3.5 | 9 | .012 | .060 | 89 |
| C062-H7 | .625 | .450 | 20 | .390 | .660 | 3.5 | 11 | .012 | .060 | 74 |
| C062-H8 | .625 | .450 | 20 | .465 | .780 | 3.5 | 13 | .012 | .060 | 63 |
| C075-L1 | .750 | .550 | 7 | .142 | .250 | 3.5 | 3 | .008 | .071 | 65 |
| C075-L2 | .750 | .550 | 7 | .187 | .333 | 3.5 | 4 | .008 | .071 | 48 |
| C075-L3 | .750 | .550 | 7 | .246 | .417 | 3.5 | 5 | .008 | .071 | 41 |
| C075-L4 | .750 | .550 | 7 | .285 | .500 | 3.5 | 6 | .008 | .071 | 33 |
| C075-L5 | .750 | .550 | 7 | .348 | .583 | 3.5 | 7 | .008 | .071 | 30 |
| C075-L6 | .750 | .550 | 7 | .446 | .750 | 3.5 | 9 | .008 | .071 | 23 |
| C075-L7 | .750 | .550 | 7 | .580 | 1.000 | 3.5 | 12 | .008 | .071 | 17 |
| C075-M1 | .750 | .550 | 13 | .159 | .250 | 3.5 | 3 | .010 | .078 | 143 |
| C075-M2 | .750 | .550 | 13 | .203 | .333 | 3.5 | 4 | .010 | .078 | 100 |
| C075-M3 | .750 | .550 | 13 | .270 | .417 | 3.5 | 5 | .010 | .078 | 88 |
| C075-M4 | .750 | .550 | 13 | .314 | .500 | 3.5 | 6 | .010 | .078 | 70 |
| C075-M5 | .750 | .550 | 13 | .381 | .583 | 3.5 | 7 | .010 | .078 | 64 |
| C075-M6 | .750 | .550 | 13 | .489 | .750 | 3.5 | 9 | .010 | .078 | 50 |
| C075-M7 | .750 | .550 | 13 | .649 | 1.000 | 3.5 | 12 | .010 | .078 | 37 |
| C075-H1 | .750 | .550 | 22 | .169 | .250 | 3.5 | 3 | .013 | .079 | 272 |
| C075-H2 | .750 | .550 | 22 | .215 | .333 | 3.5 | 4 | .013 | .079 | 186 |
| C075-H3 | .750 | .550 | 22 | .291 | .417 | 3.5 | 5 | .013 | .079 | 175 |
| C075-H4 | .750 | .550 | 22 | .335 | .500 | 3.5 | 6 | .013 | .079 | 133 |
| C075-H5 | .750 | .550 | 22 | .405 | .583 | 3.5 | 7 | .013 | .079 | 124 |
| C075-H6 | .750 | .550 | 22 | .526 | .750 | 3.5 | 9 | .013 | .079 | 98 |
| C075-H7 | .750 | .550 | 22 | .699 | 1.000 | 3.5 | 12 | .013 | .079 | 73 |

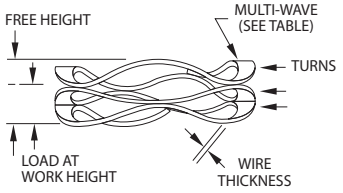
[1] Use "C" prefix for plain ends. Use "CS" prefix for squared-shim ends.
[2] Add suffix "-S17" for 17-7 stainless steel.
[3] Reference dimension.
[4] Theoretical dimension; measured in lb/in.
[5] See pages 126-127 for How to Order.

## Product Dimensions

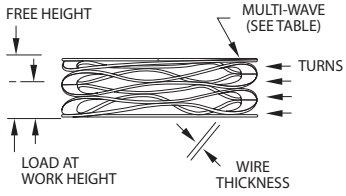
**All dimensions in inches unless otherwise specified.**




### Plain Ends




### Shim Ends




## Order Options

C037-L1 [ ]

**End options:**
Plain ends . . . . . C
Squared-shim ends. . . . . CS

**Material option:**
Carbon Steel . . . . . (blank)
Stainless Steel . . . . . -S17

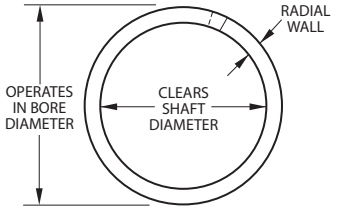
**Stock Items** in carbon steel and 17-7 PH/C stainless steel.

| Smalley Part Number [1,2,5] | Operates in Bore Diameter | Clears Shaft Diameter | Load (lb) | Work Height | Free Height [3] | Number of Waves | Number of Turns | Thickness | Radial Wall | Spring Rate [4] |
|---|---|---|---|---|---|---|---|---|---|---|
| C087-L1 | .875 | .600 | 12 | .117 | .250 | 3.5 | 3 | .010 | .086 | 90 |
| C087-L2 | .875 | .600 | 12 | .158 | .333 | 3.5 | 4 | .010 | .086 | 69 |
| C087-L3 | .875 | .600 | 12 | .207 | .417 | 3.5 | 5 | .010 | .086 | 57 |
| C087-L4 | .875 | .600 | 12 | .242 | .500 | 3.5 | 6 | .010 | .086 | 47 |
| C087-L5 | .875 | .600 | 12 | .287 | .583 | 3.5 | 7 | .010 | .086 | 41 |
| C087-L6 | .875 | .600 | 12 | .378 | .750 | 3.5 | 9 | .010 | .086 | 32 |
| C087-L7 | .875 | .600 | 12 | .498 | 1.000 | 3.5 | 12 | .010 | .086 | 24 |
| C087-M1 | .875 | .600 | 18 | .124 | .250 | 3.5 | 3 | .012 | .094 | 148 |
| C087-M2 | .875 | .600 | 18 | .164 | .333 | 3.5 | 4 | .012 | .094 | 108 |
| C087-M3 | .875 | .600 | 18 | .214 | .417 | 3.5 | 5 | .012 | .094 | 89 |
| C087-M4 | .875 | .600 | 18 | .252 | .500 | 3.5 | 6 | .012 | .094 | 76 |
| C087-M5 | .875 | .600 | 18 | .296 | .583 | 3.5 | 7 | .012 | .094 | 66 |
| C087-M6 | .875 | .600 | 18 | .385 | .750 | 3.5 | 9 | .012 | .094 | 50 |
| C087-M7 | .875 | .600 | 18 | .509 | 1.000 | 3.5 | 12 | .012 | .094 | 38 |
| C087-H1 | .875 | .600 | 25 | .166 | .250 | 3.5 | 3 | .015 | .094 | 298 |
| C087-H2 | .875 | .600 | 25 | .214 | .333 | 3.5 | 4 | .015 | .094 | 210 |
| C087-H3 | .875 | .600 | 25 | .278 | .417 | 3.5 | 5 | .015 | .094 | 180 |
| C087-H4 | .875 | .600 | 25 | .327 | .500 | 3.5 | 6 | .015 | .094 | 145 |
| C087-H5 | .875 | .600 | 25 | .395 | .583 | 3.5 | 7 | .015 | .094 | 133 |
| C087-H6 | .875 | .600 | 25 | .510 | .750 | 3.5 | 9 | .015 | .094 | 104 |
| C087-H7 | .875 | .600 | 25 | .670 | 1.000 | 3.5 | 12 | .015 | .094 | 78 |
| C100-L1 | 1.000 | .730 | 12 | .084 | .250 | 3.5 | 3 | .010 | .086 | 72 |
| C100-L2 | 1.000 | .730 | 12 | .108 | .333 | 3.5 | 4 | .010 | .086 | 53 |
| C100-L3 | 1.000 | .730 | 12 | .145 | .417 | 3.5 | 5 | .010 | .086 | 44 |
| C100-L4 | 1.000 | .730 | 12 | .165 | .500 | 3.5 | 6 | .010 | .086 | 36 |
| C100-L5 | 1.000 | .730 | 12 | .201 | .583 | 3.5 | 7 | .010 | .086 | 31 |
| C100-L6 | 1.000 | .730 | 12 | .258 | .750 | 3.5 | 9 | .010 | .086 | 24 |
| C100-L7 | 1.000 | .730 | 12 | .342 | 1.000 | 3.5 | 12 | .010 | .086 | 18 |
| C100-L8 | 1.000 | .730 | 12 | .445 | 1.250 | 3.5 | 15 | .010 | .086 | 15 |
| C100-L9 | 1.000 | .730 | 12 | .519 | 1.500 | 3.5 | 18 | .010 | .086 | 12 |
| C100-L10 | 1.000 | .730 | 12 | .633 | 1.750 | 3.5 | 21 | .010 | .086 | 11 |
| C100-L11 | 1.000 | .730 | 12 | .710 | 2.000 | 3.5 | 24 | .010 | .086 | 9 |
| C100-M1 | 1.000 | .730 | 18 | .087 | .250 | 3.5 | 3 | .012 | .094 | 110 |
| C100-M2 | 1.000 | .730 | 18 | .113 | .333 | 3.5 | 4 | .012 | .094 | 82 |
| C100-M3 | 1.000 | .730 | 18 | .148 | .417 | 3.5 | 5 | .012 | .094 | 67 |
| C100-M4 | 1.000 | .730 | 18 | .175 | .500 | 3.5 | 6 | .012 | .094 | 55 |
| C100-M5 | 1.000 | .730 | 18 | .212 | .583 | 3.5 | 7 | .012 | .094 | 49 |
| C100-M6 | 1.000 | .730 | 18 | .276 | .750 | 3.5 | 9 | .012 | .094 | 38 |
| C100-M7 | 1.000 | .730 | 18 | .360 | 1.000 | 3.5 | 12 | .012 | .094 | 28 |
| C100-M8 | 1.000 | .730 | 18 | .452 | 1.250 | 3.5 | 15 | .012 | .094 | 23 |
| C100-M9 | 1.000 | .730 | 18 | .549 | 1.500 | 3.5 | 18 | .012 | .094 | 19 |
| C100-M10 | 1.000 | .730 | 18 | .650 | 1.750 | 3.5 | 21 | .012 | .094 | 16 |
| C100-M11 | 1.000 | .730 | 18 | .720 | 2.000 | 3.5 | 24 | .012 | .094 | 14 |
| C100-H1 | 1.000 | .730 | 25 | .131 | .250 | 3.5 | 3 | .015 | .094 | 210 |
| C100-H2 | 1.000 | .730 | 25 | .174 | .333 | 3.5 | 4 | .015 | .094 | 157 |
| C100-H3 | 1.000 | .730 | 25 | .227 | .417 | 3.5 | 5 | .015 | .094 | 132 |
| C100-H4 | 1.000 | .730 | 25 | .266 | .500 | 3.5 | 6 | .015 | .094 | 107 |
| C100-H5 | 1.000 | .730 | 25 | .319 | .583 | 3.5 | 7 | .015 | .094 | 95 |
| C100-H6 | 1.000 | .730 | 25 | .406 | .750 | 3.5 | 9 | .015 | .094 | 73 |
| C100-H7 | 1.000 | .730 | 25 | .541 | 1.000 | 3.5 | 12 | .015 | .094 | 54 |
| C100-H8 | 1.000 | .730 | 25 | .688 | 1.250 | 3.5 | 15 | .015 | .094 | 45 |
| C100-H9 | 1.000 | .730 | 25 | .813 | 1.500 | 3.5 | 18 | .015 | .094 | 36 |
| C100-H10 | 1.000 | .730 | 25 | .957 | 1.750 | 3.5 | 21 | .015 | .094 | 32 |
| C100-H11 | 1.000 | .730 | 25 | 1.083 | 2.000 | 3.5 | 24 | .015 | .094 | 27 |

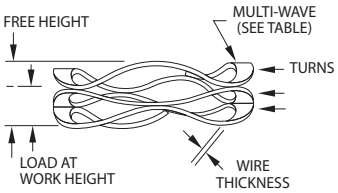
[1] Use "C" prefix for plain ends. Use "CS" prefix for squared-shim ends.
[2] Add suffix "-S17" for 17-7 stainless steel.
[3] Reference dimension.
[4] Theoretical dimension; measured in lb/in.
[5] See pages 126-127 for How to Order.

## Product Dimensions

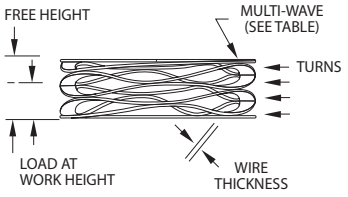
**All dimensions in inches unless otherwise specified.**




### Plain Ends




### Shim Ends




## Order Options

C037-L1 ☐

**End options:**
Plain ends . . . . . C
Squared-shim ends. . . . . CS

**Material option:**
Carbon Steel . . . . . (blank)
Stainless Steel . . . . . -S17

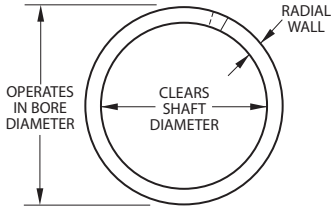
**Stock Items** in carbon steel and 17-7 PH/C stainless steel.

| Smalley Part Number [1,2,5] | Operates in Bore Diameter | Clears Shaft Diameter | Load (lb) | Work Height | Free Height [3] | Number of Waves | Number of Turns | Thickness | Radial Wall | Spring Rate [4] |
|---|---|---|---|---|---|---|---|---|---|---|
| C112-L1 | 1.125 | .850 | 12 | .146 | .300 | 3.5 | 3 | .012 | .094 | 78 |
| C112-L2 | 1.125 | .850 | 12 | .186 | .400 | 3.5 | 4 | .012 | .094 | 56 |
| C112-L3 | 1.125 | .850 | 12 | .250 | .500 | 3.5 | 5 | .012 | .094 | 48 |
| C112-L4 | 1.125 | .850 | 12 | .295 | .600 | 3.5 | 6 | .012 | .094 | 39 |
| C112-L5 | 1.125 | .850 | 12 | .344 | .700 | 3.5 | 7 | .012 | .094 | 34 |
| C112-L6 | 1.125 | .850 | 12 | .392 | .800 | 3.5 | 8 | .012 | .094 | 29 |
| C112-L7 | 1.125 | .850 | 12 | .488 | 1.000 | 3.5 | 10 | .012 | .094 | 23 |
| C112-L8 | 1.125 | .850 | 12 | .659 | 1.300 | 3.5 | 13 | .012 | .094 | 19 |
| C112-L9 | 1.125 | .850 | 12 | .807 | 1.600 | 3.5 | 16 | .012 | .094 | 15 |
| C112-L10 | 1.125 | .850 | 12 | 1.017 | 2.000 | 3.5 | 20 | .012 | .094 | 12 |
| C112-M1 | 1.125 | .850 | 20 | .160 | .300 | 3.5 | 3 | .015 | .094 | 143 |
| C112-M2 | 1.125 | .850 | 20 | .202 | .400 | 3.5 | 4 | .015 | .094 | 101 |
| C112-M3 | 1.125 | .850 | 20 | .270 | .500 | 3.5 | 5 | .015 | .094 | 87 |
| C112-M4 | 1.125 | .850 | 20 | .318 | .600 | 3.5 | 6 | .015 | .094 | 71 |
| C112-M5 | 1.125 | .850 | 20 | .381 | .700 | 3.5 | 7 | .015 | .094 | 63 |
| C112-M6 | 1.125 | .850 | 20 | .427 | .800 | 3.5 | 8 | .015 | .094 | 54 |
| C112-M7 | 1.125 | .850 | 20 | .536 | 1.000 | 3.5 | 10 | .015 | .094 | 43 |
| C112-M8 | 1.125 | .850 | 20 | .708 | 1.300 | 3.5 | 13 | .015 | .094 | 34 |
| C112-M9 | 1.125 | .850 | 20 | .861 | 1.600 | 3.5 | 16 | .015 | .094 | 27 |
| C112-M10 | 1.125 | .850 | 20 | 1.088 | 2.000 | 3.5 | 20 | .015 | .094 | 22 |
| C112-H1 | 1.125 | .850 | 30 | .178 | .300 | 3.5 | 3 | .018 | .094 | 246 |
| C112-H2 | 1.125 | .850 | 30 | .229 | .400 | 3.5 | 4 | .018 | .094 | 175 |
| C112-H3 | 1.125 | .850 | 30 | .303 | .500 | 3.5 | 5 | .018 | .094 | 152 |
| C112-H4 | 1.125 | .850 | 30 | .350 | .600 | 3.5 | 6 | .018 | .094 | 120 |
| C112-H5 | 1.125 | .850 | 30 | .421 | .700 | 3.5 | 7 | .018 | .094 | 108 |
| C112-H6 | 1.125 | .850 | 30 | .470 | .800 | 3.5 | 8 | .018 | .094 | 91 |
| C112-H7 | 1.125 | .850 | 30 | .593 | 1.000 | 3.5 | 10 | .018 | .094 | 74 |
| C112-H8 | 1.125 | .850 | 30 | .787 | 1.300 | 3.5 | 13 | .018 | .094 | 58 |
| C112-H9 | 1.125 | .850 | 30 | .956 | 1.600 | 3.5 | 16 | .018 | .094 | 47 |
| C112-H10 | 1.125 | .850 | 30 | 1.202 | 2.000 | 3.5 | 20 | .018 | .094 | 38 |
| C125-L1 | 1.250 | 1.000 | 12 | .084 | .300 | 3.5 | 3 | .012 | .094 | 56 |
| C125-L2 | 1.250 | 1.000 | 12 | .113 | .400 | 3.5 | 4 | .012 | .094 | 42 |
| C125-L3 | 1.250 | 1.000 | 12 | .149 | .500 | 3.5 | 5 | .012 | .094 | 34 |
| C125-L4 | 1.250 | 1.000 | 12 | .172 | .600 | 3.5 | 6 | .012 | .094 | 28 |
| C125-L5 | 1.250 | 1.000 | 12 | .207 | .700 | 3.5 | 7 | .012 | .094 | 24 |
| C125-L6 | 1.250 | 1.000 | 12 | .227 | .800 | 3.5 | 8 | .012 | .094 | 21 |
| C125-L7 | 1.250 | 1.000 | 12 | .301 | 1.000 | 3.5 | 10 | .012 | .094 | 17 |
| C125-L8 | 1.250 | 1.000 | 12 | .395 | 1.300 | 3.5 | 13 | .012 | .094 | 13 |
| C125-L9 | 1.250 | 1.000 | 12 | .467 | 1.600 | 3.5 | 16 | .012 | .094 | 11 |
| C125-L10 | 1.250 | 1.000 | 12 | .591 | 2.000 | 3.5 | 20 | .012 | .094 | 9 |
| C125-M1 | 1.250 | 1.000 | 20 | .124 | .300 | 3.5 | 3 | .015 | .094 | 114 |
| C125-M2 | 1.250 | 1.000 | 20 | .165 | .400 | 3.5 | 4 | .015 | .094 | 85 |
| C125-M3 | 1.250 | 1.000 | 20 | .215 | .500 | 3.5 | 5 | .015 | .094 | 70 |
| C125-M4 | 1.250 | 1.000 | 20 | .253 | .600 | 3.5 | 6 | .015 | .094 | 58 |
| C125-M5 | 1.250 | 1.000 | 20 | .303 | .700 | 3.5 | 7 | .015 | .094 | 50 |
| C125-M6 | 1.250 | 1.000 | 20 | .341 | .800 | 3.5 | 8 | .015 | .094 | 44 |
| C125-M7 | 1.250 | 1.000 | 20 | .427 | 1.000 | 3.5 | 10 | .015 | .094 | 35 |
| C125-M8 | 1.250 | 1.000 | 20 | .577 | 1.300 | 3.5 | 13 | .015 | .094 | 28 |
| C125-M9 | 1.250 | 1.000 | 20 | .692 | 1.600 | 3.5 | 16 | .015 | .094 | 22 |
| C125-M10 | 1.250 | 1.000 | 20 | .866 | 2.000 | 3.5 | 20 | .015 | .094 | 18 |
| C125-H1 | 1.250 | 1.000 | 30 | .158 | .300 | 3.5 | 3 | .019 | .094 | 210 |
| C125-H2 | 1.250 | 1.000 | 30 | .210 | .400 | 3.5 | 4 | .019 | .094 | 158 |
| C125-H3 | 1.250 | 1.000 | 30 | .272 | .500 | 3.5 | 5 | .019 | .094 | 132 |
| C125-H4 | 1.250 | 1.000 | 30 | .320 | .600 | 3.5 | 6 | .019 | .094 | 107 |
| C125-H5 | 1.250 | 1.000 | 30 | .384 | .700 | 3.5 | 7 | .019 | .094 | 95 |
| C125-H6 | 1.250 | 1.000 | 30 | .433 | .800 | 3.5 | 8 | .019 | .094 | 82 |
| C125-H7 | 1.250 | 1.000 | 30 | .538 | 1.000 | 3.5 | 10 | .019 | .094 | 65 |
| C125-H8 | 1.250 | 1.000 | 30 | .717 | 1.300 | 3.5 | 13 | .019 | .094 | 51 |
| C125-H9 | 1.250 | 1.000 | 30 | .878 | 1.600 | 3.5 | 16 | .019 | .094 | 42 |
| C125-H10 | 1.250 | 1.000 | 30 | 1.103 | 2.000 | 3.5 | 20 | .019 | .094 | 33 |

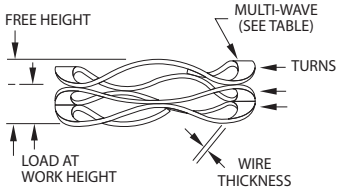
[1] Use "C" prefix for plain ends. Use "CS" prefix for squared-shim ends.
[2] Add suffix "-S17" for 17-7 stainless steel.
[3] Reference dimension.
[4] Theoretical dimension; measured in lb/in.
[5] See pages 126-127 for How to Order.

## Product Dimensions

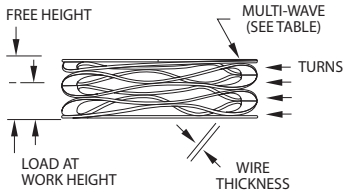
**All dimensions in inches unless otherwise specified.**




### Plain Ends




### Shim Ends




## Order Options

C037-L1 [ ]

**End options:**
Plain ends . . . . . C
Squared-shim ends. . . . . CS

**Material option:**
Carbon Steel . . . . . (blank)
Stainless Steel . . . . . -S17

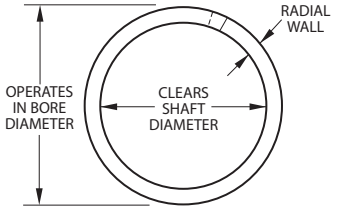
**Stock Items** in carbon steel and 17-7 PH/C stainless steel.

| Smalley Part Number [1,2,5] | Operates in Bore Diameter | Clears Shaft Diameter | Load (lb) | Work Height | Free Height [3] | Number of Waves | Number of Turns | Thickness | Radial Wall | Spring Rate [4] |
|---|---|---|---|---|---|---|---|---|---|---|
| C137-L1 | 1.375 | 1.030 | 15 | .075 | .300 | 3.5 | 3 | .012 | .122 | 67 |
| C137-L2 | 1.375 | 1.030 | 15 | .099 | .400 | 3.5 | 4 | .012 | .122 | 50 |
| C137-L3 | 1.375 | 1.030 | 15 | .129 | .500 | 3.5 | 5 | .012 | .122 | 40 |
| C137-L4 | 1.375 | 1.030 | 15 | .155 | .600 | 3.5 | 6 | .012 | .122 | 34 |
| C137-L5 | 1.375 | 1.030 | 15 | .179 | .700 | 3.5 | 7 | .012 | .122 | 29 |
| C137-L6 | 1.375 | 1.030 | 15 | .206 | .800 | 3.5 | 8 | .012 | .122 | 25 |
| C137-L7 | 1.375 | 1.030 | 15 | .256 | 1.000 | 3.5 | 10 | .012 | .122 | 20 |
| C137-L8 | 1.375 | 1.030 | 15 | .341 | 1.300 | 3.5 | 13 | .012 | .122 | 16 |
| C137-L9 | 1.375 | 1.030 | 15 | .424 | 1.600 | 3.5 | 16 | .012 | .122 | 13 |
| C137-L10 | 1.375 | 1.030 | 15 | .530 | 2.000 | 3.5 | 20 | .012 | .122 | 10 |
| C137-M1 | 1.375 | 1.030 | 25 | .142 | .300 | 3.5 | 3 | .016 | .133 | 158 |
| C137-M2 | 1.375 | 1.030 | 25 | .186 | .400 | 3.5 | 4 | .016 | .133 | 117 |
| C137-M3 | 1.375 | 1.030 | 25 | .240 | .500 | 3.5 | 5 | .016 | .133 | 96 |
| C137-M4 | 1.375 | 1.030 | 25 | .281 | .600 | 3.5 | 6 | .016 | .133 | 78 |
| C137-M5 | 1.375 | 1.030 | 25 | .340 | .700 | 3.5 | 7 | .016 | .133 | 69 |
| C137-M6 | 1.375 | 1.030 | 25 | .384 | .800 | 3.5 | 8 | .016 | .133 | 60 |
| C137-M7 | 1.375 | 1.030 | 25 | .486 | 1.000 | 3.5 | 10 | .016 | .133 | 49 |
| C137-M8 | 1.375 | 1.030 | 25 | .632 | 1.300 | 3.5 | 13 | .016 | .133 | 37 |
| C137-M9 | 1.375 | 1.030 | 25 | .788 | 1.600 | 3.5 | 16 | .016 | .133 | 31 |
| C137-M10 | 1.375 | 1.030 | 25 | .982 | 2.000 | 3.5 | 20 | .016 | .133 | 25 |
| C137-H1 | 1.375 | 1.030 | 35 | .149 | .300 | 3.5 | 3 | .018 | .133 | 232 |
| C137-H2 | 1.375 | 1.030 | 35 | .189 | .400 | 3.5 | 4 | .018 | .133 | 166 |
| C137-H3 | 1.375 | 1.030 | 35 | .247 | .500 | 3.5 | 5 | .018 | .133 | 138 |
| C137-H4 | 1.375 | 1.030 | 35 | .287 | .600 | 3.5 | 6 | .018 | .133 | 112 |
| C137-H5 | 1.375 | 1.030 | 35 | .343 | .700 | 3.5 | 7 | .018 | .133 | 98 |
| C137-H6 | 1.375 | 1.030 | 35 | .390 | .800 | 3.5 | 8 | .018 | .133 | 85 |
| C137-H7 | 1.375 | 1.030 | 35 | .490 | 1.000 | 3.5 | 10 | .018 | .133 | 69 |
| C137-H8 | 1.375 | 1.030 | 35 | .646 | 1.300 | 3.5 | 13 | .018 | .133 | 54 |
| C137-H9 | 1.375 | 1.030 | 35 | .793 | 1.600 | 3.5 | 16 | .018 | .133 | 43 |
| C137-H10 | 1.375 | 1.030 | 35 | 1.000 | 2.000 | 3.5 | 20 | .018 | .133 | 35 |
| C150-L1 | 1.500 | 1.140 | 20 | .129 | .300 | 3.5 | 3 | .016 | .133 | 117 |
| C150-L2 | 1.500 | 1.140 | 20 | .164 | .400 | 3.5 | 4 | .016 | .133 | 85 |
| C150-L3 | 1.500 | 1.140 | 20 | .213 | .500 | 3.5 | 5 | .016 | .133 | 70 |
| C150-L4 | 1.500 | 1.140 | 20 | .247 | .600 | 3.5 | 6 | .016 | .133 | 57 |
| C150-L5 | 1.500 | 1.140 | 20 | .301 | .700 | 3.5 | 7 | .016 | .133 | 50 |
| C150-L6 | 1.500 | 1.140 | 20 | .337 | .800 | 3.5 | 8 | .016 | .133 | 43 |
| C150-L7 | 1.500 | 1.140 | 20 | .430 | 1.000 | 3.5 | 10 | .016 | .133 | 35 |
| C150-L8 | 1.500 | 1.140 | 20 | .565 | 1.300 | 3.5 | 13 | .016 | .133 | 27 |
| C150-L9 | 1.500 | 1.140 | 20 | .694 | 1.600 | 3.5 | 16 | .016 | .133 | 22 |
| C150-L10 | 1.500 | 1.140 | 20 | .866 | 2.000 | 3.5 | 20 | .016 | .133 | 18 |
| C150-M1 | 1.500 | 1.140 | 35 | .122 | .300 | 3.5 | 3 | .018 | .133 | 197 |
| C150-M2 | 1.500 | 1.140 | 35 | .158 | .400 | 3.5 | 4 | .018 | .133 | 145 |
| C150-M3 | 1.500 | 1.140 | 35 | .206 | .500 | 3.5 | 5 | .018 | .133 | 119 |
| C150-M4 | 1.500 | 1.140 | 35 | .241 | .600 | 3.5 | 6 | .018 | .133 | 97 |
| C150-M5 | 1.500 | 1.140 | 35 | .291 | .700 | 3.5 | 7 | .018 | .133 | 86 |
| C150-M6 | 1.500 | 1.140 | 35 | .324 | .800 | 3.5 | 8 | .018 | .133 | 74 |
| C150-M7 | 1.500 | 1.140 | 35 | .409 | 1.000 | 3.5 | 10 | .018 | .133 | 59 |
| C150-M8 | 1.500 | 1.140 | 35 | .540 | 1.300 | 3.5 | 13 | .018 | .133 | 46 |
| C150-M9 | 1.500 | 1.140 | 35 | .657 | 1.600 | 3.5 | 16 | .018 | .133 | 37 |
| C150-M10 | 1.500 | 1.140 | 35 | .835 | 2.000 | 3.5 | 20 | .018 | .133 | 30 |
| C150-H1 | 1.500 | 1.140 | 60 | .166 | .300 | 4.5 | 3 | .018 | .133 | 448 |
| C150-H2 | 1.500 | 1.140 | 60 | .216 | .400 | 4.5 | 4 | .018 | .133 | 326 |
| C150-H3 | 1.500 | 1.140 | 60 | .278 | .500 | 4.5 | 5 | .018 | .133 | 270 |
| C150-H4 | 1.500 | 1.140 | 60 | .329 | .600 | 4.5 | 6 | .018 | .133 | 221 |
| C150-H5 | 1.500 | 1.140 | 60 | .390 | .700 | 4.5 | 7 | .018 | .133 | 194 |
| C150-H6 | 1.500 | 1.140 | 60 | .443 | .800 | 4.5 | 8 | .018 | .133 | 168 |
| C150-H7 | 1.500 | 1.140 | 60 | .555 | 1.000 | 4.5 | 10 | .018 | .133 | 135 |
| C150-H8 | 1.500 | 1.140 | 60 | .726 | 1.300 | 4.5 | 13 | .018 | .133 | 105 |
| C150-H9 | 1.500 | 1.140 | 60 | .890 | 1.600 | 4.5 | 16 | .018 | .133 | 85 |
| C150-H10 | 1.500 | 1.140 | 60 | 1.119 | 2.000 | 4.5 | 20 | .018 | .133 | 68 |

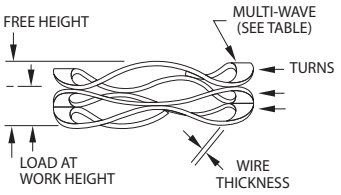
[1] Use "C" prefix for plain ends. Use "CS" prefix for squared-shim ends.
[2] Add suffix "-S17" for 17-7 stainless steel.
[3] Reference dimension.
[4] Theoretical dimension; measured in lb/in.
[5] See pages 126-127 for How to Order.

## Product Dimensions

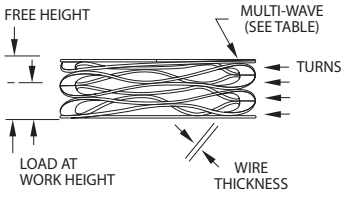
**All dimensions in inches unless otherwise specified.**




### Plain Ends




### Shim Ends




## Order Options

C037-L1 [ ]

**End options:**
Plain ends . . . . . C
Squared-shim ends. . . . . CS

**Material option:**
Carbon Steel . . . . . (blank)
Stainless Steel . . . . . -S17

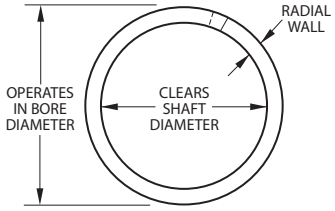
**Stock Items** in carbon steel and 17-7 PH/C stainless steel.

| Smalley Part Number [1,2,5] | Operates in Bore Diameter | Clears Shaft Diameter | Load (lb) | Work Height | Free Height [3] | Number of Waves | Number of Turns | Thickness | Radial Wall | Spring Rate [4] |
|---|---|---|---|---|---|---|---|---|---|---|
| C175-L1 | 1.750 | 1.340 | 25 | .155 | .375 | 3.5 | 3 | .018 | .143 | 114 |
| C175-L2 | 1.750 | 1.340 | 25 | .200 | .500 | 3.5 | 4 | .018 | .143 | 83 |
| C175-L3 | 1.750 | 1.340 | 25 | .265 | .625 | 3.5 | 5 | .018 | .143 | 69 |
| C175-L4 | 1.750 | 1.340 | 25 | .310 | .750 | 3.5 | 6 | .018 | .143 | 57 |
| C175-L5 | 1.750 | 1.340 | 25 | .367 | .870 | 3.5 | 7 | .018 | .143 | 50 |
| C175-L6 | 1.750 | 1.340 | 25 | .415 | 1.000 | 3.5 | 8 | .018 | .143 | 43 |
| C175-L7 | 1.750 | 1.340 | 25 | .523 | 1.250 | 3.5 | 10 | .018 | .143 | 34 |
| C175-L8 | 1.750 | 1.340 | 25 | .638 | 1.500 | 3.5 | 12 | .018 | .143 | 29 |
| C175-L9 | 1.750 | 1.340 | 25 | .737 | 1.750 | 3.5 | 14 | .018 | .143 | 25 |
| C175-L10 | 1.750 | 1.340 | 25 | .844 | 2.000 | 3.5 | 16 | .018 | .143 | 22 |
| C175-M1 | 1.750 | 1.340 | 50 | .188 | .375 | 4.5 | 3 | .018 | .143 | 267 |
| C175-M2 | 1.750 | 1.340 | 50 | .244 | .500 | 4.5 | 4 | .018 | .143 | 195 |
| C175-M3 | 1.750 | 1.340 | 50 | .315 | .625 | 4.5 | 5 | .018 | .143 | 161 |
| C175-M4 | 1.750 | 1.340 | 50 | .374 | .750 | 4.5 | 6 | .018 | .143 | 133 |
| C175-M5 | 1.750 | 1.340 | 50 | .452 | .870 | 4.5 | 7 | .018 | .143 | 120 |
| C175-M6 | 1.750 | 1.340 | 50 | .505 | 1.000 | 4.5 | 8 | .018 | .143 | 101 |
| C175-M7 | 1.750 | 1.340 | 50 | .629 | 1.250 | 4.5 | 10 | .018 | .143 | 81 |
| C175-M8 | 1.750 | 1.340 | 50 | .768 | 1.500 | 4.5 | 12 | .018 | .143 | 68 |
| C175-M9 | 1.750 | 1.340 | 50 | .899 | 1.750 | 4.5 | 14 | .018 | .143 | 59 |
| C175-M10 | 1.750 | 1.340 | 50 | 1.026 | 2.000 | 4.5 | 16 | .018 | .143 | 51 |
| C175-H1 | 1.750 | 1.340 | 90 | .232 | .375 | 4.5 | 3 | .024 | .148 | 629 |
| C175-H2 | 1.750 | 1.340 | 90 | .314 | .500 | 4.5 | 4 | .024 | .148 | 484 |
| C175-H3 | 1.750 | 1.340 | 90 | .409 | .625 | 4.5 | 5 | .024 | .148 | 417 |
| C175-H4 | 1.750 | 1.340 | 90 | .482 | .750 | 4.5 | 6 | .024 | .148 | 336 |
| C175-H5 | 1.750 | 1.340 | 90 | .577 | .870 | 4.5 | 7 | .024 | .148 | 307 |
| C175-H6 | 1.750 | 1.340 | 90 | .651 | 1.000 | 4.5 | 8 | .024 | .148 | 258 |
| C175-H7 | 1.750 | 1.340 | 90 | .813 | 1.250 | 4.5 | 10 | .024 | .148 | 206 |
| C175-H8 | 1.750 | 1.340 | 90 | .980 | 1.500 | 4.5 | 12 | .024 | .148 | 173 |
| C175-H9 | 1.750 | 1.340 | 90 | 1.147 | 1.750 | 4.5 | 14 | .024 | .148 | 149 |
| C175-H10 | 1.750 | 1.340 | 90 | 1.317 | 2.000 | 4.5 | 16 | .024 | .148 | 132 |
| C200-L1 | 2.000 | 1.600 | 25 | .094 | .375 | 3.5 | 3 | .018 | .143 | 89 |
| C200-L2 | 2.000 | 1.600 | 25 | .120 | .500 | 3.5 | 4 | .018 | .143 | 66 |
| C200-L3 | 2.000 | 1.600 | 25 | .158 | .625 | 3.5 | 5 | .018 | .143 | 54 |
| C200-L4 | 2.000 | 1.600 | 25 | .179 | .750 | 3.5 | 6 | .018 | .143 | 44 |
| C200-L5 | 2.000 | 1.600 | 25 | .217 | .870 | 3.5 | 7 | .018 | .143 | 38 |
| C200-L6 | 2.000 | 1.600 | 25 | .243 | 1.000 | 3.5 | 8 | .018 | .143 | 33 |
| C200-L7 | 2.000 | 1.600 | 25 | .306 | 1.250 | 3.5 | 10 | .018 | .143 | 26 |
| C200-L8 | 2.000 | 1.600 | 25 | .365 | 1.500 | 3.5 | 12 | .018 | .143 | 22 |
| C200-L9 | 2.000 | 1.600 | 25 | .433 | 1.750 | 3.5 | 14 | .018 | .143 | 19 |
| C200-L10 | 2.000 | 1.600 | 25 | .490 | 2.000 | 3.5 | 16 | .018 | .143 | 17 |
| C200-M1 | 2.000 | 1.600 | 50 | .140 | .375 | 4.5 | 3 | .018 | .143 | 213 |
| C200-M2 | 2.000 | 1.600 | 50 | .184 | .500 | 4.5 | 4 | .018 | .143 | 158 |
| C200-M3 | 2.000 | 1.600 | 50 | .245 | .625 | 4.5 | 5 | .018 | .143 | 132 |
| C200-M4 | 2.000 | 1.600 | 50 | .278 | .750 | 4.5 | 6 | .018 | .143 | 106 |
| C200-M5 | 2.000 | 1.600 | 50 | .345 | .870 | 4.5 | 7 | .018 | .143 | 95 |
| C200-M6 | 2.000 | 1.600 | 50 | .395 | 1.000 | 4.5 | 8 | .018 | .143 | 83 |
| C200-M7 | 2.000 | 1.600 | 50 | .498 | 1.250 | 4.5 | 10 | .018 | .143 | 66 |
| C200-M8 | 2.000 | 1.600 | 50 | .593 | 1.500 | 4.5 | 12 | .018 | .143 | 55 |
| C200-M9 | 2.000 | 1.600 | 50 | .694 | 1.750 | 4.5 | 14 | .018 | .143 | 47 |
| C200-M10 | 2.000 | 1.600 | 50 | .800 | 2.000 | 4.5 | 16 | .018 | .143 | 42 |
| C200-H1 | 2.000 | 1.600 | 90 | .197 | .375 | 4.5 | 3 | .024 | .148 | 506 |
| C200-H2 | 2.000 | 1.600 | 90 | .258 | .500 | 4.5 | 4 | .024 | .148 | 372 |
| C200-H3 | 2.000 | 1.600 | 90 | .332 | .625 | 4.5 | 5 | .024 | .148 | 307 |
| C200-H4 | 2.000 | 1.600 | 90 | .389 | .750 | 4.5 | 6 | .024 | .148 | 249 |
| C200-H5 | 2.000 | 1.600 | 90 | .465 | .870 | 4.5 | 7 | .024 | .148 | 222 |
| C200-H6 | 2.000 | 1.600 | 90 | .525 | 1.000 | 4.5 | 8 | .024 | .148 | 189 |
| C200-H7 | 2.000 | 1.600 | 90 | .661 | 1.250 | 4.5 | 10 | .024 | .148 | 153 |
| C200-H8 | 2.000 | 1.600 | 90 | .781 | 1.500 | 4.5 | 12 | .024 | .148 | 125 |
| C200-H9 | 2.000 | 1.600 | 90 | .941 | 1.750 | 4.5 | 14 | .024 | .148 | 111 |
| C200-H10 | 2.000 | 1.600 | 90 | 1.069 | 2.000 | 4.5 | 16 | .024 | .148 | 97 |

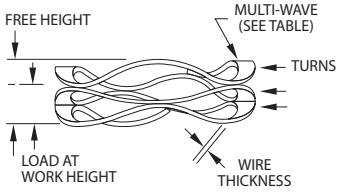
[1] Use "C" prefix for plain ends. Use "CS" prefix for squared-shim ends.
[2] Add suffix "-S17" for 17-7 stainless steel.
[3] Reference dimension.
[4] Theoretical dimension; measured in lb/in.
[5] See pages 126-127 for How to Order.

## Product Dimensions

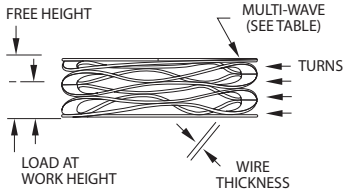
**All dimensions in inches unless otherwise specified.**




### Plain Ends




### Shim Ends




## Order Options

C037-L1 [ ]

**End options:**
Plain ends . . . . . C
Squared-shim ends. . . . . CS

**Material option:**
Carbon Steel . . . . . (blank)
Stainless Steel . . . . . -S17