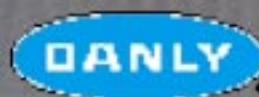


# Identi<sup>®</sup> Spring

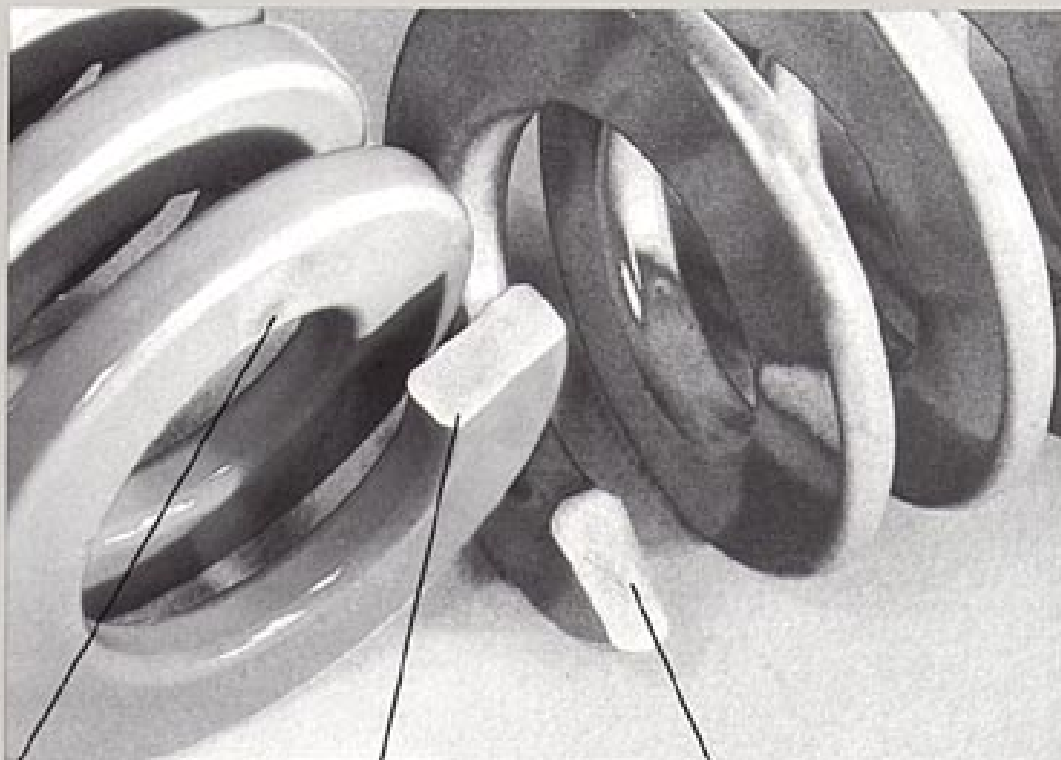
## Cross Reference List



DIE SET

© Danly and Covered United Partnership

## You Can See the **Identi**® Difference.



Vacuum Degassed Valve  
Spring Quality Chromium  
Vanadium Steel.

D-shaped Wire Packs 15%  
More Metal Into Every Inch  
for Longer Life.

Some Other Springs Cut  
Corners On Spring Metal!



Identi®

## Why Risk Downtime and Lost Production? Choose the Best Spring Steel Money Can Buy.

### Valve Spring Quality, Vacuum Degassed Chromium Vanadium

If you're looking for longer life from a spring, start with one that's got the metal to go the distance. We made no compromises in choosing the steel for *Identi*® springs. Each is made of vacuum degassed, valve spring quality chromium vanadium steel in accordance with ASTM specifications.

### In A Unique "D" Shape For Even Longer Life

*Identi*® springs are made of rectangular wire with a modified trapezoidal cross section. This wire shape, which changes to a "D" cross section during coiling, has a significantly lower maximum stress level than springs of flattened round wire made by other spring manufacturers. The lower stress level of the *Identi*® spring cross section contributes to substantially longer spring life.

### Packed With Quality That Adds To Productivity

With *Identi*® springs, uniform hole and rod sizes are guaranteed. Closed and ground square ends provide a maximum bearing surface from either end. Heat treating, tempering and shot peening strengthen the working surfaces. And each *Identi*® spring is factory preset to solid for increased set resistance and extraordinary fatigue resistance.

### Conforms to ISO 10243 And NAAMS Standards

*Identi*® springs are offered in a range of lengths, diameters and load classifications that conform to the ISO 10243 International Standard, including color coding for easy identification of load range.

*Identi*® springs also meet NAAMS (North American Automotive Metric standards) specifications.

*Identi*® spring diameters are listed in this Cross Reference List in both U.S. and European metric conversions. Using these tables, *Identi*® springs are interchangeable with most European springs which already conform to the European metric standard. Use them to reach a larger market and to stay competitive overseas.

### Color Coded for Easy Interchangeability

All standard load classifications are available and each is completely interchangeable with other springs you may be using now. Easily recognized color coding makes it simple to convert and begin enjoying the performance advantages of *Identi*® springs.

### Made In The U.S.A. To ISO 9002 Quality

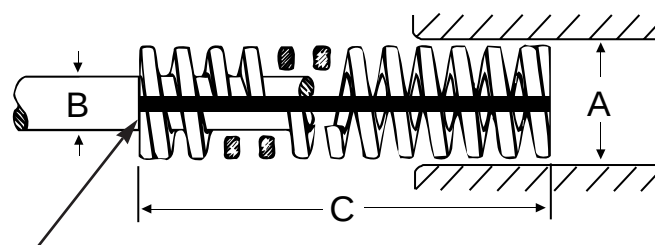
All Danly springs are manufactured to ISO 9002 quality standards.



# Green Series

## Light Load

### ISO Standard



Blue stripe indicates load equivalent to all Blue springs listed below.

| Hole Dia. | Rod Dia. | Free Length |     | Catalog Number |               |              |          |          |          |
|-----------|----------|-------------|-----|----------------|---------------|--------------|----------|----------|----------|
|           |          | Inch        | MM  | Identi*****    | Producto***** | Superior**** | Dieco*** | Lamina** | Lempco*  |
| 3/8       | 3/16     | 1           | 25  | 9-0604-11S     | MP-02         | 341-0604     | M-100    | M-100    | 9-0604-1 |
|           |          | 1 1/4       | 32  | 9-0605-11S     | MP-02A        | 341-0605     | M-100A   | M-100A   | 9-0605-1 |
|           |          | 1 1/2       | 38  | 9-0606-11S     | MP-03         | 341-0606     | M-101    | M-101    | 9-0606-1 |
|           |          | 1 3/4       | 44  | 9-0607-11S     | MP-03A        | 341-0607     | M-101A   | M-101A   | 9-0607-1 |
|           |          | 2           | 51  | 9-0608-11S     | MP-04         | 341-0608     | M-102    | M-102    | 9-0608-1 |
|           |          | 2 1/2       | 64  | 9-0610-11S     | MP-05         | 341-0610     | M-103    | M-103    | 9-0610-1 |
|           |          | 3           | 76  | 9-0612-11S     | MP-06         | 341-0612     | M-104    | M-104    | 9-0612-1 |
|           |          | 12          | 305 | 9-0648-11S     | MP-024        | 341-0648     | M-105    | M-105    | 9-0648-1 |
| 1/2       | 9/32     | 1           | 25  | 9-0804-11S     | MP-12         | 341-0804     | M-110    | M-110    | 9-0804-1 |
|           |          | 1 1/4       | 32  | 9-0805-11S     | MP-12A        | 341-0805     | M-110A   | M-110A   | 9-0805-1 |
|           |          | 1 1/2       | 38  | 9-0806-11S     | MP-13         | 341-0806     | M-111    | M-111    | 9-0806-1 |
|           |          | 1 3/4       | 44  | 9-0807-11S     | MP-13A        | 341-0807     | M-111A   | M-111A   | 9-0807-1 |
|           |          | 2           | 51  | 9-0808-11S     | MP-14         | 341-0808     | M-112    | M-112    | 9-0808-1 |
|           |          | 2 1/2       | 64  | 9-0810-11S     | MP-15         | 341-0810     | M-113    | M-113    | 9-0810-1 |
|           |          | 3           | 76  | 9-0812-11S     | MP-16         | 341-0812     | M-114    | M-114    | 9-0812-1 |
|           |          | 3 1/2       | 89  | 9-0814-11S     | MP-17         | 341-0814     | M-115    | M-115    | 9-0814-1 |
| 12.5 MM   | 6.3 MM   | 12          | 305 | 9-0848-11S     | MP-124        | 341-0848     | M-116    | M-116    | 9-0848-1 |
| 5/8       | 11/32    | 1           | 25  | 9-1004-11S     | MP-22         | 341-1004     | M-120    | M-120    | 9-1004-1 |
|           |          | 1 1/4       | 32  | 9-1005-11S     | MP-22A        | 341-1005     | M-120A   | M-120A   | 9-1005-1 |
|           |          | 1 1/2       | 38  | 9-1006-11S     | MP-23         | 341-1006     | M-121    | M-121    | 9-1006-1 |
|           |          | 1 3/4       | 44  | 9-1007-11S     | MP-23A        | 341-1007     | M-121A   | M-121A   | 9-1007-1 |
|           |          | 2           | 51  | 9-1008-11S     | MP-24         | 341-1008     | M-122    | M-122    | 9-1008-1 |
|           |          | 2 1/2       | 64  | 9-1010-11S     | MP-25         | 341-1010     | M-123    | M-123    | 9-1010-1 |
|           |          | 3           | 76  | 9-1012-11S     | MP-26         | 341-1012     | M-124    | M-124    | 9-1012-1 |
|           |          | 3 1/2       | 89  | 9-1014-11S     | MP-27         | 341-1014     | M-125    | M-125    | 9-1014-1 |
| 16 MM     | 8 MM     | 4           | 102 | 9-1016-11S     | MP-28         | 341-1016     | M-126    | M-126    | 9-1016-1 |
|           |          | 12          | 305 | 9-1048-11S     | MP-224        | 341-1048     | M-127    | M-127    | 9-1048-1 |
| 3/4       | 3/8      | 1           | 25  | 9-1204-11S     | MP-32         | 341-1204     | M-1      | M-1      | 9-1204-1 |
|           |          | 1 1/4       | 32  | 9-1205-11S     | MP-32A        | 341-1205     | M-1A     | M-1A     | 9-1205-1 |
|           |          | 1 1/2       | 38  | 9-1206-11S     | MP-33         | 341-1206     | M-2      | M-2      | 9-1206-1 |
|           |          | 1 3/4       | 44  | 9-1207-11S     | MP-33A        | 341-1207     | M-2A     | M-2A     | 9-1207-1 |
|           |          | 2           | 51  | 9-1208-11S     | MP-34         | 341-1208     | M-3      | M-3      | 9-1208-1 |
|           |          | 2 1/2       | 64  | 9-1210-11S     | MP-35         | 341-1210     | M-4      | M-4      | 9-1210-1 |
|           |          | 3           | 76  | 9-1212-11S     | MP-36         | 341-1212     | M-5      | M-5      | 9-1212-1 |
|           |          | 3 1/2       | 89  | 9-1214-11S     | MP-37         | 341-1214     | M-6      | M-6      | 9-1214-1 |
| 20 MM     | 10 MM    | 4           | 102 | 9-1216-11S     | MP-38         | 341-1216     | M-7      | M-7      | 9-1216-1 |
|           |          | 4 1/2       | 115 | 9-1218-11S     | MP-39         | 341-1218     | M-8      | M-8      | 9-1218-1 |
|           |          | 5           | 127 | 9-1220-11S     | MP-310        | 341-1220     | M-9      | M-9      | 9-1220-1 |
|           |          | 5 1/2       | 140 | 9-1222-11S     | MP-311        | 341-1222     | M-10     | M-10     | 9-1222-1 |
|           |          | 6           | 152 | 9-1224-11S     | MP-312        | 341-1224     | M-11     | M-11     | 9-1224-1 |
|           |          | 12          | 305 | 9-1248-11S     | MP-324        | 341-1248     | M-11A    | M-11A    | 9-1248-1 |



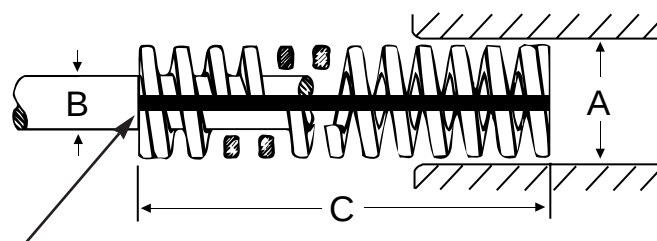
| Hole<br>Dia.          | Rod<br>Dia.           | Free Length |     | Catalog Number |               |              |          |          |          |
|-----------------------|-----------------------|-------------|-----|----------------|---------------|--------------|----------|----------|----------|
|                       |                       | Inch        | MM  | Identi*****    | Producto***** | Superior**** | Dieco*** | Lamina** | Lempco*  |
| 1<br><br>25<br>MM     | 1/2<br><br>12.5<br>MM | 1           | 25  | 9-1604-11S     | MP-42         | 341-1604     | M-12     | M-12     | 9-1604-1 |
|                       |                       | 1 1/4       | 32  | 9-1605-11S     | MP-42A        | 341-1605     | M-12A    | M-12A    | 9-1605-1 |
|                       |                       | 1 1/2       | 38  | 9-1606-11S     | MP-43         | 341-1606     | M-13     | M-13     | 9-1606-1 |
|                       |                       | 1 3/4       | 44  | 9-1607-11S     | MP-43A        | 341-1607     | M-13A    | M-13A    | 9-1607-1 |
|                       |                       | 2           | 51  | 9-1608-11S     | MP-44         | 341-1608     | M-14     | M-14     | 9-1608-1 |
|                       |                       | 2 1/2       | 64  | 9-1610-11S     | MP-45         | 341-1610     | M-15     | M-15     | 9-1610-1 |
|                       |                       | 3           | 76  | 9-1612-11S     | MP-46         | 341-1612     | M-16     | M-16     | 9-1612-1 |
|                       |                       | 3 1/2       | 89  | 9-1614-11S     | MP-47         | 341-1614     | M-17     | M-17     | 9-1614-1 |
|                       |                       | 4           | 102 | 9-1616-11S     | MP-48         | 341-1616     | M-18     | M-18     | 9-1616-1 |
|                       |                       | 4 1/2       | 115 | 9-1618-11S     | MP-49         | 341-1618     | M-19     | M-19     | 9-1618-1 |
|                       |                       | 5           | 127 | 9-1620-11S     | MP-410        | 341-1620     | M-20     | M-20     | 9-1620-1 |
|                       |                       | 5 1/2       | 140 | 9-1622-11S     | MP-411        | 341-1622     | M-21     | M-21     | 9-1622-1 |
|                       |                       | 6           | 152 | 9-1624-11S     | MP-412        | 341-1624     | M-22     | M-22     | 9-1624-1 |
|                       |                       | 7           | 178 | 9-1628-11S     | MP-414        | 341-1628     | M-23     | M-23     | 9-1628-1 |
|                       |                       | 8           | 203 | 9-1632-11S     | MP-416        | 341-1632     | M-24     | M-24     | 9-1632-1 |
|                       |                       | 12          | 305 | 9-1648-11S     | MP-424        | 341-1648     | M-24A    | M-24A    | 9-1648-1 |
| 1 1/4<br><br>32<br>MM | 5/8<br><br>16<br>MM   | 1 1/2       | 38  | 9-2006-11S     | MP-53         | 341-2006     | M-36     | M-36     | 9-2006-1 |
|                       |                       | 1 3/4       | 44  | 9-2007-11S     | MP-53A        | 341-2007     | M-36A    | M-36A    | 9-2007-1 |
|                       |                       | 2           | 51  | 9-2008-11S     | MP-54         | 341-2008     | M-37     | M-37     | 9-2008-1 |
|                       |                       | 2 1/2       | 64  | 9-2010-11S     | MP-55         | 341-2010     | M-38     | M-38     | 9-2010-1 |
|                       |                       | 3           | 76  | 9-2012-11S     | MP-56         | 341-2012     | M-39     | M-39     | 9-2012-1 |
|                       |                       | 3 1/2       | 89  | 9-2014-11S     | MP-57         | 341-2014     | M-40     | M-40     | 9-2014-1 |
|                       |                       | 4           | 102 | 9-2016-11S     | MP-58         | 341-2016     | M-41     | M-41     | 9-2016-1 |
|                       |                       | 4 1/2       | 115 | 9-2018-11S     | MP-59         | 341-2018     | M-42     | M-42     | 9-2018-1 |
|                       |                       | 5           | 127 | 9-2020-11S     | MP-510        | 341-2020     | M-43     | M-43     | 9-2020-1 |
|                       |                       | 5 1/2       | 140 | 9-2022-11S     | MP-511        | 341-2022     | M-44     | M-44     | 9-2022-1 |
|                       |                       | 6           | 152 | 9-2024-11S     | MP-512        | 341-2024     | M-45     | M-45     | 9-2024-1 |
|                       |                       | 7           | 178 | 9-2028-11S     | MP-514        | 341-2028     | M-46     | M-46     | 9-2028-1 |
|                       |                       | 8           | 203 | 9-2032-11S     | MP-516        | 341-2032     | M-47     | M-47     | 9-2032-1 |
|                       |                       | 10          | 254 | 9-2040-11S     | MP-520        | 341-2040     | M-48     | M-48     | 9-2040-1 |
|                       |                       | 12          | 305 | 9-2048-11S     | MP-524        | 341-2048     | M-48A    | M-48A    | 9-2048-1 |
| 1 1/2<br><br>40<br>MM | 3/4<br><br>20<br>MM   | 2           | 51  | 9-2408-11S     | MP-64         | 341-2408     | M-49     | M-49     | 9-2408-1 |
|                       |                       | 2 1/2       | 64  | 9-2410-11S     | MP-65         | 341-2410     | M-50     | M-50     | 9-2410-1 |
|                       |                       | 3           | 76  | 9-2412-11S     | MP-66         | 341-2412     | M-51     | M-51     | 9-2412-1 |
|                       |                       | 3 1/2       | 89  | 9-2414-11S     | MP-67         | 341-2414     | M-52     | M-52     | 9-2414-1 |
|                       |                       | 4           | 102 | 9-2416-11S     | MP-68         | 341-2416     | M-53     | M-53     | 9-2416-1 |
|                       |                       | 4 1/2       | 115 | 9-2418-11S     | MP-69         | 341-2418     | M-54     | M-54     | 9-2418-1 |
|                       |                       | 5           | 127 | 9-2420-11S     | MP-610        | 341-2420     | M-55     | M-55     | 9-2420-1 |
|                       |                       | 5 1/2       | 140 | 9-2422-11S     | MP-611        | 341-2422     | M-55A    | M-55A    | 9-2422-1 |
|                       |                       | 6           | 152 | 9-2424-11S     | MP-612        | 341-2424     | M-56     | M-56     | 9-2424-1 |
|                       |                       | 7           | 178 | 9-2428-11S     | MP-614        | 341-2428     | M-56A    | M-56A    | 9-2428-1 |
|                       |                       | 8           | 203 | 9-2432-11S     | MP-616        | 341-2432     | M-57     | M-57     | 9-2432-1 |
|                       |                       | 10          | 254 | 9-2440-11S     | MP-620        | 341-2440     | M-58     | M-58     | 9-2440-1 |
|                       |                       | 12          | 305 | 9-2448-11S     | MP-624        | 341-2448     | M-58A    | M-58A    | 9-2448-1 |
| 2<br><br>50<br>MM     | 1<br><br>25<br>MM     | 2 1/2       | 64  | 9-3210-11S     | MP-85         | 341-3210     | M-70     | M-70     | 9-3210-1 |
|                       |                       | 3           | 76  | 9-3212-11S     | MP-86         | 341-3212     | M-71     | M-71     | 9-3212-1 |
|                       |                       | 3 1/2       | 89  | 9-3214-11S     | MP-87         | 341-3214     | M-72     | M-72     | 9-3214-1 |
|                       |                       | 4           | 102 | 9-3216-11S     | MP-88         | 341-3216     | M-73     | M-73     | 9-3216-1 |
|                       |                       | 4 1/2       | 115 | 9-3218-11S     | MP-89         | 341-3218     | M-74     | M-74     | 9-3218-1 |
|                       |                       | 5           | 127 | 9-3220-11S     | MP-810        | 341-3220     | M-75     | M-75     | 9-3220-1 |
|                       |                       | 5 1/2       | 140 | 9-3222-11S     | MP-811        | 341-3222     | M-76     | M-76     | 9-3222-1 |
|                       |                       | 6           | 152 | 9-3224-11S     | MP-812        | 341-3224     | M-77     | M-77     | 9-3224-1 |
|                       |                       | 7           | 178 | 9-3228-11S     | MP-814        | 341-3228     | M-79     | M-79     | 9-3228-1 |
|                       |                       | 8           | 203 | 9-3232-11S     | MP-816        | 341-3232     | M-80     | M-80     | 9-3232-1 |
|                       |                       | 10          | 254 | 9-3240-11S     | MP-820        | 341-3240     | M-82     | M-82     | 9-3240-1 |
|                       |                       | 12          | 305 | 9-3248-11S     | MP-824        | 341-3248     | M-83     | M-83     | 9-3248-1 |



# Blue Series

## Medium Load

### ISO Standard



Red stripe indicates load equivalent to all Red springs listed below.

| Hole<br>Dia.          | Rod<br>Dia.           | Free Length |     | Catalog Number |              |              |          |          |          |
|-----------------------|-----------------------|-------------|-----|----------------|--------------|--------------|----------|----------|----------|
|                       |                       | Inch        | MM  | Identi*****    | Product***** | Superior**** | Dieco*** | Lamina** | Lempco*  |
| 3/8<br><br>10<br>MM   | 3/16<br><br>5<br>MM   | 1           | 25  | 9-0604-21S     | MHP-02       | 342-0604     | MHC-100  | MHC-100  | 9-0604-2 |
|                       |                       | 1 1/4       | 32  | 9-0605-21S     | MHP-02A      | 342-0605     | MHC-100A | MHC-100A | 9-0605-2 |
|                       |                       | 1 1/2       | 38  | 9-0606-21S     | MHP-03       | 342-0606     | MHC-101  | MHC-101  | 9-0606-2 |
|                       |                       | 1 3/4       | 44  | 9-0607-21S     | MHP-03A      | 342-0607     | MHC-101A | MHC-101A | 9-0607-2 |
|                       |                       | 2           | 51  | 9-0608-21S     | MHP-04       | 342-0608     | MHC-102  | MHC-102  | 9-0608-2 |
|                       |                       | 2 1/2       | 64  | 9-0610-21S     | MHP-05       | 342-0610     | MHC-103  | MHC-103  | 9-0610-2 |
|                       |                       | 3           | 76  | 9-0612-21S     | MHP-06       | 342-0612     | MHC-104  | MHC-104  | 9-0612-2 |
|                       |                       | 12          | 305 | 9-0648-21S     | MHP-024      | 342-0648     | MHC-106  | MHC-106  | 9-0648-2 |
| 1/2<br><br>12.5<br>MM | 9/32<br><br>6.3<br>MM | 1           | 25  | 9-0804-21S     | MHP-12       | 342-0804     | MHC-110  | MHC-110  | 9-0804-2 |
|                       |                       | 1 1/4       | 32  | 9-0805-21S     | MHP-12A      | 342-0805     | MHC-110A | MHC-110A | 9-0805-2 |
|                       |                       | 1 1/2       | 38  | 9-0806-21S     | MHP-13       | 342-0806     | MHC-111  | MHC-111  | 9-0806-2 |
|                       |                       | 1 3/4       | 44  | 9-0807-21S     | MHP-13A      | 342-0807     | MHC-111A | MHC-111A | 9-0807-2 |
|                       |                       | 2           | 51  | 9-0808-21S     | MHP-14       | 342-0808     | MHC-112  | MHC-112  | 9-0808-2 |
|                       |                       | 2 1/2       | 64  | 9-0810-21S     | MHP-15       | 342-0810     | MHC-113  | MHC-113  | 9-0810-2 |
|                       |                       | 3           | 76  | 9-0812-21S     | MHP-16       | 342-0812     | MHC-114  | MHC-114  | 9-0812-2 |
|                       |                       | 3 1/2       | 89  | 9-0814-21S     | MHP-17       | 342-0814     | MHC-115  | MHC-115  | 9-0814-2 |
| 5/8<br><br>16<br>MM   | 11/32<br><br>8<br>MM  | 12          | 305 | 9-0848-21S     | MHP-124      | 342-0848     | MHC-117  | MHC-117  | 9-0848-2 |
|                       |                       | 1           | 25  | 9-1004-21S     | MHP-22       | 342-1004     | MHC-120  | MHC-120  | 9-1004-2 |
|                       |                       | 1 1/4       | 32  | 9-1005-21S     | MHP-22A      | 342-1005     | MHC-120A | MHC-120A | 9-1005-2 |
|                       |                       | 1 1/2       | 38  | 9-1006-21S     | MHP-23       | 342-1006     | MHC-121  | MHC-121  | 9-1006-2 |
|                       |                       | 1 3/4       | 44  | 9-1007-21S     | MHP-23A      | 342-1007     | MHC-121A | MHC-121A | 9-1007-2 |
|                       |                       | 2           | 51  | 9-1008-21S     | MHP-24       | 342-1008     | MHC-122  | MHC-122  | 9-1008-2 |
|                       |                       | 2 1/2       | 64  | 9-1010-21S     | MHP-25       | 342-1010     | MHC-123  | MHC-123  | 9-1010-2 |
|                       |                       | 3           | 76  | 9-1012-21S     | MHP-26       | 342-1012     | MHC-124  | MHC-124  | 9-1012-2 |
| 3/4<br><br>20<br>MM   | 3/8<br><br>10<br>MM   | 3 1/2       | 89  | 9-1014-21S     | MHP-27       | 342-1014     | MHC-125  | MHC-125  | 9-1014-2 |
|                       |                       | 4           | 102 | 9-1016-21S     | MHP-28       | 342-1016     | MHC-126  | MHC-126  | 9-1016-2 |
|                       |                       | 12          | 305 | 9-1048-21S     | MHP-224      | 342-1048     | MHC-127  | MHC-127  | 9-1048-2 |
|                       |                       | 1           | 25  | 9-1204-21S     | MHP-32       | 342-1204     | MHC-1    | MHC-1    | 9-1204-2 |
|                       |                       | 1 1/4       | 32  | 9-1205-21S     | MHP-32A      | 342-1205     | MHC-1A   | MHC-1A   | 9-1205-2 |
|                       |                       | 1 1/2       | 38  | 9-1206-21S     | MHP-33       | 342-1206     | MHC-2    | MHC-2    | 9-1206-2 |
|                       |                       | 1 3/4       | 44  | 9-1207-21S     | MHP-33A      | 342-1207     | MHC-2A   | MHC-2A   | 9-1207-2 |
|                       |                       | 2           | 51  | 9-1208-21S     | MHP-34       | 342-1208     | MHC-3    | MHC-3    | 9-1208-2 |
| 3/4<br><br>20<br>MM   | 3/8<br><br>10<br>MM   | 2 1/2       | 64  | 9-1210-21S     | MHP-35       | 342-1210     | MHC-4    | MHC-4    | 9-1210-2 |
|                       |                       | 3           | 76  | 9-1212-21S     | MHP-36       | 342-1212     | MHC-5    | MHC-5    | 9-1212-2 |
|                       |                       | 3 1/2       | 89  | 9-1214-21S     | MHP-37       | 342-1214     | MHC-6    | MHC-6    | 9-1214-2 |
|                       |                       | 4           | 102 | 9-1216-21S     | MHP-38       | 342-1216     | MHC-7    | MHC-7    | 9-1216-2 |
|                       |                       | 4 1/2       | 115 | 9-1218-21S     | MHP-39       | 342-1218     | MHC-8    | MHC-8    | 9-1218-2 |
|                       |                       | 5           | 127 | 9-1220-21S     | MHP-310      | 342-1220     | MHC-9    | MHC-9    | 9-1220-2 |
|                       |                       | 5 1/2       | 140 | 9-1222-21S     | MHP-311      | 342-1222     | MHC-10   | MHC-10   | 9-1222-2 |
|                       |                       | 6           | 152 | 9-1224-21S     | MHP-312      | 342-1224     | MHC-11   | MHC-11   | 9-1224-2 |
| 3/4<br><br>20<br>MM   | 3/8<br><br>10<br>MM   | 12          | 305 | 9-1248-21S     | MHP-324      | 342-1248     | MHC-11A  | MHC-11A  | 9-1248-2 |



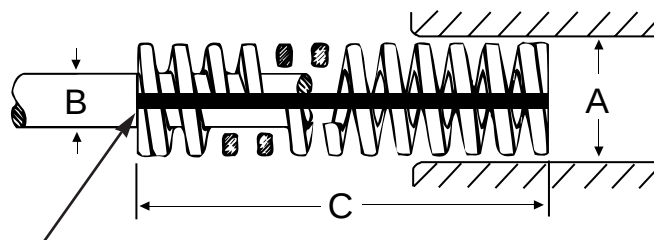
| Hole<br>Dia.          | Rod<br>Dia.           | Free Length |     | Catalog Number |              |              |          |          |          |
|-----------------------|-----------------------|-------------|-----|----------------|--------------|--------------|----------|----------|----------|
|                       |                       | Inch        | MM  | Ident*****     | Product***** | Superior**** | Dieco*** | Lamina** | Lempco*  |
| 1<br><br>25.4<br>MM   | 1/2<br><br>12.5<br>MM | 1           | 25  | 9-1604-21S     | MHP-42       | 342-1604     | MHC-12   | MHC-12   | 9-1604-2 |
|                       |                       | 1 1/4       | 32  | 9-1605-21S     | MHP-42A      | 342-1605     | MHC-12A  | MHC-12A  | 9-1605-2 |
|                       |                       | 1 1/2       | 38  | 9-1606-21S     | MHP-43       | 342-1606     | MHC-13   | MHC-13   | 9-1606-2 |
|                       |                       | 1 3/4       | 44  | 9-1607-21S     | MHP-43A      | 342-1607     | MHC-13A  | MHC-13A  | 9-1607-2 |
|                       |                       | 2           | 51  | 9-1608-21S     | MHP-44       | 342-1608     | MHC-14   | MHC-14   | 9-1608-2 |
|                       |                       | 2 1/2       | 64  | 9-1610-21S     | MHP-45       | 342-1610     | MHC-15   | MHC-15   | 9-1610-2 |
|                       |                       | 3           | 76  | 9-1612-21S     | MHP-46       | 342-1612     | MHC-16   | MHC-16   | 9-1612-2 |
|                       |                       | 3 1/2       | 89  | 9-1614-21S     | MHP-47       | 342-1614     | MHC-17   | MHC-17   | 9-1614-2 |
|                       |                       | 4           | 102 | 9-1616-21S     | MHP-48       | 342-1616     | MHC-18   | MHC-18   | 9-1616-2 |
|                       |                       | 4 1/2       | 115 | 9-1618-21S     | MHP-49       | 342-1618     | MHC-19   | MHC-19   | 9-1618-2 |
|                       |                       | 5           | 127 | 9-1620-21S     | MHP-410      | 342-1620     | MHC-20   | MHC-20   | 9-1620-2 |
|                       |                       | 5 1/2       | 140 | 9-1622-21S     | MHP-411      | 342-1622     | MHC-21   | MHC-21   | 9-1622-2 |
|                       |                       | 6           | 152 | 9-1624-21S     | MHP-412      | 342-1624     | MHC-22   | MHC-22   | 9-1624-2 |
|                       |                       | 7           | 178 | 9-1628-21S     | MHP-414      | 342-1628     | MHC-23   | MHC-23   | 9-1628-2 |
|                       |                       | 8           | 203 | 9-1632-21S     | MHP-416      | 342-1632     | MHC-24   | MHC-24   | 9-1632-2 |
|                       |                       | 12          | 305 | 9-1648-21S     | MHP-424      | 342-1648     | MHC-24A  | MHC-24A  | 9-1648-2 |
| 1 1/4<br><br>32<br>MM | 5/8<br><br>16<br>MM   | 1 1/2       | 38  | 9-2006-21S     | MHP-53       | 342-2006     | MHC-36   | MHC-36   | 9-2006-2 |
|                       |                       | 1 3/4       | 44  | 9-2007-21S     | MHP-53A      | 342-2007     | MHC-36A  | MHC-36A  | 9-2007-2 |
|                       |                       | 2           | 51  | 9-2008-21S     | MHP-54       | 342-2008     | MHC-37   | MHC-37   | 9-2008-2 |
|                       |                       | 2 1/2       | 64  | 9-2010-21S     | MHP-55       | 342-2010     | MHC-38   | MHC-38   | 9-2010-2 |
|                       |                       | 3           | 76  | 9-2012-21S     | MHP-56       | 342-2012     | MHC-39   | MHC-39   | 9-2012-2 |
|                       |                       | 3 1/2       | 89  | 9-2014-21S     | MHP-57       | 342-2014     | MHC-40   | MHC-40   | 9-2014-2 |
|                       |                       | 4           | 102 | 9-2016-21S     | MHP-58       | 342-2016     | MHC-41   | MHC-41   | 9-2016-2 |
|                       |                       | 4 1/2       | 115 | 9-2018-21S     | MHP-59       | 342-2018     | MHC-42   | MHC-42   | 9-2018-2 |
|                       |                       | 5           | 127 | 9-2020-21S     | MHP-510      | 342-2020     | MHC-43   | MHC-43   | 9-2020-2 |
|                       |                       | 5 1/2       | 140 | 9-2022-21S     | MHP-511      | 342-2022     | MHC-44   | MHC-44   | 9-2022-2 |
|                       |                       | 6           | 152 | 9-2024-21S     | MHP-512      | 342-2024     | MHC-45   | MHC-45   | 9-2024-2 |
|                       |                       | 7           | 178 | 9-2028-21S     | MHP-514      | 342-2028     | MHC-46   | MHC-46   | 9-2028-2 |
|                       |                       | 8           | 203 | 9-2032-21S     | MHP-516      | 342-2032     | MHC-47   | MHC-47   | 9-2032-2 |
|                       |                       | 10          | 254 | 9-2040-21S     | MHP-520      | 342-2040     | MHC-48   | MHC-48   | 9-2040-2 |
|                       |                       | 12          | 305 | 9-2048-21S     | MHP-524      | 342-2048     | MHC-48A  | MHC-48A  | 9-2048-2 |
| 1 1/2<br><br>40<br>MM | 3/4<br><br>20<br>MM   | 2           | 51  | 9-2408-21S     | MHP-64       | 342-2408     | MHC-49   | MHC-49   | 9-2408-2 |
|                       |                       | 2 1/2       | 64  | 9-2410-21S     | MHP-65       | 342-2410     | MHC-50   | MHC-50   | 9-2410-2 |
|                       |                       | 3           | 76  | 9-2412-21S     | MHP-66       | 342-2412     | MHC-51   | MHC-51   | 9-2412-2 |
|                       |                       | 3 1/2       | 89  | 9-2414-21S     | MHP-67       | 342-2414     | MHC-52   | MHC-52   | 9-2414-2 |
|                       |                       | 4           | 102 | 9-2416-21S     | MHP-68       | 342-2416     | MHC-53   | MHC-53   | 9-2416-2 |
|                       |                       | 4 1/2       | 115 | 9-2418-21S     | MHP-69       | 342-2418     | MHC-54   | MHC-54   | 9-2418-2 |
|                       |                       | 5           | 127 | 9-2420-21S     | MHP-610      | 342-2420     | MHC-55   | MHC-55   | 9-2420-2 |
|                       |                       | 5 1/2       | 140 | 9-2422-21S     | MHP-611      | 342-2422     | MHC-55A  | MHC-55A  | 9-2422-2 |
|                       |                       | 6           | 152 | 9-2424-21S     | MHP-612      | 342-2424     | MHC-56   | MHC-56   | 9-2424-2 |
|                       |                       | 7           | 178 | 9-2428-21S     | MHP-614      | 342-2428     | MHC-56A  | MHC-56A  | 9-2428-2 |
|                       |                       | 8           | 203 | 9-2432-21S     | MHP-616      | 342-2432     | MHC-57   | MHC-57   | 9-2432-2 |
|                       |                       | 10          | 254 | 9-2440-21S     | MHP-620      | 342-2440     | MHC-58   | MHC-58   | 9-2440-2 |
|                       |                       | 12          | 305 | 9-2448-21S     | MHP-624      | 342-2448     | MHC-58A  | MHC-58A  | 9-2448-2 |
| 2<br><br>50<br>MM     | 1<br><br>25<br>MM     | 2 1/2       | 64  | 9-3210-21S     | MHP-85       | 342-3210     | MHC-70   | MHC-70   | 9-3210-2 |
|                       |                       | 3           | 76  | 9-3212-21S     | MHP-86       | 342-3212     | MHC-71   | MHC-71   | 9-3212-2 |
|                       |                       | 3 1/2       | 89  | 9-3214-21S     | MHP-87       | 342-3214     | MHC-72   | MHC-72   | 9-3214-2 |
|                       |                       | 4           | 102 | 9-3216-21S     | MHP-88       | 342-3216     | MHC-73   | MHC-73   | 9-3216-2 |
|                       |                       | 4 1/2       | 115 | 9-3218-21S     | MHP-89       | 342-3218     | MHC-74   | MHC-74   | 9-3218-2 |
|                       |                       | 5           | 127 | 9-3220-21S     | MHP-810      | 342-3220     | MHC-75   | MHC-75   | 9-3220-2 |
|                       |                       | 5 1/2       | 140 | 9-3222-21S     | MHP-811      | 342-3222     | MHC-76   | MHC-76   | 9-3222-2 |
|                       |                       | 6           | 152 | 9-3224-21S     | MHP-812      | 342-3224     | MHC-77   | MHC-77   | 9-3224-2 |
|                       |                       | 7           | 178 | 9-3228-21S     | MHP-814      | 342-3228     | MHC-79   | MHC-79   | 9-3228-2 |
|                       |                       | 8           | 203 | 9-3232-21S     | MHP-816      | 342-3232     | MHC-80   | MHC-80   | 9-3232-2 |
|                       |                       | 10          | 254 | 9-3240-21S     | MHP-820      | 342-3240     | MHC-82   | MHC-82   | 9-3240-2 |
|                       |                       | 12          | 305 | 9-3248-21S     | MHP-824      | 342-3248     | MHC-83   | MHC-83   | 9-3248-2 |



# Red Series

## Heavy Load

### ISO Standard



Gold stripe indicates load equivalent to all Gold springs listed below.

| Hole Dia. | Rod Dia. | Free Length |     | Catalog Number |               |              |          |          |          |
|-----------|----------|-------------|-----|----------------|---------------|--------------|----------|----------|----------|
|           |          | Inch        | MM  | Identi*****    | Producto***** | Superior**** | Dieco*** | Lamina** | Lempco*  |
| 3/8       | 3/16     | 1           | 25  | 9-0604-26S     | HP-02         | 343-0604     | H-100    | H-100    | 9-0604-3 |
|           |          | 1 1/4       | 32  | 9-0605-26S     | HP-02A        | 343-0605     | H-100A   | H-100A   | 9-0605-3 |
|           |          | 1 1/2       | 38  | 9-0606-26S     | HP-03         | 343-0606     | H-101    | H-101    | 9-0606-3 |
|           |          | 1 3/4       | 44  | 9-0607-26S     | HP-03A        | 343-0607     | H-101A   | H-101A   | 9-0607-3 |
|           |          | 2           | 51  | 9-0608-26S     | HP-04         | 343-0608     | H-102    | H-102    | 9-0608-3 |
|           |          | 2 1/2       | 64  | 9-0610-26S     | HP-05         | 343-0610     | H-103    | H-103    | 9-0610-3 |
|           |          | 3           | 76  | 9-0612-26S     | HP-06         | 343-0612     | H-104    | H-104    | 9-0612-3 |
|           |          | 12          | 305 | 9-0648-26S     | HP-024        | 343-0648     | H-105    | H-105    | 9-0648-3 |
| 1/2       | 9/32     | 1           | 25  | 9-0804-26S     | HP-12         | 343-0804     | H-110    | H-110    | 9-0804-3 |
|           |          | 1 1/4       | 32  | 9-0805-26S     | HP-12A        | 343-0805     | H-110A   | H-110A   | 9-0805-3 |
|           |          | 1 1/2       | 38  | 9-0806-26S     | HP-13         | 343-0806     | H-111    | H-111    | 9-0806-3 |
|           |          | 1 3/4       | 44  | 9-0807-26S     | HP-13A        | 343-0807     | H-111A   | H-111A   | 9-0807-3 |
|           |          | 2           | 51  | 9-0808-26S     | HP-14         | 343-0808     | H-112    | H-112    | 9-0808-3 |
|           |          | 2 1/2       | 64  | 9-0810-26S     | HP-15         | 343-0810     | H-113    | H-113    | 9-0810-3 |
|           |          | 3           | 76  | 9-0812-26S     | HP-16         | 343-0812     | H-114    | H-114    | 9-0812-3 |
|           |          | 3 1/2       | 89  | 9-0814-26S     | HP-17         | 343-0814     | H-115    | H-115    | 9-0814-3 |
| 12.5 MM   | 6.3 MM   | 12          | 305 | 9-0848-26S     | HP-124        | 343-0848     | H-117    | H-117    | 9-0848-3 |
| 5/8       | 11/32    | 1           | 25  | 9-1004-26S     | HP-22         | 343-1004     | H-120    | H-120    | 9-1004-3 |
|           |          | 1 1/4       | 32  | 9-1005-26S     | HP-22A        | 343-1005     | H-120A   | H-120A   | 9-1005-3 |
|           |          | 1 1/2       | 38  | 9-1006-26S     | HP-23         | 343-1006     | H-121    | H-121    | 9-1006-3 |
|           |          | 1 3/4       | 44  | 9-1007-26S     | HP-23A        | 343-1007     | H-121A   | H-121A   | 9-1007-3 |
|           |          | 2           | 51  | 9-1008-26S     | HP-24         | 343-1008     | H-122    | H-122    | 9-1008-3 |
|           |          | 2 1/2       | 64  | 9-1010-26S     | HP-25         | 343-1010     | H-123    | H-123    | 9-1010-3 |
|           |          | 3           | 76  | 9-1012-26S     | HP-26         | 343-1012     | H-124    | H-124    | 9-1012-3 |
|           |          | 3 1/2       | 89  | 9-1014-26S     | HP-27         | 343-1014     | H-125    | H-125    | 9-1014-3 |
| 16 MM     | 8 MM     | 4           | 102 | 9-1016-26S     | HP-28         | 343-1016     | H-126    | H-126    | 9-1016-3 |
|           |          | 12          | 305 | 9-1048-26S     | HP-224        | 343-1048     | H-127    | H-127    | 9-1048-3 |
| 3/4       | 3/8      | 1           | 25  | 9-1204-26S     | HP-32         | 343-1204     | H-1      | H-1      | 9-1204-3 |
|           |          | 1 1/4       | 32  | 9-1205-26S     | HP-32A        | 343-1205     | H-1A     | H-1A     | 9-1205-3 |
|           |          | 1 1/2       | 38  | 9-1206-26S     | HP-33         | 343-1206     | H-2      | H-2      | 9-1206-3 |
|           |          | 1 3/4       | 44  | 9-1207-26S     | HP-33A        | 343-1207     | H-2A     | H-2A     | 9-1207-3 |
|           |          | 2           | 51  | 9-1208-26S     | HP-34         | 343-1208     | H-3      | H-3      | 9-1208-3 |
|           |          | 2 1/2       | 64  | 9-1210-26S     | HP-35         | 343-1010     | H-4      | H-4      | 9-1210-3 |
|           |          | 3           | 76  | 9-1212-26S     | HP-36         | 343-1012     | H-5      | H-5      | 9-1212-3 |
|           |          | 3 1/2       | 89  | 9-1214-26S     | HP-37         | 343-1014     | H-6      | H-6      | 9-1214-3 |
| 20 MM     | 10 MM    | 4           | 102 | 9-1216-26S     | HP-38         | 343-1016     | H-7      | H-7      | 9-1216-3 |
|           |          | 4 1/2       | 115 | 9-1218-26S     | HP-39         | 343-1018     | H-8      | H-8      | 9-1218-3 |
|           |          | 5           | 127 | 9-1220-26S     | HP-310        | 343-1020     | H-9      | H-9      | 9-1220-3 |
|           |          | 5 1/2       | 140 | 9-1222-26S     | HP-311        | 343-1022     | H-10     | H-10     | 9-1222-3 |
|           |          | 6           | 152 | 9-1224-26S     | HP-312        | 343-1024     | H-11     | H-11     | 9-1224-3 |
|           |          | 12          | 305 | 9-1248-26S     | HP-324        | 343-1248     | H-11A    | H-11A    | 9-1248-3 |



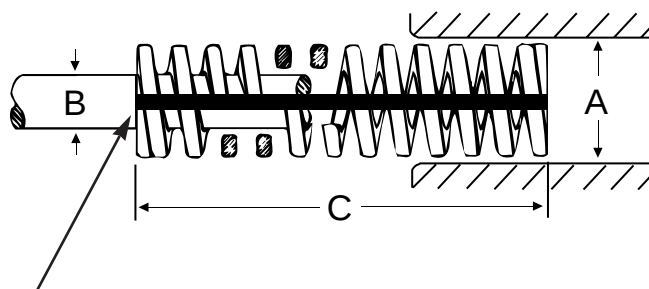
| Hole<br>Dia. | Rod<br>Dia. | Free Length |     | Catalog Number |              |              |          |          |          |
|--------------|-------------|-------------|-----|----------------|--------------|--------------|----------|----------|----------|
|              |             | Inch        | MM  | Identi*****    | Product***** | Superior**** | Dieco*** | Lamina** | Lempco*  |
| 1            | 1/2         | 1 1/4       | 32  | 9-1605-26S     | HP-42A       | 343-1605     | H-12A    | H-12A    | 9-1605-3 |
|              |             | 1 1/2       | 38  | 9-1606-26S     | HP-43        | 343-1606     | H-13     | H-13     | 9-1606-3 |
|              |             | 1 3/4       | 44  | 9-1607-26S     | HP-43A       | 343-1607     | H-13A    | H-13A    | 9-1607-3 |
|              |             | 2           | 51  | 9-1608-26S     | HP-44        | 343-1608     | H-14     | H-14     | 9-1608-3 |
|              |             | 2 1/2       | 64  | 9-1610-26S     | HP-45        | 343-1610     | H-15     | H-15     | 9-1610-3 |
|              |             | 3           | 76  | 9-1612-26S     | HP-46        | 343-1612     | H-16     | H-16     | 9-1612-3 |
|              |             | 3 1/2       | 89  | 9-1614-26S     | HP-47        | 343-1614     | H-17     | H-17     | 9-1614-3 |
|              |             | 4           | 102 | 9-1616-26S     | HP-48        | 343-1616     | H-18     | H-18     | 9-1616-3 |
|              |             | 4 1/2       | 115 | 9-1618-26S     | HP-49        | 343-1618     | H-19     | H-19     | 9-1618-3 |
|              |             | 5           | 127 | 9-1620-26S     | HP-410       | 343-1620     | H-20     | H-20     | 9-1620-3 |
|              |             | 5 1/2       | 140 | 9-1622-26S     | HP-411       | 343-1622     | H-20A    | H-20A    | 9-1622-3 |
|              |             | 6           | 152 | 9-1624-26S     | HP-412       | 343-1624     | H-21     | H-21     | 9-1624-3 |
|              |             | 7           | 178 | 9-1628-26S     | HP-414       | 343-1628     | H-21A    | H-21A    | 9-1628-3 |
|              |             | 8           | 203 | 9-1632-26S     | HP-416       | 343-1632     | H-22     | H-22     | 9-1632-3 |
|              |             | 12          | 305 | 9-1648-26S     | HP-424       | 343-1648     | H-22A    | H-22A    | 9-1648-3 |
| 1 1/4        | 5/8         | 1 1/2       | 38  | 9-2006-26S     | HP-53        | 343-2006     | H-36     | H-36     | 9-2006-3 |
|              |             | 1 3/4       | 44  | 9-2007-26S     | HP-53A       | 343-2007     | H-36A    | H-36A    | 9-2007-3 |
|              |             | 2           | 51  | 9-2008-26S     | HP-54        | 343-2008     | H-37     | H-37     | 9-2008-3 |
|              |             | 2 1/2       | 64  | 9-2010-26S     | HP-55        | 343-2010     | H-38     | H-38     | 9-2010-3 |
|              |             | 3           | 76  | 9-2012-26S     | HP-56        | 343-2012     | H-39     | H-39     | 9-2012-3 |
|              |             | 3 1/2       | 89  | 9-2014-26S     | HP-57        | 343-2014     | H-40     | H-40     | 9-2014-3 |
|              |             | 4           | 102 | 9-2016-26S     | HP-58        | 343-2016     | H-41     | H-41     | 9-2016-3 |
|              |             | 4 1/2       | 115 | 9-2018-26S     | HP-59        | 343-2018     | H-42     | H-42     | 9-2018-3 |
|              |             | 5           | 127 | 9-2020-26S     | HP-510       | 343-2020     | H-43     | H-43     | 9-2020-3 |
|              |             | 5 1/2       | 140 | 9-2022-26S     | HP-511       | 343-2022     | H-44     | H-44     | 9-2022-3 |
|              |             | 6           | 152 | 9-2024-26S     | HP-512       | 343-2024     | H-45     | H-45     | 9-2024-3 |
|              |             | 7           | 178 | 9-2028-26S     | HP-514       | 343-2028     | H-46     | H-46     | 9-2028-3 |
|              |             | 8           | 203 | 9-2032-26S     | HP-516       | 343-2032     | H-47     | H-47     | 9-2032-3 |
|              |             | 10          | 254 | 9-2040-26S     | HP-520       | 343-2040     | H-48     | H-48     | 9-2040-3 |
|              |             | 12          | 305 | 9-2048-26S     | HP-524       | 343-2048     | H-48A    | H-48A    | 9-2048-3 |
| 1 1/2        | 3/4         | 2           | 51  | 9-2408-26S     | HP-64        | 343-2408     | H-49     | H-49     | 9-2408-3 |
|              |             | 2 1/2       | 64  | 9-2410-26S     | HP-65        | 343-2410     | H-50     | H-50     | 9-2410-3 |
|              |             | 3           | 76  | 9-2412-26S     | HP-66        | 343-2412     | H-51     | H-51     | 9-2412-3 |
|              |             | 3 1/2       | 89  | 9-2414-26S     | HP-67        | 343-2414     | H-52     | H-52     | 9-2414-3 |
|              |             | 4           | 102 | 9-2416-26S     | HP-68        | 343-2416     | H-53     | H-53     | 9-2416-3 |
|              |             | 4 1/2       | 115 | 9-2418-26S     | HP-69        | 343-2418     | H-54     | H-54     | 9-2418-3 |
|              |             | 5           | 127 | 9-2420-26S     | HP-610       | 343-2420     | H-55     | H-55     | 9-2420-3 |
|              |             | 5 1/2       | 140 | 9-2422-26S     | HP-611       | 343-2422     | H-55A    | H-55A    | 9-2422-3 |
|              |             | 6           | 152 | 9-2424-26S     | HP-612       | 343-2424     | H-56     | H-56     | 9-2424-3 |
|              |             | 7           | 178 | 9-2428-26S     | HP-614       | 343-2428     | H-56A    | H-56A    | 9-2428-3 |
|              |             | 8           | 203 | 9-2432-26S     | HP-616       | 343-2432     | H-57     | H-57     | 9-2432-3 |
|              |             | 10          | 254 | 9-2440-26S     | HP-620       | 343-2440     | H-58     | H-58     | 9-2440-3 |
|              |             | 12          | 305 | 9-2448-26S     | HP-624       | 343-2448     | H-58A    | H-58A    | 9-2448-3 |
| 2            | 1           | 2 1/2       | 64  | 9-3210-26S     | HP-85        | 343-3210     | H-70     | H-70     | 9-3210-3 |
|              |             | 3           | 76  | 9-3212-26S     | HP-86        | 343-3212     | H-71     | H-71     | 9-3212-3 |
|              |             | 3 1/2       | 89  | 9-3214-26S     | HP-87        | 343-3214     | H-72     | H-72     | 9-3214-3 |
|              |             | 4           | 102 | 9-3216-26S     | HP-88        | 343-3216     | H-73     | H-73     | 9-3216-3 |
|              |             | 4 1/2       | 115 | 9-3218-26S     | HP-89        | 343-3218     | H-74     | H-74     | 9-3218-3 |
|              |             | 5           | 127 | 9-3220-26S     | HP-810       | 343-3220     | H-75     | H-75     | 9-3220-3 |
|              |             | 5 1/2       | 140 | 9-3222-26S     | HP-811       | 343-3222     | H-76     | H-76     | 9-3222-3 |
|              |             | 6           | 152 | 9-3224-26S     | HP-812       | 343-3224     | H-77     | H-77     | 9-3224-3 |
|              |             | 7           | 178 | 9-3228-26S     | HP-814       | 343-3228     | H-79     | H-79     | 9-3228-3 |
|              |             | 8           | 203 | 9-3232-26S     | HP-816       | 343-3232     | H-80     | H-80     | 9-3232-3 |
|              |             | 10          | 254 | 9-3240-26S     | HP-820       | 343-3240     | H-82     | H-82     | 9-3240-3 |
|              |             | 12          | 305 | 9-3248-26S     | HP-824       | 343-3248     | H-83     | H-83     | 9-3248-3 |



# Yellow Series

## Extra Heavy Load

### ISO Standard



Green stripe indicates load equivalent to all Green springs listed below.

| Hole Dia.         | Rod Dia.          | Free Length |     | Catalog Number |              |              |          |          |          |
|-------------------|-------------------|-------------|-----|----------------|--------------|--------------|----------|----------|----------|
|                   |                   | Inch        | MM  | Identj*****    | Producto**** | Superior**** | Dieco*** | Lamina** | Lempco*  |
| 3/8<br>10<br>MM   | 3/16<br>5<br>MM   | 1           | 25  | 9-0604-36S     | XHP-02       | 344-0604     | HX-100   | XH-100   | 9-0604-4 |
|                   |                   | 1 1/4       | 32  | 9-0605-36S     | XHP-02A      | 344-0605     | HX-100A  | XH-100A  | 9-0605-4 |
|                   |                   | 1 1/2       | 38  | 9-0606-36S     | XHP-03       | 344-0606     | HX-101   | XH-101   | 9-0606-4 |
|                   |                   | 1 3/4       | 44  | 9-0607-36S     | XHP-03A      | 344-0607     | HX-101A  | XH-101A  | 9-0607-4 |
|                   |                   | 2           | 51  | 9-0608-36S     | XHP-04       | 344-0608     | HX-102   | XH-102   | 9-0608-4 |
|                   |                   | 2 1/2       | 64  | 9-0610-36S     | XHP-05       | 344-0610     | HX-103   | XH-103   | 9-0610-4 |
|                   |                   | 3           | 76  | 9-0612-36S     | XHP-06       | 344-0612     | HX-104   | XH-104   | 9-0612-4 |
|                   |                   | 12          | 305 | 9-0648-36S     | XHP-024      | 344-0648     | HX-105   | XH-105   | 9-0648-4 |
| 1/2<br>12.5<br>MM | 9/32<br>6.3<br>MM | 1           | 25  | 9-0804-36S     | XHP-12       | 344-0804     | HX-110   | XH-110   | 9-0804-4 |
|                   |                   | 1 1/4       | 32  | 9-0805-36S     | XHP-12A      | 344-0805     | HX-110A  | XH-110A  | 9-0805-4 |
|                   |                   | 1 1/2       | 38  | 9-0806-36S     | XHP-13       | 344-0806     | HX-111   | XH-111   | 9-0806-4 |
|                   |                   | 1 3/4       | 44  | 9-0807-36S     | XHP-13A      | 344-0807     | HX-111A  | XH-111A  | 9-0807-4 |
|                   |                   | 2           | 51  | 9-0808-36S     | XHP-14       | 344-0808     | HX-112   | XH-112   | 9-0808-4 |
|                   |                   | 2 1/2       | 64  | 9-0810-36S     | XHP-15       | 344-0810     | HX-113   | XH-113   | 9-0810-4 |
|                   |                   | 3           | 76  | 9-0812-36S     | XHP-16       | 344-0812     | HX-114   | XH-114   | 9-0812-4 |
|                   |                   | 3 1/2       | 89  | 9-0814-36S     | XHP-17       | 344-0814     | HX-115   | XH-115   | 9-0814-4 |
| 5/8<br>16<br>MM   | 11/32<br>8<br>MM  | 1           | 25  | 9-1004-36S     | XHP-22       | 344-1004     | HX-120   | XH-120   | 9-1004-4 |
|                   |                   | 1 1/4       | 32  | 9-1005-36S     | XHP-22A      | 344-1005     | HX-120A  | XH-120A  | 9-1005-4 |
|                   |                   | 1 1/2       | 38  | 9-1006-36S     | XHP-23       | 344-1006     | HX-121   | XH-121   | 9-1006-4 |
|                   |                   | 1 3/4       | 44  | 9-1007-36S     | XHP-23A      | 344-1007     | HX-121A  | XH-121A  | 9-1007-4 |
|                   |                   | 2           | 51  | 9-1008-36S     | XHP-24       | 344-1008     | HX-122   | XH-122   | 9-1008-4 |
|                   |                   | 2 1/2       | 64  | 9-1010-36S     | XHP-25       | 344-1010     | HX-123   | XH-123   | 9-1010-4 |
|                   |                   | 3           | 76  | 9-1012-36S     | XHP-26       | 344-1012     | HX-124   | XH-124   | 9-1012-4 |
|                   |                   | 3 1/2       | 89  | 9-1014-36S     | XHP-27       | 344-1014     | HX-125   | XH-125   | 9-1014-4 |
| 3/4<br>20<br>MM   | 3/8<br>10<br>MM   | 4           | 102 | 9-1016-36S     | XHP-28       | 344-1016     | HX-126   | XH-126   | 9-1016-4 |
|                   |                   | 12          | 305 | 9-1048-36S     | XHP-224      | 344-1048     | HX-127   | XH-127   | 9-1048-4 |
|                   |                   | 1           | 25  | 9-1204-36S     | XHP-32       | 344-1204     | HX-1     | XH-1     | 9-1204-4 |
|                   |                   | 1 1/4       | 32  | 9-1205-36S     | XHP-32A      | 344-1205     | HX-1A    | XH-1A    | 9-1205-4 |
|                   |                   | 1 1/2       | 38  | 9-1206-36S     | XHP-33       | 344-1206     | HX-2     | XH-2     | 9-1206-4 |
|                   |                   | 1 3/4       | 44  | 9-1207-36S     | XHP-33A      | 344-1207     | HX-2A    | XH-2A    | 9-1207-4 |
|                   |                   | 2           | 51  | 9-1208-36S     | XHP-34       | 344-1208     | HX-3     | XH-3     | 9-1208-4 |
|                   |                   | 2 1/2       | 64  | 9-1210-36S     | XHP-35       | 344-1210     | HX-4     | XH-4     | 9-1210-4 |
|                   |                   | 3           | 76  | 9-1212-36S     | XHP-36       | 344-1212     | HX-5     | XH-5     | 9-1212-4 |
|                   |                   | 3 1/2       | 89  | 9-1214-36S     | XHP-37       | 344-1214     | HX-6     | XH-6     | 9-1214-4 |
|                   |                   | 4           | 102 | 9-1216-36S     | XHP-38       | 344-1216     | HX-7     | XH-7     | 9-1216-4 |
|                   |                   | 4 1/2       | 115 | 9-1218-36S     | XHP-39       | 344-1218     | HX-8     | XH-8     | 9-1218-4 |
|                   |                   | 5           | 127 | 9-1220-36S     | XHP-310      | 344-1220     | HX-9     | XH-9     | 9-1220-4 |
|                   |                   | 5 1/2       | 140 | 9-1222-36S     | XHP-311      | 344-1222     | HX-10    | XH-10    | 9-1222-4 |
|                   |                   | 6           | 154 | 9-1224-36S     | XHP-312      | 344-1224     | HX-11    | XH-11    | 9-1224-4 |
|                   |                   | 12          | 305 | 9-1248-36S     | XHP-324      | 344-1248     | HX-11A   | XH-12    | 9-1248-4 |



| Hole<br>Dia.          | Rod<br>Dia.           | Free Length |     | Catalog Number |               |              |          |          |          |
|-----------------------|-----------------------|-------------|-----|----------------|---------------|--------------|----------|----------|----------|
|                       |                       | Inch        | MM  | Identi*****    | Producto***** | Superior**** | Dieco*** | Lamina** | Lempco*  |
| 1<br><br>25<br>MM     | 1/2<br><br>12.5<br>MM | 1 1/2       | 38  | 9-1606-36S     | XHP-43        | 344-1606     | HX-13    | XH-13    | 9-1606-4 |
|                       |                       | 2           | 51  | 9-1608-36S     | XHP-44        | 344-1608     | HX-14    | XH-14    | 9-1608-4 |
|                       |                       | 2 1/2       | 64  | 9-1610-36S     | XHP-45        | 344-1610     | HX-15    | XH-15    | 9-1610-4 |
|                       |                       | 3           | 76  | 9-1612-36S     | XHP-46        | 344-1612     | HX-16    | XH-16    | 9-1612-4 |
|                       |                       | 3 1/2       | 89  | 9-1614-36S     | XHP-47        | 344-1614     | HX-17    | XH-17    | 9-1614-4 |
|                       |                       | 4           | 102 | 9-1616-36S     | XHP-48        | 344-1616     | HX-18    | XH-18    | 9-1616-4 |
|                       |                       | 4 1/2       | 115 | 9-1618-36S     | XHP-49        | 344-1618     | HX-19    | XH-19    | 9-1618-4 |
|                       |                       | 5           | 127 | 9-1620-36S     | XHP-410       | 344-1620     | HX-20    | XH-20    | 9-1620-4 |
|                       |                       | 6           | 152 | 9-1624-36S     | XHP-412       | 344-1624     | HX-21    | XH-21    | 9-1624-4 |
|                       |                       | 12          | 305 | 9-1648-36S     | XHP-424       | 344-1648     | HX-22A   | XH-22A   | 9-1648-4 |
| 1 1/4<br><br>32<br>MM | 5/8<br><br>16<br>MM   | 2           | 51  | 9-2008-36S     | XHP-54        | 344-2008     | HX-37    | XH-37    | 9-2008-4 |
|                       |                       | 2 1/2       | 64  | 9-2010-36S     | XHP-55        | 344-2010     | HX-38    | XH-38    | 9-2010-4 |
|                       |                       | 3           | 76  | 9-2012-36S     | XHP-56        | 344-2012     | HX-39    | XH-39    | 9-2012-4 |
|                       |                       | 3 1/2       | 89  | 9-2014-36S     | XHP-57        | 344-2014     | HX-40    | XH-40    | 9-2014-4 |
|                       |                       | 4           | 102 | 9-2016-36S     | XHP-58        | 344-2016     | HX-41    | XH-41    | 9-2016-4 |
|                       |                       | 4 1/2       | 115 | 9-2018-36S     | XHP-59        | 344-2018     | HX-42    | XH-42    | 9-2018-4 |
|                       |                       | 5           | 127 | 9-2020-36S     | XHP-510       | 344-2020     | HX-43    | XH-43    | 9-2020-4 |
|                       |                       | 6           | 152 | 9-2024-36S     | XHP-512       | 344-2024     | HX-45    | XH-45    | 9-2024-4 |
|                       |                       | 8           | 203 | 9-2032-36S     | XHP-516       | 344-2032     | HX-47    | XH-47    | 9-2032-4 |
|                       |                       | 10          | 254 | 9-2040-36S     | XHP-520       | 344-2040     | HX-48    | XH-48    | 9-2040-4 |
|                       |                       | 12          | 305 | 9-2048-36S     | XHP-524       | 344-2048     | HX-48A   | XH-48A   | 9-2048-4 |
| 1 1/2<br><br>40<br>MM | 3/4<br><br>20<br>MM   | 2           | 51  | 9-2408-36S     | XHP-64        | 344-2408     | HX-49    | XH-49    | 9-2408-4 |
|                       |                       | 2 1/2       | 64  | 9-2410-36S     | XHP-65        | 344-2410     | HX-50    | XH-50    | 9-2410-4 |
|                       |                       | 3           | 76  | 9-2412-36S     | XHP-66        | 344-2412     | HX-51    | XH-51    | 9-2412-4 |
|                       |                       | 3 1/2       | 89  | 9-2414-36S     | XHP-67        | 344-2414     | HX-52    | XH-52    | 9-2414-4 |
|                       |                       | 4           | 102 | 9-2416-36S     | XHP-68        | 344-2416     | HX-53    | XH-53    | 9-2416-4 |
|                       |                       | 4 1/2       | 115 | 9-2418-36S     | XHP-69        | 344-2418     | HX-54    | XH-54    | 9-2418-4 |
|                       |                       | 5           | 127 | 9-2420-36S     | XHP-610       | 344-2420     | HX-55    | XH-55    | 9-2420-4 |
|                       |                       | 6           | 152 | 9-2424-36S     | XHP-612       | 344-2424     | HX-56    | XH-56    | 9-2424-4 |
|                       |                       | 8           | 203 | 9-2432-36S     | XHP-616       | 344-2432     | HX-57    | XH-57    | 9-2432-4 |
|                       |                       | 10          | 254 | 9-2440-36S     | XHP-620       | 344-2440     | HX-58    | XH-58    | 9-2440-4 |
|                       |                       | 12          | 305 | 9-2448-36S     | XHP-624       | 344-2448     | HX-58A   | XH-58A   | 9-2448-4 |
| 2<br><br>50<br>MM     | 1<br><br>25<br>MM     | 2 1/2       | 64  | 9-3210-36S     | XHP-85        | 344-3210     | HX-70    | XH-70    | 9-3210-4 |
|                       |                       | 3           | 76  | 9-3212-36S     | XHP-86        | 344-3212     | HX-71    | XH-71    | 9-3212-4 |
|                       |                       | 3 1/2       | 89  | 9-3214-36S     | XHP-87        | 344-3214     | HX-72    | XH-72    | 9-3214-4 |
|                       |                       | 4           | 102 | 9-3216-36S     | XHP-88        | 344-3216     | HX-73    | XH-73    | 9-3216-4 |
|                       |                       | 4 1/2       | 115 | 9-3218-36S     | XHP-89        | 344-3218     | HX-74    | XH-74    | 9-3218-4 |
|                       |                       | 5           | 127 | 9-3220-36S     | XHP-810       | 344-3220     | HX-75    | XH-75    | 9-3220-4 |
|                       |                       | 6           | 152 | 9-3224-36S     | XHP-812       | 344-3224     | HX-77    | XH-77    | 9-3224-4 |
|                       |                       | 8           | 203 | 9-3232-36S     | XHP-816       | 344-3232     | HX-80    | XH-80    | 9-3232-4 |
|                       |                       | 10          | 254 | 9-3240-36S     | XHP-820       | 344-3240     | HX-82    | XH-82    | 9-3240-4 |
|                       |                       | 12          | 305 | 9-3248-36S     | XHP-824       | 344-3248     | HX-83    | XH-83    | 9-3248-4 |

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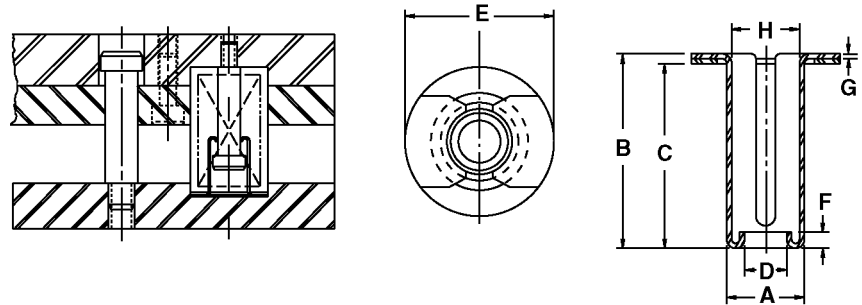
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# Spring Accessories

## Spring Retainers

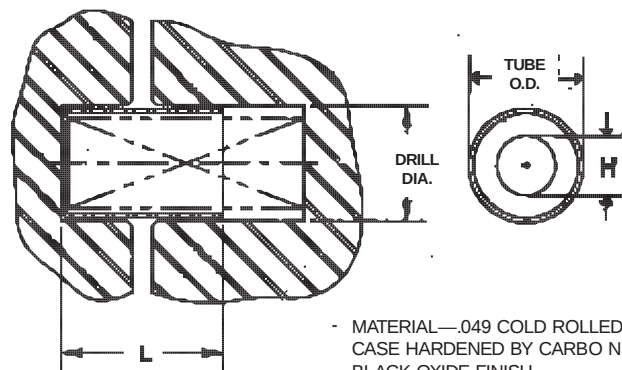


| CATALOG NO. | DIMENSIONS IN INCHES |                |                |                 |                  |                |        |                 |
|-------------|----------------------|----------------|----------------|-----------------|------------------|----------------|--------|-----------------|
|             | A                    | B              | C              | D               | E                | F              | G      | H               |
| 9-0615-16   | $\frac{3}{4}$        | $1\frac{7}{8}$ | $1\frac{3}{4}$ | $\frac{13}{32}$ | $\frac{17}{16}$  | $\frac{5}{32}$ | 16 GA. | $\frac{5}{8}$   |
| 9-0815-16   | 1                    | $1\frac{7}{8}$ | $1\frac{3}{4}$ | $\frac{17}{32}$ | $1\frac{15}{16}$ | $\frac{1}{8}$  | 14 GA. | $\frac{27}{32}$ |
| 9-0823-16   | 1                    | $2\frac{7}{8}$ | $2\frac{3}{4}$ | $\frac{17}{32}$ | $1\frac{15}{16}$ | $\frac{1}{8}$  | 14 GA. | $\frac{27}{32}$ |

## Spring Cages

Sizes available for all springs

| SPRING O.D.    | DRILL DIA.     | TUBE O.D. | A               |
|----------------|----------------|-----------|-----------------|
| $\frac{3}{4}$  | $\frac{7}{8}$  | .855      | $\frac{7}{16}$  |
| 1              | $1\frac{1}{8}$ | 1.105     | $\frac{9}{16}$  |
| $1\frac{1}{4}$ | $1\frac{3}{8}$ | 1.355     | $\frac{3}{4}$   |
| $1\frac{1}{2}$ | $1\frac{5}{8}$ | 1.605     | $\frac{31}{32}$ |
| 2              | $2\frac{1}{8}$ | 2.105     | $1\frac{3}{8}$  |



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