

Спиральные стопорные кольца WH/WS

Технические характеристики (eng)

| | | | | |
|-----------------------------|----------------------------|---------------------------------|--------------------------------|--------------------------|
| Архангельск (8182)63-90-72 | Иваново (4932)77-34-06 | Магнитогорск (3519)55-03-13 | Пермь (342)205-81-47 | Сургут (3462)77-98-35 |
| Астана (7172)727-132 | Ижевск (3412)26-03-58 | Москва (495)268-04-70 | Ростов-на-Дону (863)308-18-15 | Тверь (4822)63-31-35 |
| Астрахань (8512)99-46-04 | Иркутск (395)279-98-46 | Мурманск (8152)59-64-93 | Рязань (4912)46-61-64 | Томск (3822)98-41-53 |
| Барнаул (3852)73-04-60 | Казань (843)206-01-48 | Набережные Челны (8552)20-53-41 | Самара (846)206-03-16 | Тула (4872)74-02-29 |
| Белгород (4722)40-23-64 | Калининград (4012)72-03-81 | Нижний Новгород (831)429-08-12 | Санкт-Петербург (812)309-46-40 | Тюмень (3452)66-21-18 |
| Брянск (4832)59-03-52 | Калуга (4842)92-23-67 | Новокузнецк (3843)20-46-81 | Саратов (845)249-38-78 | Ульяновск (8422)24-23-59 |
| Владивосток (423)249-28-31 | Кемерово (3842)65-04-62 | Новосибирск (383)227-86-73 | Севастополь (8692)22-31-93 | Уфа (347)229-48-12 |
| Волгоград (844)278-03-48 | Киров (8332)68-02-04 | Омск (3812)21-46-40 | Симферополь (3652)67-13-56 | Хабаровск (4212)92-98-04 |
| Вологда (8172)26-41-59 | Краснодар (861)203-40-90 | Орел (4862)44-53-42 | Смоленск (4812)29-41-54 | Челябинск (351)202-03-61 |
| Воронеж (473)204-51-73 | Красноярск (391)204-63-61 | Оренбург (3532)37-68-04 | Сочи (862)225-72-31 | Череповец (8202)49-02-64 |
| Екатеринбург (343)384-55-89 | Курск (4712)77-13-04 | Пенза (8412)22-31-16 | Ставрополь (8652)20-65-13 | Ярославль (4852)69-52-93 |
| | Липецк (4742)52-20-81 | | | |

Киргизия (996)312-96-26-47 Казахстан (772)734-952-31 Таджикистан (992)427-82-92-69

<http://smalley.nt-rt.ru> || sym@nt-rt.ru

WH Series

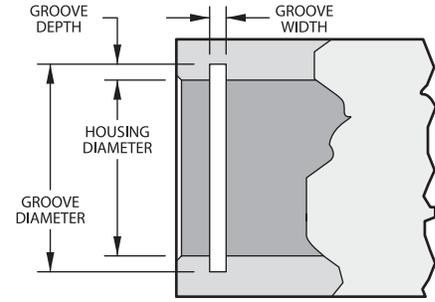
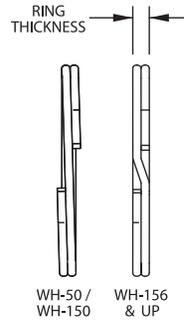
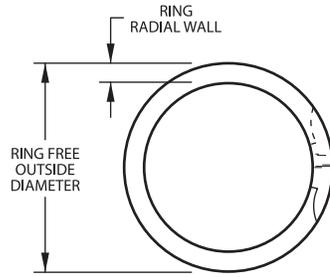
SPIROLOX RINGS EXCLUSIVELY FROM SMALLEY

Medium Duty Rings

Stock Items available in carbon steel and 302 and 316 stainless steel.



AS3217, AS4299
MIL-DTL-27426/3



Product Dimensions All dimensions in inches unless otherwise specified.

| Smalley Part Number ^{1,4} | Housing Diameter | Ring | | | Groove | | Thrust Capacity | |
|------------------------------------|------------------|------------------|-------------|-----------|----------|-------|--------------------------------|------------------------------|
| | | Outside Diameter | Radial Wall | Thickness | Diameter | Width | Groove Yield (lb) ² | Ring Shear (lb) ³ |
| WH-50 | .500 | .532 | .045 | .025 | .526 | .030 | 460 | 2,000 |
| WH-51 | .512 | .544 | .045 | .025 | .538 | .030 | 470 | 2,050 |
| WH-53 | .531 | .564 | .045 | .025 | .557 | .030 | 490 | 2,130 |
| WH-56 | .562 | .594 | .045 | .025 | .588 | .030 | 520 | 2,250 |
| WH-59 | .594 | .626 | .045 | .025 | .619 | .030 | 550 | 2,380 |
| WH-62 | .625 | .658 | .045 | .025 | .651 | .030 | 570 | 2,500 |
| WH-65 | .656 | .689 | .045 | .025 | .682 | .030 | 600 | 2,630 |
| WH-68 | .687 | .720 | .045 | .025 | .713 | .030 | 630 | 2,750 |
| WH-71 | .718 | .751 | .045 | .025 | .744 | .030 | 660 | 2,870 |
| WH-75 | .750 | .790 | .065 | .031 | .782 | .036 | 850 | 3,360 |
| WH-77 | .777 | .817 | .065 | .031 | .808 | .036 | 880 | 3,480 |
| WH-78 | .781 | .821 | .065 | .031 | .812 | .036 | 880 | 3,500 |
| WH-81 | .812 | .853 | .065 | .031 | .843 | .036 | 920 | 3,640 |
| WH-84 | .843 | .889 | .065 | .031 | .880 | .036 | 1,130 | 3,780 |
| WH-86 | .866 | .913 | .065 | .031 | .903 | .036 | 1,160 | 3,880 |
| WH-87 | .875 | .922 | .065 | .031 | .912 | .036 | 1,180 | 3,920 |
| WH-90 | .906 | .949 | .065 | .031 | .939 | .036 | 1,220 | 4,060 |
| WH-93 | .938 | .986 | .065 | .031 | .975 | .036 | 1,260 | 4,200 |
| WH-96 | .968 | 1.025 | .075 | .037 | 1.015 | .042 | 1,440 | 5,180 |
| WH-98 | .987 | 1.041 | .075 | .037 | 1.030 | .042 | 1,470 | 5,280 |
| WH-100 | 1.000 | 1.054 | .075 | .037 | 1.043 | .042 | 1,480 | 5,350 |
| WH-102 | 1.023 | 1.078 | .075 | .037 | 1.066 | .042 | 1,520 | 5,470 |
| WH-103 | 1.031 | 1.084 | .075 | .037 | 1.074 | .042 | 1,530 | 5,510 |
| WH-106 | 1.062 | 1.117 | .075 | .037 | 1.104 | .042 | 1,580 | 5,680 |
| WH-109 | 1.093 | 1.147 | .075 | .037 | 1.135 | .042 | 1,620 | 5,840 |
| WH-112 | 1.125 | 1.180 | .075 | .037 | 1.167 | .042 | 1,670 | 6,020 |
| WH-115 | 1.156 | 1.210 | .075 | .037 | 1.198 | .042 | 1,720 | 6,180 |
| WH-118 | 1.188 | 1.249 | .085 | .043 | 1.236 | .048 | 2,020 | 7,380 |
| WH-121 | 1.218 | 1.278 | .085 | .043 | 1.266 | .048 | 2,070 | 7,570 |
| WH-125 | 1.250 | 1.312 | .085 | .043 | 1.298 | .048 | 2,120 | 7,770 |
| WH-128 | 1.281 | 1.342 | .085 | .043 | 1.329 | .048 | 2,170 | 7,960 |
| WH-131 | 1.312 | 1.374 | .085 | .043 | 1.360 | .048 | 2,230 | 8,150 |
| WH-134 | 1.343 | 1.408 | .085 | .043 | 1.395 | .048 | 2,470 | 8,350 |
| WH-137 | 1.375 | 1.442 | .095 | .043 | 1.427 | .048 | 2,530 | 8,540 |
| WH-140 | 1.406 | 1.472 | .095 | .043 | 1.458 | .048 | 2,580 | 8,740 |
| WH-143 | 1.437 | 1.504 | .095 | .043 | 1.489 | .048 | 2,640 | 8,930 |
| WH-145 | 1.456 | 1.523 | .095 | .043 | 1.508 | .048 | 2,680 | 9,050 |
| WH-146 | 1.468 | 1.535 | .095 | .043 | 1.520 | .048 | 2,700 | 9,120 |
| WH-150 | 1.500 | 1.567 | .095 | .043 | 1.552 | .048 | 2,760 | 9,320 |
| WH-156 | 1.562 | 1.634 | .108 | .049 | 1.617 | .056 | 3,090 | 10,100 |
| WH-157 | 1.574 | 1.649 | .108 | .049 | 1.633 | .056 | 3,340 | 10,180 |
| WH-162 | 1.625 | 1.701 | .108 | .049 | 1.684 | .056 | 3,350 | 10,510 |
| WH-165 | 1.653 | 1.730 | .108 | .049 | 1.712 | .056 | 3,510 | 10,690 |
| WH-168 | 1.687 | 1.768 | .118 | .049 | 1.750 | .056 | 3,700 | 10,910 |
| WH-175 | 1.750 | 1.834 | .118 | .049 | 1.813 | .056 | 3,840 | 11,310 |
| WH-181 | 1.813 | 1.894 | .118 | .049 | 1.875 | .056 | 3,970 | 11,720 |
| WH-185 | 1.850 | 1.937 | .118 | .049 | 1.917 | .056 | 4,450 | 11,960 |

¹ Add suffix "-S02" for 302 stainless steel, "-S16" for 316 stainless steel.

² Based on a groove material yield strength of 45,000 psi and a safety factor of 2.

³ Based on a safety factor of 3.

⁴ See pages 134-135 for How to Order.

| Smalley Part Number ^{1,4} | Housing Diameter | Ring | | | Groove | | Thrust Capacity | |
|------------------------------------|------------------|------------------|-------------|-----------|----------|-------|--------------------------------|------------------------------|
| | | Outside Diameter | Radial Wall | Thickness | Diameter | Width | Groove Yield (lb) ² | Ring Shear (lb) ³ |
| WH-187 | 1.875 | 1.960 | .118 | .049 | 1.942 | .056 | 4,510 | 12,120 |
| WH-193 | 1.938 | 2.025 | .118 | .049 | 2.005 | .056 | 4,660 | 12,530 |
| WH-200 | 2.000 | 2.091 | .128 | .049 | 2.071 | .056 | 4,950 | 12,930 |
| WH-204 | 2.047 | 2.138 | .128 | .049 | 2.118 | .056 | 5,060 | 13,240 |
| WH-206 | 2.062 | 2.154 | .128 | .049 | 2.132 | .056 | 5,100 | 13,330 |
| WH-212 | 2.125 | 2.217 | .128 | .049 | 2.195 | .056 | 5,260 | 13,740 |
| WH-216 | 2.165 | 2.260 | .138 | .049 | 2.239 | .056 | 5,660 | 14,000 |
| WH-218 | 2.188 | 2.284 | .138 | .049 | 2.262 | .056 | 5,720 | 14,150 |
| WH-225 | 2.250 | 2.347 | .138 | .049 | 2.324 | .056 | 5,890 | 14,550 |
| WH-231 | 2.312 | 2.413 | .138 | .049 | 2.390 | .056 | 6,370 | 14,950 |
| WH-237 | 2.375 | 2.476 | .138 | .049 | 2.453 | .056 | 6,550 | 15,360 |
| WH-243 | 2.437 | 2.543 | .148 | .049 | 2.519 | .056 | 7,060 | 15,760 |
| WH-244 | 2.440 | 2.546 | .148 | .049 | 2.522 | .056 | 7,070 | 15,780 |
| WH-250 | 2.500 | 2.606 | .148 | .049 | 2.582 | .056 | 7,250 | 16,160 |
| WH-253 | 2.531 | 2.641 | .148 | .049 | 2.617 | .056 | 7,690 | 16,360 |
| WH-256 | 2.562 | 2.673 | .148 | .049 | 2.648 | .056 | 7,790 | 16,560 |
| WH-262 | 2.625 | 2.736 | .148 | .049 | 2.711 | .056 | 7,980 | 16,970 |
| WH-267 | 2.677 | 2.789 | .158 | .049 | 2.767 | .056 | 8,520 | 17,310 |
| WH-268 | 2.688 | 2.803 | .158 | .049 | 2.778 | .056 | 8,550 | 17,380 |
| WH-275 | 2.750 | 2.865 | .158 | .049 | 2.841 | .056 | 8,750 | 17,780 |
| WH-281 | 2.813 | 2.929 | .158 | .049 | 2.903 | .056 | 8,950 | 18,190 |
| WH-283 | 2.834 | 2.954 | .168 | .049 | 2.928 | .056 | 9,520 | 18,320 |
| WH-287 | 2.875 | 2.995 | .168 | .049 | 2.969 | .056 | 9,550 | 18,590 |
| WH-293 | 2.937 | 3.058 | .168 | .049 | 3.031 | .056 | 9,760 | 18,990 |
| WH-295 | 2.952 | 3.073 | .168 | .049 | 3.046 | .056 | 9,810 | 19,090 |
| WH-300 | 3.000 | 3.122 | .168 | .061 | 3.096 | .068 | 10,180 | 24,150 |
| WH-306 | 3.062 | 3.186 | .168 | .061 | 3.158 | .068 | 10,390 | 24,650 |
| WH-312 | 3.125 | 3.251 | .178 | .061 | 3.223 | .068 | 10,600 | 25,150 |
| WH-314 | 3.149 | 3.276 | .178 | .061 | 3.247 | .068 | 10,680 | 25,350 |
| WH-318 | 3.187 | 3.311 | .178 | .061 | 3.283 | .068 | 10,810 | 25,650 |
| WH-325 | 3.250 | 3.379 | .178 | .061 | 3.350 | .068 | 11,490 | 26,160 |
| WH-331 | 3.312 | 3.446 | .188 | .061 | 3.416 | .068 | 12,170 | 26,660 |
| WH-334 | 3.346 | 3.479 | .188 | .061 | 3.450 | .068 | 12,300 | 26,930 |
| WH-337 | 3.375 | 3.509 | .188 | .061 | 3.479 | .068 | 12,410 | 27,170 |
| WH-343 | 3.437 | 3.574 | .188 | .061 | 3.543 | .068 | 12,880 | 27,660 |
| WH-350 | 3.500 | 3.636 | .188 | .061 | 3.606 | .068 | 13,110 | 28,170 |
| WH-354 | 3.543 | 3.684 | .198 | .061 | 3.653 | .068 | 13,770 | 28,520 |
| WH-356 | 3.562 | 3.703 | .198 | .061 | 3.672 | .068 | 13,850 | 28,670 |
| WH-362 | 3.625 | 3.769 | .198 | .061 | 3.737 | .068 | 14,350 | 29,180 |
| WH-368 | 3.687 | 3.832 | .198 | .061 | 3.799 | .068 | 14,600 | 29,680 |
| WH-374 | 3.740 | 3.885 | .198 | .061 | 3.852 | .068 | 14,800 | 30,100 |
| WH-375 | 3.750 | 3.894 | .198 | .061 | 3.862 | .068 | 14,840 | 30,180 |
| WH-381 | 3.812 | 3.963 | .208 | .061 | 3.930 | .068 | 15,900 | 30,680 |
| WH-387 | 3.875 | 4.025 | .208 | .061 | 3.993 | .068 | 16,160 | 31,190 |
| WH-393 | 3.938 | 4.089 | .208 | .061 | 4.056 | .068 | 16,420 | 31,700 |
| WH-400 | 4.000 | 4.157 | .218 | .061 | 4.124 | .068 | 17,530 | 32,200 |
| WH-406 | 4.063 | 4.222 | .218 | .061 | 4.187 | .068 | 17,810 | 32,700 |
| WH-412 | 4.125 | 4.284 | .218 | .061 | 4.249 | .068 | 18,080 | 33,200 |
| WH-418 | 4.188 | 4.347 | .218 | .061 | 4.311 | .068 | 18,350 | 33,710 |
| WH-425 | 4.250 | 4.416 | .228 | .061 | 4.380 | .068 | 19,530 | 34,210 |
| WH-431 | 4.312 | 4.479 | .228 | .061 | 4.442 | .068 | 19,810 | 34,710 |
| WH-433 | 4.330 | 4.497 | .228 | .061 | 4.460 | .068 | 19,900 | 34,850 |
| WH-437 | 4.375 | 4.543 | .228 | .061 | 4.505 | .068 | 20,100 | 35,210 |
| WH-443 | 4.437 | 4.611 | .238 | .061 | 4.573 | .068 | 21,330 | 35,710 |
| WH-450 | 4.500 | 4.674 | .238 | .061 | 4.636 | .068 | 21,630 | 36,220 |
| WH-452 | 4.527 | 4.701 | .238 | .061 | 4.663 | .068 | 21,760 | 36,440 |
| WH-456 | 4.562 | 4.737 | .238 | .061 | 4.698 | .068 | 21,930 | 36,720 |
| WH-462 | 4.625 | 4.803 | .250 | .072 | 4.765 | .079 | 22,890 | 43,940 |
| WH-468 | 4.687 | 4.867 | .250 | .072 | 4.827 | .079 | 23,190 | 44,530 |
| WH-472 | 4.724 | 4.903 | .250 | .072 | 4.864 | .079 | 23,370 | 44,880 |
| WH-475 | 4.750 | 4.930 | .250 | .072 | 4.890 | .079 | 23,500 | 45,130 |
| WH-481 | 4.812 | 4.993 | .250 | .072 | 4.952 | .079 | 23,810 | 45,720 |

¹ Add suffix "-S02" for 302 stainless steel, "-S16" for 316 stainless steel.
² Based on a groove material yield strength of 45,000 psi and a safety factor of 2.
³ Based on a safety factor of 3.
⁴ See pages 134-135 for How to Order.

WH Series

SPIROLOX RINGS EXCLUSIVELY FROM SMALLEY

Medium Duty Rings

Stock Items available in carbon steel and 302 and 316 stainless steel.

Product Dimensions All dimensions in inches unless otherwise specified.

| Smalley Part Number ^{1,4} | Housing Diameter | Ring | | | Groove | | Thrust Capacity | |
|------------------------------------|------------------|------------------|-------------|-----------|----------|-------|--------------------------------|------------------------------|
| | | Outside Diameter | Radial Wall | Thickness | Diameter | Width | Groove Yield (lb) ² | Ring Shear (lb) ³ |
| WH-487 | 4.875 | 5.055 | .250 | .072 | 5.015 | .079 | 24,120 | 46,310 |
| WH-492 | 4.921 | 5.102 | .250 | .072 | 5.061 | .079 | 24,350 | 46,750 |
| WH-493 | 4.937 | 5.122 | .250 | .072 | 5.081 | .079 | 25,130 | 46,900 |
| WH-500 | 5.000 | 5.185 | .250 | .072 | 5.144 | .079 | 25,450 | 47,500 |
| WH-511 | 5.118 | 5.304 | .250 | .072 | 5.262 | .079 | 26,050 | 48,620 |
| WH-512 | 5.125 | 5.311 | .250 | .072 | 5.269 | .079 | 26,100 | 48,690 |
| WH-525 | 5.250 | 5.436 | .250 | .072 | 5.393 | .079 | 26,720 | 49,880 |
| WH-537 | 5.375 | 5.566 | .250 | .072 | 5.522 | .079 | 28,120 | 51,060 |
| WH-550 | 5.500 | 5.693 | .250 | .072 | 5.647 | .079 | 28,770 | 52,250 |
| WH-551 | 5.511 | 5.703 | .250 | .072 | 5.658 | .079 | 28,830 | 52,360 |
| WH-562 | 5.625 | 5.818 | .250 | .072 | 5.772 | .079 | 29,400 | 53,440 |
| WH-570 | 5.708 | 5.909 | .250 | .072 | 5.861 | .079 | 31,070 | 54,230 |
| WH-575 | 5.750 | 5.950 | .250 | .072 | 5.903 | .079 | 31,300 | 54,630 |
| WH-587 | 5.875 | 6.077 | .250 | .072 | 6.028 | .079 | 31,980 | 55,810 |
| WH-590 | 5.905 | 6.106 | .250 | .072 | 6.058 | .079 | 32,140 | 56,100 |
| WH-600 | 6.000 | 6.202 | .250 | .072 | 6.153 | .079 | 32,660 | 57,000 |
| WH-612 | 6.125 | 6.349 | .312 | .086 | 6.297 | .094 | 37,200 | 69,500 |
| WH-625 | 6.250 | 6.474 | .312 | .086 | 6.422 | .094 | 37,990 | 70,920 |
| WH-629 | 6.299 | 6.524 | .312 | .086 | 6.471 | .094 | 38,290 | 71,480 |
| WH-637 | 6.375 | 6.601 | .312 | .086 | 6.547 | .094 | 38,750 | 72,340 |
| WH-650 | 6.500 | 6.726 | .312 | .086 | 6.672 | .094 | 39,510 | 73,760 |
| WH-662 | 6.625 | 6.863 | .312 | .086 | 6.807 | .094 | 42,620 | 75,180 |
| WH-669 | 6.692 | 6.931 | .312 | .086 | 6.874 | .094 | 43,050 | 75,940 |
| WH-675 | 6.750 | 6.987 | .312 | .086 | 6.932 | .094 | 43,420 | 76,600 |
| WH-687 | 6.875 | 7.114 | .312 | .086 | 7.057 | .094 | 44,220 | 78,010 |
| WH-700 | 7.000 | 7.239 | .312 | .086 | 7.182 | .094 | 45,030 | 79,430 |
| WH-708 | 7.086 | 7.337 | .312 | .086 | 7.278 | .094 | 48,080 | 80,410 |
| WH-712 | 7.125 | 7.376 | .312 | .086 | 7.317 | .094 | 48,350 | 80,850 |
| WH-725 | 7.250 | 7.501 | .312 | .086 | 7.442 | .094 | 49,200 | 82,270 |
| WH-737 | 7.375 | 7.628 | .312 | .086 | 7.567 | .094 | 50,050 | 83,690 |
| WH-748 | 7.480 | 7.734 | .312 | .086 | 7.672 | .094 | 50,760 | 84,880 |
| WH-750 | 7.500 | 7.754 | .312 | .086 | 7.692 | .094 | 50,890 | 85,110 |
| WH-762 | 7.625 | 7.890 | .312 | .086 | 7.827 | .094 | 54,440 | 86,520 |
| WH-775 | 7.750 | 8.014 | .312 | .086 | 7.952 | .094 | 55,330 | 87,940 |
| WH-787 | 7.875 | 8.131 | .312 | .086 | 8.077 | .094 | 63,360 | 89,360 |
| WH-800 | 8.000 | 8.266 | .312 | .086 | 8.202 | .094 | 57,110 | 90,780 |
| WH-825 | 8.250 | 8.528 | .375 | .086 | 8.462 | .094 | 61,820 | 93,620 |
| WH-826 | 8.267 | 8.546 | .375 | .086 | 8.479 | .094 | 61,940 | 93,810 |
| WH-846 | 8.464 | 8.744 | .375 | .086 | 8.676 | .094 | 63,420 | 96,050 |
| WH-850 | 8.500 | 8.780 | .375 | .086 | 8.712 | .094 | 63,690 | 96,450 |
| WH-875 | 8.750 | 9.041 | .375 | .086 | 8.972 | .094 | 68,650 | 99,290 |
| WH-885 | 8.858 | 9.151 | .375 | .086 | 9.080 | .094 | 69,500 | 100,520 |
| WH-900 | 9.000 | 9.293 | .375 | .086 | 9.222 | .094 | 70,620 | 102,130 |
| WH-905 | 9.055 | 9.359 | .375 | .086 | 9.287 | .094 | 74,250 | 102,750 |
| WH-925 | 9.250 | 9.555 | .375 | .086 | 9.482 | .094 | 75,850 | 104,960 |
| WH-944 | 9.448 | 9.755 | .375 | .086 | 9.680 | .094 | 77,470 | 107,210 |
| WH-950 | 9.500 | 9.806 | .375 | .086 | 9.732 | .094 | 77,900 | 107,800 |
| WH-975 | 9.750 | 10.068 | .375 | .086 | 9.992 | .094 | 83,390 | 110,640 |
| WH-1000 | 10.000 | 10.320 | .375 | .086 | 10.242 | .094 | 85,530 | 113,470 |
| WH-1025 | 10.250 | 10.582 | .375 | .086 | 10.502 | .094 | 91,290 | 116,310 |
| WH-1050 | 10.500 | 10.834 | .375 | .086 | 10.752 | .094 | 93,520 | 119,150 |
| WH-1075 | 10.750 | 11.095 | .375 | .086 | 11.012 | .094 | 99,540 | 121,990 |
| WH-1100 | 11.000 | 11.347 | .375 | .086 | 11.262 | .094 | 101,860 | 124,820 |

¹ Add suffix "-S02" for 302 stainless steel, "-S16" for 316 stainless steel.

² Based on a groove material yield strength of 45,000 psi and a safety factor of 2.

³ Based on a safety factor of 3.

⁴ See pages 134-135 for How to Order.

WS Series

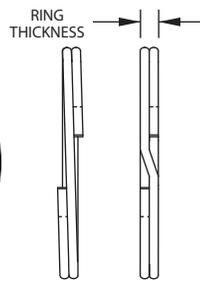
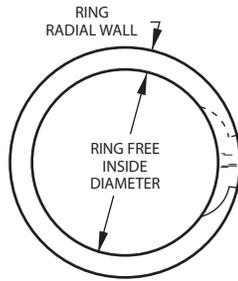
SPIROLOX RINGS EXCLUSIVELY FROM SMALLEY

Medium Duty Rings

Stock Items available in carbon steel and 302 and 316 stainless steel.

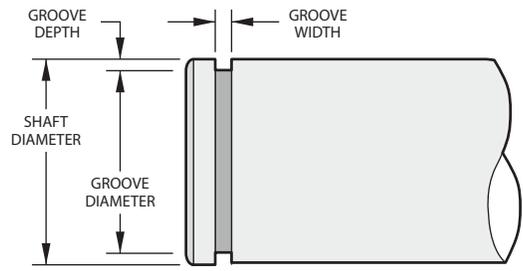


AS3218, AS4299
MIL-DTL-27426/1



WS-50 /
WS-150

WS-156
& UP



Product Dimensions All dimensions in inches unless otherwise specified.

| Smalley Part Number ^{1,4} | Shaft Diameter | Ring | | | Groove | | Thrust Capacity | |
|------------------------------------|----------------|-----------------|-------------|-----------|----------|-------|--------------------------------|------------------------------|
| | | Inside Diameter | Radial Wall | Thickness | Diameter | Width | Groove Yield (lb) ² | Ring Shear (lb) ³ |
| WS-50 | .500 | .467 | .045 | .025 | .474 | .030 | 460 | 2,000 |
| WS-53 | .531 | .498 | .045 | .025 | .505 | .030 | 490 | 2,130 |
| WS-55 | .551 | .518 | .045 | .025 | .525 | .030 | 510 | 2,210 |
| WS-56 | .562 | .529 | .045 | .025 | .536 | .030 | 520 | 2,250 |
| WS-59 | .594 | .561 | .045 | .025 | .569 | .030 | 550 | 2,380 |
| WS-62 | .625 | .585 | .055 | .025 | .594 | .030 | 710 | 2,500 |
| WS-65 | .656 | .617 | .055 | .025 | .625 | .030 | 740 | 2,630 |
| WS-66 | .669 | .629 | .055 | .025 | .638 | .030 | 760 | 2,680 |
| WS-68 | .687 | .647 | .055 | .025 | .656 | .030 | 780 | 2,750 |
| WS-71 | .718 | .679 | .055 | .025 | .687 | .030 | 810 | 2,880 |
| WS-75 | .750 | .710 | .065 | .031 | .719 | .036 | 850 | 3,360 |
| WS-78 | .781 | .741 | .065 | .031 | .750 | .036 | 880 | 3,500 |
| WS-81 | .812 | .771 | .065 | .031 | .781 | .036 | 920 | 3,640 |
| WS-84 | .843 | .803 | .065 | .031 | .812 | .036 | 950 | 3,780 |
| WS-87 | .875 | .828 | .065 | .031 | .838 | .036 | 1,180 | 3,920 |
| WS-90 | .906 | .860 | .065 | .031 | .869 | .036 | 1,220 | 4,060 |
| WS-93 | .937 | .889 | .065 | .031 | .900 | .036 | 1,260 | 4,200 |
| WS-96 | .968 | .916 | .075 | .037 | .925 | .042 | 1,440 | 5,180 |
| WS-98 | .984 | .930 | .075 | .037 | .941 | .042 | 1,460 | 5,260 |
| WS-100 | 1.000 | .946 | .075 | .037 | .957 | .042 | 1,480 | 5,350 |
| WS-102 | 1.023 | .968 | .075 | .037 | .980 | .042 | 1,520 | 5,470 |
| WS-103 | 1.031 | .978 | .075 | .037 | .988 | .042 | 1,530 | 5,510 |
| WS-106 | 1.062 | 1.007 | .075 | .037 | 1.020 | .042 | 1,580 | 5,680 |
| WS-109 | 1.093 | 1.040 | .075 | .037 | 1.051 | .042 | 1,620 | 5,840 |
| WS-112 | 1.125 | 1.070 | .075 | .037 | 1.083 | .042 | 1,670 | 6,020 |
| WS-115 | 1.156 | 1.102 | .075 | .037 | 1.114 | .042 | 1,720 | 6,180 |
| WS-118 | 1.188 | 1.127 | .085 | .043 | 1.140 | .048 | 2,020 | 7,380 |
| WS-121 | 1.218 | 1.159 | .085 | .043 | 1.170 | .048 | 2,070 | 7,570 |
| WS-125 | 1.250 | 1.188 | .085 | .043 | 1.202 | .048 | 2,120 | 7,770 |
| WS-128 | 1.281 | 1.221 | .085 | .043 | 1.233 | .048 | 2,170 | 7,960 |
| WS-131 | 1.312 | 1.251 | .095 | .043 | 1.264 | .048 | 2,230 | 8,150 |
| WS-134 | 1.343 | 1.282 | .095 | .043 | 1.295 | .048 | 2,280 | 8,350 |
| WS-137 | 1.375 | 1.308 | .095 | .043 | 1.323 | .048 | 2,530 | 8,540 |
| WS-140 | 1.406 | 1.340 | .095 | .043 | 1.354 | .048 | 2,580 | 8,740 |
| WS-143 | 1.437 | 1.370 | .095 | .043 | 1.385 | .048 | 2,640 | 8,930 |
| WS-146 | 1.468 | 1.402 | .095 | .043 | 1.416 | .048 | 2,700 | 9,120 |
| WS-150 | 1.500 | 1.433 | .095 | .043 | 1.448 | .048 | 2,760 | 9,320 |
| WS-156 | 1.562 | 1.490 | .108 | .049 | 1.507 | .056 | 3,090 | 10,100 |
| WS-157 | 1.575 | 1.503 | .108 | .049 | 1.520 | .056 | 3,120 | 10,190 |
| WS-162 | 1.625 | 1.549 | .108 | .049 | 1.566 | .056 | 3,450 | 10,510 |
| WS-168 | 1.687 | 1.610 | .118 | .049 | 1.628 | .056 | 3,580 | 10,910 |
| WS-175 | 1.750 | 1.673 | .118 | .049 | 1.691 | .056 | 3,710 | 11,310 |
| WS-177 | 1.771 | 1.690 | .118 | .049 | 1.708 | .056 | 4,010 | 11,450 |
| WS-181 | 1.813 | 1.730 | .118 | .049 | 1.749 | .056 | 4,100 | 11,720 |

¹ Add suffix "-S02" for 302 stainless steel, "-S16" for 316 stainless steel.

² Based on a groove material yield strength of 45,000 psi and a safety factor of 2.

³ Based on a safety factor of 3.

⁴ See pages 134-135 for How to Order.

Stock Items available in carbon steel and 302 and 316 stainless steel.

Product Dimensions All dimensions in inches unless otherwise specified.

| Smalley Part Number ^{1,4} | Shaft Diameter | Ring | | | Groove | | Thrust Capacity | |
|------------------------------------|----------------|-----------------|-------------|-----------|----------|-------|--------------------------------|------------------------------|
| | | Inside Diameter | Radial Wall | Thickness | Diameter | Width | Groove Yield (lb) ² | Ring Shear (lb) ³ |
| WS-187 | 1.875 | 1.789 | .128 | .049 | 1.808 | .056 | 4,510 | 12,120 |
| WS-193 | 1.938 | 1.844 | .128 | .049 | 1.861 | .056 | 4,660 | 12,530 |
| WS-196 | 1.969 | 1.882 | .128 | .049 | 1.902 | .056 | 4,730 | 12,730 |
| WS-200 | 2.000 | 1.909 | .128 | .049 | 1.929 | .056 | 4,950 | 12,930 |
| WS-206 | 2.062 | 1.971 | .128 | .049 | 1.992 | .056 | 5,100 | 13,330 |
| WS-212 | 2.125 | 2.029 | .128 | .049 | 2.051 | .056 | 5,560 | 13,740 |
| WS-215 | 2.156 | 2.060 | .138 | .049 | 2.082 | .056 | 5,640 | 13,940 |
| WS-216 | 2.165 | 2.070 | .138 | .049 | 2.091 | .056 | 5,660 | 14,000 |
| WS-218 | 2.188 | 2.092 | .138 | .049 | 2.113 | .056 | 5,720 | 14,150 |
| WS-225 | 2.250 | 2.153 | .138 | .049 | 2.176 | .056 | 5,890 | 14,550 |
| WS-231 | 2.312 | 2.211 | .138 | .049 | 2.234 | .056 | 6,370 | 14,950 |
| WS-236 | 2.362 | 2.261 | .138 | .049 | 2.284 | .056 | 6,510 | 15,270 |
| WS-237 | 2.375 | 2.273 | .138 | .049 | 2.297 | .056 | 6,550 | 15,360 |
| WS-243 | 2.437 | 2.331 | .148 | .049 | 2.355 | .056 | 7,060 | 15,760 |
| WS-250 | 2.500 | 2.394 | .148 | .049 | 2.418 | .056 | 7,250 | 16,160 |
| WS-255 | 2.559 | 2.449 | .148 | .049 | 2.473 | .056 | 7,780 | 16,550 |
| WS-256 | 2.562 | 2.452 | .148 | .049 | 2.476 | .056 | 7,790 | 16,560 |
| WS-262 | 2.625 | 2.514 | .148 | .049 | 2.539 | .056 | 7,980 | 16,970 |
| WS-268 | 2.688 | 2.572 | .158 | .049 | 2.597 | .056 | 8,550 | 17,380 |
| WS-275 | 2.750 | 2.635 | .158 | .049 | 2.660 | .056 | 8,750 | 17,780 |
| WS-281 | 2.813 | 2.696 | .168 | .049 | 2.722 | .056 | 8,950 | 18,190 |
| WS-287 | 2.875 | 2.755 | .168 | .049 | 2.781 | .056 | 9,550 | 18,590 |
| WS-293 | 2.937 | 2.817 | .168 | .049 | 2.843 | .056 | 9,760 | 18,990 |
| WS-295 | 2.952 | 2.831 | .168 | .049 | 2.858 | .056 | 9,810 | 19,090 |
| WS-300 | 3.000 | 2.877 | .168 | .061 | 2.904 | .068 | 10,180 | 24,150 |
| WS-306 | 3.062 | 2.938 | .168 | .061 | 2.966 | .068 | 10,390 | 24,650 |
| WS-312 | 3.125 | 3.000 | .178 | .061 | 3.027 | .068 | 10,820 | 25,150 |
| WS-314 | 3.149 | 3.023 | .178 | .061 | 3.051 | .068 | 10,910 | 25,350 |
| WS-318 | 3.187 | 3.061 | .178 | .061 | 3.089 | .068 | 11,040 | 25,650 |
| WS-325 | 3.250 | 3.121 | .178 | .061 | 3.150 | .068 | 11,490 | 26,160 |
| WS-331 | 3.312 | 3.180 | .188 | .061 | 3.208 | .068 | 12,170 | 26,660 |
| WS-334 | 3.343 | 3.210 | .188 | .061 | 3.239 | .068 | 12,290 | 26,910 |
| WS-337 | 3.375 | 3.242 | .188 | .061 | 3.271 | .068 | 12,410 | 27,170 |
| WS-343 | 3.437 | 3.301 | .188 | .061 | 3.331 | .068 | 12,880 | 27,660 |
| WS-350 | 3.500 | 3.363 | .188 | .061 | 3.394 | .068 | 13,110 | 28,170 |
| WS-354 | 3.543 | 3.402 | .198 | .061 | 3.433 | .068 | 13,770 | 28,520 |
| WS-356 | 3.562 | 3.422 | .198 | .061 | 3.452 | .068 | 13,850 | 28,670 |
| WS-362 | 3.625 | 3.483 | .198 | .061 | 3.515 | .068 | 14,090 | 29,180 |
| WS-368 | 3.687 | 3.543 | .198 | .061 | 3.575 | .068 | 14,600 | 29,680 |
| WS-374 | 3.740 | 3.597 | .198 | .061 | 3.628 | .068 | 14,800 | 30,100 |
| WS-375 | 3.750 | 3.606 | .198 | .061 | 3.638 | .068 | 14,840 | 30,180 |
| WS-381 | 3.812 | 3.668 | .198 | .061 | 3.700 | .068 | 15,090 | 30,680 |
| WS-387 | 3.875 | 3.724 | .208 | .061 | 3.757 | .068 | 16,160 | 31,190 |
| WS-393 | 3.938 | 3.784 | .208 | .061 | 3.820 | .068 | 16,420 | 31,700 |
| WS-400 | 4.000 | 3.842 | .218 | .061 | 3.876 | .068 | 17,530 | 32,200 |
| WS-406 | 4.063 | 3.906 | .218 | .061 | 3.939 | .068 | 17,810 | 32,700 |
| WS-412 | 4.125 | 3.967 | .218 | .061 | 4.000 | .068 | 18,080 | 33,200 |
| WS-413 | 4.134 | 3.975 | .218 | .061 | 4.010 | .068 | 18,120 | 33,270 |
| WS-418 | 4.188 | 4.030 | .218 | .061 | 4.058 | .068 | 19,240 | 33,710 |
| WS-425 | 4.250 | 4.084 | .228 | .061 | 4.120 | .068 | 19,530 | 34,210 |
| WS-431 | 4.312 | 4.147 | .228 | .061 | 4.182 | .068 | 19,810 | 34,710 |
| WS-433 | 4.331 | 4.164 | .228 | .061 | 4.200 | .068 | 19,900 | 34,860 |
| WS-437 | 4.375 | 4.208 | .228 | .061 | 4.245 | .068 | 20,100 | 35,210 |
| WS-443 | 4.437 | 4.271 | .228 | .061 | 4.307 | .068 | 20,390 | 35,710 |
| WS-450 | 4.500 | 4.326 | .238 | .061 | 4.364 | .068 | 21,630 | 36,220 |
| WS-456 | 4.562 | 4.384 | .250 | .072 | 4.422 | .079 | 22,570 | 43,340 |
| WS-462 | 4.625 | 4.447 | .250 | .072 | 4.485 | .079 | 22,890 | 43,940 |
| WS-468 | 4.687 | 4.508 | .250 | .072 | 4.547 | .079 | 23,190 | 44,530 |
| WS-472 | 4.724 | 4.546 | .250 | .072 | 4.584 | .079 | 23,370 | 44,880 |
| WS-475 | 4.750 | 4.571 | .250 | .072 | 4.610 | .079 | 23,500 | 45,130 |
| WS-481 | 4.812 | 4.633 | .250 | .072 | 4.672 | .079 | 23,810 | 45,720 |
| WS-487 | 4.875 | 4.695 | .250 | .072 | 4.735 | .079 | 24,120 | 46,310 |

¹ Add suffix "-S02" for 302 stainless steel, "-S16" for 316 stainless steel.

² Based on a groove material yield strength of 45,000 psi and a safety factor of 2.

³ Based on a safety factor of 3.

⁴ See pages 134-135 for How to Order.

Stock Items available in carbon steel and 302 and 316 stainless steel.

Product Dimensions All dimensions in inches unless otherwise specified.

| Smalley Part Number ^{1,4} | Shaft Diameter | Ring | | | Groove | | Thrust Capacity | |
|------------------------------------|----------------|-----------------|-------------|-----------|----------|-------|--------------------------------|------------------------------|
| | | Inside Diameter | Radial Wall | Thickness | Diameter | Width | Groove Yield (lb) ² | Ring Shear (lb) ³ |
| WS-493 | 4.937 | 4.757 | .250 | .072 | 4.797 | .079 | 24,430 | 46,900 |
| WS-500 | 5.000 | 4.820 | .250 | .072 | 4.856 | .079 | 25,450 | 47,500 |
| WS-511 | 5.118 | 4.934 | .250 | .072 | 4.974 | .079 | 26,050 | 48,620 |
| WS-512 | 5.125 | 4.939 | .250 | .072 | 4.981 | .079 | 26,080 | 48,690 |
| WS-525 | 5.250 | 5.064 | .250 | .072 | 5.107 | .079 | 26,720 | 49,880 |
| WS-537 | 5.375 | 5.187 | .250 | .072 | 5.228 | .079 | 28,120 | 51,060 |
| WS-550 | 5.500 | 5.308 | .250 | .072 | 5.353 | .079 | 28,770 | 52,250 |
| WS-551 | 5.511 | 5.320 | .250 | .072 | 5.364 | .079 | 28,830 | 52,360 |
| WS-562 | 5.625 | 5.433 | .250 | .072 | 5.478 | .079 | 29,420 | 53,440 |
| WS-575 | 5.750 | 5.550 | .250 | .072 | 5.597 | .079 | 31,300 | 54,630 |
| WS-587 | 5.875 | 5.674 | .250 | .072 | 5.722 | .079 | 31,980 | 55,810 |
| WS-590 | 5.905 | 5.705 | .250 | .072 | 5.752 | .079 | 32,140 | 56,100 |
| WS-600 | 6.000 | 5.798 | .250 | .072 | 5.847 | .079 | 32,660 | 57,000 |
| WS-612 | 6.125 | 5.903 | .312 | .086 | 5.953 | .094 | 37,230 | 69,500 |
| WS-625 | 6.250 | 6.026 | .312 | .086 | 6.078 | .094 | 37,990 | 70,920 |
| WS-629 | 6.299 | 6.076 | .312 | .086 | 6.127 | .094 | 38,290 | 71,480 |
| WS-637 | 6.375 | 6.152 | .312 | .086 | 6.203 | .094 | 38,750 | 72,340 |
| WS-650 | 6.500 | 6.274 | .312 | .086 | 6.328 | .094 | 39,510 | 73,760 |
| WS-662 | 6.625 | 6.390 | .312 | .086 | 6.443 | .094 | 42,620 | 75,180 |
| WS-675 | 6.750 | 6.513 | .312 | .086 | 6.568 | .094 | 43,420 | 76,600 |
| WS-687 | 6.875 | 6.638 | .312 | .086 | 6.693 | .094 | 44,220 | 78,010 |
| WS-700 | 7.000 | 6.761 | .312 | .086 | 6.818 | .094 | 45,030 | 79,430 |
| WS-712 | 7.125 | 6.877 | .312 | .086 | 6.933 | .094 | 48,350 | 80,850 |
| WS-725 | 7.250 | 6.999 | .312 | .086 | 7.058 | .094 | 49,200 | 82,270 |
| WS-737 | 7.375 | 7.125 | .312 | .086 | 7.183 | .094 | 50,050 | 83,690 |
| WS-750 | 7.500 | 7.250 | .312 | .086 | 7.308 | .094 | 50,890 | 85,110 |
| WS-762 | 7.625 | 7.363 | .312 | .086 | 7.423 | .094 | 54,440 | 86,520 |
| WS-775 | 7.750 | 7.486 | .312 | .086 | 7.548 | .094 | 55,330 | 87,940 |
| WS-787 | 7.875 | 7.611 | .312 | .086 | 7.673 | .094 | 56,220 | 89,360 |
| WS-800 | 8.000 | 7.734 | .312 | .086 | 7.798 | .094 | 57,110 | 90,780 |
| WS-825 | 8.250 | 7.972 | .375 | .086 | 8.038 | .094 | 61,820 | 93,620 |
| WS-850 | 8.500 | 8.220 | .375 | .086 | 8.288 | .094 | 63,690 | 96,450 |
| WS-875 | 8.750 | 8.459 | .375 | .086 | 8.528 | .094 | 68,650 | 99,290 |
| WS-900 | 9.000 | 8.707 | .375 | .086 | 8.778 | .094 | 70,620 | 102,130 |
| WS-925 | 9.250 | 8.945 | .375 | .086 | 9.018 | .094 | 75,850 | 104,960 |
| WS-950 | 9.500 | 9.194 | .375 | .086 | 9.268 | .094 | 77,900 | 107,800 |
| WS-975 | 9.750 | 9.432 | .375 | .086 | 9.508 | .094 | 83,390 | 110,640 |
| WS-1000 | 10.000 | 9.680 | .375 | .086 | 9.758 | .094 | 85,530 | 113,470 |
| WS-1025 | 10.250 | 9.918 | .375 | .086 | 9.998 | .094 | 91,290 | 116,310 |
| WS-1050 | 10.500 | 10.166 | .375 | .086 | 10.248 | .094 | 93,520 | 119,150 |
| WS-1075 | 10.750 | 10.405 | .375 | .086 | 10.488 | .094 | 99,540 | 121,990 |
| WS-1100 | 11.000 | 10.653 | .375 | .086 | 10.738 | .094 | 101,860 | 124,820 |

¹ Add suffix "-S02" for 302 stainless steel, "-S16" for 316 stainless steel.

² Based on a groove material yield strength of 45,000 psi and a safety factor of 2.

³ Based on a safety factor of 3.

⁴ See pages 134-135 for How to Order.

Архангельск (8182)63-90-72
 Астана (7172)727-132
 Астрахань (8512)99-46-04
 Барнаул (3852)73-04-60
 Белгород (4722)40-23-64
 Брянск (4832)59-03-52
 Владивосток (423)249-28-31
 Волгоград (844)278-03-48
 Вологда (8172)26-41-59
 Воронеж (473)204-51-73
 Екатеринбург (343)384-55-89

Иваново (4932)77-34-06
 Ижевск (3412)26-03-58
 Иркутск (395)279-98-46
 Казань (843)206-01-48
 Калининград (4012)72-03-81
 Калуга (4842)92-23-67
 Кемерово (3842)65-04-62
 Киров (8332)68-02-04
 Краснодар (861)203-40-90
 Красноярск (391)204-63-61
 Курск (4712)77-13-04
 Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13
 Москва (495)268-04-70
 Мурманск (8152)59-64-93
 Набережные Челны (8552)20-53-41
 Нижний Новгород (831)429-08-12
 Новокузнецк (3843)20-46-81
 Новосибирск (383)227-86-73
 Омск (3812)21-46-40
 Орел (4862)44-53-42
 Оренбург (3532)37-68-04
 Пенза (8412)22-31-16

Пермь (342)205-81-47
 Ростов-на-Дону (863)308-18-15
 Рязань (4912)46-61-64
 Самара (846)206-03-16
 Санкт-Петербург (812)309-46-40
 Саратов (845)249-38-78
 Севастополь (8692)22-31-93
 Симферополь (3652)67-13-56
 Смоленск (4812)29-41-54
 Сочи (862)225-72-31
 Ставрополь (8652)20-65-13

Сургут (3462)77-98-35
 Тверь (4822)63-31-35
 Томск (3822)98-41-53
 Тула (4872)74-02-29
 Тюмень (3452)66-21-18
 Ульяновск (8422)24-23-59
 Уфа (347)229-48-12
 Хабаровск (4212)92-98-04
 Челябинск (351)202-03-61
 Череповец (8202)49-02-64
 Ярославль (4852)69-52-93

Киргизия (996)312-96-26-47 Казахстан (772)734-952-31 Таджикистан (992)427-82-92-69