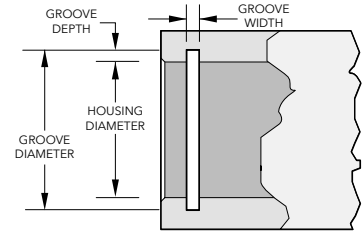
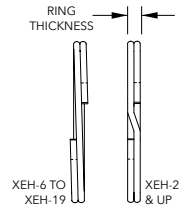
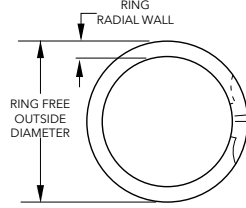




XEH Series

Spirolox® Aerospace Rings Internal

*Compliance with MA 4017 specification



Product Dimensions: All dimensions in millimeters unless otherwise specified.

| TFC Part Number | | | Housing Diameter | | Ring | | | Groove | | Thrust Capacity | |
|-----------------------|------------|--------|------------------|-------|-----------------------|------------------|----------------|---------------|------------|-------------------------------|-----------------------------|
| Carbon Steel | Add Suffix | | mm | in | Outside Diameter (mm) | Radial Wall (mm) | Thickness (mm) | Diameter (mm) | Width (mm) | Groove Yield ¹ (N) | Ring Shear ² (N) |
| | 302 SS | 316 SS | | | | | | | | | |
| XEH-6 ^{3,4} | -S02 | -S16 | 6,00 | 0,236 | 6,35 | 0,33 - 0,53 | 0,38 | 6,30 | 0,51 | 440 | 1,880 |
| XEH-7 ^{3,4} | -S02 | -S16 | 7,00 | 0,276 | 7,37 | 0,33 - 0,53 | 0,38 | 7,32 | 0,51 | 550 | 2,190 |
| XEH-8 ^{3,4} | -S02 | -S16 | 8,00 | 0,315 | 8,51 | 0,51 - 0,71 | 0,38 | 8,43 | 0,51 | 840 | 2,500 |
| XEH-9 ^{3,4} | -S02 | -S16 | 9,00 | 0,354 | 9,60 | 0,64 - 0,84 | 0,64 | 9,50 | 0,74 | 1,100 | 4,740 |
| XEH-10 ^{3,4} | -S02 | -S16 | 10,00 | 0,394 | 10,62 | 0,64 - 0,84 | 0,64 | 10,52 | 0,74 | 1,270 | 5,270 |
| XEH-11 ⁴ | -S02 | -S16 | 11,00 | 0,433 | 11,79 | 0,76 - 0,96 | 0,64 | 11,71 | 0,74 | 1,900 | 5,790 |
| XEH-12 | -S02 | -S16 | 12,00 | 0,472 | 12,89 | 1,02 - 1,22 | 0,60 | 12,70 | 0,70 | 2,050 | 7,950 |
| XEH-13 | -S02 | -S16 | 13,00 | 0,512 | 13,95 | 1,02 - 1,22 | 0,89 | 13,75 | 1,00 | 2,410 | 12,110 |
| XEH-14 | -S02 | -S16 | 14,00 | 0,551 | 15,07 | 1,27 - 1,47 | 0,89 | 14,85 | 1,00 | 2,930 | 13,040 |
| XEH-15 | -S02 | -S16 | 15,00 | 0,591 | 16,14 | 1,27 - 1,47 | 0,89 | 15,90 | 1,00 | 3,290 | 13,970 |
| XEH-16 | -S02 | -S16 | 16,00 | 0,630 | 17,15 | 1,27 - 1,47 | 0,89 | 16,95 | 1,00 | 3,740 | 14,900 |
| XEH-17 | -S02 | -S16 | 17,00 | 0,669 | 18,32 | 1,52 - 1,73 | 0,89 | 18,05 | 1,00 | 4,390 | 15,830 |
| XEH-18 | -S02 | -S16 | 18,00 | 0,709 | 19,39 | 1,52 - 1,73 | 0,89 | 19,10 | 1,00 | 4,820 | 16,760 |
| XEH-19 | -S02 | -S16 | 19,00 | 0,748 | 20,48 | 1,52 - 1,73 | 0,89 | 20,17 | 1,00 | 5,460 | 17,690 |
| XEH-20 | -S02 | -S16 | 20,00 | 0,787 | 21,51 | 1,78 - 1,98 | 0,89 | 21,22 | 1,00 | 5,940 | 18,620 |
| XEH-21 | -S02 | -S16 | 21,00 | 0,827 | 22,56 | 1,78 - 1,98 | 0,89 | 22,27 | 1,00 | 6,550 | 19,550 |
| XEH-22 | -S02 | -S16 | 22,00 | 0,866 | 23,65 | 1,78 - 1,98 | 1,07 | 23,37 | 1,20 | 7,390 | 24,630 |
| XEH-23 | -S02 | -S16 | 23,00 | 0,906 | 24,69 | 2,03 - 2,24 | 1,07 | 24,42 | 1,20 | 7,950 | 25,750 |
| XEH-24 | -S02 | -S16 | 24,00 | 0,945 | 25,73 | 2,03 - 2,24 | 1,07 | 25,47 | 1,20 | 8,650 | 26,870 |
| XEH-25 | -S02 | -S16 | 25,00 | 0,984 | 27,03 | 2,03 - 2,24 | 1,07 | 26,67 | 1,20 | 10,230 | 27,990 |
| XEH-26 | -S02 | -S16 | 26,00 | 1,024 | 28,07 | 2,03 - 2,24 | 1,07 | 27,77 | 1,20 | 11,270 | 29,110 |
| XEH-27 | -S02 | -S16 | 27,00 | 1,063 | 29,11 | 2,49 - 2,69 | 1,27 | 28,87 | 1,40 | 12,360 | 31,170 |
| XEH-28 | -S02 | -S16 | 28,00 | 1,102 | 30,10 | 2,49 - 2,69 | 1,27 | 29,87 | 1,40 | 12,820 | 32,330 |
| XEH-29 | -S02 | -S16 | 29,00 | 1,142 | 31,21 | 2,49 - 2,69 | 1,27 | 30,95 | 1,40 | 13,840 | 33,480 |
| XEH-30 | -S02 | -S16 | 30,00 | 1,181 | 32,28 | 2,49 - 2,69 | 1,27 | 32,00 | 1,40 | 14,610 | 34,640 |
| XEH-31 | -S02 | -S16 | 31,00 | 1,220 | 33,32 | 2,49 - 2,69 | 1,27 | 33,05 | 1,40 | 15,550 | 35,790 |
| XEH-32 | -S02 | -S16 | 32,00 | 1,260 | 34,23 | 2,49 - 2,69 | 1,27 | 34,00 | 1,40 | 15,880 | 36,950 |
| XEH-34 | -S02 | -S16 | 34,00 | 1,339 | 36,46 | 2,87 - 3,07 | 1,27 | 36,20 | 1,40 | 18,210 | 39,260 |
| XEH-35 | -S02 | -S16 | 35,00 | 1,378 | 37,55 | 2,87 - 3,07 | 1,27 | 37,30 | 1,40 | 19,600 | 40,410 |
| XEH-36 | -S02 | -S16 | 36,00 | 1,417 | 38,68 | 2,87 - 3,07 | 1,27 | 38,40 | 1,40 | 21,040 | 41,560 |
| XEH-37 | -S02 | -S16 | 37,00 | 1,457 | 39,60 | 2,87 - 3,07 | 1,27 | 39,40 | 1,40 | 21,620 | 42,720 |
| XEH-38 | -S02 | -S16 | 38,00 | 1,496 | 40,77 | 2,87 - 3,07 | 1,27 | 40,50 | 1,40 | 23,130 | 43,870 |
| XEH-40 | -S02 | -S16 | 40,00 | 1,575 | 42,91 | 3,12 - 3,33 | 1,57 | 42,50 | 1,75 | 24,350 | 57,090 |
| XEH-42 | -S02 | -S16 | 42,00 | 1,654 | 45,01 | 3,12 - 3,33 | 1,57 | 44,60 | 1,75 | 26,590 | 59,590 |
| XEH-45 | -S02 | -S16 | 45,00 | 1,772 | 48,13 | 3,12 - 3,33 | 1,57 | 47,70 | 1,75 | 29,590 | 64,230 |
| XEH-46 | -S02 | -S16 | 46,00 | 1,811 | 49,28 | 3,12 - 3,33 | 1,57 | 48,80 | 1,75 | 31,370 | 65,660 |
| XEH-47 | -S02 | -S16 | 47,00 | 1,850 | 50,32 | 3,89 - 4,09 | 1,57 | 49,90 | 1,75 | 33,190 | 67,080 |
| XEH-48 | -S02 | -S16 | 48,00 | 1,890 | 51,46 | 3,89 - 4,09 | 1,57 | 51,00 | 1,75 | 35,070 | 68,510 |
| XEH-50 | -S02 | -S16 | 50,00 | 1,969 | 53,66 | 3,89 - 4,09 | 1,57 | 53,20 | 1,75 | 38,960 | 71,370 |
| XEH-52 | -S02 | -S16 | 52,00 | 2,047 | 54,30 | 3,12 - 3,33 | 1,25 | 53,79 | 1,42 | 22,790 | 59,090 |
| XEH-53 | -S02 | -S16 | 53,00 | 2,087 | 55,32 | 3,12 - 3,33 | 1,25 | 54,79 | 1,42 | 23,230 | 60,230 |
| XEH-55 | -S02 | -S16 | 55,00 | 2,165 | 57,38 | 3,38 - 3,58 | 1,25 | 56,85 | 1,42 | 24,910 | 62,500 |
| XEH-56 | -S02 | -S16 | 56,00 | 2,205 | 58,40 | 3,38 - 3,58 | 1,25 | 57,85 | 1,42 | 25,360 | 63,640 |
| XEH-58 | -S02 | -S16 | 58,00 | 2,283 | 60,43 | 3,38 - 3,58 | 1,25 | 59,85 | 1,42 | 26,270 | 65,910 |
| XEH-59 | -S02 | -S16 | 59,00 | 2,323 | 61,54 | 3,38 - 3,58 | 1,25 | 60,93 | 1,42 | 27,870 | 67,050 |
| XEH-60 | -S02 | -S16 | 60,00 | 2,362 | 62,57 | 3,38 - 3,58 | 1,25 | 61,99 | 1,42 | 29,220 | 68,180 |
| XEH-61 | -S02 | -S16 | 61,00 | 2,402 | 63,65 | 3,63 - 3,84 | 1,25 | 63,09 | 1,42 | 31,190 | 69,320 |
| XEH-62 | -S02 | -S16 | 62,00 | 2,441 | 64,70 | 3,63 - 3,84 | 1,25 | 64,09 | 1,42 | 31,700 | 70,460 |
| XEH-63 | -S02 | -S16 | 63,00 | 2,480 | 65,70 | 3,63 - 3,84 | 1,25 | 65,09 | 1,42 | 32,220 | 71,590 |
| XEH-64 | -S02 | -S16 | 64,00 | 2,520 | 66,77 | 3,63 - 3,84 | 1,25 | 66,19 | 1,42 | 34,290 | 72,730 |

¹ Based on a groove material yield strength of 310 N/mm² and a safety factor of 2.

² Based on a safety factor of 3.

³ No removal notch.

⁴ Square edge wire.

* Contact TFC for details/information on how to order parts to be in compliance with this specification.



| TFC Part Number | | | Housing Diameter | | Ring | | | Groove | | Thrust Capacity | |
|-----------------|------------|--------|------------------|--------|-----------------------|------------------|----------------|---------------|------------|-------------------------------|-----------------------------|
| Carbon Steel | Add Suffix | | mm | in | Outside Diameter (mm) | Radial Wall (mm) | Thickness (mm) | Diameter (mm) | Width (mm) | Groove Yield ¹ (N) | Ring Shear ² (N) |
| | 302 SS | 316 SS | | | | | | | | | |
| XEH-65 | -S02 | -S16 | 65,00 | 2,559 | 67,82 | 3,63 - 3,84 | 1,25 | 67,19 | 1,42 | 34,820 | 73,870 |
| XEH-66 | -S02 | -S16 | 66,00 | 2,598 | 68,80 | 3,63 - 3,84 | 1,25 | 68,19 | 1,42 | 35,360 | 75,000 |
| XEH-67 | -S02 | -S16 | 67,00 | 2,638 | 69,90 | 3,63 - 3,84 | 1,25 | 69,25 | 1,42 | 36,870 | 76,140 |
| XEH-68 | -S02 | -S16 | 68,00 | 2,677 | 70,94 | 3,89 - 4,09 | 1,25 | 70,29 | 1,42 | 38,090 | 77,270 |
| XEH-69 | -S02 | -S16 | 69,00 | 2,717 | 71,94 | 3,89 - 4,09 | 1,25 | 71,29 | 1,42 | 38,650 | 78,410 |
| XEH-70 | -S02 | -S16 | 70,00 | 2,756 | 72,94 | 3,89 - 4,09 | 1,25 | 72,29 | 1,42 | 39,210 | 79,550 |
| XEH-71 | -S02 | -S16 | 71,00 | 2,795 | 73,99 | 3,89 - 4,09 | 1,25 | 73,29 | 1,42 | 39,770 | 80,680 |
| XEH-72 | -S02 | -S16 | 72,00 | 2,835 | 75,04 | 4,11 - 4,39 | 1,25 | 74,39 | 1,42 | 40,910 | 81,510 |
| XEH-75 | -S02 | -S16 | 75,00 | 2,953 | 78,07 | 4,11 - 4,39 | 1,25 | 77,39 | 1,42 | 43,830 | 85,230 |
| XEH-78 | -S02 | -S16 | 78,00 | 3,071 | 81,21 | 4,11 - 4,39 | 1,55 | 80,45 | 1,73 | 46,730 | 109,910 |
| XEH-80 | -S02 | -S16 | 80,00 | 3,150 | 83,22 | 4,37 - 4,62 | 1,55 | 82,49 | 1,73 | 48,700 | 112,730 |
| XEH-82 | -S02 | -S16 | 82,00 | 3,228 | 85,28 | 4,37 - 4,62 | 1,55 | 84,55 | 1,73 | 51,120 | 115,550 |
| XEH-85 | -S02 | -S16 | 85,00 | 3,346 | 88,38 | 4,62 - 4,88 | 1,55 | 87,65 | 1,73 | 55,060 | 119,780 |
| XEH-88 | -S02 | -S16 | 88,00 | 3,465 | 91,45 | 4,62 - 4,88 | 1,55 | 90,69 | 1,73 | 57,860 | 124,000 |
| XEH-90 | -S02 | -S16 | 90,00 | 3,543 | 93,58 | 4,88 - 5,13 | 1,55 | 92,79 | 1,73 | 61,370 | 126,820 |
| XEH-92 | -S02 | -S16 | 92,00 | 3,622 | 95,66 | 4,88 - 5,13 | 1,55 | 94,85 | 1,73 | 64,070 | 129,640 |
| XEH-95 | -S02 | -S16 | 95,00 | 3,740 | 98,69 | 4,88 - 5,13 | 1,55 | 97,85 | 1,73 | 66,160 | 133,870 |
| XEH-98 | -S02 | -S16 | 98,00 | 3,858 | 101,83 | 5,13 - 5,38 | 1,55 | 100,99 | 1,73 | 71,590 | 138,090 |
| XEH-100 | -S02 | -S16 | 100,00 | 3,937 | 103,83 | 5,13 - 5,38 | 1,55 | 102,99 | 1,73 | 73,050 | 140,910 |
| XEH-102 | -S02 | -S16 | 102,00 | 4,016 | 106,00 | 5,38 - 5,64 | 1,55 | 105,15 | 1,73 | 78,490 | 143,730 |
| XEH-105 | -S02 | -S16 | 105,00 | 4,134 | 109,00 | 5,38 - 5,64 | 1,55 | 108,15 | 1,73 | 80,800 | 147,960 |
| XEH-108 | -S02 | -S16 | 108,00 | 4,252 | 112,22 | 5,64 - 5,89 | 1,55 | 111,31 | 1,73 | 87,310 | 152,190 |
| XEH-110 | -S02 | -S16 | 110,00 | 4,331 | 114,25 | 5,64 - 5,89 | 1,55 | 113,31 | 1,73 | 88,510 | 155,000 |
| XEH-112 | -S02 | -S16 | 112,00 | 4,409 | 116,44 | 5,89 - 6,15 | 1,55 | 115,45 | 1,73 | 94,370 | 157,820 |
| XEH-115 | -S02 | -S16 | 115,00 | 4,528 | 119,44 | 5,89 - 6,15 | 1,55 | 118,45 | 1,73 | 96,890 | 162,050 |
| XEH-120 | -S02 | -S16 | 120,00 | 4,724 | 124,54 | 6,20 - 6,45 | 1,83 | 123,55 | 2,00 | 104,030 | 199,640 |
| XEH-125 | -S02 | -S16 | 125,00 | 4,921 | 129,59 | 6,20 - 6,45 | 1,83 | 128,55 | 2,00 | 108,360 | 207,960 |
| XEH-130 | -S02 | -S16 | 130,00 | 5,118 | 134,71 | 6,20 - 6,45 | 1,83 | 133,65 | 2,00 | 115,860 | 216,280 |
| XEH-135 | -S02 | -S16 | 135,00 | 5,315 | 139,74 | 6,20 - 6,45 | 1,83 | 138,62 | 2,00 | 119,000 | 224,600 |
| XEH-140 | -S02 | -S16 | 140,00 | 5,512 | 144,87 | 6,20 - 6,45 | 1,83 | 143,72 | 2,00 | 126,820 | 232,920 |
| XEH-145 | -S02 | -S16 | 145,00 | 5,709 | 150,04 | 6,20 - 6,45 | 1,83 | 148,82 | 2,00 | 134,880 | 241,230 |
| XEH-150 | -S02 | -S16 | 150,00 | 5,906 | 155,07 | 6,20 - 6,45 | 1,83 | 153,82 | 2,00 | 139,530 | 249,550 |
| XEH-155 | -S02 | -S16 | 155,00 | 6,102 | 160,72 | 7,72 - 8,03 | 2,18 | 159,40 | 2,40 | 166,080 | 307,190 |
| XEH-160 | -S02 | -S16 | 160,00 | 6,299 | 165,74 | 7,72 - 8,03 | 2,18 | 164,40 | 2,40 | 171,433 | 317,100 |
| XEH-165 | -S02 | -S16 | 165,00 | 6,496 | 170,77 | 7,72 - 8,03 | 2,18 | 169,40 | 2,40 | 176,790 | 327,010 |
| XEH-170 | -S02 | -S16 | 170,00 | 6,693 | 176,05 | 7,72 - 8,03 | 2,18 | 174,60 | 2,40 | 190,430 | 336,920 |
| XEH-175 | -S02 | -S16 | 175,00 | 6,890 | 181,05 | 7,72 - 8,03 | 2,18 | 179,60 | 2,40 | 196,030 | 346,830 |
| XEH-180 | -S02 | -S16 | 180,00 | 7,087 | 186,38 | 7,72 - 8,03 | 2,18 | 184,88 | 2,40 | 213,900 | 356,740 |
| XEH-185 | -S02 | -S16 | 185,00 | 7,283 | 191,10 | 7,72 - 8,03 | 2,18 | 189,88 | 2,40 | 219,840 | 366,650 |
| XEH-190 | -S02 | -S16 | 190,00 | 7,480 | 196,45 | 7,72 - 8,03 | 2,18 | 194,88 | 2,40 | 225,790 | 376,560 |
| XEH-195 | -S02 | -S16 | 195,00 | 7,677 | 201,74 | 7,72 - 8,03 | 2,18 | 200,14 | 2,40 | 244,070 | 386,460 |
| XEH-200 | -S02 | -S16 | 200,00 | 7,874 | 206,76 | 7,72 - 8,03 | 2,18 | 205,14 | 2,40 | 250,330 | 396,370 |
| XEH-210 | -S02 | -S16 | 210,00 | 8,268 | 217,10 | 9,32 - 9,63 | 2,18 | 215,40 | 2,40 | 276,140 | 416,490 |
| XEH-220 | -S02 | -S16 | 220,00 | 8,661 | 227,40 | 9,32 - 9,63 | 2,18 | 225,64 | 2,40 | 257,150 | 436,010 |
| XEH-230 | -S02 | -S16 | 230,00 | 9,055 | 237,73 | 9,32 - 9,63 | 2,18 | 235,90 | 2,40 | 330,450 | 455,830 |
| XEH-240 | -S02 | -S16 | 240,00 | 9,449 | 247,80 | 9,32 - 9,63 | 2,18 | 245,90 | 2,40 | 344,810 | 475,650 |
| XEH-250 | -S02 | -S16 | 250,00 | 9,843 | 258,10 | 9,32 - 9,63 | 2,18 | 256,16 | 2,40 | 375,010 | 495,470 |
| XEH-260 | -S02 | -S16 | 260,00 | 10,236 | 268,43 | 9,32 - 9,63 | 2,18 | 266,40 | 2,40 | 405,210 | 515,290 |
| XEH-270 | -S02 | -S16 | 270,00 | 10,630 | 278,50 | 9,32 - 9,63 | 2,18 | 276,40 | 2,40 | 420,790 | 535,100 |
| XEH-280 | -S02 | -S16 | 280,00 | 11,024 | 288,82 | 9,32 - 9,63 | 2,18 | 286,66 | 2,40 | 454,100 | 554,920 |

¹ Based on a groove material yield strength of 310 N/mm² and a safety factor of 2.

² Based on a safety factor of 3.

* Contact TFC for details/information on how to order parts to be in compliance with this specification.