

外径基准型(最大压缩量45%~75%)

圆形截面圆柱形压缩弹簧

J2
弹簧

| ①代号 | 类型 | ④材质 | 弹簧常数 |
|----------------------------------|-------|------------|------|
| WSUHA WSYHA WSAHA WSBHA | 外径基准型 | SUS304-WPB | ±10% |

闭口端
(▲尺寸两端面未进行磨削加工)

闭口端
(两端面均经磨削加工)

外径 D 10mm以下 $0_{-0.5}^0$ mm
12mm以上 $0_{-0.8}^0$ mm

自由长度 L 50以下 ±1.5mm
55以上 ±2.5mm

视角标准：第一视角



①代号 - ②D - ③L
WSUSA - D3 - L5

弹簧系数

| D | WSUHA | WSYHA | WSAHA | WSBHA | WSCHB | WSEHB | WSFHC | WSGHC | WSHHD |
|----|---------------------------|---------------------------|--------------------------|--------------------------|-------------------------|------------------------|------------------------|------------------------|-------------------------|
| 2 | - | 0.05(0.005) | 0.2(0.02) | 0.3(0.03) | 0.5(0.05) | - | - | - | - |
| 3 | - | - | - | - | - | 1.5(0.15) | - | - | - |
| 4 | 0.05N/mm (0.005kgf/mm) | 0.098N/mm (0.01kgf/mm) | - | - | - | - | 2(0.2) | 2.9(0.3) | 4.9(0.5) |
| 5 | | | - | - | - | - | - | - | - |
| 6 | - | - | - | - | - | - | - | - | - |
| 8 | - | - | 0.29N/mm (0.03kgf/mm) | 0.49N/mm (0.05kgf/mm) | 0.98N/mm (0.1kgf/mm) | 2.0N/mm (0.2kgf/mm) | 2.9N/mm (0.3kgf/mm) | 5.9N/mm (0.6kgf/mm) | 9.8N/mm (1.0kgf/mm) |
| 10 | - | - | - | - | - | - | - | - | - |
| 12 | - | 0.2N/mm (0.02kgf/mm) | - | - | - | - | - | - | - |
| 13 | - | | - | - | - | - | - | - | - |
| 14 | - | - | - | - | - | - | - | 9.8N/mm (1.0kgf/mm) | 19.6N/mm (2.0kgf/mm) |
| 16 | - | - | - | - | - | - | - | - | - |
| 20 | - | 0.3(0.03) | 0.5(0.05) | 0.98(0.1) | 2.9(0.3) | 3.9(0.4) | 4.9(0.5) | 14.7(1.5) | 29.4(3.0) |
| S | S=L×70% | S=L×75% | S=L×60% | S=L×45% | S=L×40% | S=L×40% | S=L×35% | S=L×30% | S=L×25% |

▲D12仅限WSYHA、WSAHA、WSBHA、WSHHD型。D14仅限WSHHD。

▲蓝色型号和参数均为外径基准型(最大压缩量45%~75%)型号

WSUSA:S(工作行程)=L×Fa%

| ①代号 | ②D | ③L | d | 压紧长度 | S | 载荷 | | Fa% | ①代号 | ②D | ③L | d | 压紧长度 | S | 载荷 | | Fa% | | | | | |
|-------|----|----|------|------|------|-------|-------|-----|-------|------|-----|------|------|-------|------|-------|-----|------|-----|----|------|-------|
| | | | | | | (N) | (kgf) | | | | | | | | (N) | (kgf) | | | | | | |
| WSUHA | 3 | 5 | 0.15 | 1.1 | 4 | 0.18 | 0.018 | 70 | WSUHA | 6 | 10 | 0.26 | 2 | 7 | 0.35 | 0.036 | 70 | | | | | |
| | | | 0.18 | 2.5 | 7 | 0.35 | 0.036 | | | | | 0.3 | 3.3 | 11 | 0.53 | 0.054 | | | | | | |
| | | | 0.18 | 2.5 | 11 | 0.53 | 0.054 | | | | | 0.3 | 3.3 | 14 | 0.70 | 0.071 | | | | | | |
| | | | 0.2 | 3.3 | 14 | 0.70 | 0.071 | | | | | 0.35 | 6.5 | 18 | 0.88 | 0.089 | | | | | | |
| | | | 0.23 | 6.2 | 18 | 0.88 | 0.089 | | | | | 0.35 | 6.5 | 21 | 1.05 | 0.107 | | | | | | |
| | | | 0.23 | 6.2 | 21 | 1.05 | 0.107 | | | | | 0.35 | 6.5 | 25 | 1.23 | 0.125 | | | | | | |
| | 4 | 5 | 0.18 | 1.2 | 4 | 0.18 | 0.018 | | | 0.35 | 6.5 | 28 | 1.40 | 0.143 | 8 | 10 | | 0.3 | 1.9 | 7 | 0.35 | 0.036 |
| | | | 0.2 | 1.7 | 7 | 0.35 | 0.036 | | | 0.35 | 3.2 | 11 | 0.53 | 0.054 | | | | | | | | |
| | | | 0.23 | 3 | 11 | 0.53 | 0.054 | | | 0.35 | 3.2 | 14 | 0.70 | 0.071 | | | | | | | | |
| | | | 0.23 | 3 | 14 | 0.70 | 0.071 | | | 0.4 | 5.6 | 18 | 0.88 | 0.089 | | | | | | | | |
| | | | 0.26 | 4.9 | 18 | 0.88 | 0.089 | | | 0.4 | 5.6 | 21 | 1.05 | 0.107 | | | | | | | | |
| | | | 0.26 | 4.9 | 21 | 1.05 | 0.107 | | | 0.45 | 9.3 | 28 | 1.40 | 0.143 | | | | | | | | |
| | 5 | 5 | 0.2 | 1.2 | 4 | 0.18 | 0.018 | | | 0.45 | 9.3 | 32 | 1.58 | 0.161 | 50 | 45 | | 0.45 | 9.3 | 32 | 1.58 | 0.161 |
| | | | 0.23 | 1.8 | 7 | 0.35 | 0.036 | | | 0.45 | 9.3 | 35 | 1.75 | 0.179 | | | | | | | | |
| | | | 0.26 | 2.9 | 11 | 0.53 | 0.054 | | | - | - | - | - | - | | | | | | | | |
| 0.29 | | | 4.5 | 14 | 0.70 | 0.071 | - | - | - | - | - | | | | | | | | | | | |
| 0.29 | | | 4.5 | 18 | 0.88 | 0.089 | - | - | - | - | - | | | | | | | | | | | |
| 0.29 | | | 4.5 | 21 | 1.05 | 0.107 | - | - | - | - | - | | | | | | | | | | | |



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外径基准型(最大压缩量45%~75%)

圆形截面圆柱形压缩弹簧

WSUSA:S(工作行程)=L×Fa%

| ①代号 | ②D | ③L | d | 压紧长度 | S | 载荷 | | Fa% |
|-------|------|------|-------|-------|-------|-------|--------|-----|
| | | | | | | (N) | (kgf) | |
| WSYHA | 2 | 5 | 0.13 | 1.5 | 3 | 0.15 | 0.015 | 60 |
| | | 10 | 0.13 | 1.5 | 6 | 0.29 | 0.03 | |
| | | 15 | 0.15 | 2.7 | 9 | 0.44 | 0.045 | |
| | | 20 | 0.15 | 2.7 | 12 | 0.59 | 0.06 | |
| | | 25 | 0.18 | 6.3 | 15 | 0.74 | 0.075 | |
| | 30 | 0.18 | 6.3 | 18 | 0.88 | 0.09 | | |
| | 3 | 5 | 0.16 | 0.92 | 3.75 | 0.37 | 0.0375 | 75 |
| | | 10 | 0.2 | 2 | 7.5 | 0.74 | 0.075 | |
| | | 15 | 0.23 | 3.45 | 11.25 | 1.1 | 0.1125 | |
| | | 20 | 0.23 | 3.45 | 15 | 1.47 | 0.15 | |
| | | 25 | 0.26 | 6.24 | 15 | 1.47 | 0.15 | |
| | 30 | 0.26 | 6.24 | 18 | 1.77 | 0.18 | | |
| | 4 | 5 | 0.2 | 1.05 | 3.75 | 0.37 | 0.0375 | 75 |
| | | 10 | 0.23 | 1.84 | 7.5 | 0.74 | 0.075 | |
| | | 15 | 0.26 | 2.86 | 11.25 | 1.1 | 0.1125 | |
| | | 20 | 0.29 | 4.64 | 15 | 1.47 | 0.15 | |
| | | 25 | 0.3 | 5.4 | 18.75 | 1.84 | 0.1875 | |
| | 30 | 0.3 | 5.4 | 22.5 | 2.26 | 0.23 | | |
| | 5 | 5 | 0.23 | 1.15 | 3.75 | 0.37 | 0.0375 | 75 |
| | | 10 | 0.26 | 1.82 | 7.5 | 0.74 | 0.075 | |
| | | 15 | 0.3 | 3.15 | 11.25 | 1.1 | 0.1125 | |
| | | 20 | 0.3 | 3.15 | 15 | 1.47 | 0.15 | |
| | | 25 | 0.32 | 4.16 | 18.75 | 1.84 | 0.1875 | |
| | | 30 | 0.32 | 4.16 | 22.5 | 2.26 | 0.23 | |
| | | 35 | 0.35 | 6 | 26.25 | 2.55 | 0.26 | |
| | 40 | 0.35 | 6 | 30 | 2.94 | 0.3 | | |
| | 6 | 5 | 0.26 | 1.24 | 3.5 | 0.34 | 0.035 | 70 |
| | | 10 | 0.3 | 2.1 | 7.5 | 0.74 | 0.075 | |
| | | 15 | 0.32 | 2.64 | 11.25 | 1.10 | 0.1125 | |
| | | 20 | 0.35 | 3.85 | 15 | 1.47 | 0.15 | |
| | | 25 | 0.38 | 5.32 | 18.75 | 1.84 | 0.1875 | |
| | | 30 | 0.4 | 6.8 | 22.5 | 2.21 | 0.225 | |
| | | 35 | 0.4 | 6.8 | 26.25 | 2.55 | 0.26 | |
| | 8 | 10 | 0.35 | 2.19 | 7.5 | 0.74 | 0.075 | 75 |
| | | 15 | 0.4 | 3.4 | 11.25 | 1.10 | 0.1125 | |
| | | 20 | 0.4 | 3.4 | 15 | 1.47 | 0.15 | |
| | | 25 | 0.45 | 5.4 | 18.75 | 1.84 | 0.1875 | |
| | | 30 | 0.45 | 5.4 | 22.5 | 2.21 | 0.225 | |
| | | 35 | 0.5 | 8.3 | 26.25 | 2.55 | 0.26 | |
| | | 40 | 0.5 | 8.3 | 30 | 2.94 | 0.3 | |
| 45 | | 0.5 | 8.3 | 33.75 | 3.33 | 0.34 | | |
| 50 | 0.55 | 12.7 | 35 | 3.43 | 0.35 | | | |
| 10 | 10 | 0.5 | 3.25 | 6 | 1.18 | 0.12 | 60 | |
| | 15 | 0.5 | 3.25 | 11.25 | 2.21 | 0.225 | | |
| | 20 | 0.55 | 4.4 | 15 | 2.94 | 0.3 | | |
| | 25 | 0.55 | 4.4 | 18.75 | 3.68 | 0.375 | | |
| | 30 | 0.6 | 6.15 | 22.5 | 4.41 | 0.45 | | |
| | 35 | 0.6 | 6.3 | 26.25 | 5.10 | 0.52 | | |
| | 40 | 0.6 | 6.3 | 30 | 5.88 | 0.6 | | |
| 45 | 0.65 | 8.45 | 33.75 | 6.62 | 0.675 | | | |
| 50 | 0.65 | 8.45 | 37.5 | 7.35 | 0.75 | | | |

| ①代号 | ②D | ③L | d | 压紧长度 | S | 载荷 | | Fa% |
|-------|-----|------|------|-------|-------|-------|-------|-----|
| | | | | | | (N) | (kgf) | |
| WSYHA | 12 | 15 | 0.55 | 3.3 | 11.25 | 2.206 | 0.225 | 75 |
| | | 20 | 0.55 | 3.3 | 15 | 2.942 | 0.3 | |
| | | 25 | 0.6 | 4.2 | 18.75 | 3.68 | 0.375 | |
| | | 30 | 0.65 | 5.53 | 22.5 | 4.41 | 0.45 | |
| | | 35 | 0.65 | 5.53 | 26.25 | 5.15 | 0.525 | |
| | 40 | 0.7 | 7.35 | 30 | 5.88 | 0.6 | | |
| | 13 | 45 | 0.7 | 7.35 | 33.75 | 6.62 | 0.675 | 75 |
| | | 50 | 0.7 | 7.35 | 37.5 | 7.35 | 0.75 | |
| | | 60 | 0.8 | 13.6 | 45 | 8.83 | 0.9 | |
| | | 70 | 0.8 | 13.6 | 52.5 | 10.3 | 1.05 | |
| | | 80 | 0.8 | 13.6 | 60 | 11.77 | 1.2 | |
| | 15 | 50 | 0.9 | 10.8 | 37.5 | 7.35 | 0.75 | 70 |
| | | 60 | 0.9 | 10.8 | 45 | 8.83 | 0.9 | |
| | | 70 | 1 | 17 | 52.5 | 10.3 | 1.05 | |
| | | 80 | 1 | 17 | 60 | 11.77 | 1.2 | |
| | | 15 | 0.6 | 3.75 | 10.5 | 2.06 | 0.21 | |
| | 16 | 20 | 0.6 | 3.75 | 15 | 2.94 | 0.3 | 75 |
| | | 25 | 0.65 | 4.9 | 18.75 | 3.68 | 0.375 | |
| | | 30 | 0.65 | 4.9 | 22.5 | 4.41 | 0.45 | |
| | | 35 | 0.7 | 6.3 | 26.25 | 5.15 | 0.525 | |
| | | 40 | 0.75 | 8.25 | 30 | 5.88 | 0.6 | |
| | | 45 | 0.75 | 8.25 | 33.75 | 6.62 | 0.675 | |
| | | 50 | 0.8 | 11.2 | 37.5 | 7.35 | 0.75 | |
| | 60 | 0.8 | 11.2 | 45 | 8.83 | 0.9 | | |
| | 20 | 70 | 0.85 | 14.45 | 52.5 | 10.3 | 1.05 | 60 |
| | | 80 | 0.85 | 14.45 | 60 | 11.77 | 1.2 | |
| | | 15 | 0.7 | 4.2 | 9 | 1.77 | 0.18 | |
| | | 20 | 0.7 | 4.2 | 15 | 2.94 | 0.3 | |
| | | 25 | 0.7 | 4.2 | 18.75 | 3.68 | 0.375 | |
| | | 30 | 0.75 | 5.44 | 22.5 | 4.41 | 0.45 | |
| | | 35 | 0.8 | 6.8 | 26.25 | 5.15 | 0.525 | |
| | | 40 | 0.8 | 6.8 | 30 | 5.88 | 0.6 | |
| | 20 | 45 | 0.85 | 8.5 | 33.75 | 6.62 | 0.675 | 75 |
| | | 50 | 0.9 | 10.8 | 37.5 | 7.35 | 0.75 | |
| | | 60 | 0.9 | 10.8 | 45 | 8.83 | 0.9 | |
| | | 70 | 1 | 17 | 52.5 | 10.3 | 1.05 | |
| | | 80 | 1 | 17 | 60 | 11.77 | 1.2 | |
| | | 20 | 0.9 | 5.4 | 12 | 3.53 | 0.36 | |
| | | 25 | 0.9 | 5.4 | 18.75 | 5.49 | 0.56 | |
| | | 30 | 0.9 | 5.4 | 22.5 | 6.62 | 0.675 | |
| 20 | 35 | 1 | 7.5 | 26.25 | 7.65 | 0.78 | 75 | |
| | 40 | 1 | 7.5 | 30 | 8.83 | 0.9 | | |
| | 45 | 1 | 7.5 | 33.75 | 9.90 | 1.01 | | |
| | 50 | 1.1 | 11 | 37.5 | 11.03 | 1.125 | | |
| | 60 | 1.1 | 11 | 45 | 13.24 | 1.35 | | |
| 70 | 1.2 | 15.6 | 52.5 | 15.45 | 1.58 | | | |
| 80 | 1.2 | 15.6 | 60 | 17.65 | 1.8 | | | |

- ▲所有WSZHA、WSYHA型的两端均为进行磨削加工。
- ▲压紧长度为参考值。因批次不同会有少许差异。
- ▲使用次数：100万次

J2
弹簧



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外径基准型(最大压缩量45%~75%)

圆形截面圆柱形压缩弹簧

J2
弹簧

WSUSA:S(工作行程)=L×Fa%

| ①代号 | ②D | ③L | d | 压紧长度 | S | 载荷 | | Fa% |
|-------|----|------|------|-------|------|------|-------|-----|
| | | | | | | (N) | (kgf) | |
| WSAHA | 2 | 5 | 0.18 | 2 | 2.5 | 0.49 | 0.05 | 50 |
| | | 10 | 0.18 | 2 | 5 | 0.98 | 0.1 | |
| | | 15 | 0.23 | 6 | 7.5 | 1.5 | 0.15 | |
| | | 20 | 0.23 | 6 | 10 | 2 | 0.2 | |
| | | 25 | 0.26 | 11.2 | 12.5 | 2.5 | 0.25 | |
| | | 30 | 0.26 | 11.2 | 15 | 2.9 | 0.3 | |
| | 3 | 5 | 0.23 | 1.6 | 3 | 0.9 | 0.09 | 60 |
| | | 10 | 0.25 | 2.1 | 6 | 1.8 | 0.18 | |
| | | 15 | 0.3 | 4.5 | 9 | 2.6 | 0.27 | |
| | | 20 | 0.3 | 4.5 | 12 | 3.5 | 0.36 | |
| | | 25 | 0.32 | 6.4 | 15 | 4.4 | 0.45 | |
| | | 30 | 0.32 | 6.4 | 18 | 5.3 | 0.54 | |
| | 4 | 5 | 0.26 | 1.4 | 3 | 0.9 | 0.09 | 60 |
| | | 10 | 0.29 | 2 | 6 | 1.8 | 0.18 | |
| | | 15 | 0.32 | 3 | 9 | 2.6 | 0.27 | |
| | | 20 | 0.38 | 6.1 | 12 | 3.5 | 0.36 | |
| | | 25 | 0.38 | 6.1 | 15 | 4.4 | 0.45 | |
| | | 30 | 0.4 | 8 | 18 | 5.3 | 0.54 | |
| | 5 | 5 | 0.45 | 14.4 | 24 | 7.1 | 0.72 | 60 |
| | | 10 | 0.45 | 14.4 | 27 | 7.9 | 0.81 | |
| | | 15 | 0.45 | 14.4 | 30 | 8.8 | 0.9 | |
| | | 20 | 0.5 | 23 | 36 | 10.6 | 1.08 | |
| | | 25 | 0.3 | 1.65 | 3 | 0.9 | 0.09 | |
| | | 30 | 0.35 | 2.71 | 6 | 1.8 | 0.18 | |
| | 6 | 5 | 0.38 | 3.61 | 9 | 2.6 | 0.27 | 60 |
| | | 10 | 0.38 | 3.61 | 12 | 3.5 | 0.36 | |
| | | 15 | 0.45 | 7.43 | 15 | 4.4 | 0.45 | |
| | | 20 | 0.45 | 7.43 | 18 | 5.3 | 0.54 | |
| | | 25 | 0.5 | 12.25 | 21 | 6.2 | 0.63 | |
| | | 30 | 0.5 | 12.25 | 24 | 7.1 | 0.72 | |
| | 7 | 5 | 0.55 | 19.53 | 30 | 8.8 | 0.9 | 60 |
| | | 10 | 0.55 | 19.53 | 36 | 10.6 | 1.08 | |
| | | 15 | 0.32 | 1.5 | 3 | 0.9 | 0.09 | |
| | | 20 | 0.4 | 3 | 6 | 1.8 | 0.18 | |
| | | 25 | 0.4 | 3 | 9 | 2.6 | 0.27 | |
| | | 30 | 0.5 | 7 | 12 | 3.5 | 0.36 | |
| | 8 | 5 | 0.5 | 7 | 15 | 4.4 | 0.45 | 60 |
| | | 10 | 0.5 | 7 | 18 | 5.3 | 0.54 | |
| | | 15 | 0.55 | 11 | 21 | 6.2 | 0.63 | |
| | | 20 | 0.55 | 11 | 24 | 7.1 | 0.72 | |
| | | 25 | 0.6 | 17.4 | 27 | 7.9 | 0.81 | |
| | | 30 | 0.6 | 17.4 | 30 | 8.8 | 0.9 | |
| | 9 | 5 | 0.65 | 23.4 | 36 | 10.6 | 1.08 | 60 |
| | | 10 | 0.65 | 23.4 | 42 | 12.4 | 1.26 | |
| | | 15 | 0.45 | 2.6 | 6 | 1.8 | 0.18 | |
| | | 20 | 0.5 | 3.6 | 9 | 2.6 | 0.27 | |
| | | 25 | 0.5 | 3.6 | 12 | 3.5 | 0.36 | |
| | | 30 | 0.55 | 5.9 | 15 | 4.4 | 0.45 | |
| 10 | 5 | 0.65 | 10.4 | 18 | 5.3 | 0.54 | 60 | |
| | 10 | 0.65 | 10.4 | 21 | 6.2 | 0.63 | | |
| | 15 | 0.7 | 15.4 | 24 | 7.1 | 0.72 | | |
| | 20 | 0.75 | 21 | 22 | 7.9 | 0.81 | | |
| | 25 | 0.75 | 21 | 27 | 8.8 | 0.9 | | |
| | 30 | 0.8 | 27.6 | 31 | 10.6 | 1.08 | | |
| 11 | 5 | 0.8 | 27.6 | 40 | 12.4 | 1.26 | 60 | |
| | 10 | 0.8 | 27.6 | 48 | 14.1 | 1.44 | | |
| | 15 | 0.55 | 3.3 | 6 | 1.8 | 0.18 | | |
| | 20 | 0.6 | 4.2 | 9 | 2.6 | 0.27 | | |
| | 25 | 0.65 | 6.2 | 12 | 3.5 | 0.36 | | |
| | 30 | 0.7 | 8.4 | 18 | 5.3 | 0.54 | | |
| 12 | 5 | 0.7 | 8.4 | 21 | 6.2 | 0.63 | 60 | |
| | 10 | 0.7 | 8.4 | 24 | 7.1 | 0.72 | | |
| | 15 | 0.8 | 15.2 | 27 | 7.9 | 0.81 | | |
| | 20 | 0.8 | 15.2 | 30 | 8.8 | 0.9 | | |
| | 25 | 0.85 | 20.4 | 36 | 10.6 | 1.08 | | |
| | 30 | 0.85 | 20.4 | 42 | 12.4 | 1.26 | | |
| 13 | 5 | 0.85 | 20.4 | 48 | 14.1 | 1.44 | 60 | |
| | 10 | 0.6 | 3.5 | 9 | 2.6 | 0.27 | | |
| | 15 | 0.7 | 5.6 | 12 | 3.5 | 0.36 | | |
| | 20 | 0.7 | 5.6 | 15 | 4.4 | 0.45 | | |
| | 25 | 0.8 | 9.6 | 18 | 5.3 | 0.54 | | |
| | 30 | 0.8 | 9.6 | 21 | 6.2 | 0.63 | | |
| 14 | 5 | 0.8 | 9.6 | 24 | 7.1 | 0.72 | 60 | |
| | 10 | 0.9 | 16.2 | 27 | 7.9 | 0.81 | | |
| | 15 | 0.9 | 16.2 | 30 | 8.8 | 0.9 | | |
| | 20 | 0.9 | 16.2 | 36 | 10.6 | 1.08 | | |
| | 25 | 1 | 26 | 42 | 12.4 | 1.26 | | |
| | 30 | 1 | 26 | 48 | 14.1 | 1.44 | | |
| 15 | 5 | 0.7 | 4.7 | 9 | 2.6 | 0.27 | 60 | |
| | 10 | 0.7 | 4.7 | 12 | 3.5 | 0.36 | | |
| | 15 | 0.8 | 8 | 15 | 4.4 | 0.45 | | |
| | 20 | 0.8 | 8 | 18 | 5.3 | 0.54 | | |
| | 25 | 0.8 | 8 | 21 | 6.2 | 0.63 | | |
| | 30 | 0.9 | 12.8 | 24 | 7.1 | 0.72 | | |
| 16 | 5 | 0.9 | 12.8 | 27 | 7.9 | 0.81 | 60 | |
| | 10 | 0.9 | 12.8 | 30 | 8.8 | 0.9 | | |
| | 15 | 1 | 21 | 36 | 10.6 | 1.08 | | |
| | 20 | 1 | 21 | 42 | 12.4 | 1.26 | | |
| | 25 | 1 | 21 | 48 | 14.1 | 1.44 | | |
| | 30 | 0.75 | 4.3 | 9 | 2.6 | 0.27 | | |
| 17 | 5 | 0.8 | 5.4 | 12 | 3.5 | 0.36 | 60 | |
| | 10 | 0.9 | 7.7 | 15 | 4.4 | 0.45 | | |
| | 15 | 0.9 | 7.7 | 18 | 5.3 | 0.54 | | |
| | 20 | 1 | 12 | 21 | 6.2 | 0.63 | | |
| | 25 | 1 | 12 | 24 | 7.1 | 0.72 | | |
| | 30 | 1 | 12 | 27 | 7.9 | 0.81 | | |
| 18 | 5 | 1.1 | 19 | 30 | 8.8 | 0.9 | 60 | |
| | 10 | 1.1 | 19 | 36 | 10.6 | 1.08 | | |
| | 15 | 1.2 | 26.4 | 42 | 12.4 | 1.26 | | |
| | 20 | 1.2 | 26.4 | 48 | 14.1 | 1.44 | | |
| | 25 | 1.1 | 7.7 | 15 | 4.4 | 0.45 | | |
| | 30 | 1.1 | 7.7 | 18 | 5.3 | 0.54 | | |
| 19 | 5 | 1.1 | 7.7 | 21 | 6.2 | 0.63 | 60 | |
| | 10 | 1.1 | 7.7 | 24 | 7.1 | 0.72 | | |
| | 15 | 1.3 | 14.3 | 27 | 7.9 | 0.81 | | |
| | 20 | 1.3 | 14.3 | 30 | 8.8 | 0.9 | | |
| | 25 | 1.4 | 19.6 | 36 | 10.6 | 1.08 | | |
| | 30 | 1.4 | 19.6 | 42 | 12.4 | 1.26 | | |
| 20 | 5 | 1.4 | 19.6 | 48 | 14.1 | 1.44 | 60 | |
| | 10 | 1.5 | 27 | 48 | 23.5 | 2.4 | | |
| | 15 | 1.1 | 7.7 | 15 | 4.4 | 0.45 | | |
| | 20 | 1.1 | 7.7 | 18 | 5.3 | 0.54 | | |
| | 25 | 1.2 | 10.8 | 21 | 6.2 | 0.63 | | |
| | 30 | 1.2 | 10.8 | 24 | 7.1 | 0.72 | | |
| 21 | 5 | 1.3 | 14.3 | 27 | 7.9 | 0.81 | 60 | |
| | 10 | 1.3 | 14.3 | 30 | 8.8 | 0.9 | | |
| | 15 | 1.4 | 19.6 | 36 | 10.6 | 1.08 | | |
| | 20 | 1.4 | 19.6 | 42 | 12.4 | 1.26 | | |
| | 25 | 1.4 | 19.6 | 48 | 14.1 | 1.44 | | |
| | 30 | 1.5 | 27 | 48 | 23.5 | 2.4 | | |

▲所有WSZHA.WSYHA型的两端均为进行磨削加工。
▲压紧长度为参考值。因批次不同会有少许差异。
▲使用次数:100万次



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外径基准型(最大压缩量45%~75%)

圆形截面圆柱形压缩弹簧

WSYHA:S(工作行程)=L×Fa%

| ①代号 | ②D | ③L | d | 压紧长度 | S | 载荷 | |
|-------|----|------|------|-------|-------|------|-------|
| | | | | | | (N) | (kgf) |
| WSBHA | 2 | 5▲ | 0.2 | 2.35 | 2.25 | 0.66 | 0.068 |
| | | 10▲ | 0.2 | 2.35 | 4.5 | 1.3 | 0.14 |
| | | 15▲ | 0.26 | 7.8 | 6.7 | 2 | 0.2 |
| | | 20▲ | 0.26 | 7.8 | 9 | 2.7 | 0.27 |
| | | 25▲ | 0.29 | 13.6 | 11.2 | 3.3 | 0.34 |
| | | 30▲ | 0.29 | 13.6 | 13.5 | 4 | 0.41 |
| | 3 | 5▲ | 0.26 | 1.8 | 2.25 | 1.1 | 0.11 |
| | | 10▲ | 0.32 | 4.5 | 4.5 | 2.2 | 0.22 |
| | | 15▲ | 0.32 | 4.5 | 6.7 | 3.2 | 0.33 |
| | | 20▲ | 0.35 | 6.3 | 9 | 4.4 | 0.45 |
| | | 25▲ | 0.35 | 6.3 | 11.2 | 5.5 | 0.56 |
| | | 30▲ | 0.4 | 12.4 | 13.5 | 6.6 | 0.67 |
| | 4 | 5▲ | 0.4 | 12.4 | 15.7 | 7.6 | 0.78 |
| | | 10▲ | 0.4 | 12.4 | 18 | 8.8 | 0.9 |
| | | 15▲ | 0.32 | 2 | 2.25 | 1.1 | 0.11 |
| | | 20▲ | 0.35 | 3 | 4.5 | 2.2 | 0.22 |
| | | 25▲ | 0.4 | 5.2 | 6.7 | 3.2 | 0.33 |
| | | 30▲ | 0.4 | 5.2 | 9 | 4.4 | 0.45 |
| | 5 | 35▲ | 0.45 | 9.5 | 11.2 | 5.5 | 0.56 |
| | | 40▲ | 0.45 | 9.5 | 13.5 | 6.6 | 0.67 |
| | | 45▲ | 0.5 | 15.5 | 15.7 | 7.6 | 0.78 |
| | | 50▲ | 0.5 | 15.5 | 18 | 8.8 | 0.9 |
| | | 60▲ | 0.5 | 15.5 | 20 | 9.8 | 1 |
| | | 70▲ | 0.5 | 15.5 | 22.5 | 10.8 | 1.1 |
| | 6 | 80▲ | 0.55 | 22.6 | 27 | 12.7 | 1.3 |
| | | 5▲ | 0.35 | 2.01 | 2.25 | 1.1 | 0.11 |
| | | 10▲ | 0.4 | 3.2 | 4.5 | 2.2 | 0.23 |
| | | 15▲ | 0.4 | 3.2 | 6.75 | 3.3 | 0.34 |
| | | 20▲ | 0.45 | 4.95 | 9 | 4.4 | 0.45 |
| | | 25▲ | 0.45 | 4.95 | 11.25 | 5.5 | 0.56 |
| | 7 | 30▲ | 0.5 | 7.75 | 13.5 | 6.7 | 0.68 |
| | | 35▲ | 0.5 | 7.75 | 15.75 | 7.7 | 0.79 |
| | | 40 | 0.6 | 19.5 | 18 | 8.8 | 0.9 |
| | | 45 | 0.6 | 19.5 | 20.25 | 10 | 1.01 |
| | | 50 | 0.6 | 19.5 | 22.5 | 11.2 | 1.13 |
| | | 60 | 0.65 | 27.95 | 27 | 13.4 | 1.35 |
| | 8 | 5▲ | 0.4 | 2.2 | 2.25 | 1.1 | 0.11 |
| | | 10▲ | 0.5 | 5 | 4.5 | 2.2 | 0.22 |
| | | 15▲ | 0.55 | 7.7 | 6.7 | 3.2 | 0.33 |
| | | 20▲ | 0.55 | 7.7 | 9 | 4.4 | 0.45 |
| | | 25 | 0.6 | 10.8 | 11.2 | 5.5 | 0.56 |
| | | 30 | 0.65 | 15.6 | 13.5 | 6.6 | 0.67 |
| | 9 | 35 | 0.65 | 15.6 | 15.7 | 7.6 | 0.78 |
| | | 40 | 0.65 | 15.6 | 18 | 8.8 | 0.9 |
| | | 45 | 0.65 | 15.6 | 20 | 9.8 | 1 |
| | | 50 | 0.7 | 23.1 | 22.5 | 10.8 | 1.1 |
| | | 60 | 0.7 | 23.1 | 27 | 12.7 | 1.3 |
| | | 70 | 0.75 | 30.8 | 31.5 | 14.7 | 1.5 |
| 10 | 80 | 0.6 | 5.4 | 4.5 | 2.2 | 0.22 | |
| | 10 | 0.65 | 7.2 | 6.7 | 3.2 | 0.33 | |
| | 15 | 0.7 | 10.5 | 9 | 4.4 | 0.45 | |
| | 20 | 0.7 | 10.5 | 11.2 | 5.5 | 0.56 | |
| | 25 | 0.75 | 13.5 | 13.5 | 6.6 | 0.67 | |
| | 30 | 0.75 | 13.5 | 15.7 | 7.6 | 0.78 | |
| 11 | 35 | 0.75 | 13.5 | 18 | 8.8 | 0.9 | |
| | 40 | 0.8 | 18.4 | 18 | 8.8 | 0.9 | |
| | 45 | 0.8 | 18.4 | 20 | 9.8 | 1 | |
| | 50 | 0.8 | 18.4 | 22.5 | 10.8 | 1.1 | |
| | 60 | 0.85 | 26.4 | 27 | 12.7 | 1.3 | |
| | 70 | 0.85 | 26.4 | 31.5 | 14.7 | 1.5 | |
| 12 | 80 | 0.85 | 26.4 | 36 | 17.7 | 1.8 | |

| ①代号 | ②D | ③L | d | 压紧长度 | S | 载荷 | |
|-------|-----|-----|------|------|------|------|-------|
| | | | | | | (N) | (kgf) |
| WSBHA | 10 | 10 | 0.65 | 4.6 | 4.5 | 2.2 | 0.22 |
| | | 15 | 0.65 | 4.6 | 6.7 | 3.2 | 0.33 |
| | | 20 | 0.8 | 9.6 | 9 | 4.4 | 0.45 |
| | | 25 | 0.8 | 9.6 | 11.2 | 5.5 | 0.56 |
| | | 30 | 0.85 | 12.8 | 13.5 | 6.6 | 0.67 |
| | | 35 | 0.85 | 12.8 | 15.7 | 7.6 | 0.78 |
| | 11 | 40 | 0.9 | 17 | 18 | 8.8 | 0.9 |
| | | 45 | 0.9 | 17 | 20 | 9.8 | 1 |
| | | 50 | 0.9 | 17 | 22.5 | 10.8 | 1.1 |
| | | 60 | 1 | 28 | 27 | 12.7 | 1.3 |
| | | 70 | 1 | 28 | 31.5 | 14.7 | 1.5 |
| | | 80 | 1 | 28 | 36 | 17.7 | 1.8 |
| | 12 | 15 | 0.8 | 6.8 | 6.7 | 3.2 | 0.33 |
| | | 20 | 0.8 | 6.8 | 9 | 4.4 | 0.45 |
| | | 25 | 0.8 | 6.8 | 11.2 | 5.5 | 0.56 |
| | | 30 | 0.9 | 10.8 | 13.5 | 6.6 | 0.67 |
| | | 35 | 1 | 17 | 15.7 | 7.6 | 0.78 |
| | | 40 | 1 | 17 | 18 | 8.8 | 0.9 |
| | 13 | 45 | 1 | 17 | 20 | 9.8 | 1 |
| | | 50 | 1.1 | 26.4 | 22.5 | 10.8 | 1.1 |
| | | 60 | 1.1 | 26.4 | 27 | 12.7 | 1.3 |
| | | 70 | 1.1 | 26.4 | 31.5 | 14.7 | 1.5 |
| | | 80 | 1.2 | 39.6 | 36 | 17.7 | 1.8 |
| | | 15 | 0.8 | 5.6 | 6.7 | 3.2 | 0.33 |
| | 14 | 20 | 0.8 | 5.6 | 9 | 4.4 | 0.45 |
| | | 25 | 0.85 | 7.2 | 11.2 | 5.5 | 0.56 |
| | | 30 | 1 | 14 | 13.5 | 6.6 | 0.67 |
| | | 35 | 1 | 14 | 15.7 | 7.6 | 0.78 |
| | | 40 | 1 | 14 | 18 | 8.8 | 0.9 |
| | | 45 | 1.1 | 21.5 | 20 | 9.8 | 1 |
| | 15 | 50 | 1.1 | 21.5 | 22.5 | 10.8 | 1.1 |
| | | 60 | 1.1 | 21.5 | 27 | 12.7 | 1.3 |
| | | 70 | 1.2 | 30 | 31.5 | 14.7 | 1.5 |
| | | 80 | 1.2 | 30 | 36 | 17.7 | 1.8 |
| | | 15 | 0.9 | 5.6 | 6.7 | 3.2 | 0.33 |
| | | 16 | 20 | 1 | 7.7 | 9 | 4.4 |
| | 25 | | 1 | 7.7 | 11.2 | 5.5 | 0.56 |
| | 30 | | 1.1 | 12.1 | 13.5 | 6.6 | 0.67 |
| | 35 | | 1.1 | 12.1 | 15.7 | 7.6 | 0.78 |
| | 40 | | 1.2 | 18 | 18 | 8.8 | 0.9 |
| | 45 | | 1.2 | 18 | 20 | 9.8 | 1 |
| | 17 | 50 | 1.2 | 18 | 22.5 | 10.8 | 1.1 |
| | | 60 | 1.3 | 26 | 27 | 12.7 | 1.3 |
| | | 70 | 1.3 | 26 | 31.5 | 14.7 | 1.5 |
| | | 80 | 1.4 | 35 | 36 | 17.7 | 1.8 |
| | | 20 | 1.2 | 7.2 | 9 | 4.4 | 0.45 |
| | | 18 | 25 | 1.3 | 9.1 | 11.3 | 5.5 |
| | 30 | | 1.4 | 11.9 | 13.5 | 6.6 | 0.67 |
| 35 | 1.4 | | 11.9 | 15.8 | 7.6 | 0.78 | |
| 40 | 1.5 | | 15.8 | 18 | 8.8 | 0.9 | |
| 45 | 1.5 | | 15.8 | 20.3 | 9.8 | 1 | |
| 50 | 1.6 | | 20.8 | 22.5 | 10.8 | 1.1 | |
| 19 | 60 | 1.6 | 20.8 | 27 | 12.7 | 1.3 | |
| | 70 | 1.7 | 26.4 | 31.5 | 14.7 | 1.5 | |
| | 80 | 1.7 | 26.4 | 36 | 17.7 | 1.8 | |

- ▲所有WSZHA、WSYHA型的两端均为进行磨削加工。
- ▲压紧长度为参考值。因批次不同会有少许差异。
- ▲使用次数: 100万次

J2
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