Compression Spring

# TRY spring

Ver.1

## High Quality Spring selection



DAIDO SP(THAILAND)Co.,LTD

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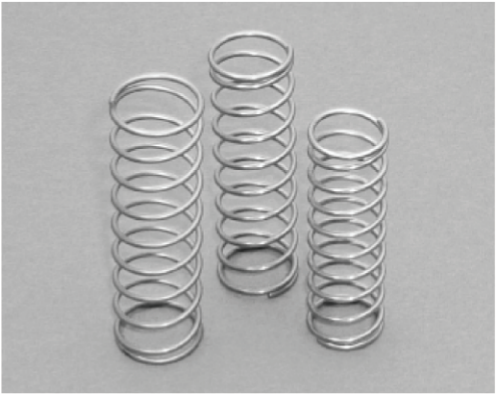

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**Compression Spring**

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**Catalogue Order**

# TEL.0-3895-4426
# FAX.0-3895-4427

# How to Order

## Order

- Please order by fax or telephone (business hours 8:30 - 17:00).
- If you order by fax, please use special Fax Order Sheet.

**TEL 0-3895-4426; FAX 0-3895-4427**

## Delivery

- Ordinary delivery by mail.
  There may be short delay of delivery owing to circumstances.
- We are closed on Saturdays, Sundays, and national holiday.

## Delivery Fee

- Delivery fee (postage, etc.) is included in the product price.

## Payment

- Please make payment by bank transfer.
- After confirming remittance, we will deliver the products.

## Delivery Time

- Delivery of products will require about three days after confirmation of remittance.

## Returned Products

- Any return after purchase is not accepted.
  In the case of wrong delivery or bad quality, we will change them for normal products.

## ■Compression Coil Spring [Example of Order]

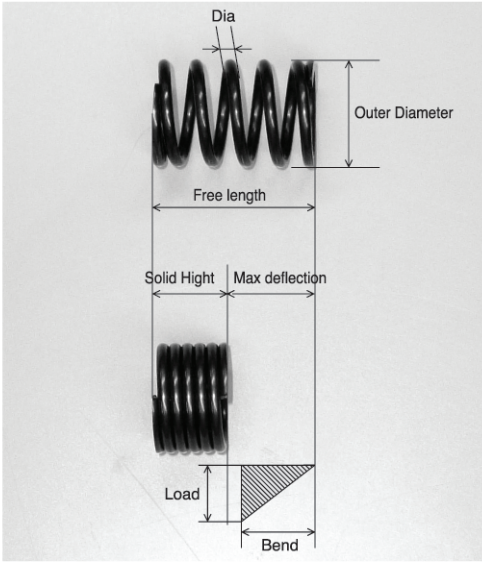
| Material | Wire diameter | Outside diameter | Free length | Quantity |
|---|---|---|---|---|
| SWPA | 1.20 | 10.0 | 60.0 | 10 |

| Type | Material | Wire diameter | Coil outside diameter | Free length | Quantity |
|---|---|---|---|---|---|
| Ⓒ | S Ⓟ | 1.20 | 10.0 | 60.0 | 10 |

S:SUS304 P:SWPA

C: Compression coil spring T: Extension Coil Spring

# Outline




Please use between 20% - 40% of maximum deflection.

## Calculation Formula

1. Load Calculation Formula
   Load (N) = Spring constant × Deflection (mm)

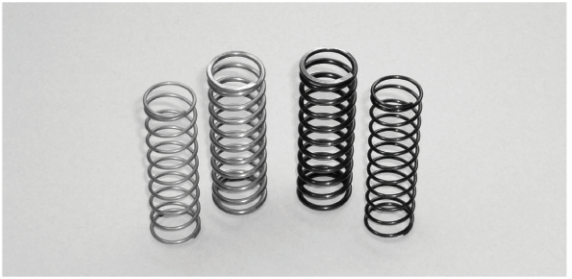
   For obtaining load (kgf) : Load (N) × 0.101972

2. Overall Contracted Length (Closed Length) Calculation Formula
   Overall contracted length (mm) ≒ Wire diameter × (Effective number of turns + 3)

3. Maximum Deflection Calculation Formula
   Maximum deflection (mm) ≒ Free length − Overall contracted length

## TRY Spring Specifications

1. Material : For SUS, SUS304WPB is used.
   For SWP, SWPA is used.
2. Winding Direction : Right
3. End Surface Grinding : Wire diameter 1.20 or less… No grinding.
4. Total Number of Turns : Effective number of turns + 2.
5. Outside Diameter and Free Length Tolerance : JIS Grade 2



SUS: 3,183 types, from wire diameter 0.16 mm to 1.20 mm.
SWP: 3,007 types, from wire diameter 0.35 mm to 1.20 mm.




Please be careful when ordering. We will specify the ordered products by Type, Material, Wire diameter, Outside diameter and Free length.

- Type: In the case of compression coil spring, use the letter C.
- Material: In the case of SUS (stainless steel wire), use the letter S.

In the case of SWP (piano wire), use the letter P.

If you order compression coil springs, material SWPA, wire diameter 1.20, outside diameter 14 mm, free length 27 mm, and quantity 10 pieces, you can indicate it as CP1.20-14-27.

# Compression Spring ϕ0.16

SUS

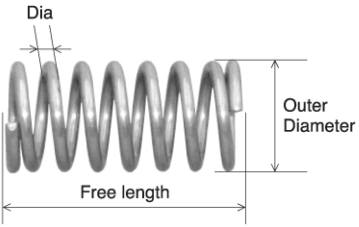
| Cost Code | Outer Diameter / Free Length | 1.4 | 1.6 | 1.8 | 2.0 | 2.3 | 2.6 |
|---|---|---|---|---|---|---|---|
| 1 | 3.0 | 5.00 | 4.00 | 3.50 | 3.25 | 2.75 | 2.25 |
| | | 0.590 | 0.471 | 0.364 | 0.278 | 0.209 | 0.172 |
| 1 | 4.0 | 7.00 | 5.50 | 5.00 | 4.50 | 3.75 | 3.00 |
| | | 0.421 | 0.342 | 0.255 | 0.201 | 0.153 | 0.129 |
| 1 | 5.0 | 9.00 | 7.25 | 6.25 | 5.50 | 4.75 | 4.00 |
| | | 0.328 | 0.260 | 0.204 | 0.164 | 0.121 | 0.097 |
| 1 | 6.5 | 11.75 | 9.50 | 8.50 | 7.50 | 6.50 | 5.25 |
| | | 0.251 | 0.198 | 0.150 | 0.120 | 0.088 | 0.074 |
| 1 | 8.0 | 14.50 | 12.00 | 10.50 | 9.25 | 8.00 | 6.50 |
| | | 0.203 | 0.157 | 0.121 | 0.098 | 0.072 | 0.060 |
| 1 | 10.0 | 18.50 | 15.00 | 13.25 | 11.75 | 10.00 | 8.25 |
| | | 0.159 | 0.126 | 0.096 | 0.077 | 0.057 | 0.047 |
| 1 | 12.0 | 22.25 | 18.00 | 16.00 | 14.25 | 12.00 | 10.00 |
| | | 0.133 | 0.105 | 0.080 | 0.063 | 0.048 | 0.039 |
| 1 | 14.0 | | 21.25 | 20.00 | 17.75 | 15.25 | 12.50 |
| | | | 0.089 | 0.064 | 0.051 | 0.038 | 0.031 |
| 2 | 17.0 | | | 22.75 | 20.25 | 17.25 | 14.00 |
| | | | | 0.056 | 0.045 | 0.033 | 0.028 |
| 2 | 20.0 | | | | | 20.50 | 16.50 |
| | | | | | | 0.028 | 0.023 |
| 2 | 23.0 | | | | | | 19.25 |
| | | | | | | | 0.020 |

## Wire Dia : ϕ0.16……74 Description

The top:Active coil  The lower:Spring constant(N/㎜)  Outer Diameter and Free length:
Solid(Length)Hight ≒ Dia × (Active Coil+3)  Max Deflection ≒ Free length − Solid Hight

## Dia:ϕ0.16, Material:SUS304WPB, No grinding, Right

| 2.9 | 3.2 |
|---|---|
| | |
| | |
| 3.00 | 2.75 |
| 0.091 | 0.073 |
| 3.75 | 3.50 |
| 0.073 | 0.057 |
| 5.00 | 4.50 |
| 0.055 | 0.044 |
| 6.25 | 5.50 |
| 0.044 | 0.036 |
| 7.75 | 7.00 |
| 0.035 | 0.029 |
| 9.50 | 8.50 |
| 0.029 | 0.024 |
| 12.00 | 10.75 |
| 0.023 | 0.019 |
| 13.50 | 12.25 |
| 0.020 | 0.016 |
| 16.00 | 14.50 |
| 0.017 | 0.014 |
| 18.50 | 16.75 |
| 0.015 | 0.012 |




Wire Dia : ϕ0.16·····74 Description

Tolerance JIS-2class, Unitmm
Total number of coil=Active coil+2

# Compression Spring $\phi$0.18

SUS

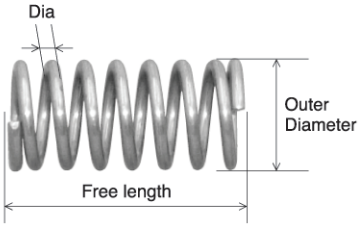
| Cost Code | Outer Diameter / Free Length | 1.4 | 1.6 | 1.8 | 2.0 | 2.3 | 2.6 |
|---|---|---|---|---|---|---|---|
| 1 | 3.0 | 5.50 | 4.50 | 3.75 | 3.00 | 2.50 | 2.25 |
| | | 0.902 | 0.699 | 0.565 | 0.498 | 0.378 | 0.282 |
| 1 | 4.0 | 8.00 | 6.25 | 5.00 | 4.25 | 3.75 | 3.25 |
| | | 0.620 | 0.503 | 0.424 | 0.352 | 0.252 | 0.196 |
| 1 | 5.0 | 10.25 | 8.25 | 6.50 | 5.50 | 4.75 | 4.25 |
| | | 0.484 | 0.381 | 0.326 | 0.272 | 0.199 | 0.150 |
| 1 | 6.5 | 13.50 | 11.00 | 8.75 | 7.50 | 6.25 | 5.50 |
| | | 0.367 | 0.286 | 0.242 | 0.199 | 0.151 | 0.116 |
| 1 | 8.0 | 17.00 | 13.50 | 11.00 | 9.25 | 8.00 | 7.00 |
| | | 0.292 | 0.233 | 0.193 | 0.162 | 0.118 | 0.091 |
| 1 | 10.0 | 21.50 | 17.25 | 14.00 | 11.75 | 10.00 | 8.75 |
| | | 0.231 | 0.182 | 0.151 | 0.127 | 0.095 | 0.073 |
| 1 | 12.0 | 26.00 | 21.00 | 17.00 | 14.25 | 12.00 | 10.75 |
| | | 0.191 | 0.150 | 0.125 | 0.105 | 0.079 | 0.059 |
| 1 | 14.0 | | | 19.75 | 16.75 | 14.25 | 12.50 |
| | | | | 0.107 | 0.089 | 0.066 | 0.051 |
| 2 | 17.0 | | | | 20.50 | 17.50 | 15.25 |
| | | | | | 0.073 | 0.054 | 0.042 |
| 2 | 20.0 | | | | | 20.50 | 18.00 |
| | | | | | | 0.046 | 0.035 |
| 2 | 23.0 | | | | | | 20.75 |
| | | | | | | | 0.031 |

## Wire Dia : $\phi$0.18·····81 Description

The top:Active coil The lower:Spring constant(N/㎜) Outer Diameter and Free length:
Solid(Length)Hight ≒ Dia × (Active Coil+3) Max Deflection ≒ Free length − Solid Hight

## Dia:ϕ0.18, Material:SUS304WPB, No grinding, Right

| 2.9 | 3.2 | 3.5 |
|---|---|---|
| | | |
| | | |
| 3.00 | 2.50 | |
| 0.149 | 0.131 | |
| 3.75 | 3.50 | 3.00 |
| 0.119 | 0.093 | 0.082 |
| 5.00 | 4.50 | 4.00 |
| 0.090 | 0.073 | 0.062 |
| 6.25 | 5.50 | 5.00 |
| 0.072 | 0.059 | 0.049 |
| 7.75 | 7.00 | 6.50 |
| 0.058 | 0.047 | 0.038 |
| 9.50 | 8.50 | 7.75 |
| 0.047 | 0.038 | 0.032 |
| 11.00 | 10.00 | 9.00 |
| 0.041 | 0.033 | 0.027 |
| 13.50 | 12.25 | 11.00 |
| 0.033 | 0.027 | 0.022 |
| 16.00 | 14.50 | 13.00 |
| 0.028 | 0.023 | 0.019 |
| 18.50 | 16.75 | 15.00 |
| 0.024 | 0.020 | 0.016 |




Wire Dia : ϕ0.18……81 Description

Tolerance JIS-2class, Unitmm
Total number of coil=Active coil+2

# Compression Spring ϕ0.20

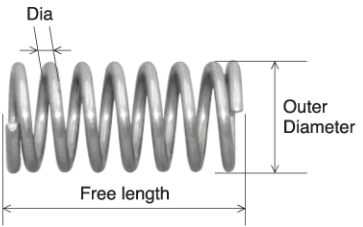
| Cost Code | Outer Diameter / Free Length | 1.6 | 1.8 | 2.0 | 2.3 | 2.6 | 2.9 |
|---|---|---|---|---|---|---|---|
| 1 | 3.0 | 4.75 | 4.00 | 3.25 | 2.50 | 2.25 | |
| | | 1.053 | 0.838 | 0.724 | 0.593 | 0.441 | |
| 1 | 4.0 | 6.75 | 5.50 | 4.50 | 3.50 | 3.25 | 2.75 |
| | | 0.741 | 0.609 | 0.523 | 0.424 | 0.306 | 0.254 |
| 1 | 5.0 | 8.75 | 7.00 | 6.00 | 4.75 | 4.00 | 3.75 |
| | | 0.572 | 0.479 | 0.392 | 0.312 | 0.248 | 0.186 |
| 1 | 6.5 | 11.50 | 9.50 | 8.00 | 6.25 | 5.50 | 5.00 |
| | | 0.435 | 0.353 | 0.294 | 0.237 | 0.181 | 0.139 |
| 1 | 8.0 | 14.50 | 12.00 | 10.00 | 7.75 | 7.00 | 6.00 |
| | | 0.345 | 0.279 | 0.235 | 0.191 | 0.142 | 0.116 |
| 1 | 10.0 | 18.50 | 15.25 | 12.50 | 10.00 | 8.75 | 7.75 |
| | | 0.270 | 0.220 | 0.188 | 0.148 | 0.113 | 0.090 |
| 1 | 12.0 | 22.50 | 18.50 | 15.25 | 12.00 | 10.50 | 9.50 |
| | | 0.222 | 0.181 | 0.154 | 0.124 | 0.095 | 0.073 |
| 1 | 14.0 | | 22.00 | 18.25 | 14.50 | 12.50 | 11.25 |
| | | | 0.152 | 0.129 | 0.102 | 0.079 | 0.062 |
| 2 | 17.0 | | | 22.25 | 17.50 | 15.50 | 13.75 |
| | | | | 0.106 | 0.085 | 0.064 | 0.051 |
| 2 | 20.0 | | | | 20.50 | 18.00 | 16.00 |
| | | | | | 0.072 | 0.055 | 0.044 |
| 2 | 23.0 | | | | | | 18.50 |
| | | | | | | | 0.038 |
| 2 | 26.0 | | | | | | |
| | | | | | | | |

## Wire Dia : ϕ0.20……84 Description

The top:Active coil　The lower:Spring constant(N/㎜)　Outer Diameter and Free length:
Solid(Length)Hight≒Dia×(Active Coil+3)　Max Deflection≒Free length−Solid Hight

## Dia:ϕ0.20, Material:SUS304WPB, No grinding, Right

| 3.2 | 3.5 | 4.0 |
|---|---|---|
| | | |
| | | |
| 2.50 | | |
| 0.203 | | |
| 3.25 | 3.00 | |
| 0.156 | 0.127 | |
| 4.50 | 4.00 | 3.50 |
| 0.113 | 0.096 | 0.071 |
| 5.50 | 5.00 | 4.50 |
| 0.092 | 0.076 | 0.056 |
| 7.00 | 6.50 | 5.50 |
| 0.073 | 0.059 | 0.045 |
| 8.50 | 7.75 | 6.75 |
| 0.060 | 0.049 | 0.037 |
| 10.00 | 9.25 | 8.00 |
| 0.051 | 0.041 | 0.031 |
| 12.25 | 11.25 | 9.75 |
| 0.042 | 0.034 | 0.026 |
| 14.50 | 13.00 | 11.50 |
| 0.035 | 0.029 | 0.022 |
| 16.75 | 15.25 | 13.25 |
| 0.030 | 0.025 | 0.019 |
| 19.00 | 17.25 | 15.00 |
| 0.027 | 0.022 | 0.017 |




Wire Dia : ϕ0.20·····84 Description

Tolerance JIS-2class, Unitmm
Total number of coil=Active coil+2

# Compression Spring ϕ0.23

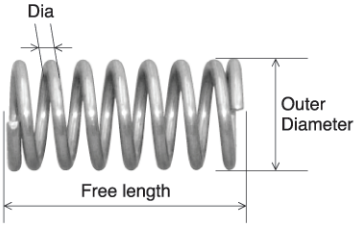
| Cost Code | Outer Diameter / Free Length | 1.6 | 1.8 | 2.0 | 2.3 | 2.6 | 2.9 |
|---|---|---|---|---|---|---|---|
| 1 | 3.0 | 5.00 | 4.25 | 3.50 | 2.75 | 2.25 | |
| | | 1.868 | 1.460 | 1.237 | 0.984 | 0.802 | |
| 1 | 4.0 | 7.00 | 6.00 | 5.00 | 4.00 | 3.25 | 2.75 |
| | | 1.334 | 1.034 | 0.866 | 0.677 | 0.555 | 0.459 |
| 1 | 5.0 | 9.25 | 7.75 | 6.50 | 5.25 | 4.25 | 3.75 |
| | | 1.010 | 0.801 | 0.666 | 0.516 | 0.424 | 0.336 |
| 1 | 6.5 | 12.50 | 10.50 | 9.00 | 7.00 | 5.75 | 5.00 |
| | | 0.747 | 0.591 | 0.481 | 0.387 | 0.314 | 0.252 |
| 1 | 8.0 | 15.50 | 13.00 | 11.00 | 9.00 | 7.00 | 6.00 |
| | | 0.602 | 0.477 | 0.394 | 0.301 | 0.258 | 0.210 |
| 1 | 10.0 | 20.00 | 16.75 | 14.25 | 11.25 | 9.00 | 7.75 |
| | | 0.467 | 0.370 | 0.304 | 0.241 | 0.200 | 0.163 |
| 1 | 12.0 | 24.00 | 20.25 | 17.25 | 13.75 | 11.00 | 9.50 |
| | | 0.389 | 0.306 | 0.251 | 0.197 | 0.164 | 0.133 |
| 2 | 14.0 | | 23.75 | 20.25 | 16.00 | 13.00 | 11.00 |
| | | | 0.261 | 0.214 | 0.169 | 0.139 | 0.115 |
| 2 | 17.0 | | | 24.75 | 19.75 | 16.00 | 13.75 |
| | | | | 0.175 | 0.137 | 0.113 | 0.092 |
| 2 | 20.0 | | | | 23.25 | 18.75 | 16.00 |
| | | | | | 0.116 | 0.096 | 0.079 |
| 2 | 23.0 | | | | | 21.75 | 18.50 |
| | | | | | | 0.083 | 0.068 |
| 2 | 26.0 | | | | | | 21.00 |
| | | | | | | | 0.060 |

## Wire Dia : ϕ0.23……95 Description

The top:Active coil  The lower:Spring constant(N/㎜)  Outer Diameter and Free length:
Solid(Length)Hight ≒ Dia × (Active Coil+3)  Max Deflection ≒ Free length − Solid Hight

## Dia:$\phi$0.23, Material:SUS304WPB, No grinding, Right

| 3.2 | 3.5 | 4.0 | 4.5 |
|---|---|---|---|
| | | | |
| | | | |
| 2.50 | | | |
| 0.367 | | | |
| 3.25 | 3.00 | | |
| 0.282 | 0.229 | | |
| 4.50 | 4.50 | 3.50 | 3.25 |
| 0.204 | 0.153 | 0.128 | 0.095 |
| 5.50 | 5.25 | 4.50 | 4.00 |
| 0.167 | 0.131 | 0.100 | 0.077 |
| 7.00 | 6.50 | 5.50 | 5.00 |
| 0.131 | 0.106 | 0.081 | 0.062 |
| 8.50 | 8.00 | 6.75 | 6.00 |
| 0.108 | 0.086 | 0.066 | 0.051 |
| 10.00 | 9.50 | 8.00 | 7.25 |
| 0.092 | 0.072 | 0.056 | 0.043 |
| 12.25 | 11.50 | 9.75 | 8.75 |
| 0.075 | 0.060 | 0.046 | 0.035 |
| 14.50 | 13.50 | 11.50 | 10.50 |
| 0.063 | 0.051 | 0.039 | 0.029 |
| 16.75 | 15.75 | 13.25 | 12.00 |
| 0.055 | 0.044 | 0.034 | 0.026 |
| 19.00 | 18.00 | 15.00 | 13.50 |
| 0.048 | 0.038 | 0.030 | 0.023 |




Wire Dia : $\phi$0.23·····95 Description

Tolerance JIS-2class, Unitmm
Total number of coil=Active coil+2

# Compression Spring ϕ0.26

SUS

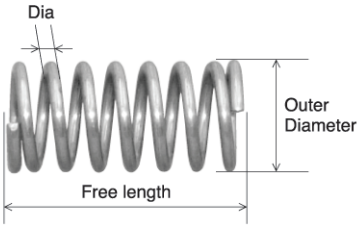
| Cost Code | Outer Diameter / Free Length | 2.0 | 2.3 | 2.6 | 2.9 | 3.2 | 3.5 |
|---|---|---|---|---|---|---|---|
| 1 | 3.0 | 3.75 | 3.00 | 2.50 | | | |
| | | 1.985 | 1.540 | 1.224 | | | |
| 1 | 4.0 | 5.25 | 4.25 | 3.50 | 3.00 | 2.50 | |
| | | 1.418 | 1.087 | 0.874 | 0.710 | 0.617 | |
| 1 | 5.0 | 7.00 | 5.50 | 4.50 | 3.75 | 3.25 | 3.00 |
| | | 1.063 | 0.840 | 0.680 | 0.568 | 0.475 | 0.384 |
| 1 | 6.5 | 9.50 | 7.50 | 6.25 | 5.00 | 4.50 | 4.00 |
| | | 0.783 | 0.616 | 0.490 | 0.426 | 0.343 | 0.288 |
| 1 | 8.0 | 12.00 | 10.00 | 7.75 | 6.50 | 5.50 | 5.00 |
| | | 0.620 | 0.462 | 0.395 | 0.328 | 0.281 | 0.231 |
| 1 | 10.0 | 15.25 | 12.25 | 10.00 | 8.00 | 7.00 | 6.50 |
| | | 0.488 | 0.377 | 0.306 | 0.266 | 0.220 | 0.177 |
| 1 | 12.0 | 18.50 | 14.75 | 12.00 | 10.00 | 8.50 | 7.75 |
| | | 0.402 | 0.313 | 0.255 | 0.213 | 0.182 | 0.149 |
| 2 | 14.0 | 21.75 | 17.50 | 14.25 | 11.75 | 10.00 | 9.25 |
| | | 0.342 | 0.264 | 0.215 | 0.181 | 0.154 | 0.125 |
| 2 | 17.0 | | 21.50 | 17.50 | 14.25 | 12.25 | 11.25 |
| | | | 0.215 | 0.175 | 0.150 | 0.126 | 0.102 |
| 2 | 20.0 | | 25.25 | 20.75 | 17.00 | 14.50 | 13.25 |
| | | | 0.183 | 0.147 | 0.125 | 0.106 | 0.087 |
| 2 | 23.0 | | | | 19.50 | 17.00 | 15.50 |
| | | | | | 0.109 | 0.091 | 0.074 |
| 2 | 26.0 | | | | | 19.25 | 17.50 |
| | | | | | | 0.080 | 0.066 |
| 3 | 30.0 | | | | | | 20.25 |
| | | | | | | | 0.057 |

## Wire Dia : ϕ0.26·····89 Description

The top:Active coil  The lower:Spring constant(N/㎜)  Outer Diameter and Free length:
Solid(Length)Hight ≒ Dia × (Active Coil+3)  Max Deflection ≒ Free length − Solid Hight

## Dia:ϕ0.26, Material:SUS304WPB, No grinding, Right

| 4.0 | 4.5 | 5.0 |
|---|---|---|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| 3.50 | 3.00 | |
| 0.214 | 0.171 | |
| 4.25 | 4.00 | 3.50 |
| 0.176 | 0.129 | 0.105 |
| 5.50 | 5.00 | 4.50 |
| 0.136 | 0.103 | 0.082 |
| 6.75 | 6.00 | 5.25 |
| 0.111 | 0.086 | 0.070 |
| 8.00 | 7.00 | 6.25 |
| 0.094 | 0.073 | 0.059 |
| 9.75 | 8.50 | 7.75 |
| 0.077 | 0.061 | 0.048 |
| 11.50 | 10.25 | 9.00 |
| 0.065 | 0.050 | 0.041 |
| 13.25 | 11.75 | 10.50 |
| 0.057 | 0.044 | 0.035 |
| 15.00 | 13.25 | 12.00 |
| 0.050 | 0.039 | 0.031 |
| 17.50 | 15.50 | 13.75 |
| 0.043 | 0.033 | 0.027 |




Wire Dia : ϕ0.26·····89 Description

Tolerance JIS-2class, Unitmm
Total number of coil=Active coil+2

# Compression Spring ϕ0.29

SUS

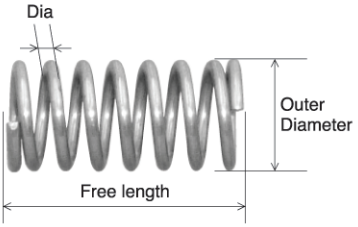
| Cost Code | Outer Diameter / Free Length | 2.0 | 2.3 | 2.6 | 2.9 | 3.2 | 3.5 |
|---|---|---|---|---|---|---|---|
| 1 | 3.0 | 3.75 | 3.00 | 2.50 | | | |
| | | 3.236 | 2.491 | 1.969 | | | |
| 1 | 4.0 | 5.50 | 4.50 | 3.50 | 3.00 | 2.50 | |
| | | 2.207 | 1.661 | 1.407 | 1.138 | 0.985 | |
| 1 | 5.0 | 7.00 | 5.75 | 4.75 | 4.00 | 3.50 | 3.00 |
| | | 1.734 | 1.300 | 1.036 | 0.853 | 0.704 | 0.612 |
| 1 | 6.5 | 9.50 | 8.00 | 6.50 | 5.50 | 4.50 | 4.00 |
| | | 1.278 | 0.934 | 0.757 | 0.621 | 0.547 | 0.459 |
| 1 | 8.0 | 12.00 | 10.00 | 8.25 | 7.00 | 5.75 | 5.00 |
| | | 1.011 | 0.747 | 0.597 | 0.488 | 0.428 | 0.367 |
| 1 | 10.0 | 15.50 | 12.75 | 10.50 | 8.75 | 7.50 | 6.50 |
| | | 0.783 | 0.586 | 0.469 | 0.390 | 0.328 | 0.282 |
| 1 | 12.0 | 19.00 | 15.50 | 12.75 | 10.75 | 9.00 | 7.75 |
| | | 0.639 | 0.482 | 0.386 | 0.318 | 0.274 | 0.237 |
| 2 | 14.0 | 22.25 | 18.25 | 15.00 | 12.75 | 10.50 | 9.25 |
| | | 0.545 | 0.409 | 0.328 | 0.268 | 0.235 | 0.198 |
| 2 | 17.0 | | 22.50 | 18.50 | 15.50 | 13.00 | 11.25 |
| | | | 0.332 | 0.266 | 0.220 | 0.189 | 0.163 |
| 2 | 20.0 | | 26.50 | 22.00 | 18.50 | 15.50 | 13.25 |
| | | | 0.282 | 0.224 | 0.185 | 0.159 | 0.138 |
| 2 | 23.0 | | | | 21.25 | 18.00 | 15.50 |
| | | | | | 0.161 | 0.137 | 0.118 |
| 2 | 26.0 | | | | | 20.25 | 17.50 |
| | | | | | | 0.122 | 0.105 |
| 3 | 30.0 | | | | | | 20.25 |
| | | | | | | | 0.091 |

## Wire Dia : ϕ0.29……100 Description

The top:Active coil  The lower:Spring constant(N/㎜)  Outer Diameter and Free length:
Solid(Length)Hight ≒ Dia × (Active Coil+3)  Max Deflection ≒ Free length − Solid Hight

## Dia:ϕ0.29, Material:SUS304WPB, No grinding, Right

| 4.0 | 4.5 | 5.0 | 5.5 |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| 3.50 | 3.00 | 2.75 | 2.50 |
| 0.340 | 0.271 | 0.211 | 0.172 |
| 4.25 | 3.75 | 3.50 | 3.00 |
| 0.280 | 0.217 | 0.166 | 0.143 |
| 5.50 | 5.00 | 4.50 | 4.00 |
| 0.216 | 0.163 | 0.129 | 0.107 |
| 6.75 | 6.00 | 5.25 | 4.75 |
| 0.176 | 0.136 | 0.111 | 0.090 |
| 8.00 | 7.00 | 6.25 | 5.75 |
| 0.149 | 0.116 | 0.093 | 0.075 |
| 9.75 | 8.50 | 7.75 | 7.00 |
| 0.122 | 0.096 | 0.075 | 0.061 |
| 11.50 | 10.25 | 9.00 | 8.25 |
| 0.103 | 0.079 | 0.065 | 0.052 |
| 13.50 | 11.75 | 10.50 | 9.50 |
| 0.088 | 0.069 | 0.055 | 0.045 |
| 15.25 | 13.25 | 12.00 | 10.75 |
| 0.078 | 0.061 | 0.048 | 0.040 |
| 17.50 | 15.50 | 14.00 | 12.50 |
| 0.068 | 0.052 | 0.041 | 0.034 |




Wire Dia : ϕ0.29·····100 Description

Tolerance JIS-2class, Unitmm
Total number of coil=Active coil+2

# Compression Spring ϕ0.32

SUS

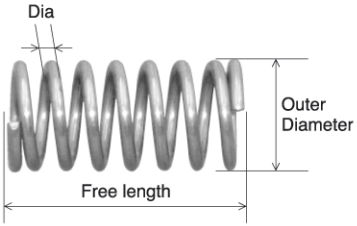
| Cost Code | Outer Diameter / Free Length | 2.3 | 2.6 | 2.9 | 3.2 | 3.5 | 4.0 |
|---|---|---|---|---|---|---|---|
| 1 | 3.0 | 3.00 | 2.50 | | | | |
| | | 3.864 | 3.036 | | | | |
| 1 | 4.0 | 4.50 | 3.75 | 3.25 | 2.75 | | |
| | | 2.576 | 2.024 | 1.612 | 1.370 | | |
| 1 | 5.0 | 6.00 | 5.00 | 4.25 | 3.50 | 3.00 | |
| | | 1.932 | 1.518 | 1.233 | 1.076 | 0.933 | |
| 1 | 6.5 | 8.25 | 6.75 | 5.75 | 5.00 | 4.25 | 3.50 |
| | | 1.405 | 1.125 | 0.911 | 0.753 | 0.658 | 0.516 |
| 1 | 8.0 | 10.50 | 8.50 | 7.25 | 6.25 | 5.25 | 4.25 |
| | | 1.104 | 0.893 | 0.723 | 0.603 | 0.533 | 0.425 |
| 1 | 10.0 | 13.25 | 11.00 | 9.50 | 8.00 | 6.75 | 5.50 |
| | | 0.875 | 0.690 | 0.551 | 0.471 | 0.414 | 0.328 |
| 2 | 12.0 | 16.25 | 13.50 | 11.50 | 9.75 | 8.25 | 6.75 |
| | | 0.713 | 0.562 | 0.456 | 0.386 | 0.339 | 0.267 |
| 2 | 14.0 | 19.25 | 16.00 | 13.50 | 11.50 | 9.75 | 8.00 |
| | | 0.602 | 0.474 | 0.388 | 0.328 | 0.287 | 0.226 |
| 2 | 17.0 | 23.50 | 19.50 | 16.50 | 14.00 | 12.00 | 9.75 |
| | | 0.493 | 0.389 | 0.318 | 0.269 | 0.233 | 0.185 |
| 2 | 20.0 | 28.00 | 23.25 | 19.75 | 16.50 | 14.25 | 11.50 |
| | | 0.414 | 0.326 | 0.265 | 0.228 | 0.196 | 0.157 |
| 2 | 23.0 | | | 22.75 | 19.25 | 16.50 | 13.50 |
| | | | | 0.230 | 0.196 | 0.170 | 0.134 |
| 3 | 26.0 | | | | 21.75 | 18.50 | 15.25 |
| | | | | | 0.173 | 0.151 | 0.118 |
| 3 | 30.0 | | | | | 21.50 | 17.75 |
| | | | | | | 0.130 | 0.102 |
| 4 | 35.0 | | | | | | 20.75 |
| | | | | | | | 0.087 |

## Wire Dia : ϕ0.32·····106 Description

The top:Active coil The lower:Spring constant(N/㎜) Outer Diameter and Free length:
Solid(Length)Hight ≒ Dia × (Active Coil + 3) Max Deflection ≒ Free length − Solid Hight

## Dia:ϕ0.32, Material:SUS304WPB, No grinding, Right

| 4.5 | 5.0 | 5.5 | 6.0 |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| 3.00 | 2.50 | 2.50 | |
| 0.411 | 0.351 | 0.259 | |
| 3.75 | 3.50 | 3.00 | 2.75 |
| 0.329 | 0.251 | 0.216 | 0.179 |
| 5.00 | 4.50 | 4.00 | 3.50 |
| 0.246 | 0.195 | 0.162 | 0.140 |
| 6.00 | 5.25 | 4.75 | 4.50 |
| 0.205 | 0.167 | 0.136 | 0.109 |
| 7.00 | 6.25 | 5.75 | 5.25 |
| 0.176 | 0.140 | 0.113 | 0.094 |
| 8.50 | 7.75 | 7.00 | 6.25 |
| 0.145 | 0.113 | 0.092 | 0.079 |
| 10.50 | 9.00 | 8.25 | 7.50 |
| 0.117 | 0.098 | 0.078 | 0.065 |
| 11.75 | 10.50 | 9.50 | 8.75 |
| 0.105 | 0.084 | 0.068 | 0.056 |
| 13.50 | 12.00 | 10.75 | 10.00 |
| 0.091 | 0.073 | 0.060 | 0.049 |
| 15.50 | 14.00 | 12.50 | 11.50 |
| 0.079 | 0.063 | 0.052 | 0.043 |
| 18.25 | 16.25 | 14.75 | 13.50 |
| 0.068 | 0.054 | 0.044 | 0.036 |




Wire Dia : ϕ0.32……106 Description

Tolerance JIS-2class, Unitmm
Total number of coil=Active coil+2

# Compression Spring ϕ0.35

SUS

| Cost Code | Outer Diameter / Free Length | 2.6 | 2.9 | 3.2 | 3.5 | 4.0 | 4.5 |
|---|---|---|---|---|---|---|---|
| 1 | 3.0 | 2.50 | | | | | |
| | | 4.522 | | | | | |
| 1 | 4.0 | 3.75 | 3.25 | 2.75 | | | |
| | | 3.014 | 2.389 | 2.023 | | | |
| 1 | 5.0 | 5.00 | 4.25 | 3.75 | 3.25 | | |
| | | 2.261 | 1.827 | 1.483 | 1.268 | | |
| 1 | 6.5 | 7.00 | 6.00 | 5.00 | 4.50 | 3.50 | 3.00 |
| | | 1.615 | 1.294 | 1.112 | 0.915 | 0.757 | 0.600 |
| 1 | 8.0 | 8.75 | 7.50 | 6.50 | 5.50 | 4.50 | 3.75 |
| | | 1.292 | 1.035 | 0.856 | 0.749 | 0.588 | 0.480 |
| 1 | 10.0 | 11.50 | 9.75 | 8.25 | 7.25 | 5.50 | 5.00 |
| | | 0.983 | 0.796 | 0.674 | 0.568 | 0.481 | 0.360 |
| 2 | 12.0 | 14.00 | 12.00 | 10.25 | 8.75 | 7.00 | 6.00 |
| | | 0.807 | 0.647 | 0.543 | 0.471 | 0.378 | 0.300 |
| 2 | 14.0 | 16.50 | 14.00 | 12.00 | 10.25 | 8.00 | 7.00 |
| | | 0.685 | 0.555 | 0.464 | 0.402 | 0.331 | 0.257 |
| 2 | 17.0 | 20.25 | 17.50 | 14.75 | 12.75 | 10.00 | 8.50 |
| | | 0.558 | 0.444 | 0.377 | 0.323 | 0.265 | 0.212 |
| 2 | 20.0 | 24.00 | 20.50 | 17.50 | 15.00 | 12.00 | 10.25 |
| | | 0.471 | 0.379 | 0.318 | 0.275 | 0.221 | 0.176 |
| 3 | 23.0 | | | 20.50 | 17.50 | 14.00 | 12.00 |
| | | | | 0.271 | 0.235 | 0.189 | 0.150 |
| 3 | 26.0 | | | 23.25 | 20.00 | 15.50 | 13.50 |
| | | | | 0.239 | 0.206 | 0.171 | 0.133 |
| 3 | 30.0 | | | | 23.00 | 18.00 | 15.50 |
| | | | | | 0.179 | 0.147 | 0.116 |
| 4 | 35.0 | | | | | 21.25 | 18.25 |
| | | | | | | 0.125 | 0.099 |
| 4 | 40.0 | | | | | | |
| | | | | | | | |

## Wire Dia : ϕ0.35……120 Description

The top:Active coil　The lower:Spring constant(N/㎜)　Outer Diameter and Free length:
Solid(Length)Hight ≒ Dia × (Active Coil+3)　Max Deflection ≒ Free length − Solid Hight

## Dia:ϕ0.35, Material:SUS304WPB, No grinding, Right

| 5.0 | 5.5 | 6.0 | 6.5 | 7.0 |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| 2.75 | 2.50 | | | |
| 0.466 | 0.377 | | | |
| 3.50 | 3.00 | 2.75 | 2.50 | 2.50 |
| 0.366 | 0.314 | 0.260 | 0.221 | 0.175 |
| 4.25 | 4.00 | 3.50 | 3.25 | 3.00 |
| 0.301 | 0.236 | 0.204 | 0.170 | 0.146 |
| 5.25 | 4.75 | 4.50 | 4.00 | 3.75 |
| 0.244 | 0.198 | 0.159 | 0.138 | 0.117 |
| 6.25 | 5.75 | 5.25 | 4.75 | 4.50 |
| 0.205 | 0.164 | 0.136 | 0.117 | 0.097 |
| 7.75 | 7.00 | 6.25 | 5.75 | 5.50 |
| 0.165 | 0.135 | 0.114 | 0.096 | 0.080 |
| 9.00 | 8.25 | 7.50 | 7.00 | 6.50 |
| 0.142 | 0.114 | 0.095 | 0.079 | 0.067 |
| 10.50 | 9.50 | 8.75 | 8.00 | 7.50 |
| 0.122 | 0.099 | 0.082 | 0.069 | 0.058 |
| 12.00 | 11.00 | 10.00 | 9.00 | 8.50 |
| 0.107 | 0.086 | 0.071 | 0.062 | 0.052 |
| 14.00 | 12.50 | 11.50 | 10.50 | 9.75 |
| 0.091 | 0.075 | 0.062 | 0.053 | 0.045 |
| 16.25 | 14.75 | 13.50 | 12.50 | 11.50 |
| 0.079 | 0.064 | 0.053 | 0.044 | 0.038 |
| 18.75 | 17.00 | 15.50 | 14.25 | 13.00 |
| 0.068 | 0.055 | 0.046 | 0.039 | 0.034 |

Tolerance JIS-2class, Unitmm
Total number of coil=Active coil+2

# Compression Spring ϕ0.40

| Cost Code | Outer Diameter / Free Length | 2.9 | 3.2 | 3.5 | 4.0 | 4.5 | 5.0 |
|---|---|---|---|---|---|---|---|
| 1 | 3.0 | 2.00 | 2.00 | | | | |
| | | 7.029 | 5.003 | | | | |
| 1 | 4.0 | 3.25 | 3.00 | 2.50 | | | |
| | | 4.326 | 3.335 | 2.949 | | | |
| 1 | 5.0 | 4.50 | 4.00 | 3.25 | 2.75 | 2.25 | 2.00 |
| | | 3.124 | 2.502 | 2.269 | 1.712 | 1.416 | 1.128 |
| 1 | 6.5 | 6.00 | 5.50 | 4.50 | 3.75 | 3.00 | 2.50 |
| | | 2.343 | 1.819 | 1.638 | 1.255 | 1.062 | 0.903 |
| 1 | 8.0 | 8.00 | 7.00 | 6.00 | 4.75 | 4.00 | 3.25 |
| | | 1.757 | 1.429 | 1.229 | 0.991 | 0.797 | 0.694 |
| 2 | 10.0 | 10.25 | 9.00 | 7.50 | 6.00 | 5.00 | 4.25 |
| | | 1.372 | 1.112 | 0.983 | 0.785 | 0.637 | 0.531 |
| 2 | 12.0 | 12.50 | 11.00 | 9.50 | 7.50 | 6.25 | 5.25 |
| | | 1.125 | 0.910 | 0.776 | 0.628 | 0.510 | 0.430 |
| 2 | 14.0 | 14.75 | 13.00 | 11.00 | 9.00 | 7.25 | 6.25 |
| | | 0.953 | 0.770 | 0.670 | 0.523 | 0.440 | 0.361 |
| 2 | 17.0 | 18.25 | 16.00 | 13.25 | 11.00 | 9.00 | 7.75 |
| | | 0.770 | 0.625 | 0.556 | 0.428 | 0.354 | 0.291 |
| 3 | 20.0 | 21.75 | 19.00 | 16.25 | 13.00 | 10.75 | 9.00 |
| | | 0.646 | 0.527 | 0.454 | 0.362 | 0.296 | 0.251 |
| 3 | 23.0 | | 22.00 | 18.75 | 15.00 | 12.50 | 10.50 |
| | | | 0.455 | 0.393 | 0.314 | 0.255 | 0.215 |
| 3 | 26.0 | | 25.00 | 21.50 | 17.25 | 14.00 | 12.00 |
| | | | 0.400 | 0.343 | 0.273 | 0.228 | 0.188 |
| 4 | 30.0 | | | 25.00 | 20.00 | 16.50 | 14.00 |
| | | | | 0.295 | 0.235 | 0.193 | 0.161 |
| 4 | 35.0 | | | | 23.50 | 19.25 | 16.50 |
| | | | | | 0.200 | 0.166 | 0.137 |
| 5 | 40.0 | | | | | | 18.75 |
| | | | | | | | 0.120 |

## Wire Dia : ϕ0.40·····144 Description

The top:Active coil  The lower:Spring constant(N/㎜)  Outer Diameter and Free length:
Solid(Length)Hight ≒ Dia × (Active Coil + 3)  Max Deflection ≒ Free length − Solid Hight

## Dia:ϕ0.40, Material:SUS304WPB, No grinding, Right

| 5.5 | 6.0 | 6.5 | 7.0 | 7.5 | 8.0 |
|---|---|---|---|---|---|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| 1.75 | | | | | |
| 0.946 | | | | | |
| 2.50 | 2.25 | 2.00 | 1.75 | 1.75 | 1.50 |
| 0.662 | 0.556 | 0.484 | 0.437 | 0.351 | 0.334 |
| 3.00 | 2.75 | 2.50 | 2.25 | 2.25 | 2.00 |
| 0.552 | 0.455 | 0.387 | 0.340 | 0.273 | 0.250 |
| 4.00 | 3.50 | 3.25 | 3.00 | 2.75 | 2.50 |
| 0.414 | 0.357 | 0.298 | 0.255 | 0.223 | 0.200 |
| 4.75 | 4.25 | 4.00 | 3.75 | 3.50 | 3.25 |
| 0.349 | 0.294 | 0.242 | 0.204 | 0.175 | 0.154 |
| 5.75 | 5.00 | 4.75 | 4.50 | 4.00 | 3.75 |
| 0.288 | 0.250 | 0.204 | 0.170 | 0.153 | 0.133 |
| 7.00 | 6.25 | 5.75 | 5.50 | 5.00 | 4.75 |
| 0.237 | 0.200 | 0.168 | 0.139 | 0.123 | 0.105 |
| 8.25 | 7.50 | 7.00 | 6.50 | 6.00 | 5.50 |
| 0.201 | 0.167 | 0.138 | 0.118 | 0.102 | 0.091 |
| 9.50 | 8.75 | 8.00 | 7.50 | 7.00 | 6.50 |
| 0.174 | 0.143 | 0.121 | 0.102 | 0.088 | 0.077 |
| 10.25 | 10.00 | 9.00 | 8.50 | 7.75 | 7.25 |
| 0.162 | 0.125 | 0.108 | 0.090 | 0.079 | 0.069 |
| 12.50 | 11.50 | 10.50 | 9.75 | 9.00 | 8.50 |
| 0.132 | 0.109 | 0.092 | 0.078 | 0.068 | 0.059 |
| 14.75 | 13.50 | 12.50 | 11.50 | 10.75 | 10.00 |
| 0.112 | 0.093 | 0.077 | 0.066 | 0.057 | 0.050 |
| 17.00 | 15.50 | 14.25 | 13.00 | 12.25 | 11.50 |
| 0.097 | 0.081 | 0.068 | 0.059 | 0.050 | 0.044 |

Tolerance JIS-2class, Unitmm
Total number of coil=Active coil+2

# Compression Spring ϕ0.45

SUS

| Cost Code | Outer Diameter / Free Length | 3.2 | 3.5 | 4.0 | 4.5 | 5.0 | 5.5 |
|---|---|---|---|---|---|---|---|
| 1 | 3.0 | 1.75 | | | | | |
| | | 9.668 | | | | | |
| 1 | 4.0 | 3.00 | 2.50 | | | | |
| | | 5.639 | 4.960 | | | | |
| 1 | 5.0 | 4.00 | 3.50 | 3.00 | 2.50 | 2.00 | 1.75 |
| | | 4.230 | 3.543 | 2.621 | 2.119 | 1.868 | 1.561 |
| 1 | 6.5 | 5.50 | 5.00 | 4.00 | 3.50 | 2.75 | 2.50 |
| | | 3.076 | 2.480 | 1.966 | 1.513 | 1.358 | 1.093 |
| 1 | 8.0 | 7.25 | 6.50 | 5.25 | 4.25 | 3.50 | 3.00 |
| | | 2.334 | 1.908 | 1.498 | 1.246 | 1.067 | 0.911 |
| 2 | 10.0 | 9.50 | 8.25 | 6.75 | 5.50 | 4.75 | 4.00 |
| | | 1.781 | 1.503 | 1.165 | 0.963 | 0.786 | 0.683 |
| 2 | 12.0 | 11.50 | 10.25 | 8.25 | 7.00 | 5.75 | 4.75 |
| | | 1.471 | 1.210 | 0.953 | 0.757 | 0.650 | 0.575 |
| 2 | 14.0 | 13.75 | 12.00 | 10.00 | 8.25 | 6.75 | 5.75 |
| | | 1.230 | 1.033 | 0.786 | 0.642 | 0.553 | 0.475 |
| 2 | 17.0 | 17.00 | 15.00 | 12.25 | 10.00 | 8.50 | 7.00 |
| | | 0.995 | 0.827 | 0.642 | 0.530 | 0.439 | 0.390 |
| 3 | 20.0 | 20.25 | 17.75 | 14.50 | 12.00 | 10.00 | 8.50 |
| | | 0.835 | 0.699 | 0.542 | 0.441 | 0.374 | 0.321 |
| 3 | 23.0 | 23.50 | 20.75 | 16.75 | 14.00 | 11.50 | 9.75 |
| | | 0.720 | 0.598 | 0.470 | 0.378 | 0.325 | 0.280 |
| 4 | 26.0 | 26.75 | 23.50 | 19.25 | 16.00 | 13.25 | 11.00 |
| | | 0.632 | 0.528 | 0.409 | 0.331 | 0.282 | 0.248 |
| 4 | 30.0 | | 27.25 | 22.25 | 18.50 | 15.25 | 13.00 |
| | | | 0.455 | 0.353 | 0.286 | 0.245 | 0.210 |
| 5 | 35.0 | | | 26.00 | 21.50 | 18.00 | 15.00 |
| | | | | 0.302 | 0.246 | 0.208 | 0.182 |
| 5 | 40.0 | | | | | 20.50 | 17.50 |
| | | | | | | 0.182 | 0.156 |

## Wire Dia : ϕ0.45·····158 Description

The top:Active coil  The lower:Spring constant(N/㎜)  Outer Diameter and Free length:
Solid(Length)Hight ≒ Dia×(Active Coil+3)  Max Deflection ≒ Free length−Solid Hight

## Dia:ϕ0.45, Material:SUS304WPB, No grinding, Right

| 6.0 | 6.5 | 7.0 | 7.5 | 8.0 | 8.5 | 9.0 |
|---|---|---|---|---|---|---|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| 2.00 | 2.00 | 1.75 | 1.75 | 1.50 | 1.50 | 1.50 |
| 1.029 | 0.794 | 0.715 | 0.574 | 0.545 | 0.450 | 0.375 |
| 2.75 | 2.50 | 2.25 | 2.25 | 2.00 | 2.00 | 1.75 |
| 0.748 | 0.636 | 0.556 | 0.446 | 0.409 | 0.337 | 0.322 |
| 3.50 | 3.25 | 3.00 | 2.75 | 2.50 | 2.50 | 2.25 |
| 0.588 | 0.489 | 0.417 | 0.365 | 0.327 | 0.270 | 0.250 |
| 4.25 | 4.00 | 3.75 | 3.50 | 3.25 | 3.00 | 2.75 |
| 0.484 | 0.397 | 0.334 | 0.287 | 0.252 | 0.225 | 0.205 |
| 5.00 | 4.75 | 4.50 | 4.00 | 3.75 | 3.50 | 3.25 |
| 0.412 | 0.334 | 0.278 | 0.251 | 0.218 | 0.193 | 0.173 |
| 6.25 | 5.75 | 5.50 | 5.00 | 4.75 | 4.50 | 4.00 |
| 0.329 | 0.276 | 0.228 | 0.201 | 0.172 | 0.150 | 0.141 |
| 7.50 | 7.00 | 6.50 | 6.00 | 5.50 | 5.25 | 5.00 |
| 0.274 | 0.227 | 0.193 | 0.167 | 0.149 | 0.128 | 0.113 |
| 8.75 | 8.00 | 7.50 | 7.00 | 6.50 | 6.00 | 5.75 |
| 0.235 | 0.199 | 0.167 | 0.143 | 0.126 | 0.112 | 0.098 |
| 10.00 | 9.00 | 8.50 | 7.75 | 7.25 | 7.00 | 6.50 |
| 0.206 | 0.177 | 0.147 | 0.130 | 0.113 | 0.096 | 0.087 |
| 11.50 | 10.50 | 9.75 | 9.00 | 8.50 | 8.00 | 7.50 |
| 0.179 | 0.151 | 0.128 | 0.112 | 0.096 | 0.084 | 0.075 |
| 13.50 | 12.50 | 11.50 | 10.75 | 10.00 | 9.50 | 8.75 |
| 0.152 | 0.127 | 0.109 | 0.093 | 0.082 | 0.071 | 0.064 |
| 15.50 | 14.25 | 13.25 | 12.25 | 11.50 | 10.75 | 10.00 |
| 0.133 | 0.111 | 0.094 | 0.082 | 0.071 | 0.063 | 0.056 |

Tolerance JIS-2class, Unitmm
Total number of coil=Active coil+2

# Compression Spring ϕ0.50

| Cost Code | Outer Diameter / Free Length | 3.5 | 4.0 | 4.5 | 5.0 | 5.5 | 6.0 | 6.5 |
|---|---|---|---|---|---|---|---|---|
| 1 | 5.0 | 3.50 | | | | | | |
| | | 5.675 | | | | | | |
| 1 | 6.5 | 5.00 | 4.25 | 3.50 | 3.00 | 2.50 | | |
| | | 3.972 | 2.943 | 2.394 | 1.962 | 1.716 | | |
| 2 | 8.0 | 6.50 | 5.25 | 4.50 | 3.75 | 3.25 | 2.75 | 2.50 |
| | | 3.056 | 2.382 | 1.862 | 1.569 | 1.320 | 1.172 | 0.993 |
| 2 | 10.0 | 8.50 | 7.25 | 5.75 | 5.00 | 4.25 | 3.50 | 3.25 |
| | | 2.337 | 1.725 | 1.457 | 1.177 | 1.009 | 0.921 | 0.764 |
| 2 | 12.0 | 10.50 | 8.50 | 7.50 | 6.00 | 5.25 | 4.50 | 4.00 |
| | | 1.892 | 1.471 | 1.117 | 0.981 | 0.817 | 0.716 | 0.621 |
| 2 | 14.0 | 12.50 | 10.25 | 8.50 | 7.25 | 6.00 | 5.25 | 4.75 |
| | | 1.589 | 1.220 | 0.986 | 0.812 | 0.715 | 0.614 | 0.523 |
| 2 | 17.0 | 15.25 | 12.75 | 10.50 | 9.00 | 7.50 | 6.50 | 5.75 |
| | | 1.302 | 0.981 | 0.798 | 0.654 | 0.572 | 0.496 | 0.432 |
| 3 | 20.0 | 18.50 | 15.50 | 12.50 | 10.75 | 9.00 | 7.75 | 7.00 |
| | | 1.074 | 0.807 | 0.670 | 0.547 | 0.477 | 0.416 | 0.355 |
| 3 | 23.0 | 21.25 | 17.50 | 14.75 | 12.25 | 10.50 | 9.00 | 8.00 |
| | | 0.935 | 0.715 | 0.568 | 0.480 | 0.409 | 0.358 | 0.310 |
| 4 | 26.0 | 24.25 | 20.00 | 16.75 | 14.00 | 11.75 | 10.25 | 9.00 |
| | | 0.819 | 0.625 | 0.500 | 0.420 | 0.365 | 0.314 | 0.276 |
| 4 | 30.0 | 28.50 | 23.50 | 19.50 | 16.50 | 13.75 | 11.75 | 10.50 |
| | | 0.697 | 0.532 | 0.430 | 0.357 | 0.312 | 0.274 | 0.236 |
| 5 | 35.0 | | 27.50 | 22.75 | 19.50 | 16.50 | 14.00 | 12.50 |
| | | | 0.455 | 0.368 | 0.302 | 0.260 | 0.230 | 0.199 |
| 5 | 40.0 | | | | 22.50 | 18.50 | 16.00 | 14.25 |
| | | | | | 0.262 | 0.232 | 0.201 | 0.174 |
| 6 | 45.0 | | | | | 21.00 | 18.00 | 16.50 |
| | | | | | | 0.204 | 0.179 | 0.150 |

## Wire Dia : ϕ0.50……164 Description

The top:Active coil The lower:Spring constant(N/㎜) Outer Diameter and Free length:
Solid(Length)Hight ≒ Dia×(Active Coil+3) Max Deflection ≒ Free length−Solid Hight

## Dia:ϕ0.50, Material:SUS304WPB, No grinding, Right

| 7.0 | 7.5 | 8.0 | 8.5 | 9.0 | 9.5 | 10.0 |
|---|---|---|---|---|---|---|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| 2.25 | 2.25 | 2.00 | 2.00 | 1.75 | | |
| 0.868 | 0.695 | 0.636 | 0.524 | 0.499 | | |
| 3.00 | 2.75 | 2.50 | 2.50 | 2.25 | 2.00 | 2.00 |
| 0.651 | 0.569 | 0.508 | 0.419 | 0.388 | 0.368 | 0.313 |
| 3.75 | 3.50 | 3.25 | 3.00 | 2.75 | 2.50 | 2.50 |
| 0.521 | 0.447 | 0.391 | 0.349 | 0.318 | 0.294 | 0.250 |
| 4.25 | 4.00 | 3.75 | 3.50 | 3.25 | 3.00 | 3.00 |
| 0.459 | 0.391 | 0.339 | 0.299 | 0.269 | 0.245 | 0.208 |
| 5.50 | 5.00 | 4.75 | 4.50 | 4.00 | 4.00 | 3.75 |
| 0.355 | 0.313 | 0.268 | 0.233 | 0.218 | 0.184 | 0.167 |
| 6.50 | 6.00 | 5.50 | 5.25 | 5.00 | 4.75 | 4.50 |
| 0.300 | 0.261 | 0.231 | 0.200 | 0.175 | 0.155 | 0.139 |
| 7.50 | 7.00 | 6.50 | 6.00 | 5.75 | 5.50 | 5.00 |
| 0.260 | 0.223 | 0.196 | 0.175 | 0.152 | 0.134 | 0.125 |
| 8.50 | 7.75 | 7.25 | 7.00 | 6.50 | 6.00 | 5.75 |
| 0.230 | 0.202 | 0.175 | 0.150 | 0.134 | 0.123 | 0.109 |
| 9.75 | 9.00 | 8.50 | 8.00 | 7.50 | 7.00 | 6.75 |
| 0.200 | 0.174 | 0.150 | 0.131 | 0.116 | 0.105 | 0.093 |
| 11.50 | 10.75 | 10.00 | 9.50 | 8.75 | 8.25 | 8.00 |
| 0.170 | 0.145 | 0.127 | 0.110 | 0.100 | 0.089 | 0.078 |
| 13.25 | 12.25 | 11.50 | 10.75 | 10.00 | 9.50 | 9.00 |
| 0.147 | 0.128 | 0.111 | 0.097 | 0.087 | 0.077 | 0.069 |
| 15.00 | 14.00 | 13.00 | 12.00 | 11.50 | 10.75 | 10.50 |
| 0.130 | 0.112 | 0.098 | 0.087 | 0.076 | 0.068 | 0.060 |

Tolerance JIS-2class, Unitmm
Total number of coil=Active coil+2

# Compression Spring $\phi$0.55

| Cost Code | Outer Diameter / Free Length | 4.0 | 4.5 | 5.0 | 5.5 | 6.0 | 6.5 | 7.0 |
|---|---|---|---|---|---|---|---|---|
| 2 | 6.5 | 4.25 | 3.50 | 3.00 | 2.50 | | | |
| | | 4.499 | 3.640 | 2.970 | 2.589 | | | |
| 2 | 8.0 | 5.50 | 4.50 | 4.00 | 3.50 | 3.00 | 2.50 | 2.25 |
| | | 3.476 | 2.831 | 2.227 | 1.850 | 1.617 | 1.491 | 1.300 |
| 2 | 10.0 | 7.25 | 6.25 | 5.00 | 4.50 | 3.75 | 3.25 | 3.00 |
| | | 2.637 | 2.038 | 1.782 | 1.439 | 1.293 | 1.147 | 0.975 |
| 2 | 12.0 | 9.00 | 7.50 | 6.50 | 5.50 | 4.75 | 4.00 | 3.50 |
| | | 2.124 | 1.699 | 1.371 | 1.177 | 1.021 | 0.932 | 0.836 |
| 2 | 14.0 | 10.75 | 9.00 | 7.50 | 6.50 | 5.50 | 4.75 | 4.25 |
| | | 1.779 | 1.416 | 1.188 | 0.996 | 0.882 | 0.785 | 0.688 |
| 3 | 17.0 | 13.25 | 11.00 | 9.50 | 8.00 | 7.00 | 6.00 | 5.25 |
| | | 1.443 | 1.158 | 0.938 | 0.809 | 0.693 | 0.621 | 0.557 |
| 3 | 20.0 | 15.75 | 13.25 | 11.25 | 9.75 | 8.25 | 7.00 | 6.50 |
| | | 1.214 | 0.961 | 0.792 | 0.664 | 0.588 | 0.532 | 0.450 |
| 3 | 23.0 | 18.25 | 15.50 | 13.00 | 11.25 | 9.50 | 8.25 | 7.50 |
| | | 1.048 | 0.822 | 0.685 | 0.575 | 0.511 | 0.452 | 0.390 |
| 4 | 26.0 | 21.00 | 17.50 | 15.00 | 12.75 | 11.00 | 9.50 | 8.50 |
| | | 0.910 | 0.728 | 0.594 | 0.508 | 0.441 | 0.392 | 0.344 |
| 4 | 30.0 | 24.25 | 20.50 | 17.25 | 14.75 | 12.75 | 11.00 | 9.75 |
| | | 0.788 | 0.621 | 0.517 | 0.439 | 0.380 | 0.339 | 0.300 |
| 5 | 35.0 | 28.50 | 24.00 | 20.50 | 17.50 | 15.00 | 13.00 | 11.50 |
| | | 0.671 | 0.531 | 0.435 | 0.370 | 0.323 | 0.287 | 0.254 |
| 5 | 40.0 | | | 23.50 | 20.00 | 17.25 | 15.00 | 13.25 |
| | | | | 0.379 | 0.324 | 0.281 | 0.248 | 0.221 |
| 6 | 45.0 | | | | 22.50 | 19.50 | 17.00 | 15.00 |
| | | | | | 0.288 | 0.249 | 0.219 | 0.195 |
| 6 | 50.0 | | | | | 21.50 | 18.75 | 16.75 |
| | | | | | | 0.226 | 0.199 | 0.175 |

## Wire Dia : $\phi$0.55·····174 Description

The top:Active coil  The lower:Spring constant(N/㎜)  Outer Diameter and Free length:
Solid(Length)Hight ≒ Dia × (Active Coil+3)  Max Deflection ≒ Free length − Solid Hight

## Dia:ϕ0.55, Material:SUS304WPB, No grinding, Right



| 7.5 | 8.0 | 8.5 | 9.0 | 9.5 | 10.0 | 11.0 |
|---|---|---|---|---|---|---|
| | | | | | | |
| | | | | | | |
| 2.00 | 2.00 | 1.75 | 1.75 | | | |
| 1.169 | 0.949 | 0.893 | 0.744 | | | |
| 2.75 | 2.50 | 2.50 | 2.25 | 2.25 | 2.00 | 1.75 |
| 0.850 | 0.760 | 0.625 | 0.578 | 0.487 | 0.465 | 0.393 |
| 3.25 | 3.00 | 3.00 | 2.75 | 2.50 | 2.50 | 2.25 |
| 0.720 | 0.633 | 0.521 | 0.473 | 0.438 | 0.372 | 0.306 |
| 4.00 | 3.75 | 3.50 | 3.25 | 3.00 | 3.00 | 2.75 |
| 0.585 | 0.506 | 0.446 | 0.400 | 0.365 | 0.310 | 0.250 |
| 5.00 | 4.50 | 4.25 | 4.00 | 4.00 | 3.75 | 3.25 |
| 0.468 | 0.422 | 0.368 | 0.325 | 0.274 | 0.248 | 0.212 |
| 6.00 | 5.50 | 5.25 | 5.00 | 4.50 | 4.50 | 4.00 |
| 0.390 | 0.345 | 0.298 | 0.260 | 0.243 | 0.207 | 0.172 |
| 7.00 | 6.50 | 6.00 | 5.75 | 5.25 | 5.00 | 4.50 |
| 0.334 | 0.292 | 0.260 | 0.226 | 0.209 | 0.186 | 0.153 |
| 7.75 | 7.25 | 7.00 | 6.50 | 6.00 | 5.75 | 5.25 |
| 0.302 | 0.262 | 0.223 | 0.200 | 0.183 | 0.162 | 0.131 |
| 9.00 | 8.50 | 8.00 | 7.50 | 7.00 | 6.75 | 6.00 |
| 0.260 | 0.223 | 0.195 | 0.174 | 0.156 | 0.138 | 0.115 |
| 10.75 | 10.00 | 9.50 | 8.75 | 8.25 | 8.00 | 7.00 |
| 0.218 | 0.190 | 0.164 | 0.149 | 0.133 | 0.116 | 0.098 |
| 12.25 | 11.50 | 10.75 | 10.00 | 9.50 | 9.00 | 8.25 |
| 0.191 | 0.165 | 0.145 | 0.130 | 0.115 | 0.103 | 0.083 |
| 14.00 | 13.00 | 12.25 | 11.50 | 10.75 | 10.50 | 9.50 |
| 0.167 | 0.146 | 0.128 | 0.113 | 0.102 | 0.089 | 0.072 |
| 15.50 | 14.50 | 13.50 | 12.75 | 12.00 | 11.50 | 10.25 |
| 0.151 | 0.131 | 0.116 | 0.102 | 0.091 | 0.081 | 0.067 |

Tolerance JIS-2class, Unitmm
Total number of coil=Active coil+2

# Compression Spring ϕ0.60

SUS

| Cost Code | Outer Diameter / Free Length | 4.0 | 4.5 | 5.0 | 5.5 | 6.0 | 6.5 | 7.0 |
|---|---|---|---|---|---|---|---|---|
| 2 | 6.5 | 4.00 | 3.75 | 3.00 | 2.50 | | | |
| | | 7.073 | 4.999 | 4.351 | 3.781 | | | |
| 2 | 8.0 | 5.00 | 4.75 | 4.00 | 3.50 | 3.00 | 2.50 | 2.25 |
| | | 5.658 | 3.947 | 3.264 | 2.701 | 2.354 | 2.166 | 1.885 |
| 2 | 10.0 | 6.75 | 6.25 | 5.25 | 4.50 | 4.00 | 3.50 | 3.00 |
| | | 4.191 | 2.999 | 2.486 | 2.100 | 1.765 | 1.547 | 1.414 |
| 2 | 12.0 | 8.50 | 7.75 | 6.75 | 5.75 | 5.00 | 4.50 | 3.75 |
| | | 3.329 | 2.419 | 1.934 | 1.644 | 1.412 | 1.203 | 1.131 |
| 2 | 14.0 | 10.00 | 9.25 | 8.00 | 6.75 | 6.00 | 5.00 | 4.50 |
| | | 2.829 | 2.027 | 1.632 | 1.400 | 1.177 | 1.083 | 0.943 |
| 3 | 17.0 | 12.50 | 11.50 | 10.00 | 8.50 | 7.25 | 6.25 | 5.50 |
| | | 2.263 | 1.630 | 1.305 | 1.112 | 0.974 | 0.866 | 0.771 |
| 3 | 20.0 | 15.00 | 13.75 | 11.75 | 10.00 | 8.75 | 7.50 | 6.50 |
| | | 1.886 | 1.363 | 1.111 | 0.945 | 0.807 | 0.722 | 0.653 |
| 4 | 23.0 | 17.50 | 16.00 | 13.75 | 11.75 | 10.00 | 8.75 | 7.75 |
| | | 1.617 | 1.172 | 0.949 | 0.804 | 0.706 | 0.619 | 0.547 |
| 4 | 26.0 | 20.00 | 18.25 | 15.75 | 13.50 | 11.50 | 10.00 | 8.75 |
| | | 1.415 | 1.027 | 0.829 | 0.700 | 0.614 | 0.541 | 0.485 |
| 5 | 30.0 | 23.25 | 21.25 | 18.25 | 15.50 | 13.50 | 11.75 | 10.25 |
| | | 1.217 | 0.882 | 0.715 | 0.610 | 0.523 | 0.461 | 0.414 |
| 5 | 35.0 | 27.25 | 25.00 | 21.50 | 18.50 | 16.00 | 13.75 | 12.00 |
| | | 1.038 | 0.750 | 0.607 | 0.511 | 0.441 | 0.394 | 0.353 |
| 6 | 40.0 | | | 31.00 | 21.25 | 18.25 | 15.75 | 14.00 |
| | | | | 0.421 | 0.445 | 0.387 | 0.344 | 0.303 |
| 6 | 45.0 | | | | 24.00 | 21.00 | 18.00 | 16.00 |
| | | | | | 0.394 | 0.336 | 0.301 | 0.265 |
| 7 | 50.0 | | | | | 23.00 | 20.00 | 17.50 |
| | | | | | | 0.307 | 0.271 | 0.242 |
| 7 | 55.0 | | | | | | 22.00 | 19.50 |
| | | | | | | | 0.246 | 0.218 |
| 8 | 60.0 | | | | | | | 21.00 |
| | | | | | | | | 0.202 |

## Wire Dia : ϕ0.60……204 Description

The top:Active coil The lower:Spring constant(N/㎜) Outer Diameter and Free length:
Solid(Length)Hight ≒ Dia×(Active Coil+3) Max Deflection ≒ Free length−Solid Hight

## Dia:ϕ0.60, Material:SUS304WPB, No grinding, Right

| 7.5 | 8.0 | 8.5 | 9.0 | 9.5 | 10.0 | 11.0 | 12.0 |
|---|---|---|---|---|---|---|---|
| | | | | | | | |
| | | | | | | | |
| 2.00 | 2.00 | 1.75 | 1.75 | | | | |
| 1.692 | 1.372 | 1.289 | 1.072 | | | | |
| 2.75 | 2.50 | 2.50 | 2.25 | 2.25 | 2.00 | 1.75 | |
| 1.231 | 1.098 | 0.902 | 0.834 | 0.701 | 0.669 | 0.565 | |
| 3.50 | 3.00 | 3.00 | 2.75 | 2.50 | 2.50 | 2.25 | 2.00 |
| 0.967 | 0.915 | 0.752 | 0.682 | 0.631 | 0.536 | 0.439 | 0.375 |
| 4.25 | 3.75 | 3.50 | 3.25 | 3.00 | 3.00 | 2.75 | 2.50 |
| 0.796 | 0.732 | 0.644 | 0.577 | 0.526 | 0.446 | 0.359 | 0.300 |
| 5.00 | 4.50 | 4.25 | 4.00 | 3.75 | 3.75 | 3.25 | 3.00 |
| 0.677 | 0.610 | 0.531 | 0.469 | 0.421 | 0.357 | 0.304 | 0.250 |
| 6.00 | 5.50 | 5.25 | 5.00 | 4.50 | 4.50 | 4.00 | 3.50 |
| 0.564 | 0.499 | 0.430 | 0.375 | 0.351 | 0.298 | 0.247 | 0.214 |
| 7.25 | 6.50 | 6.00 | 5.75 | 5.50 | 5.00 | 4.50 | 4.25 |
| 0.467 | 0.422 | 0.376 | 0.326 | 0.287 | 0.268 | 0.220 | 0.177 |
| 8.25 | 7.25 | 7.00 | 6.50 | 6.00 | 5.75 | 5.25 | 4.75 |
| 0.410 | 0.379 | 0.322 | 0.289 | 0.263 | 0.233 | 0.188 | 0.158 |
| 9.50 | 8.50 | 8.00 | 7.50 | 7.00 | 6.75 | 6.00 | 5.50 |
| 0.356 | 0.323 | 0.282 | 0.250 | 0.225 | 0.198 | 0.165 | 0.136 |
| 11.00 | 10.00 | 9.50 | 8.75 | 8.50 | 8.00 | 7.00 | 6.50 |
| 0.308 | 0.274 | 0.237 | 0.214 | 0.186 | 0.167 | 0.141 | 0.115 |
| 13.00 | 11.50 | 10.75 | 10.25 | 9.50 | 9.00 | 8.25 | 7.50 |
| 0.260 | 0.239 | 0.210 | 0.183 | 0.166 | 0.149 | 0.120 | 0.100 |
| 14.50 | 13.00 | 12.25 | 11.50 | 11.00 | 10.50 | 9.50 | 8.50 |
| 0.233 | 0.211 | 0.184 | 0.163 | 0.143 | 0.128 | 0.104 | 0.088 |
| 16.25 | 14.50 | 13.50 | 12.75 | 12.00 | 11.50 | 10.25 | 9.50 |
| 0.208 | 0.189 | 0.167 | 0.147 | 0.131 | 0.116 | 0.096 | 0.079 |
| 18.00 | 16.00 | 15.00 | 14.00 | 13.50 | 12.50 | 11.50 | 10.50 |
| 0.188 | 0.172 | 0.150 | 0.134 | 0.117 | 0.107 | 0.086 | 0.071 |
| 19.50 | 17.50 | 16.50 | 15.50 | 14.75 | 13.75 | 12.50 | 11.50 |
| 0.174 | 0.157 | 0.137 | 0.121 | 0.107 | 0.097 | 0.079 | 0.065 |

Tolerance JIS-2class, Unitmm
Total number of coil=Active coil+2

# Compression Spring ϕ0.65

| Cost Code | Outer Diameter / Free Length | 4.5 | 5.0 | 5.5 | 6.0 | 6.5 | 7.0 | 7.5 |
|---|---|---|---|---|---|---|---|---|
| 2 | 6.5 | 3.50 | 3.00 | 2.50 | 2.25 | | | |
| | | 7.668 | 6.202 | 5.370 | 4.445 | | | |
| 2 | 8.0 | 4.50 | 4.00 | 3.50 | 3.00 | 2.50 | 2.25 | 2.00 |
| | | 5.964 | 4.652 | 3.836 | 3.334 | 3.060 | 2.659 | 2.383 |
| 2 | 10.0 | 6.00 | 5.25 | 4.50 | 4.00 | 3.50 | 3.00 | 2.75 |
| | | 4.473 | 3.544 | 2.983 | 2.501 | 2.186 | 1.994 | 1.733 |
| 2 | 12.0 | 7.50 | 6.50 | 5.50 | 5.00 | 4.25 | 3.75 | 3.50 |
| | | 3.579 | 2.863 | 2.441 | 2.000 | 1.800 | 1.595 | 1.361 |
| 3 | 14.0 | 9.00 | 7.75 | 6.75 | 6.00 | 5.00 | 4.50 | 4.00 |
| | | 2.982 | 2.401 | 1.989 | 1.667 | 1.530 | 1.329 | 1.191 |
| 3 | 17.0 | 11.25 | 9.75 | 8.50 | 7.25 | 6.25 | 5.50 | 5.00 |
| | | 2.386 | 1.908 | 1.579 | 1.380 | 1.224 | 1.088 | 0.953 |
| 4 | 20.0 | 13.50 | 11.50 | 10.00 | 8.75 | 7.50 | 6.75 | 6.00 |
| | | 1.988 | 1.618 | 1.343 | 1.143 | 1.020 | 0.886 | 0.794 |
| 4 | 23.0 | 15.75 | 13.50 | 11.75 | 10.25 | 9.00 | 7.75 | 7.00 |
| | | 1.704 | 1.378 | 1.143 | 0.976 | 0.850 | 0.772 | 0.681 |
| 5 | 26.0 | 18.00 | 15.50 | 13.50 | 11.50 | 10.00 | 9.00 | 8.00 |
| | | 1.491 | 1.200 | 0.994 | 0.870 | 0.765 | 0.665 | 0.596 |
| 5 | 30.0 | 21.00 | 18.00 | 15.50 | 13.50 | 11.75 | 10.50 | 9.50 |
| | | 1.278 | 1.034 | 0.866 | 0.741 | 0.651 | 0.570 | 0.502 |
| 6 | 35.0 | 24.75 | 21.25 | 18.25 | 16.00 | 14.00 | 12.25 | 11.25 |
| | | 1.084 | 0.876 | 0.736 | 0.625 | 0.546 | 0.488 | 0.424 |
| 6 | 40.0 | | 24.50 | 21.00 | 18.25 | 16.00 | 14.00 | 13.00 |
| | | | 0.759 | 0.639 | 0.548 | 0.478 | 0.427 | 0.367 |
| 7 | 45.0 | | | 24.00 | 20.75 | 18.00 | 16.00 | 14.50 |
| | | | | 0.559 | 0.482 | 0.425 | 0.374 | 0.329 |
| 7 | 50.0 | | | | 23.25 | 20.25 | 17.75 | 16.25 |
| | | | | | 0.430 | 0.378 | 0.337 | 0.293 |
| 8 | 55.0 | | | | | 22.25 | 19.50 | 18.00 |
| | | | | | | 0.344 | 0.307 | 0.265 |
| 8 | 60.0 | | | | | | 21.50 | 19.50 |
| | | | | | | | 0.278 | 0.244 |

## Wire Dia : ϕ0.65·····203 Description

The top:Active coil The lower:Spring constant(N/㎜) Outer Diameter and Free length:
Solid(Length)Hight ≒ Dia × (Active Coil+3) Max Deflection ≒ Free length − Solid Hight

## Dia:ϕ0.65, Material:SUS304WPB, No grinding, Right



| 8.0 | 8.5 | 9.0 | 9.5 | 10.0 | 11.0 | 12.0 | 13.0 |
|---|---|---|---|---|---|---|---|
| | | | | | | | |
| | | | | | | | |
| 2.00 | 1.75 | 1.75 | | | | | |
| 1.929 | 1.809 | 1.503 | | | | | |
| 2.50 | 2.50 | 2.25 | 2.25 | 2.00 | | | |
| 1.543 | 1.266 | 1.169 | 0.982 | 0.937 | | | |
| 3.25 | 3.00 | 2.75 | 2.75 | 2.50 | 2.25 | | |
| 1.187 | 1.055 | 0.957 | 0.804 | 0.750 | 0.614 | | |
| 3.75 | 3.50 | 3.50 | 3.25 | 3.00 | 2.75 | 2.50 | |
| 1.029 | 0.905 | 0.752 | 0.680 | 0.625 | 0.502 | 0.419 | |
| 4.75 | 4.50 | 4.25 | 4.00 | 3.75 | 3.50 | 3.00 | 3.00 |
| 0.812 | 0.704 | 0.619 | 0.552 | 0.500 | 0.395 | 0.349 | 0.271 |
| 5.75 | 5.50 | 5.00 | 4.75 | 4.50 | 4.00 | 3.75 | 3.50 |
| 0.671 | 0.576 | 0.526 | 0.465 | 0.416 | 0.345 | 0.279 | 0.232 |
| 6.75 | 6.25 | 6.00 | 5.75 | 5.25 | 4.75 | 4.50 | 4.00 |
| 0.571 | 0.507 | 0.438 | 0.384 | 0.357 | 0.291 | 0.233 | 0.203 |
| 7.75 | 7.25 | 6.75 | 6.50 | 6.00 | 5.50 | 5.00 | 4.50 |
| 0.498 | 0.437 | 0.390 | 0.340 | 0.312 | 0.251 | 0.210 | 0.181 |
| 9.00 | 8.25 | 8.00 | 7.50 | 7.00 | 6.50 | 5.75 | 5.25 |
| 0.429 | 0.384 | 0.329 | 0.295 | 0.268 | 0.213 | 0.182 | 0.155 |
| 10.50 | 9.75 | 9.25 | 8.75 | 8.25 | 7.50 | 6.75 | 6.25 |
| 0.367 | 0.325 | 0.284 | 0.253 | 0.227 | 0.184 | 0.155 | 0.130 |
| 12.00 | 11.25 | 10.50 | 10.00 | 9.50 | 8.50 | 7.75 | 7.25 |
| 0.321 | 0.281 | 0.251 | 0.221 | 0.197 | 0.163 | 0.135 | 0.112 |
| 13.75 | 12.75 | 12.00 | 11.00 | 10.75 | 9.75 | 9.00 | 8.25 |
| 0.281 | 0.248 | 0.219 | 0.201 | 0.174 | 0.142 | 0.116 | 0.099 |
| 15.25 | 14.25 | 13.50 | 12.75 | 12.00 | 10.75 | 10.00 | 9.00 |
| 0.253 | 0.222 | 0.195 | 0.173 | 0.156 | 0.129 | 0.105 | 0.090 |
| 16.75 | 15.75 | 14.75 | 14.00 | 13.25 | 12.00 | 11.00 | 10.00 |
| 0.230 | 0.201 | 0.178 | 0.158 | 0.141 | 0.115 | 0.095 | 0.081 |
| 18.50 | 17.25 | 16.25 | 15.25 | 14.50 | 13.00 | 12.00 | 11.00 |
| 0.209 | 0.184 | 0.162 | 0.145 | 0.129 | 0.106 | 0.087 | 0.074 |

Tolerance JIS-2class, Unitmm
Total number of coil=Active coil+2

# Compression Spring ϕ0.70

| Cost Code | Outer Diameter / Free Length | 4.5 | 5.0 | 5.5 | 6.0 | 6.5 | 7.0 | 7.5 |
|---|---|---|---|---|---|---|---|---|
| 2 | 6.5 | 3.50 | 3.00 | 2.75 | | | | |
| | | 10.727 | 8.637 | 6.774 | | | | |
| 2 | 8.0 | 4.75 | 4.25 | 3.75 | 3.25 | 3.00 | 2.50 | 2.25 |
| | | 7.904 | 6.097 | 4.967 | 4.258 | 3.520 | 3.296 | 2.912 |
| 2 | 10.0 | 6.50 | 5.75 | 5.00 | 4.50 | 4.00 | 3.50 | 3.00 |
| | | 5.776 | 4.506 | 3.726 | 3.075 | 2.640 | 2.354 | 2.184 |
| 3 | 12.0 | 8.00 | 7.00 | 6.25 | 5.50 | 4.75 | 4.25 | 4.00 |
| | | 4.693 | 3.702 | 2.980 | 2.516 | 2.223 | 1.939 | 1.638 |
| 3 | 14.0 | 9.75 | 8.50 | 7.50 | 6.50 | 5.75 | 5.25 | 4.75 |
| | | 3.851 | 3.048 | 2.484 | 2.129 | 1.836 | 1.569 | 1.379 |
| 4 | 17.0 | 11.75 | 10.50 | 9.25 | 8.25 | 7.25 | 6.50 | 5.75 |
| | | 3.195 | 2.468 | 2.014 | 1.677 | 1.456 | 1.268 | 1.139 |
| 4 | 20.0 | 14.50 | 12.75 | 11.00 | 9.75 | 8.75 | 7.75 | 7.00 |
| | | 2.589 | 2.032 | 1.693 | 1.419 | 1.207 | 1.063 | 0.936 |
| 5 | 23.0 | 17.00 | 14.75 | 13.00 | 11.50 | 10.00 | 9.00 | 8.25 |
| | | 2.208 | 1.757 | 1.433 | 1.203 | 1.056 | 0.915 | 0.794 |
| 5 | 26.0 | 19.50 | 17.00 | 14.75 | 13.00 | 11.50 | 10.25 | 9.25 |
| | | 1.925 | 1.524 | 1.263 | 1.064 | 0.918 | 0.804 | 0.708 |
| 6 | 30.0 | 22.50 | 19.75 | 17.25 | 15.25 | 13.50 | 12.00 | 10.75 |
| | | 1.669 | 1.312 | 1.080 | 0.907 | 0.782 | 0.687 | 0.609 |
| 6 | 35.0 | 26.50 | 23.25 | 20.50 | 18.00 | 16.00 | 14.00 | 12.75 |
| | | 1.417 | 1.114 | 0.909 | 0.769 | 0.660 | 0.588 | 0.514 |
| 7 | 40.0 | | 26.75 | 23.50 | 20.75 | 18.25 | 16.00 | 14.75 |
| | | | 0.969 | 0.793 | 0.667 | 0.579 | 0.515 | 0.444 |
| 7 | 45.0 | | | 26.50 | 23.50 | 21.00 | 18.50 | 16.75 |
| | | | | 0.703 | 0.589 | 0.503 | 0.445 | 0.391 |
| 8 | 50.0 | | | | 26.25 | 23.00 | 20.50 | 18.50 |
| | | | | | 0.527 | 0.459 | 0.402 | 0.354 |
| 8 | 55.0 | | | | | 25.50 | 22.50 | 20.50 |
| | | | | | | 0.414 | 0.366 | 0.320 |
| 9 | 60.0 | | | | | | 24.50 | 22.50 |
| | | | | | | | 0.336 | 0.291 |

## Wire Dia : ϕ0.70……218 Description

The top:Active coil  The lower:Spring constant(N/㎜)  Outer Diameter and Free length:
Solid(Length)Hight ≒ Dia × (Active Coil+3)  Max Deflection ≒ Free length − Solid Hight

## Dia:ϕ0.70, Material:SUS304WPB, No grinding, Right



| 8.0 | 8.5 | 9.0 | 9.5 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
| | | | | | | | | |
| 2.00 | 2.00 | 1.75 | | | | | | |
| 2.648 | 2.171 | 2.059 | | | | | | |
| 2.75 | 2.50 | 2.25 | 2.00 | 2.00 | 1.75 | | | |
| 1.926 | 1.736 | 1.601 | 1.512 | 1.281 | 1.077 | | | |
| 3.50 | 3.00 | 2.75 | 2.50 | 2.50 | 2.25 | 2.00 | 1.75 | |
| 1.513 | 1.447 | 1.310 | 1.209 | 1.024 | 0.838 | 0.714 | 0.633 | |
| 4.00 | 3.75 | 3.25 | 3.00 | 3.00 | 2.75 | 2.50 | 2.25 | 2.00 |
| 1.324 | 1.158 | 1.109 | 1.008 | 0.854 | 0.686 | 0.571 | 0.492 | 0.438 |
| 5.00 | 4.50 | 4.00 | 3.75 | 3.75 | 3.25 | 3.00 | 2.75 | 2.50 |
| 1.059 | 0.965 | 0.901 | 0.806 | 0.683 | 0.580 | 0.476 | 0.403 | 0.350 |
| 6.00 | 5.50 | 5.00 | 4.50 | 4.25 | 4.00 | 3.50 | 3.25 | 3.00 |
| 0.883 | 0.789 | 0.721 | 0.672 | 0.603 | 0.471 | 0.408 | 0.341 | 0.292 |
| 7.00 | 6.50 | 5.75 | 5.25 | 5.00 | 4.50 | 4.25 | 4.00 | 3.50 |
| 0.757 | 0.668 | 0.627 | 0.576 | 0.512 | 0.419 | 0.336 | 0.277 | 0.250 |
| 8.00 | 7.50 | 6.50 | 6.00 | 5.75 | 5.25 | 4.75 | 4.50 | 4.00 |
| 0.662 | 0.579 | 0.554 | 0.504 | 0.445 | 0.359 | 0.301 | 0.246 | 0.219 |
| 9.50 | 8.50 | 7.50 | 7.00 | 6.75 | 6.00 | 5.50 | 5.00 | 4.75 |
| 0.557 | 0.511 | 0.480 | 0.432 | 0.379 | 0.314 | 0.260 | 0.221 | 0.184 |
| 11.00 | 10.00 | 9.00 | 8.50 | 8.00 | 7.25 | 6.50 | 6.00 | 5.50 |
| 0.481 | 0.434 | 0.400 | 0.356 | 0.320 | 0.260 | 0.220 | 0.185 | 0.159 |
| 12.75 | 11.75 | 10.25 | 9.50 | 9.00 | 8.25 | 7.50 | 7.00 | 6.50 |
| 0.415 | 0.369 | 0.352 | 0.318 | 0.285 | 0.229 | 0.190 | 0.158 | 0.135 |
| 14.50 | 13.25 | 12.00 | 11.00 | 10.50 | 9.50 | 8.50 | 8.00 | 7.50 |
| 0.365 | 0.328 | 0.300 | 0.275 | 0.244 | 0.198 | 0.168 | 0.138 | 0.117 |
| 16.25 | 14.75 | 13.00 | 12.00 | 11.50 | 10.50 | 9.50 | 8.75 | 8.00 |
| 0.326 | 0.294 | 0.277 | 0.252 | 0.223 | 0.180 | 0.150 | 0.127 | 0.109 |
| 18.00 | 16.25 | 14.50 | 13.50 | 13.00 | 11.50 | 10.50 | 10.00 | 9.00 |
| 0.294 | 0.267 | 0.248 | 0.224 | 0.197 | 0.164 | 0.136 | 0.111 | 0.097 |
| 19.50 | 17.75 | 15.75 | 14.75 | 14.00 | 12.50 | 11.50 | 10.50 | 9.75 |
| 0.272 | 0.245 | 0.229 | 0.205 | 0.183 | 0.151 | 0.124 | 0.105 | 0.090 |

Tolerance JIS-2class, Unitmm
Total number of coil=Active coil+2

# Compression Spring ϕ0.80

SUS

| Cost Code | Outer Diameter / Free Length | 5.0 | 5.5 | 6.0 | 6.5 | 7.0 | 7.5 | 8.0 |
|---|---|---|---|---|---|---|---|---|
| 3 | 6.5 | 3.00<br>15.812 | 2.75<br>12.309 | | | | | |
| 3 | 8.0 | 4.00<br>11.859 | 3.75<br>9.027 | 3.25<br>7.691 | 3.00<br>6.326 | 2.50<br>5.899 | 2.50<br>4.674 | 2.00<br>4.708 |
| 3 | 10.0 | 5.50<br>8.625 | 5.00<br>6.770 | 4.50<br>5.554 | 4.00<br>4.744 | 3.50<br>4.213 | 3.25<br>3.595 | 3.00<br>3.139 |
| 4 | 12.0 | 7.00<br>6.777 | 6.25<br>5.416 | 5.50<br>4.545 | 5.00<br>3.795 | 4.50<br>3.277 | 4.00<br>2.921 | 3.75<br>2.511 |
| 4 | 14.0 | 8.50<br>5.581 | 7.50<br>4.513 | 6.75<br>3.703 | 6.00<br>3.163 | 5.50<br>2.681 | 5.00<br>2.337 | 4.50<br>2.092 |
| 5 | 17.0 | 10.75<br>4.413 | 9.50<br>3.563 | 8.50<br>2.941 | 7.50<br>2.530 | 6.75<br>2.185 | 6.00<br>1.948 | 5.50<br>1.712 |
| 5 | 20.0 | 13.00<br>3.649 | 11.50<br>2.944 | 10.25<br>2.439 | 9.00<br>2.109 | 8.25<br>1.787 | 7.50<br>1.558 | 6.50<br>1.449 |
| 6 | 23.0 | 15.00<br>3.162 | 13.50<br>2.507 | 12.00<br>2.083 | 10.75<br>1.765 | 9.50<br>1.552 | 8.50<br>1.375 | 7.75<br>1.215 |
| 6 | 26.0 | 17.25<br>2.750 | 15.50<br>2.184 | 13.75<br>1.818 | 12.25<br>1.549 | 11.00<br>1.341 | 9.75<br>1.198 | 8.75<br>1.076 |
| 7 | 30.0 | 20.25<br>2.343 | 18.00<br>1.881 | 16.00<br>1.562 | 14.25<br>1.332 | 12.75<br>1.157 | 11.50<br>1.016 | 10.25<br>0.919 |
| 7 | 35.0 | 23.75<br>1.997 | 21.25<br>1.593 | 19.00<br>1.316 | 17.00<br>1.116 | 15.00<br>0.983 | 13.50<br>0.866 | 12.00<br>0.785 |
| 8 | 40.0 | 27.50<br>1.725 | 24.50<br>1.382 | 21.75<br>1.149 | 19.50<br>0.973 | 17.50<br>0.843 | 15.75<br>0.742 | 14.00<br>0.673 |
| 8 | 45.0 | | 28.00<br>1.209 | 25.00<br>1.000 | 22.00<br>0.863 | 20.00<br>0.737 | 17.75<br>0.658 | 16.00<br>0.588 |
| 9 | 50.0 | | | 27.50<br>0.909 | 24.50<br>0.775 | 22.00<br>0.670 | 19.75<br>0.592 | 17.75<br>0.530 |
| 9 | 55.0 | | | | 27.50<br>0.690 | 24.50<br>0.602 | 22.00<br>0.531 | 19.50<br>0.483 |
| 10 | 60.0 | | | | | 26.50<br>0.556 | 24.00<br>0.487 | 21.50<br>0.438 |
| 10 | 65.0 | | | | | | | 23.50<br>0.401 |
| 11 | 70.0 | | | | | | | |

## Wire Dia : ϕ0.80·····264 Description

The top:Active coil  The lower:Spring constant(N/㎜)  Outer Diameter and Free length:
Solid(Length)Hight ≒ Dia×(Active Coil+3)  Max Deflection ≒ Free length−Solid Hight

## Dia:$\phi$0.80, Material:SUS304WPB, No grinding, Right

| 8.5 | 9.0 | 9.5 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |
| | | | | | | | | | |
| 2.00 | 1.75 | | | | | | | | |
| 3.849 | 3.642 | | | | | | | | |
| 2.50 | 2.25 | 2.25 | 2.00 | 1.75 | | | | | |
| 3.079 | 2.833 | 2.372 | 2.257 | 1.892 | | | | | |
| 3.25 | 3.00 | 2.75 | 2.50 | 2.00 | 2.00 | 1.75 | | | |
| 2.369 | 2.125 | 1.941 | 1.805 | 1.656 | 1.251 | 1.106 | | | |
| 4.00 | 3.50 | 3.25 | 3.00 | 2.50 | 2.50 | 2.25 | 2.00 | 2.00 | 1.75 |
| 1.925 | 1.821 | 1.642 | 1.504 | 1.325 | 1.001 | 0.860 | 0.764 | 0.614 | 0.572 |
| 5.00 | 4.50 | 4.00 | 3.75 | 3.25 | 3.00 | 2.75 | 2.50 | 2.25 | 2.25 |
| 1.540 | 1.416 | 1.334 | 1.204 | 1.019 | 0.834 | 0.704 | 0.611 | 0.546 | 0.445 |
| 6.00 | 5.50 | 5.00 | 4.50 | 4.00 | 3.50 | 3.25 | 3.00 | 2.75 | 2.50 |
| 1.283 | 1.159 | 1.067 | 1.003 | 0.828 | 0.715 | 0.596 | 0.509 | 0.446 | 0.400 |
| 7.00 | 6.25 | 5.75 | 5.25 | 4.50 | 4.00 | 3.75 | 3.50 | 3.25 | 3.00 |
| 1.100 | 1.020 | 0.928 | 0.860 | 0.736 | 0.625 | 0.516 | 0.437 | 0.378 | 0.334 |
| 8.00 | 7.25 | 6.50 | 6.00 | 5.25 | 4.75 | 4.25 | 4.00 | 3.75 | 3.50 |
| 0.962 | 0.879 | 0.821 | 0.752 | 0.631 | 0.527 | 0.455 | 0.382 | 0.327 | 0.286 |
| 9.50 | 8.50 | 7.75 | 7.00 | 6.00 | 5.50 | 5.00 | 4.75 | 4.50 | 4.00 |
| 0.810 | 0.750 | 0.689 | 0.645 | 0.552 | 0.455 | 0.387 | 0.322 | 0.273 | 0.250 |
| 11.00 | 10.00 | 9.00 | 8.25 | 7.00 | 6.50 | 6.00 | 5.50 | 5.25 | 4.75 |
| 0.700 | 0.637 | 0.593 | 0.547 | 0.473 | 0.385 | 0.323 | 0.278 | 0.234 | 0.211 |
| 12.75 | 11.50 | 10.50 | 9.50 | 8.25 | 7.50 | 7.00 | 6.50 | 6.00 | 5.50 |
| 0.604 | 0.554 | 0.508 | 0.475 | 0.401 | 0.334 | 0.276 | 0.235 | 0.205 | 0.182 |
| 14.50 | 13.00 | 12.00 | 11.00 | 9.50 | 8.50 | 8.00 | 7.50 | 7.00 | 6.50 |
| 0.531 | 0.490 | 0.445 | 0.410 | 0.349 | 0.294 | 0.242 | 0.204 | 0.175 | 0.154 |
| 16.00 | 14.50 | 13.25 | 12.00 | 10.50 | 9.50 | 8.75 | 8.00 | 7.50 | 7.00 |
| 0.481 | 0.440 | 0.403 | 0.376 | 0.315 | 0.263 | 0.221 | 0.191 | 0.164 | 0.143 |
| 17.75 | 16.00 | 14.75 | 13.50 | 11.50 | 10.50 | 10.00 | 9.00 | 8.50 | 8.00 |
| 0.434 | 0.398 | 0.362 | 0.334 | 0.288 | 0.238 | 0.194 | 0.170 | 0.144 | 0.125 |
| 19.50 | 17.50 | 16.00 | 14.50 | 12.50 | 11.50 | 10.50 | 9.75 | 9.00 | 8.50 |
| 0.395 | 0.364 | 0.334 | 0.311 | 0.265 | 0.218 | 0.184 | 0.157 | 0.136 | 0.118 |
| 21.50 | 19.00 | 17.50 | 16.00 | 14.00 | 12.50 | 11.50 | 11.00 | 10.00 | 9.50 |
| 0.358 | 0.335 | 0.305 | 0.282 | 0.237 | 0.200 | 0.168 | 0.139 | 0.123 | 0.105 |
| | 20.50 | 18.75 | 17.00 | 15.00 | 13.50 | 12.50 | 11.50 | 11.00 | 10.00 |
| | 0.311 | 0.285 | 0.265 | 0.221 | 0.185 | 0.155 | 0.133 | 0.112 | 0.100 |

Continued to reverse side.

Tolerance JIS-2class, Unitmm
Total number of coil=Active coil+2

# Compression Spring ϕ0.80

SUS

| Cost Code | Outer Diameter / Free Length | 5.0 | 5.5 | 6.0 | 6.5 | 7.0 | 7.5 | 8.0 |
|---|---|---|---|---|---|---|---|---|
| 11 | 75.0 | | | | | | | |
| 12 | 80.0 | | | | | | | |

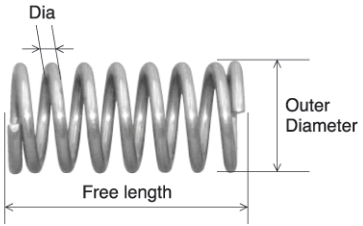
## Wire Dia : ϕ0.80·····264 Description

The top:Active coil The lower:Spring constant(N/㎜) Outer Diameter and Free length:
Solid(Length)Hight ≒ Dia × (Active Coil+3) Max Deflection ≒ Free length − Solid Hight

## Dia:ϕ0.80, Material:SUS304WPB, No grinding, Right

| 8.5 | 9.0 | 9.5 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 |
|---|---|---|---|---|---|---|---|---|---|
| | | | 18.25 | 15.75 | 14.50 | 13.25 | 12.25 | 11.50 | 10.75 |
| | | | 0.247 | 0.210 | 0.173 | 0.146 | 0.125 | 0.107 | 0.093 |
| | | | | 17.00 | 15.50 | 14.50 | 13.00 | 12.50 | 11.50 |
| | | | | 0.195 | 0.161 | 0.133 | 0.118 | 0.098 | 0.087 |

Tolerance JIS-2class, Unitmm
Total number of coil=Active coil+2




Wire Dia : ϕ0.18·····81 Description

# Compression Spring ϕ0.90

| Cost Code | Outer Diameter / Free Length | 5.5 | 6.0 | 6.5 | 7.0 | 7.5 | 8.0 | 8.5 |
|---|---|---|---|---|---|---|---|---|
| 3 | 8.0 | 3.50<br>16.525 | 3.25<br>13.058 | 3.00<br>10.685 | 2.75<br>9.019 | 2.50<br>7.832 | 2.25<br>6.991 | 2.00<br>6.412 |
| 4 | 10.0 | 5.00<br>11.567 | 4.50<br>9.431 | 4.00<br>8.014 | 3.75<br>6.614 | 3.25<br>6.025 | 3.00<br>5.243 | 2.75<br>4.663 |
| 4 | 12.0 | 6.25<br>9.254 | 5.75<br>7.381 | 5.00<br>6.411 | 4.75<br>5.221 | 4.25<br>4.607 | 3.75<br>4.194 | 3.50<br>3.664 |
| 4 | 14.0 | 7.50<br>7.711 | 7.00<br>6.063 | 6.25<br>5.129 | 5.50<br>4.509 | 5.00<br>3.916 | 4.50<br>3.495 | 4.25<br>3.017 |
| 5 | 17.0 | 9.50<br>6.088 | 8.75<br>4.850 | 8.00<br>4.007 | 7.00<br>3.543 | 6.50<br>3.012 | 5.75<br>2.735 | 5.25<br>2.443 |
| 5 | 20.0 | 11.50<br>5.029 | 10.50<br>4.042 | 9.50<br>3.374 | 8.50<br>2.918 | 7.75<br>2.527 | 7.00<br>2.247 | 6.50<br>1.973 |
| 6 | 23.0 | 13.50<br>4.284 | 12.25<br>3.464 | 11.00<br>2.914 | 10.00<br>2.480 | 9.00<br>2.176 | 8.25<br>1.907 | 7.50<br>1.710 |
| 6 | 26.0 | 15.50<br>3.731 | 14.00<br>3.031 | 12.75<br>2.514 | 11.50<br>2.157 | 10.50<br>1.865 | 9.50<br>1.656 | 8.50<br>1.509 |
| 7 | 30.0 | 18.00<br>3.213 | 16.50<br>2.572 | 15.00<br>2.137 | 13.50<br>1.837 | 12.25<br>1.598 | 11.00<br>1.430 | 10.00<br>1.282 |
| 7 | 35.0 | 21.50<br>2.690 | 19.50<br>2.176 | 17.75<br>1.806 | 15.75<br>1.575 | 14.50<br>1.350 | 13.00<br>1.210 | 11.75<br>1.091 |
| 8 | 40.0 | 24.75<br>2.337 | 22.50<br>1.886 | 20.50<br>1.564 | 18.25<br>1.359 | 16.75<br>1.169 | 15.00<br>1.049 | 13.75<br>0.933 |
| 8 | 45.0 | | 25.50<br>1.664 | 23.00<br>1.394 | 21.00<br>1.181 | 19.00<br>1.031 | 17.00<br>0.925 | 15.50<br>0.827 |
| 9 | 50.0 | | 28.50<br>1.489 | 25.75<br>1.245 | 23.00<br>1.078 | 21.25<br>0.921 | 19.00<br>0.828 | 17.25<br>0.743 |
| 9 | 55.0 | | | 28.50<br>1.125 | 26.00<br>0.954 | 23.50<br>0.833 | 21.00<br>0.749 | 19.00<br>0.675 |
| 10 | 60.0 | | | | 28.00<br>0.886 | 25.50<br>0.768 | 23.00<br>0.684 | 21.00<br>0.611 |
| 11 | 65.0 | | | | | | 25.00<br>0.629 | 23.00<br>0.558 |
| 12 | 70.0 | | | | | | | |
| 12 | 75.0 | | | | | | | |

## Wire Dia : ϕ0.90……292 Description

The top:Active coil  The lower:Spring constant(N/㎜)  Outer Diameter and Free length:
Solid(Length)Hight ≒ Dia×(Active Coil+3)  Max Deflection ≒ Free length−Solid Hight

## Dia:ϕ0.90, Material:SUS304WPB, No grinding, Right

| 9.0 | 9.5 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 | 18.0 |
|---|---|---|---|---|---|---|---|---|---|
| 1.75 | | | | | | | | | |
| 6.053 | | | | | | | | | |
| 2.50 | 2.25 | 2.00 | 1.75 | | | | | | |
| 4.237 | 3.934 | 3.735 | 3.122 | | | | | | |
| 3.00 | 3.00 | 2.75 | 2.25 | 2.00 | 1.75 | | | | |
| 3.531 | 2.950 | 2.717 | 2.428 | 2.058 | 1.816 | | | | |
| 3.75 | 3.50 | 3.25 | 2.75 | 2.25 | 2.25 | 2.00 | 1.75 | 1.75 | |
| 2.825 | 2.529 | 2.299 | 1.987 | 1.829 | 1.412 | 1.252 | 1.148 | 0.934 | |
| 4.75 | 4.50 | 4.00 | 3.50 | 3.00 | 2.75 | 2.50 | 2.25 | 2.25 | 2.00 |
| 2.230 | 1.967 | 1.868 | 1.561 | 1.372 | 1.156 | 1.002 | 0.893 | 0.727 | 0.563 |
| 5.75 | 5.25 | 4.75 | 4.00 | 3.50 | 3.25 | 3.00 | 2.75 | 2.75 | 2.25 |
| 1.842 | 1.686 | 1.573 | 1.366 | 1.176 | 0.978 | 0.835 | 0.730 | 0.595 | 0.500 |
| 6.75 | 6.25 | 5.75 | 4.75 | 4.00 | 3.75 | 3.50 | 3.25 | 3.00 | 2.75 |
| 1.569 | 1.416 | 1.299 | 1.150 | 1.029 | 0.847 | 0.715 | 0.618 | 0.545 | 0.409 |
| 7.75 | 7.00 | 6.50 | 5.50 | 4.75 | 4.25 | 4.00 | 3.75 | 3.50 | 3.25 |
| 1.367 | 1.264 | 1.149 | 0.993 | 0.867 | 0.748 | 0.626 | 0.536 | 0.467 | 0.346 |
| 9.00 | 8.25 | 7.50 | 6.50 | 5.50 | 5.00 | 4.75 | 4.50 | 4.00 | 3.75 |
| 1.177 | 1.073 | 0.996 | 0.841 | 0.748 | 0.636 | 0.527 | 0.446 | 0.409 | 0.300 |
| 10.75 | 9.75 | 9.00 | 7.50 | 6.50 | 6.00 | 5.50 | 5.25 | 4.75 | 4.25 |
| 0.985 | 0.908 | 0.830 | 0.729 | 0.633 | 0.530 | 0.455 | 0.383 | 0.344 | 0.265 |
| 12.25 | 11.25 | 10.25 | 8.75 | 7.50 | 7.00 | 6.50 | 6.00 | 5.50 | 5.00 |
| 0.865 | 0.787 | 0.729 | 0.624 | 0.549 | 0.454 | 0.385 | 0.335 | 0.297 | 0.225 |
| 14.00 | 12.75 | 12.00 | 10.00 | 8.50 | 8.00 | 7.50 | 7.00 | 6.50 | 5.50 |
| 0.757 | 0.694 | 0.623 | 0.546 | 0.484 | 0.397 | 0.334 | 0.287 | 0.252 | 0.205 |
| 15.50 | 14.25 | 13.00 | 11.00 | 9.50 | 8.75 | 8.00 | 7.50 | 7.00 | 6.25 |
| 0.683 | 0.621 | 0.575 | 0.497 | 0.433 | 0.363 | 0.313 | 0.268 | 0.234 | 0.180 |
| 17.50 | 16.00 | 14.50 | 12.50 | 10.50 | 10.00 | 9.00 | 8.50 | 8.00 | 7.00 |
| 0.605 | 0.553 | 0.515 | 0.437 | 0.392 | 0.318 | 0.278 | 0.236 | 0.204 | 0.161 |
| 19.00 | 17.50 | 15.75 | 13.50 | 11.50 | 10.50 | 9.75 | 9.00 | 8.50 | 7.50 |
| 0.558 | 0.506 | 0.474 | 0.405 | 0.358 | 0.303 | 0.257 | 0.223 | 0.192 | 0.150 |
| 20.50 | 19.00 | 17.50 | 14.50 | 12.50 | 11.50 | 11.00 | 10.00 | 9.50 | 8.50 |
| 0.517 | 0.466 | 0.427 | 0.377 | 0.329 | 0.276 | 0.228 | 0.201 | 0.172 | 0.132 |
| 22.00 | 22.00 | 18.50 | 16.00 | 13.50 | 12.50 | 11.50 | 11.00 | 10.00 | 9.00 |
| 0.481 | 0.402 | 0.404 | 0.341 | 0.305 | 0.254 | 0.218 | 0.183 | 0.164 | 0.125 |
| | | 20.00 | 17.00 | 14.50 | 13.50 | 12.25 | 11.50 | 10.75 | 9.50 |
| | | 0.374 | 0.321 | 0.284 | 0.235 | 0.204 | 0.175 | 0.152 | 0.119 |

Continued to reverse side.

Tolerance JIS-2class, Unitmm
Total number of coil=Active coil+2

# Compression Spring ϕ0.90

| Cost Code | Outer Diameter / Free Length | 5.5 | 6.0 | 6.5 | 7.0 | 7.5 | 8.0 | 8.5 |
|---|---|---|---|---|---|---|---|---|
| 13 | 80.0 | | | | | | | |
| 13 | 85.0 | | | | | | | |
| 14 | 90.0 | | | | | | | |
| 14 | 95.0 | | | | | | | |
| 15 | 100.0 | | | | | | | |

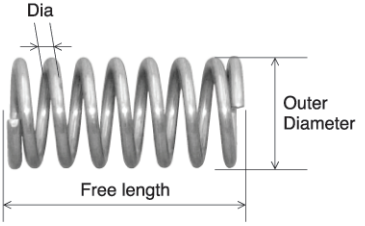
## Wire Dia : ϕ0.90……292 Description

The top:Active coil The lower:Spring constant(N/㎜) Outer Diameter and Free length:
Solid(Length)Hight ≒ Dia × (Active Coil+3) Max Deflection ≒ Free length − Solid Hight

## Dia:ϕ0.90, Material:SUS304WPB, No grinding, Right

| 9.0 | 9.5 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 | 18.0 |
|---|---|---|---|---|---|---|---|---|---|
| | | 21.50 | 18.00 | 15.50 | 14.50 | 13.50 | 12.50 | 11.50 | 10.00 |
| | | 0.347 | 0.304 | 0.266 | 0.219 | 0.185 | 0.161 | 0.142 | 0.113 |
| | | | 19.00 | 16.50 | 15.50 | 14.00 | 13.00 | 12.50 | 11.00 |
| | | | 0.288 | 0.249 | 0.205 | 0.179 | 0.154 | 0.131 | 0.102 |
| | | | 20.50 | 17.50 | 16.00 | 15.00 | 14.00 | 13.00 | 11.50 |
| | | | 0.267 | 0.235 | 0.199 | 0.167 | 0.143 | 0.126 | 0.098 |
| | | | | 18.50 | 17.00 | 15.75 | 14.75 | 13.75 | 12.00 |
| | | | | 0.222 | 0.187 | 0.159 | 0.136 | 0.119 | 0.094 |
| | | | | 19.50 | 18.00 | 16.50 | 15.50 | 14.50 | 13.00 |
| | | | | 0.211 | 0.177 | 0.152 | 0.130 | 0.113 | 0.087 |

Tolerance JIS-2class, Unitmm
Total number of coil=Active coil+2




Wire Dia : ϕ0.90·····292 Description

# Compression Spring ϕ1.00

SUS

| Cost Code | Outer Diameter / Free Length | 6.0 | 6.5 | 7.0 | 7.5 | 8.0 | 8.5 | 9.0 |
|---|---|---|---|---|---|---|---|---|
| 4 | 8.0 | 3.00<br>22.881 | 3.00<br>17.191 | 2.75<br>14.445 | 2.50<br>12.497 | 2.25<br>11.118 | 2.00<br>10.169 | 1.75<br>9.576 |
| 4 | 10.0 | 4.25<br>16.151 | 4.00<br>12.893 | 3.75<br>10.593 | 3.50<br>8.927 | 3.00<br>8.338 | 2.75<br>7.396 | 2.50<br>6.703 |
| 5 | 12.0 | 5.50<br>12.480 | 5.00<br>10.314 | 4.75<br>8.363 | 4.25<br>7.351 | 4.00<br>6.254 | 3.50<br>5.811 | 3.25<br>5.156 |
| 5 | 14.0 | 6.75<br>10.169 | 6.25<br>8.251 | 5.75<br>6.908 | 5.25<br>5.951 | 4.75<br>5.266 | 4.50<br>4.520 | 4.00<br>4.190 |
| 6 | 17.0 | 8.50<br>8.076 | 7.75<br>6.654 | 7.25<br>5.479 | 6.75<br>4.629 | 6.00<br>4.169 | 5.50<br>3.698 | 5.00<br>3.352 |
| 6 | 20.0 | 10.50<br>6.537 | 9.50<br>5.429 | 8.75<br>4.540 | 8.00<br>3.905 | 7.25<br>3.450 | 6.75<br>3.013 | 6.00<br>2.793 |
| 7 | 23.0 | 12.25<br>5.603 | 11.25<br>4.584 | 10.25<br>3.875 | 9.50<br>3.289 | 8.50<br>2.943 | 8.00<br>2.542 | 7.00<br>2.394 |
| 7 | 26.0 | 14.00<br>4.903 | 12.75<br>4.045 | 11.75<br>3.381 | 11.00<br>2.840 | 9.75<br>2.566 | 9.00<br>2.260 | 8.00<br>2.095 |
| 8 | 30.0 | 16.50<br>4.160 | 15.00<br>3.438 | 13.75<br>2.889 | 12.75<br>2.450 | 11.50<br>2.175 | 10.50<br>1.937 | 9.50<br>1.764 |
| 8 | 35.0 | 19.50<br>3.520 | 17.75<br>2.905 | 16.25<br>2.445 | 15.25<br>2.049 | 13.50<br>1.853 | 12.50<br>1.627 | 11.25<br>1.490 |
| 9 | 40.0 | 22.50<br>3.051 | 20.50<br>2.516 | 19.00<br>2.091 | 17.50<br>1.785 | 15.75<br>1.588 | 14.50<br>1.403 | 13.00<br>1.289 |
| 9 | 45.0 | 26.00<br>2.640 | 23.50<br>2.195 | 21.50<br>1.848 | 20.00<br>1.562 | 18.00<br>1.390 | 16.50<br>1.233 | 15.00<br>1.117 |
| 10 | 50.0 | 28.75<br>2.388 | 26.25<br>1.965 | 24.00<br>1.655 | 22.25<br>1.404 | 20.00<br>1.251 | 18.50<br>1.099 | 16.50<br>1.016 |
| 10 | 55.0 | | 29.00<br>1.778 | 26.50<br>1.499 | 24.75<br>1.262 | 22.00<br>1.137 | 20.50<br>0.992 | 18.50<br>0.906 |
| 11 | 60.0 | | | 29.00<br>1.370 | 27.00<br>1.157 | 24.00<br>1.042 | 22.50<br>0.904 | 20.00<br>0.838 |
| 12 | 65.0 | | | | | 26.50<br>0.944 | 24.50<br>0.830 | 22.00<br>0.762 |
| 13 | 70.0 | | | | | | | 24.00<br>0.698 |
| 13 | 75.0 | | | | | | | |

## Wire Dia : ϕ1.00……303 Description

The top:Active coil　The lower:Spring constant(N/㎜)　Outer Diameter and Free length:
Solid(Length)Hight≒Dia×(Active Coil+3)　Max Deflection≒Free length−Solid Hight

## Dia:ϕ1.00, Material:SUS304WPB, No grinding, Right



| 9.5 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 | 18.0 | 20.0 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |
| | | | | | | | | | |
| 2.25 | 2.00 | 1.75 | | | | | | | |
| 6.210 | 5.885 | 4.903 | | | | | | | |
| 3.00 | 2.75 | 2.25 | 2.00 | 1.75 | | | | | |
| 4.657 | 4.280 | 3.813 | 3.223 | 2.837 | | | | | |
| 3.50 | 3.25 | 2.75 | 2.50 | 2.00 | 2.00 | 1.75 | 1.75 | | |
| 3.992 | 3.622 | 3.109 | 2.579 | 2.483 | 1.953 | 1.787 | 1.453 | | |
| 4.50 | 4.25 | 3.50 | 3.00 | 2.75 | 2.50 | 2.25 | 2.00 | 2.00 | 1.75 |
| 3.105 | 2.769 | 2.452 | 2.149 | 1.806 | 1.562 | 1.390 | 1.271 | 0.873 | 0.715 |
| 5.50 | 5.00 | 4.25 | 3.75 | 3.25 | 3.00 | 2.75 | 2.50 | 2.25 | 2.00 |
| 2.540 | 2.354 | 2.019 | 1.719 | 1.528 | 1.302 | 1.137 | 1.017 | 0.776 | 0.625 |
| 6.50 | 6.00 | 5.00 | 4.50 | 3.75 | 3.50 | 3.25 | 3.00 | 2.75 | 2.50 |
| 2.149 | 1.962 | 1.716 | 1.433 | 1.324 | 1.116 | 0.962 | 0.847 | 0.635 | 0.500 |
| 7.50 | 7.00 | 5.75 | 5.00 | 4.50 | 4.00 | 3.75 | 3.50 | 3.00 | 2.75 |
| 1.863 | 1.681 | 1.492 | 1.289 | 1.103 | 0.976 | 0.834 | 0.726 | 0.582 | 0.455 |
| 9.00 | 8.00 | 6.75 | 6.00 | 5.00 | 4.75 | 4.25 | 4.00 | 3.50 | 3.25 |
| 1.552 | 1.471 | 1.271 | 1.074 | 0.993 | 0.822 | 0.736 | 0.636 | 0.499 | 0.385 |
| 10.50 | 9.50 | 8.00 | 7.00 | 6.00 | 5.50 | 5.00 | 4.75 | 4.25 | 3.75 |
| 1.331 | 1.239 | 1.073 | 0.921 | 0.828 | 0.710 | 0.625 | 0.535 | 0.411 | 0.334 |
| 12.00 | 11.00 | 9.25 | 8.00 | 7.00 | 6.50 | 6.00 | 5.50 | 5.00 | 4.50 |
| 1.164 | 1.070 | 0.928 | 0.806 | 0.709 | 0.601 | 0.521 | 0.462 | 0.349 | 0.278 |
| 13.75 | 12.50 | 11.00 | 9.50 | 8.00 | 7.50 | 7.00 | 6.50 | 5.50 | 5.00 |
| 1.016 | 0.942 | 0.780 | 0.679 | 0.621 | 0.521 | 0.447 | 0.391 | 0.318 | 0.250 |
| 15.50 | 14.00 | 12.00 | 10.25 | 8.75 | 8.00 | 7.50 | 7.00 | 6.25 | 5.50 |
| 0.901 | 0.841 | 0.715 | 0.629 | 0.567 | 0.488 | 0.417 | 0.363 | 0.279 | 0.227 |
| 17.00 | 15.50 | 13.50 | 11.50 | 10.00 | 9.00 | 8.50 | 8.00 | 7.00 | 6.25 |
| 0.822 | 0.759 | 0.636 | 0.561 | 0.497 | 0.434 | 0.368 | 0.318 | 0.249 | 0.200 |
| 18.75 | 17.00 | 14.50 | 12.50 | 10.75 | 9.75 | 9.00 | 8.50 | 7.50 | 6.75 |
| 0.745 | 0.692 | 0.592 | 0.516 | 0.462 | 0.401 | 0.347 | 0.299 | 0.233 | 0.185 |
| 20.25 | 18.50 | 16.00 | 13.50 | 12.00 | 11.00 | 10.00 | 9.50 | 8.50 | 7.50 |
| 0.690 | 0.636 | 0.536 | 0.478 | 0.414 | 0.355 | 0.313 | 0.268 | 0.205 | 0.167 |
| 22.00 | 20.00 | 17.00 | 14.50 | 12.50 | 11.50 | 11.00 | 10.00 | 9.00 | 8.00 |
| 0.635 | 0.588 | 0.505 | 0.445 | 0.397 | 0.340 | 0.284 | 0.254 | 0.194 | 0.156 |
| | 21.50 | 18.00 | 15.50 | 13.50 | 12.50 | 12.50 | 10.75 | 9.50 | 8.50 |
| | 0.547 | 0.477 | 0.416 | 0.368 | 0.312 | 0.250 | 0.236 | 0.184 | 0.147 |

Continued to reverse side.

Tolerance JIS-2class, Unitmm
Total number of coil=Active coil+2

# Compression Spring ϕ1.00

| Cost Code | Outer Diameter / Free Length | 6.0 | 6.5 | 7.0 | 7.5 | 8.0 | 8.5 | 9.0 |
|---|---|---|---|---|---|---|---|---|
| 14 | 80.0 | | | | | | | |
| 14 | 85.0 | | | | | | | |
| 15 | 90.0 | | | | | | | |
| 15 | 95.0 | | | | | | | |
| 16 | 100.0 | | | | | | | |

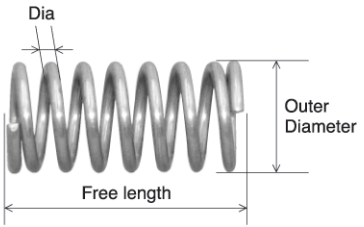
## Wire Dia : ϕ1.00……303 Description

The top:Active coil　The lower:Spring constant(N/㎜)　Outer Diameter and Free length:
Solid(Length)Hight ≒ Dia×(Active Coil+3)　Max Deflection ≒ Free length－Solid Hight

## Dia:ϕ1.00, Material:SUS304WPB, No grinding, Right

| 9.5 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 | 18.0 | 20.0 |
|---|---|---|---|---|---|---|---|---|---|
| | 23.00 | 19.50 | 17.00 | 14.50 | 13.50 | 12.50 | 11.50 | 10.00 | 9.00 |
| | 0.512 | 0.440 | 0.379 | 0.342 | 0.289 | 0.250 | 0.221 | 0.175 | 0.139 |
| | 24.50 | 21.00 | 18.00 | 15.50 | 14.00 | 13.00 | 12.50 | 11.00 | 10.00 |
| | 0.480 | 0.409 | 0.358 | 0.320 | 0.279 | 0.241 | 0.203 | 0.159 | 0.125 |
| | | 22.00 | 19.00 | 16.50 | 15.00 | 14.00 | 13.00 | 11.50 | 10.50 |
| | | 0.390 | 0.339 | 0.301 | 0.260 | 0.223 | 0.196 | 0.152 | 0.119 |
| | | 23.50 | 20.00 | 17.25 | 15.75 | 15.75 | 13.75 | 12.00 | 10.75 |
| | | 0.365 | 0.322 | 0.288 | 0.248 | 0.199 | 0.185 | 0.146 | 0.116 |
| | | 24.50 | 21.00 | 18.00 | 17.00 | 15.50 | 14.50 | 13.00 | 11.50 |
| | | 0.350 | 0.307 | 0.276 | 0.230 | 0.202 | 0.175 | 0.134 | 0.109 |

Tolerance JIS-2class, Unitmm
Total number of coil=Active coil+2




Wire Dia : ϕ1.00·····303 Description

# Compression Spring ϕ1.20

SUS

| Cost Code | Outer Diameter / Free Length | 7.0 | 7.5 | 8.0 | 8.5 | 9.0 | 9.5 | 10.0 |
|---|---|---|---|---|---|---|---|---|
| 5 | 8.0 | 2.50<br>36.475 | 2.25<br>31.624 | 2.25<br>25.149 | 2.00<br>22.868 | 1.75<br>21.424 | | |
| 5 | 10.0 | 3.50<br>26.054 | 3.25<br>21.894 | 3.00<br>18.862 | 2.75<br>16.631 | 2.75<br>13.634 | 2.50<br>12.447 | 2.25<br>11.604 |
| 6 | 12.0 | 4.50<br>20.264 | 4.25<br>16.742 | 4.00<br>14.146 | 3.75<br>12.196 | 3.50<br>10.712 | 3.00<br>10.372 | 3.00<br>8.703 |
| 6 | 14.0 | 5.50<br>16.580 | 5.25<br>13.553 | 5.00<br>11.317 | 4.50<br>10.164 | 4.25<br>8.822 | 4.00<br>7.779 | 3.75<br>6.962 |
| 7 | 17.0 | 7.00<br>13.027 | 6.75<br>10.541 | 6.25<br>9.054 | 5.75<br>7.954 | 5.50<br>6.817 | 5.00<br>6.223 | 4.75<br>5.496 |
| 7 | 20.0 | 8.75<br>10.422 | 8.25<br>8.625 | 7.75<br>7.301 | 7.00<br>6.534 | 6.50<br>5.768 | 6.00<br>5.186 | 5.75<br>4.541 |
| 8 | 23.0 | 10.25<br>8.896 | 9.75<br>7.298 | 9.00<br>6.287 | 8.25<br>5.544 | 7.75<br>4.838 | 7.25<br>4.292 | 6.75<br>3.868 |
| 8 | 26.0 | 12.00<br>7.599 | 11.00<br>6.469 | 10.50<br>5.389 | 9.50<br>4.814 | 9.00<br>4.166 | 8.25<br>3.772 | 7.75<br>3.369 |
| 9 | 30.0 | 14.00<br>6.513 | 13.00<br>5.473 | 12.25<br>4.619 | 11.25<br>4.065 | 10.50<br>3.571 | 9.75<br>3.191 | 9.00<br>2.901 |
| 9 | 35.0 | 16.75<br>5.444 | 15.50<br>4.591 | 14.50<br>3.902 | 13.50<br>3.388 | 12.50<br>2.999 | 11.50<br>2.706 | 10.75<br>2.429 |
| 10 | 40.0 | 19.25<br>4.737 | 18.00<br>3.953 | 17.00<br>3.329 | 15.50<br>2.951 | 14.50<br>2.586 | 13.50<br>2.305 | 12.50<br>2.089 |
| 10 | 45.0 | 22.00<br>4.145 | 20.50<br>3.471 | 19.50<br>2.902 | 17.75<br>2.577 | 16.50<br>2.272 | 15.25<br>2.040 | 14.50<br>1.801 |
| 11 | 50.0 | 24.50<br>3.722 | 23.00<br>3.094 | 21.50<br>2.632 | 20.00<br>2.287 | 18.50<br>2.027 | 17.25<br>1.804 | 16.00<br>1.632 |
| 11 | 55.0 | 27.50<br>3.316 | 25.50<br>2.790 | 24.00<br>2.358 | 22.00<br>2.079 | 20.50<br>1.829 | 19.00<br>1.638 | 17.50<br>1.492 |
| 12 | 60.0 | 30.00<br>3.040 | 28.00<br>2.541 | 26.00<br>2.176 | 24.25<br>1.886 | 22.50<br>1.666 | 21.00<br>1.482 | 19.25<br>1.356 |
| 13 | 65.0 | | | 28.50<br>1.985 | 26.50<br>1.726 | 24.50<br>1.530 | 22.75<br>1.368 | 21.00<br>1.243 |
| 14 | 70.0 | | | | | 26.50<br>1.415 | 24.50<br>1.270 | 23.00<br>1.135 |
| 14 | 75.0 | | | | | | | 24.50<br>1.066 |

## Wire Dia : ϕ1.20……310 Description

The top:Active coil  The lower:Spring constant(N/㎜)  Outer Diameter and Free length:
Solid(Length)Hight ≒ Dia×(Active Coil+3)  Max Deflection ≒ Free length−Solid Hight

## Dia:ϕ1.20, Material:SUS304WPB, No grinding, Right

| 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 | 18.0 | 20.0 | 22.0 | 24.0 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |
| | | | | | | | | | |
| 2.00 | | | | | | | | | |
| 9.452 | | | | | | | | | |
| 2.50 | 2.25 | 2.00 | | | | | | | |
| 7.561 | 6.277 | 5.414 | | | | | | | |
| 3.25 | 2.75 | 2.50 | 2.25 | 2.00 | 1.75 | | | | |
| 5.817 | 5.136 | 4.332 | 3.771 | 3.385 | 3.136 | | | | |
| 4.00 | 3.50 | 3.00 | 2.75 | 2.50 | 2.25 | 2.00 | 1.75 | 1.50 | |
| 4.726 | 4.035 | 3.610 | 3.085 | 2.708 | 2.439 | 1.876 | 1.530 | 1.318 | |
| 5.00 | 4.25 | 3.75 | 3.25 | 3.00 | 2.75 | 2.25 | 2.00 | 1.75 | 1.75 |
| 3.781 | 3.323 | 2.888 | 2.610 | 2.257 | 1.996 | 1.668 | 1.339 | 1.130 | 0.858 |
| 5.75 | 5.00 | 4.50 | 4.00 | 3.50 | 3.00 | 2.75 | 2.25 | 2.00 | 2.00 |
| 3.288 | 2.825 | 2.406 | 2.121 | 1.934 | 1.829 | 1.364 | 1.190 | 0.989 | 0.751 |
| 6.75 | 5.75 | 5.00 | 4.50 | 4.00 | 3.50 | 3.00 | 2.75 | 2.50 | 2.25 |
| 2.801 | 2.456 | 2.166 | 1.885 | 1.692 | 1.568 | 1.251 | 0.974 | 0.791 | 0.667 |
| 8.00 | 6.75 | 6.00 | 5.25 | 4.75 | 4.25 | 3.50 | 3.25 | 3.00 | 2.75 |
| 2.363 | 2.092 | 1.805 | 1.616 | 1.425 | 1.291 | 1.072 | 0.824 | 0.659 | 0.546 |
| 9.50 | 8.25 | 7.00 | 6.25 | 5.50 | 5.00 | 4.25 | 3.75 | 3.50 | 3.25 |
| 1.990 | 1.712 | 1.547 | 1.357 | 1.231 | 1.098 | 0.883 | 0.714 | 0.565 | 0.462 |
| 10.75 | 9.50 | 8.25 | 7.25 | 6.50 | 5.75 | 5.00 | 4.50 | 4.00 | 3.75 |
| 1.758 | 1.487 | 1.313 | 1.170 | 1.042 | 0.954 | 0.750 | 0.595 | 0.494 | 0.400 |
| 12.50 | 11.00 | 9.50 | 8.50 | 7.50 | 6.50 | 5.50 | 5.00 | 4.50 | 4.00 |
| 1.512 | 1.284 | 1.140 | 0.998 | 0.903 | 0.844 | 0.682 | 0.536 | 0.439 | 0.375 |
| 13.75 | 12.00 | 10.50 | 9.25 | 8.25 | 7.25 | 6.25 | 5.50 | 5.00 | 4.50 |
| 1.375 | 1.177 | 1.031 | 0.917 | 0.821 | 0.757 | 0.600 | 0.487 | 0.395 | 0.334 |
| 15.50 | 13.50 | 11.50 | 10.00 | 9.00 | 8.00 | 7.00 | 6.00 | 5.50 | 5.00 |
| 1.220 | 1.046 | 0.942 | 0.848 | 0.752 | 0.686 | 0.536 | 0.446 | 0.359 | 0.300 |
| 16.75 | 14.50 | 12.75 | 11.25 | 9.75 | 8.75 | 7.50 | 6.75 | 6.00 | 5.50 |
| 1.129 | 0.974 | 0.849 | 0.754 | 0.694 | 0.627 | 0.500 | 0.397 | 0.330 | 0.273 |
| 18.50 | 16.00 | 14.00 | 12.50 | 11.00 | 9.50 | 8.50 | 7.50 | 7.00 | 6.00 |
| 1.022 | 0.883 | 0.773 | 0.679 | 0.615 | 0.578 | 0.441 | 0.357 | 0.282 | 0.250 |
| 20.00 | 17.00 | 15.00 | 13.00 | 11.50 | 10.50 | 9.00 | 8.00 | 7.00 | 6.50 |
| 0.945 | 0.831 | 0.722 | 0.653 | 0.589 | 0.523 | 0.417 | 0.335 | 0.282 | 0.231 |
| 21.25 | 18.50 | 16.00 | 14.00 | 12.50 | 11.25 | 9.50 | 8.50 | 7.75 | 7.00 |
| 0.890 | 0.763 | 0.677 | 0.606 | 0.542 | 0.488 | 0.395 | 0.315 | 0.255 | 0.241 |

Continued to reverse side.

Tolerance JIS-2class, Unitmm
Total number of coil=Active coil+2

# Compression Spring $\phi$1.20

| Cost Code | Outer Diameter / Free Length | 7.0 | 7.5 | 8.0 | 8.5 | 9.0 | 9.5 | 10.0 |
|---|---|---|---|---|---|---|---|---|
| 15 | 80.0 | | | | | | | 26.00<br>1.004 |
| 15 | 85.0 | | | | | | | |
| 16 | 90.0 | | | | | | | |
| 16 | 95.0 | | | | | | | |
| 17 | 100.0 | | | | | | | |

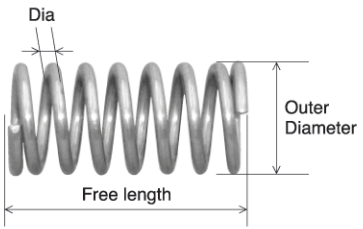
## Wire Dia : $\phi$1.20……310 Description

The top:Active coil The lower:Spring constant(N/㎜) Outer Diameter and Free length:
Solid(Length)Hight ≒ Dia × (Active Coil+3) Max Deflection ≒ Free length − Solid Hight

## Dia:ϕ1.20, Material:SUS304WPB, No grinding, Right

| 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 | 18.0 | 20.0 | 22.0 | 24.0 |
|---|---|---|---|---|---|---|---|---|---|
| 22.50 | 20.00 | 17.00 | 15.00 | 13.50 | 12.00 | 10.50 | 9.50 | 8.50 | 7.50 |
| 0.840 | 0.706 | 0.637 | 0.566 | 0.501 | 0.457 | 0.357 | 0.282 | 0.233 | 0.200 |
| 24.00 | 21.00 | 18.50 | 16.00 | 14.50 | 13.00 | 11.00 | 10.00 | 9.00 | 8.00 |
| 0.788 | 0.673 | 0.585 | 0.530 | 0.467 | 0.422 | 0.341 | 0.268 | 0.220 | 0.188 |
| 25.50 | 22.50 | 19.50 | 17.00 | 15.00 | 13.50 | 11.50 | 10.50 | 9.50 | 8.50 |
| 0.741 | 0.628 | 0.555 | 0.499 | 0.451 | 0.407 | 0.326 | 0.255 | 0.208 | 0.177 |
| | 23.50 | 20.50 | 18.00 | 16.00 | 14.25 | 12.00 | 11.00 | 9.50 | 9.00 |
| | 0.601 | 0.528 | 0.471 | 0.423 | 0.385 | 0.313 | 0.243 | 0.208 | 0.167 |
| | 25.00 | 21.50 | 19.00 | 17.00 | 15.00 | 13.00 | 11.50 | 10.50 | 9.50 |
| | 0.565 | 0.504 | 0.447 | 0.398 | 0.366 | 0.289 | 0.233 | 0.188 | 0.158 |

Tolerance JIS-2class, Unitmm
Total number of coil=Active coil+2




Wire Dia : ϕ1.20……310 Description

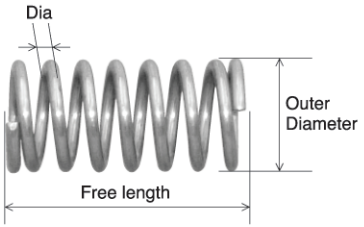
# Compression Spring ϕ0.35

| Cost Code | Outer Diameter / Free Length | 2.6 | 2.9 | 3.2 | 3.5 | 4.0 | 4.5 |
|---|---|---|---|---|---|---|---|
| 1 | 4.0 | 3.50 | 3.00 | 2.50 | | | |
| | | 3.691 | 2.958 | 2.543 | | | |
| 1 | 5.0 | 5.00 | 4.00 | 3.50 | 3.50 | | |
| | | 2.584 | 2.219 | 1.816 | 1.345 | | |
| 1 | 6.5 | 6.50 | 5.50 | 5.00 | 4.50 | 4.00 | 3.50 |
| | | 1.987 | 1.614 | 1.271 | 1.046 | 0.757 | 0.588 |
| 1 | 8.0 | 8.50 | 7.00 | 6.00 | 5.50 | 5.00 | 4.50 |
| | | 1.520 | 1.268 | 1.059 | 0.856 | 0.605 | 0.458 |
| 1 | 10.0 | 10.50 | 9.00 | 8.00 | 7.50 | 6.50 | 5.50 |
| | | 1.230 | 0.986 | 0.795 | 0.628 | 0.466 | 0.374 |
| 1 | 12.0 | 13.00 | 11.00 | 10.00 | 9.00 | 7.50 | 7.00 |
| | | 0.994 | 0.807 | 0.636 | 0.523 | 0.403 | 0.294 |
| 1 | 14.0 | 15.00 | 13.00 | 11.50 | 10.50 | 9.00 | 8.00 |
| | | 0.861 | 0.683 | 0.553 | 0.448 | 0.336 | 0.257 |
| 1 | 16.0 | 17.50 | 15.00 | 13.50 | 12.00 | 10.50 | 9.00 |
| | | 0.738 | 0.592 | 0.471 | 0.392 | 0.288 | 0.229 |
| 2 | 18.0 | 20.00 | 17.00 | 15.00 | 13.50 | 12.00 | 10.50 |
| | | 0.646 | 0.522 | 0.424 | 0.349 | 0.252 | 0.196 |
| 2 | 20.0 | 22.00 | 19.00 | 17.00 | 15.00 | 13.00 | 11.50 |
| | | 0.587 | 0.467 | 0.374 | 0.314 | 0.233 | 0.179 |
| 2 | 22.0 | 24.50 | 21.00 | 18.50 | 17.00 | 14.50 | 13.00 |
| | | 0.527 | 0.423 | 0.344 | 0.277 | 0.209 | 0.158 |
| 2 | 24.0 | | 23.00 | 20.00 | 18.50 | 16.00 | 14.00 |
| | | | 0.386 | 0.318 | 0.254 | 0.189 | 0.147 |
| 2 | 27.0 | | | 23.00 | 20.50 | 18.00 | 16.00 |
| | | | | 0.276 | 0.230 | 0.168 | 0.129 |
| 3 | 30.0 | | | | 23.00 | 20.00 | 17.50 |
| | | | | | 0.205 | 0.151 | 0.118 |
| 3 | 33.0 | | | | | 22.00 | 19.50 |
| | | | | | | 0.138 | 0.106 |
| 3 | 36.0 | | | | | 24.00 | 21.00 |
| | | | | | | 0.126 | 0.098 |
| 3 | 40.0 | | | | | | 23.50 |
| | | | | | | | 0.088 |

## Wire Dia : ϕ0.35……108 Description

The top:Active coil  The lower:Spring constant(N/㎜)  Outer Diameter and Free length:
Solid(Length)Hight ≒ Dia×(Active Coil+3)  Max Deflection ≒ Free length−Solid Hight

| 5.0 | 5.5 |
|---|---|
| | |
| | |
| | |
| | |
| 3.00 | 3.00 |
| 0.488 | 0.359 |
| 4.00 | 3.50 |
| 0.366 | 0.308 |
| 5.00 | 4.50 |
| 0.293 | 0.239 |
| 6.00 | 5.50 |
| 0.244 | 0.196 |
| 7.00 | 6.50 |
| 0.209 | 0.166 |
| 8.00 | 7.50 |
| 0.183 | 0.144 |
| 9.50 | 8.50 |
| 0.154 | 0.127 |
| 10.50 | 9.50 |
| 0.139 | 0.113 |
| 11.50 | 10.50 |
| 0.127 | 0.103 |
| 12.50 | 11.50 |
| 0.117 | 0.094 |
| 14.00 | 12.50 |
| 0.105 | 0.086 |
| 15.50 | 14.00 |
| 0.094 | 0.077 |
| 17.50 | 15.50 |
| 0.084 | 0.070 |
| 19.00 | 17.00 |
| 0.077 | 0.063 |
| 21.00 | 19.00 |
| 0.070 | 0.057 |




Wire Dia : ϕ0.35·····108 Description

Tolerance JIS-2class, Unitmm
Total number of coil=Active coil+2

# Compression Spring ϕ0.40

| Cost Code | Outer Diameter / Free Length | 2.9 | 3.2 | 3.5 | 4.0 | 4.5 | 5.0 |
|---|---|---|---|---|---|---|---|
| 1 | 4.0 | 3.00 | 2.50 | | | | |
| | | 5.355 | 4.574 | | | | |
| 1 | 5.0 | 4.00 | 3.50 | 3.00 | | | |
| | | 4.017 | 3.267 | 2.809 | | | |
| 1 | 6.5 | 6.00 | 5.00 | 4.50 | 4.00 | 3.50 | 3.00 |
| | | 2.678 | 2.287 | 1.873 | 1.345 | 1.041 | 0.860 |
| 1 | 8.0 | 7.50 | 6.50 | 5.50 | 5.00 | 4.50 | 4.00 |
| | | 2.142 | 1.759 | 1.532 | 1.076 | 0.809 | 0.645 |
| 1 | 10.0 | 9.50 | 8.50 | 7.00 | 6.50 | 5.50 | 5.00 |
| | | 1.691 | 1.345 | 1.204 | 0.828 | 0.662 | 0.516 |
| 1 | 12.0 | 11.50 | 10.00 | 9.00 | 7.50 | 6.50 | 6.00 |
| | | 1.397 | 1.144 | 0.936 | 0.717 | 0.560 | 0.430 |
| 2 | 14.0 | 13.50 | 12.00 | 10.50 | 9.00 | 8.00 | 7.00 |
| | | 1.190 | 0.953 | 0.803 | 0.598 | 0.455 | 0.368 |
| 2 | 16.0 | 16.00 | 14.00 | 12.00 | 10.50 | 9.00 | 8.00 |
| | | 1.004 | 0.817 | 0.702 | 0.512 | 0.405 | 0.322 |
| 2 | 18.0 | 18.00 | 15.50 | 13.50 | 12.00 | 10.50 | 9.50 |
| | | 0.893 | 0.738 | 0.624 | 0.448 | 0.347 | 0.271 |
| 2 | 20.0 | 20.00 | 17.50 | 15.50 | 13.00 | 11.50 | 10.50 |
| | | 0.803 | 0.653 | 0.544 | 0.414 | 0.317 | 0.246 |
| 2 | 22.0 | 22.50 | 19.50 | 17.00 | 14.50 | 13.00 | 11.50 |
| | | 0.714 | 0.586 | 0.496 | 0.371 | 0.280 | 0.224 |
| 3 | 24.0 | 24.50 | 21.00 | 18.50 | 16.00 | 14.00 | 12.50 |
| | | 0.656 | 0.545 | 0.455 | 0.336 | 0.260 | 0.206 |
| 3 | 27.0 | | 24.00 | 21.00 | 18.00 | 16.00 | 14.00 |
| | | | 0.476 | 0.401 | 0.299 | 0.228 | 0.184 |
| 3 | 30.0 | | | 23.50 | 20.00 | 17.50 | 16.00 |
| | | | | 0.359 | 0.269 | 0.208 | 0.161 |
| 3 | 33.0 | | | | 22.00 | 19.50 | 17.50 |
| | | | | | 0.245 | 0.187 | 0.147 |
| 4 | 36.0 | | | | 24.50 | 21.50 | 19.00 |
| | | | | | 0.220 | 0.169 | 0.136 |
| 4 | 40.0 | | | | | | 21.00 |
| | | | | | | | 0.123 |

## Wire Dia : ϕ0.40·····163 Description

The top:Active coil  The lower:Spring constant(N/㎜)  Outer Diameter and Free length:
Solid(Length)Hight ≒ Dia × (Active Coil+3)  Max Deflection ≒ Free length − Solid Hight

## Dia:ϕ0.40, Material:SWPA, No grinding, Right

| 5.5 | 6.0 | 6.5 | 7.0 | 7.5 | 8.0 |
|---|---|---|---|---|---|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| 2.50 | | | | | |
| 0.757 | | | | | |
| 3.50 | 3.00 | 3.00 | | | |
| 0.541 | 0.476 | 0.369 | | | |
| 4.50 | 4.00 | 4.00 | 3.50 | 3.50 | 3.00 |
| 0.421 | 0.357 | 0.276 | 0.249 | 0.200 | 0.191 |
| 5.50 | 5.00 | 4.50 | 4.00 | 4.00 | 3.50 |
| 0.344 | 0.286 | 0.246 | 0.218 | 0.175 | 0.163 |
| 6.50 | 6.00 | 5.50 | 5.00 | 5.00 | 4.50 |
| 0.291 | 0.238 | 0.201 | 0.175 | 0.140 | 0.127 |
| 7.50 | 7.00 | 6.00 | 6.00 | 5.50 | 5.00 |
| 0.252 | 0.204 | 0.184 | 0.146 | 0.128 | 0.114 |
| 8.50 | 7.50 | 7.00 | 6.50 | 6.00 | 5.50 |
| 0.223 | 0.191 | 0.158 | 0.134 | 0.117 | 0.104 |
| 9.50 | 8.50 | 8.00 | 7.50 | 7.00 | 6.50 |
| 0.199 | 0.168 | 0.138 | 0.116 | 0.100 | 0.088 |
| 10.50 | 9.50 | 8.50 | 8.00 | 7.50 | 7.00 |
| 0.180 | 0.150 | 0.130 | 0.109 | 0.094 | 0.082 |
| 11.50 | 10.50 | 9.50 | 9.00 | 8.50 | 7.50 |
| 0.165 | 0.136 | 0.116 | 0.097 | 0.083 | 0.076 |
| 13.00 | 11.50 | 10.50 | 10.00 | 9.50 | 8.50 |
| 0.146 | 0.124 | 0.105 | 0.087 | 0.074 | 0.067 |
| 14.50 | 13.00 | 12.00 | 11.00 | 10.50 | 9.50 |
| 0.131 | 0.110 | 0.092 | 0.079 | 0.067 | 0.060 |
| 15.50 | 14.50 | 13.00 | 12.00 | 11.50 | 10.50 |
| 0.122 | 0.099 | 0.085 | 0.073 | 0.061 | 0.054 |
| 17.00 | 15.50 | 14.50 | 13.50 | 12.50 | 11.50 |
| 0.111 | 0.092 | 0.076 | 0.065 | 0.056 | 0.050 |
| 19.00 | 17.50 | 16.00 | 15.00 | 14.00 | 13.00 |
| 0.100 | 0.082 | 0.069 | 0.058 | 0.050 | 0.044 |

Tolerance JIS-2class, Unitmm
Total number of coil=Active coil+2

# Compression Spring $\phi$0.45

| Cost Code | Outer Diameter / Free Length | 3.2 | 3.5 | 4.0 | 4.5 | 5.0 | 5.5 |
|---|---|---|---|---|---|---|---|
| 1 | 4.0 | 3.00<br>6.445 | | | | | |
| 1 | 5.0 | 4.00<br>4.834 | 3.50<br>4.049 | | | | |
| 1 | 6.5 | 5.50<br>3.515 | 4.50<br>3.149 | 4.00<br>2.247 | 3.50<br>1.729 | 3.00<br>1.423 | 2.50<br>1.249 |
| 1 | 8.0 | 7.00<br>2.762 | 6.00<br>2.362 | 5.00<br>1.798 | 4.50<br>1.345 | 4.00<br>1.067 | 3.50<br>0.892 |
| 1 | 10.0 | 9.00<br>2.148 | 7.50<br>1.890 | 6.00<br>1.498 | 5.50<br>1.101 | 5.00<br>0.854 | 4.50<br>0.694 |
| 1 | 12.0 | 11.00<br>1.758 | 9.50<br>1.492 | 7.50<br>1.198 | 6.50<br>0.931 | 6.00<br>0.711 | 5.50<br>0.568 |
| 2 | 14.0 | 13.00<br>1.487 | 11.00<br>1.288 | 9.00<br>0.999 | 8.00<br>0.757 | 7.00<br>0.610 | 6.50<br>0.480 |
| 2 | 16.0 | 15.00<br>1.289 | 13.00<br>1.090 | 10.50<br>0.856 | 9.00<br>0.673 | 8.00<br>0.534 | 7.50<br>0.416 |
| 2 | 18.0 | 17.00<br>1.137 | 14.50<br>0.977 | 12.00<br>0.749 | 10.50<br>0.576 | 9.50<br>0.449 | 8.50<br>0.367 |
| 2 | 20.0 | 19.00<br>1.018 | 16.50<br>0.859 | 13.00<br>0.691 | 11.50<br>0.526 | 10.50<br>0.407 | 9.50<br>0.329 |
| 2 | 22.0 | 21.00<br>0.921 | 18.00<br>0.787 | 14.50<br>0.620 | 13.00<br>0.466 | 11.50<br>0.371 | 10.50<br>0.297 |
| 3 | 24.0 | 23.00<br>0.841 | 20.00<br>0.709 | 16.00<br>0.562 | 14.00<br>0.432 | 12.50<br>0.342 | 11.50<br>0.272 |
| 3 | 27.0 | 26.00<br>0.744 | 22.50<br>0.630 | 18.00<br>0.499 | 16.00<br>0.378 | 14.00<br>0.305 | 13.00<br>0.240 |
| 3 | 30.0 | | 25.00<br>0.567 | 20.00<br>0.449 | 18.00<br>0.336 | 16.00<br>0.267 | 14.50<br>0.215 |
| 3 | 33.0 | | | 22.50<br>0.399 | 19.50<br>0.310 | 17.50<br>0.244 | 16.00<br>0.195 |
| 4 | 36.0 | | | 24.50<br>0.367 | 21.50<br>0.282 | 19.00<br>0.225 | 17.50<br>0.178 |
| 4 | 40.0 | | | | | 21.50<br>0.199 | 19.50<br>0.160 |

## Wire Dia : $\phi$0.45·····179 Description

The top:Active coil The lower:Spring constant(N/㎜) Outer Diameter and Free length:
Solid(Length)Hight ≒ Dia × (Active Coil+3) Max Deflection ≒ Free length − Solid Hight

| 6.0 | 6.5 | 7.0 | 7.5 | 8.0 | 8.5 | 9.0 |
|---|---|---|---|---|---|---|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| 3.00 | 3.00 | 2.50 | 2.50 | | | |
| 0.784 | 0.605 | 0.572 | 0.459 | | | |
| 4.00 | 3.50 | 3.50 | 3.50 | 3.00 | 3.00 | 2.50 |
| 0.588 | 0.519 | 0.409 | 0.328 | 0.311 | 0.257 | 0.257 |
| 5.00 | 4.50 | 4.00 | 4.00 | 3.50 | 3.50 | 3.50 |
| 0.470 | 0.404 | 0.358 | 0.287 | 0.267 | 0.220 | 0.184 |
| 6.00 | 5.50 | 5.00 | 5.00 | 4.50 | 4.50 | 4.00 |
| 0.392 | 0.330 | 0.286 | 0.230 | 0.208 | 0.171 | 0.161 |
| 6.50 | 6.00 | 5.50 | 5.50 | 5.00 | 5.00 | 4.50 |
| 0.362 | 0.303 | 0.260 | 0.209 | 0.187 | 0.154 | 0.143 |
| 7.50 | 7.00 | 6.50 | 6.00 | 5.50 | 5.50 | 5.00 |
| 0.314 | 0.259 | 0.220 | 0.191 | 0.170 | 0.140 | 0.129 |
| 8.50 | 8.00 | 7.50 | 7.00 | 6.50 | 6.00 | 5.50 |
| 0.277 | 0.227 | 0.191 | 0.164 | 0.144 | 0.128 | 0.117 |
| 9.50 | 8.50 | 8.00 | 7.50 | 7.00 | 6.50 | 6.00 |
| 0.248 | 0.214 | 0.179 | 0.153 | 0.133 | 0.119 | 0.107 |
| 10.50 | 9.50 | 9.00 | 8.50 | 7.50 | 7.50 | 7.00 |
| 0.224 | 0.191 | 0.159 | 0.135 | 0.125 | 0.103 | 0.092 |
| 11.50 | 10.50 | 10.00 | 9.50 | 8.50 | 8.00 | 7.50 |
| 0.205 | 0.173 | 0.143 | 0.121 | 0.110 | 0.096 | 0.086 |
| 13.00 | 12.00 | 11.00 | 10.50 | 9.50 | 9.00 | 8.50 |
| 0.181 | 0.151 | 0.130 | 0.109 | 0.098 | 0.086 | 0.076 |
| 14.50 | 13.00 | 12.00 | 11.50 | 10.50 | 10.00 | 9.50 |
| 0.162 | 0.140 | 0.119 | 0.100 | 0.089 | 0.077 | 0.068 |
| 16.00 | 14.50 | 13.50 | 12.50 | 11.50 | 11.00 | 10.50 |
| 0.147 | 0.125 | 0.106 | 0.092 | 0.081 | 0.070 | 0.061 |
| 17.50 | 16.00 | 15.00 | 14.00 | 13.00 | 12.50 | 11.50 |
| 0.134 | 0.113 | 0.095 | 0.082 | 0.072 | 0.062 | 0.056 |

Tolerance JIS-2class, Unitmm
Total number of coil=Active coil+2

# Compression Spring ϕ0.50

| Cost Code | Outer Diameter / Free Length | 3.5 | 4.0 | 4.5 | 5.0 | 5.5 | 6.0 | 6.5 |
|---|---|---|---|---|---|---|---|---|
| 1 | 5.0 | 3.50 | 3.00 | | | | | |
| | | 6.485 | 4.765 | | | | | |
| 1 | 6.5 | 4.50 | 4.00 | 3.50 | 3.00 | 2.50 | | |
| | | 5.044 | 3.574 | 2.736 | 2.242 | 1.961 | | |
| 1 | 8.0 | 6.00 | 5.00 | 4.00 | 4.00 | 3.50 | 3.00 | 3.00 |
| | | 3.783 | 2.859 | 2.394 | 1.681 | 1.401 | 1.228 | 0.946 |
| 1 | 10.0 | 8.00 | 6.50 | 5.50 | 5.00 | 4.50 | 4.00 | 3.50 |
| | | 2.837 | 2.199 | 1.741 | 1.345 | 1.090 | 0.921 | 0.811 |
| 1 | 12.0 | 9.50 | 8.00 | 6.50 | 6.00 | 5.50 | 5.00 | 4.50 |
| | | 2.389 | 1.787 | 1.473 | 1.121 | 0.891 | 0.737 | 0.631 |
| 2 | 14.0 | 11.50 | 9.50 | 8.00 | 7.00 | 6.50 | 6.00 | 5.50 |
| | | 1.974 | 1.505 | 1.197 | 0.961 | 0.754 | 0.614 | 0.516 |
| 2 | 16.0 | 13.50 | 11.00 | 9.00 | 8.00 | 7.50 | 6.50 | 6.00 |
| | | 1.681 | 1.299 | 1.064 | 0.841 | 0.654 | 0.567 | 0.473 |
| 2 | 18.0 | 15.00 | 12.50 | 10.50 | 9.50 | 8.50 | 7.50 | 7.00 |
| | | 1.513 | 1.144 | 0.912 | 0.708 | 0.577 | 0.491 | 0.405 |
| 2 | 20.0 | 17.00 | 14.00 | 11.50 | 10.50 | 9.50 | 8.50 | 8.00 |
| | | 1.335 | 1.021 | 0.833 | 0.641 | 0.516 | 0.433 | 0.355 |
| 2 | 22.0 | 19.00 | 15.50 | 13.00 | 11.50 | 10.50 | 9.50 | 8.50 |
| | | 1.195 | 0.922 | 0.737 | 0.585 | 0.467 | 0.388 | 0.334 |
| 3 | 24.0 | 20.50 | 17.00 | 14.00 | 12.50 | 11.50 | 10.50 | 9.50 |
| | | 1.107 | 0.841 | 0.684 | 0.538 | 0.426 | 0.351 | 0.299 |
| 3 | 27.0 | 23.50 | 19.00 | 16.00 | 14.50 | 13.00 | 11.50 | 11.00 |
| | | 0.966 | 0.752 | 0.599 | 0.464 | 0.377 | 0.320 | 0.258 |
| 3 | 30.0 | 26.00 | 21.50 | 18.00 | 16.00 | 14.50 | 13.00 | 12.00 |
| | | 0.873 | 0.665 | 0.532 | 0.420 | 0.338 | 0.283 | 0.236 |
| 3 | 33.0 | | 23.50 | 20.00 | 17.50 | 16.00 | 14.50 | 13.50 |
| | | | 0.608 | 0.479 | 0.384 | 0.306 | 0.254 | 0.210 |
| 4 | 36.0 | | 26.00 | 21.50 | 19.50 | 17.50 | 16.00 | 14.50 |
| | | | 0.550 | 0.445 | 0.345 | 0.280 | 0.230 | 0.196 |
| 4 | 40.0 | | | | 21.50 | 19.50 | 17.50 | 16.00 |
| | | | | | 0.313 | 0.251 | 0.210 | 0.177 |
| 4 | 45.0 | | | | | 22.00 | 20.00 | 18.50 |
| | | | | | | 0.223 | 0.184 | 0.153 |

## Wire Dia : ϕ0.50·····205 Description

The top:Active coil  The lower:Spring constant(N/㎜)  Outer Diameter and Free length:
Solid(Length)Hight≒Dia×(Active Coil+3)  Max Deflection≒Free length−Solid Hight

## Dia:ϕ0.50, Material:SWPA, No grinding, Right

| 7.0 | 7.5 | 8.0 | 8.5 | 9.0 | 9.5 | 10.0 |
|---|---|---|---|---|---|---|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| 2.50 | 2.50 | 2.50 | 2.50 | | | |
| 0.893 | 0.715 | 0.581 | 0.479 | | | |
| 3.50 | 3.00 | 3.00 | 3.00 | 2.50 | 2.50 | 2.50 |
| 0.638 | 0.596 | 0.484 | 0.399 | 0.399 | 0.336 | 0.286 |
| 4.00 | 4.00 | 3.50 | 3.50 | 3.00 | 3.00 | 3.00 |
| 0.558 | 0.447 | 0.415 | 0.342 | 0.333 | 0.280 | 0.238 |
| 5.00 | 4.50 | 4.50 | 4.50 | 4.00 | 4.00 | 3.50 |
| 0.446 | 0.397 | 0.323 | 0.266 | 0.249 | 0.210 | 0.204 |
| 5.50 | 5.50 | 5.00 | 5.00 | 4.50 | 4.50 | 4.00 |
| 0.406 | 0.325 | 0.291 | 0.239 | 0.222 | 0.187 | 0.179 |
| 6.50 | 6.00 | 5.50 | 5.50 | 5.00 | 5.00 | 4.50 |
| 0.343 | 0.298 | 0.264 | 0.218 | 0.200 | 0.168 | 0.159 |
| 7.50 | 7.00 | 6.50 | 6.00 | 5.50 | 5.50 | 5.00 |
| 0.298 | 0.255 | 0.223 | 0.200 | 0.181 | 0.153 | 0.143 |
| 8.00 | 7.50 | 7.00 | 6.50 | 6.00 | 6.00 | 5.50 |
| 0.279 | 0.238 | 0.208 | 0.184 | 0.166 | 0.140 | 0.130 |
| 9.00 | 8.00 | 7.50 | 7.50 | 7.00 | 6.50 | 6.00 |
| 0.248 | 0.223 | 0.194 | 0.160 | 0.143 | 0.129 | 0.119 |
| 10.00 | 9.50 | 8.50 | 8.00 | 7.50 | 7.50 | 7.00 |
| 0.223 | 0.188 | 0.171 | 0.150 | 0.133 | 0.112 | 0.102 |
| 11.00 | 10.50 | 9.50 | 9.00 | 8.50 | 8.00 | 7.50 |
| 0.203 | 0.170 | 0.153 | 0.133 | 0.117 | 0.105 | 0.095 |
| 12.50 | 11.50 | 10.50 | 10.00 | 9.50 | 9.00 | 8.50 |
| 0.179 | 0.155 | 0.138 | 0.120 | 0.105 | 0.093 | 0.084 |
| 13.50 | 12.50 | 11.50 | 11.00 | 10.50 | 10.00 | 9.00 |
| 0.165 | 0.143 | 0.126 | 0.109 | 0.095 | 0.084 | 0.079 |
| 15.00 | 14.00 | 13.00 | 12.00 | 11.50 | 11.00 | 10.50 |
| 0.149 | 0.128 | 0.112 | 0.100 | 0.087 | 0.076 | 0.068 |
| 17.00 | 15.50 | 14.50 | 14.00 | 13.00 | 12.50 | 11.50 |
| 0.131 | 0.115 | 0.100 | 0.086 | 0.077 | 0.067 | 0.062 |

Tolerance JIS-2class, Unitmm
Total number of coil=Active coil+2

# Compression Spring ϕ0.55

SWP

| Cost Code | Outer Diameter / Free Length | 4.0 | 4.5 | 5.0 | 5.5 | 6.0 | 6.5 | 7.0 |
|---|---|---|---|---|---|---|---|---|
| 1 | 6.5 | 4.00 | 3.50 | 3.00 | 2.50 | | | |
| | | 5.463 | 4.160 | 3.394 | 2.959 | | | |
| 1 | 8.0 | 5.00 | 4.50 | 3.50 | 3.50 | 3.00 | 3.00 | 2.50 |
| | | 4.370 | 3.235 | 2.909 | 2.114 | 1.848 | 1.420 | 1.338 |
| 1 | 10.0 | 7.00 | 5.50 | 5.00 | 4.50 | 4.00 | 3.50 | 3.50 |
| | | 3.122 | 2.647 | 2.037 | 1.644 | 1.386 | 1.217 | 0.955 |
| 1 | 12.0 | 8.50 | 7.00 | 6.00 | 5.50 | 5.00 | 4.50 | 4.00 |
| | | 2.571 | 2.080 | 1.697 | 1.345 | 1.109 | 0.947 | 0.836 |
| 2 | 14.0 | 10.00 | 8.50 | 7.00 | 6.50 | 6.00 | 5.50 | 5.00 |
| | | 2.185 | 1.713 | 1.455 | 1.138 | 0.924 | 0.775 | 0.669 |
| 2 | 16.0 | 11.50 | 9.50 | 8.00 | 7.50 | 6.50 | 6.00 | 5.50 |
| | | 1.900 | 1.533 | 1.273 | 0.986 | 0.853 | 0.710 | 0.608 |
| 2 | 18.0 | 13.00 | 11.00 | 9.50 | 8.50 | 7.50 | 7.00 | 6.50 |
| | | 1.681 | 1.324 | 1.072 | 0.870 | 0.739 | 0.609 | 0.514 |
| 2 | 20.0 | 14.50 | 12.50 | 10.50 | 9.50 | 8.50 | 8.00 | 7.50 |
| | | 1.507 | 1.165 | 0.970 | 0.779 | 0.652 | 0.532 | 0.446 |
| 2 | 22.0 | 16.50 | 13.50 | 11.50 | 10.50 | 9.50 | 8.50 | 8.00 |
| | | 1.324 | 1.078 | 0.885 | 0.705 | 0.583 | 0.501 | 0.418 |
| 3 | 24.0 | 18.00 | 15.00 | 12.50 | 11.50 | 10.50 | 9.50 | 9.00 |
| | | 1.214 | 0.971 | 0.815 | 0.643 | 0.528 | 0.448 | 0.372 |
| 3 | 27.0 | 20.50 | 17.00 | 14.50 | 13.00 | 12.00 | 11.00 | 10.00 |
| | | 1.066 | 0.856 | 0.702 | 0.569 | 0.462 | 0.387 | 0.334 |
| 3 | 30.0 | 22.50 | 19.00 | 16.00 | 14.50 | 13.00 | 12.00 | 11.00 |
| | | 0.971 | 0.766 | 0.636 | 0.510 | 0.426 | 0.355 | 0.304 |
| 3 | 33.0 | 25.00 | 21.00 | 17.50 | 16.00 | 14.50 | 13.50 | 12.50 |
| | | 0.874 | 0.693 | 0.582 | 0.462 | 0.382 | 0.316 | 0.268 |
| 4 | 36.0 | 27.50 | 23.00 | 19.50 | 17.50 | 16.00 | 14.50 | 13.50 |
| | | 0.795 | 0.633 | 0.522 | 0.423 | 0.346 | 0.294 | 0.248 |
| 4 | 40.0 | | | 21.50 | 19.50 | 17.50 | 16.50 | 15.00 |
| | | | | 0.474 | 0.379 | 0.317 | 0.258 | 0.223 |
| 4 | 45.0 | | | | | 20.00 | 18.50 | 17.00 |
| | | | | | | 0.277 | 0.230 | 0.197 |
| 5 | 50.0 | | | | | 22.50 | 20.50 | 19.00 |
| | | | | | | 0.246 | 0.208 | 0.176 |

## Wire Dia : ϕ0.55……213 Description

The top:Active coil　The lower:Spring constant(N/㎜)　Outer Diameter and Free length:
Solid(Length)Hight ≒ Dia × (Active Coil + 3)　Max Deflection ≒ Free length − Solid Hight

## Dia:ϕ0.55, Material:SWPA, No grinding, Right

| 7.5 | 8.0 | 8.5 | 9.0 | 9.5 | 10.0 | 11.0 |
|---|---|---|---|---|---|---|
| | | | | | | |
| | | | | | | |
| 2.50 | 2.50 | 2.50 | | | | |
| 1.069 | 0.868 | 0.714 | | | | |
| 3.00 | 3.00 | 3.00 | 2.50 | 2.50 | 2.50 | |
| 0.891 | 0.723 | 0.595 | 0.595 | 0.501 | 0.425 | |
| 4.00 | 3.50 | 3.50 | 3.00 | 3.00 | 3.00 | 2.50 |
| 0.668 | 0.620 | 0.510 | 0.496 | 0.417 | 0.354 | 0.315 |
| 4.50 | 4.50 | 4.50 | 4.00 | 4.00 | 3.50 | 3.00 |
| 0.594 | 0.482 | 0.397 | 0.372 | 0.313 | 0.304 | 0.262 |
| 5.50 | 5.00 | 5.00 | 4.50 | 4.50 | 4.00 | 3.50 |
| 0.486 | 0.434 | 0.357 | 0.330 | 0.278 | 0.266 | 0.225 |
| 6.00 | 5.50 | 5.50 | 5.00 | 5.00 | 4.50 | 4.00 |
| 0.445 | 0.395 | 0.325 | 0.297 | 0.250 | 0.236 | 0.197 |
| 7.00 | 6.50 | 6.00 | 5.50 | 5.50 | 5.00 | 4.50 |
| 0.382 | 0.334 | 0.298 | 0.270 | 0.228 | 0.213 | 0.175 |
| 7.50 | 7.00 | 6.50 | 6.00 | 6.00 | 5.50 | 5.00 |
| 0.356 | 0.310 | 0.275 | 0.248 | 0.209 | 0.193 | 0.157 |
| 8.00 | 7.50 | 7.50 | 7.00 | 6.50 | 6.00 | 5.50 |
| 0.334 | 0.289 | 0.238 | 0.212 | 0.193 | 0.177 | 0.143 |
| 9.00 | 8.50 | 8.00 | 7.50 | 7.50 | 7.00 | 6.00 |
| 0.297 | 0.255 | 0.223 | 0.198 | 0.167 | 0.152 | 0.131 |
| 10.50 | 9.50 | 9.00 | 8.50 | 8.00 | 7.50 | 7.00 |
| 0.255 | 0.228 | 0.198 | 0.175 | 0.156 | 0.142 | 0.112 |
| 11.50 | 10.50 | 10.00 | 9.50 | 9.00 | 8.50 | 7.50 |
| 0.232 | 0.207 | 0.179 | 0.157 | 0.139 | 0.125 | 0.105 |
| 12.50 | 11.50 | 11.00 | 10.50 | 10.00 | 9.50 | 8.50 |
| 0.214 | 0.189 | 0.162 | 0.142 | 0.125 | 0.112 | 0.093 |
| 14.00 | 13.00 | 12.50 | 11.50 | 11.00 | 10.50 | 9.50 |
| 0.191 | 0.167 | 0.143 | 0.129 | 0.114 | 0.101 | 0.083 |
| 16.00 | 14.50 | 14.00 | 13.00 | 12.50 | 11.50 | 10.50 |
| 0.167 | 0.150 | 0.128 | 0.114 | 0.100 | 0.092 | 0.075 |
| 17.50 | 16.50 | 15.50 | 14.50 | 14.00 | 13.00 | 11.50 |
| 0.153 | 0.132 | 0.115 | 0.103 | 0.089 | 0.082 | 0.068 |

Tolerance JIS-2class, Unitmm
Total number of coil=Active coil+2

# Compression Spring ϕ0.60

| Cost Code | Outer Diameter / Free Length | 4.0 | 4.5 | 5.0 | 5.5 | 6.0 | 6.5 | 7.0 |
|---|---|---|---|---|---|---|---|---|
| 1 | 6.5 | 4.00<br>8.084 | 3.50<br>6.121 | 3.00<br>4.973 | 2.50<br>4.321 | | | |
| 1 | 8.0 | 5.50<br>5.879 | 4.50<br>4.761 | 4.00<br>3.730 | 3.50<br>3.086 | 3.00<br>2.690 | 3.00<br>2.063 | 2.50<br>1.939 |
| 1 | 10.0 | 7.00<br>4.619 | 6.00<br>3.571 | 5.00<br>2.984 | 4.50<br>2.400 | 4.00<br>2.018 | 3.50<br>1.768 | 3.50<br>1.385 |
| 2 | 12.0 | 8.50<br>3.804 | 7.50<br>2.857 | 6.50<br>2.295 | 5.50<br>1.964 | 5.00<br>1.614 | 4.50<br>1.375 | 4.00<br>1.212 |
| 2 | 14.0 | 10.00<br>3.233 | 9.00<br>2.380 | 7.50<br>1.989 | 6.50<br>1.662 | 6.00<br>1.345 | 5.50<br>1.125 | 5.00<br>0.970 |
| 2 | 16.0 | 12.00<br>2.695 | 10.00<br>2.142 | 8.50<br>1.755 | 7.50<br>1.440 | 6.50<br>1.242 | 6.00<br>1.031 | 5.50<br>0.881 |
| 2 | 18.0 | 13.50<br>2.395 | 11.50<br>1.863 | 10.00<br>1.492 | 8.50<br>1.271 | 7.50<br>1.076 | 7.00<br>0.884 | 6.50<br>0.746 |
| 2 | 20.0 | 15.00<br>2.156 | 13.00<br>1.648 | 11.00<br>1.356 | 9.50<br>1.137 | 8.50<br>0.950 | 8.00<br>0.773 | 7.50<br>0.646 |
| 3 | 22.0 | 17.00<br>1.902 | 14.50<br>1.478 | 12.50<br>1.194 | 10.50<br>1.029 | 9.50<br>0.850 | 8.50<br>0.728 | 8.00<br>0.606 |
| 3 | 24.0 | 18.50<br>1.748 | 16.00<br>1.339 | 13.50<br>1.105 | 11.50<br>0.939 | 10.50<br>0.769 | 9.50<br>0.651 | 9.00<br>0.539 |
| 3 | 27.0 | 21.00<br>1.540 | 18.00<br>1.190 | 15.50<br>0.963 | 13.00<br>0.831 | 12.00<br>0.673 | 11.00<br>0.563 | 10.00<br>0.485 |
| 4 | 30.0 | 23.50<br>1.376 | 20.00<br>1.071 | 17.00<br>0.878 | 14.50<br>0.745 | 13.00<br>0.621 | 12.00<br>0.516 | 11.00<br>0.441 |
| 4 | 33.0 | 26.00<br>1.244 | 22.00<br>0.974 | 19.00<br>0.785 | 16.00<br>0.675 | 14.50<br>0.557 | 13.50<br>0.458 | 12.50<br>0.388 |
| 4 | 36.0 | 28.50<br>1.135 | 24.00<br>0.893 | 21.00<br>0.710 | 17.50<br>0.617 | 16.00<br>0.504 | 14.50<br>0.427 | 13.50<br>0.359 |
| 5 | 40.0 | | | 23.00<br>0.649 | 19.50<br>0.554 | 18.00<br>0.448 | 16.50<br>0.375 | 15.00<br>0.323 |
| 5 | 45.0 | | | | | 20.00<br>0.404 | 18.50<br>0.334 | 17.00<br>0.285 |
| 6 | 50.0 | | | | | 22.50<br>0.359 | 20.50<br>0.302 | 19.00<br>0.255 |
| 6 | 55.0 | | | | | | 23.00<br>0.269 | 21.00<br>0.231 |
| 7 | 60.0 | | | | | | | 23.00<br>0.211 |

## Wire Dia : ϕ0.60·····248 Description

The top:Active coil  The lower:Spring constant(N/㎜)  Outer Diameter and Free length:
Solid(Length)Hight≒Dia×(Active Coil+3)  Max Deflection≒Free length−Solid Hight

## Dia:ϕ0.60, Material:SWPA, No grinding, Right

| 7.5 | 8.0 | 8.5 | 9.0 | 9.5 | 10.0 | 11.0 | 12.0 |
|---|---|---|---|---|---|---|---|
| | | | | | | | |
| | | | | | | | |
| 2.50 | 2.00 | 2.00 | 2.00 | 2.00 | | | |
| 1.547 | 1.568 | 1.289 | 1.072 | 0.901 | | | |
| 3.00 | 3.00 | 3.00 | 2.50 | 2.50 | 2.50 | | |
| 1.290 | 1.045 | 0.859 | 0.858 | 0.721 | 0.612 | | |
| 4.00 | 3.50 | 3.50 | 3.00 | 3.00 | 3.00 | 2.50 | 2.50 |
| 0.967 | 0.896 | 0.736 | 0.715 | 0.601 | 0.510 | 0.452 | 0.343 |
| 4.50 | 4.50 | 4.00 | 4.00 | 4.00 | 3.50 | 3.00 | 3.00 |
| 0.860 | 0.697 | 0.644 | 0.536 | 0.451 | 0.437 | 0.377 | 0.286 |
| 5.50 | 5.00 | 4.50 | 4.50 | 4.50 | 4.00 | 3.50 | 3.50 |
| 0.703 | 0.627 | 0.573 | 0.476 | 0.401 | 0.383 | 0.323 | 0.245 |
| 6.00 | 5.50 | 5.50 | 5.00 | 5.00 | 4.50 | 4.00 | 4.00 |
| 0.645 | 0.570 | 0.469 | 0.429 | 0.361 | 0.340 | 0.282 | 0.214 |
| 7.00 | 6.50 | 6.00 | 5.50 | 5.50 | 5.00 | 4.50 | 4.00 |
| 0.553 | 0.482 | 0.430 | 0.390 | 0.328 | 0.306 | 0.251 | 0.214 |
| 7.50 | 7.00 | 6.50 | 6.00 | 6.00 | 5.50 | 5.00 | 4.50 |
| 0.516 | 0.448 | 0.397 | 0.357 | 0.300 | 0.278 | 0.226 | 0.191 |
| 8.00 | 7.50 | 7.00 | 7.00 | 6.50 | 6.00 | 5.50 | 5.00 |
| 0.484 | 0.418 | 0.368 | 0.306 | 0.277 | 0.255 | 0.205 | 0.172 |
| 9.50 | 8.50 | 8.00 | 7.50 | 7.50 | 7.00 | 6.00 | 5.50 |
| 0.407 | 0.369 | 0.322 | 0.286 | 0.240 | 0.219 | 0.188 | 0.156 |
| 10.50 | 9.50 | 9.00 | 8.50 | 8.00 | 7.50 | 7.00 | 6.50 |
| 0.368 | 0.330 | 0.286 | 0.252 | 0.225 | 0.204 | 0.161 | 0.132 |
| 11.50 | 10.50 | 10.00 | 9.50 | 9.00 | 8.50 | 7.50 | 7.00 |
| 0.336 | 0.299 | 0.258 | 0.226 | 0.200 | 0.180 | 0.151 | 0.123 |
| 12.50 | 11.50 | 11.00 | 10.50 | 10.00 | 9.50 | 8.50 | 7.50 |
| 0.309 | 0.273 | 0.234 | 0.204 | 0.180 | 0.161 | 0.133 | 0.114 |
| 14.00 | 13.00 | 12.00 | 11.50 | 11.00 | 10.50 | 9.50 | 8.50 |
| 0.276 | 0.241 | 0.215 | 0.186 | 0.164 | 0.146 | 0.119 | 0.101 |
| 16.00 | 14.50 | 14.00 | 13.00 | 12.50 | 11.50 | 10.50 | 9.50 |
| 0.242 | 0.216 | 0.184 | 0.165 | 0.144 | 0.133 | 0.108 | 0.090 |
| 17.50 | 16.50 | 15.50 | 14.50 | 14.00 | 13.00 | 12.00 | 10.50 |
| 0.221 | 0.190 | 0.166 | 0.148 | 0.129 | 0.118 | 0.094 | 0.082 |
| 19.50 | 18.00 | 17.00 | 16.00 | 15.50 | 14.50 | 13.00 | 12.00 |
| 0.198 | 0.174 | 0.152 | 0.134 | 0.116 | 0.106 | 0.087 | 0.071 |
| 21.00 | 20.00 | 18.50 | 17.50 | 16.50 | 15.50 | 14.00 | 13.00 |
| 0.184 | 0.157 | 0.139 | 0.123 | 0.109 | 0.099 | 0.081 | 0.066 |

Tolerance JIS-2class, Unitmm
Total number of coil=Active coil+2

# Compression Spring ϕ0.65

| Cost Code | Outer Diameter / Free Length | 4.5 | 5.0 | 5.5 | 6.0 | 6.5 | 7.0 | 7.5 |
|---|---|---|---|---|---|---|---|---|
| 1 | 6.5 | 3.50<br>8.764 | 3.00<br>7.089 | 2.50<br>6.137 | | | | |
| 1 | 8.0 | 4.50<br>6.816 | 4.00<br>5.316 | 3.50<br>4.384 | 3.00<br>3.810 | 2.50<br>3.497 | 2.50<br>2.735 | 2.00<br>2.723 |
| 2 | 10.0 | 6.00<br>5.112 | 5.00<br>4.253 | 4.50<br>3.410 | 4.00<br>2.858 | 3.50<br>2.498 | 3.00<br>2.279 | 3.00<br>1.815 |
| 2 | 12.0 | 7.50<br>4.090 | 6.50<br>3.272 | 5.50<br>2.790 | 5.00<br>2.286 | 4.00<br>2.186 | 4.00<br>1.709 | 3.50<br>1.556 |
| 2 | 14.0 | 9.00<br>3.408 | 7.50<br>2.835 | 6.50<br>2.361 | 6.00<br>1.905 | 5.00<br>1.749 | 4.50<br>1.519 | 4.50<br>1.210 |
| 2 | 16.0 | 10.50<br>2.921 | 9.00<br>2.363 | 8.00<br>1.918 | 7.00<br>1.633 | 6.00<br>1.457 | 5.50<br>1.243 | 5.00<br>1.089 |
| 3 | 18.0 | 12.00<br>2.556 | 10.50<br>2.025 | 9.00<br>1.705 | 8.00<br>1.429 | 7.00<br>1.249 | 6.50<br>1.052 | 6.00<br>0.908 |
| 3 | 20.0 | 13.50<br>2.272 | 11.50<br>1.849 | 10.00<br>1.534 | 9.00<br>1.270 | 8.00<br>1.093 | 7.00<br>0.977 | 6.50<br>0.838 |
| 3 | 22.0 | 15.00<br>2.045 | 13.00<br>1.636 | 11.00<br>1.395 | 10.00<br>1.143 | 8.50<br>1.029 | 8.00<br>0.855 | 7.50<br>0.726 |
| 3 | 24.0 | 16.50<br>1.859 | 14.50<br>1.467 | 12.50<br>1.227 | 11.00<br>1.039 | 9.50<br>0.920 | 8.50<br>0.804 | 8.00<br>0.681 |
| 4 | 27.0 | 18.50<br>1.658 | 16.50<br>1.289 | 14.00<br>1.096 | 12.00<br>0.953 | 10.50<br>0.833 | 9.50<br>0.720 | 9.00<br>0.605 |
| 4 | 30.0 | 21.00<br>1.461 | 18.00<br>1.181 | 15.50<br>0.990 | 13.50<br>0.847 | 12.00<br>0.729 | 11.00<br>0.621 | 10.50<br>0.519 |
| 4 | 33.0 | 23.50<br>1.305 | 20.00<br>1.063 | 17.50<br>0.877 | 15.00<br>0.762 | 13.00<br>0.673 | 12.00<br>0.570 | 11.50<br>0.474 |
| 5 | 36.0 | 25.50<br>1.203 | 22.00<br>0.967 | 19.00<br>0.808 | 16.50<br>0.693 | 14.50<br>0.603 | 13.00<br>0.526 | 12.50<br>0.436 |
| 5 | 40.0 | | 24.50<br>0.868 | 21.00<br>0.731 | 18.50<br>0.618 | 16.00<br>0.546 | 14.50<br>0.471 | 14.00<br>0.389 |
| 5 | 45.0 | | | 24.00<br>0.639 | 21.00<br>0.544 | 18.00<br>0.486 | 16.50<br>0.414 | 16.00<br>0.340 |
| 6 | 50.0 | | | | 23.50<br>0.486 | 20.50<br>0.427 | 18.50<br>0.370 | 17.50<br>0.311 |
| 6 | 55.0 | | | | | 22.50<br>0.389 | 20.50<br>0.333 | 19.50<br>0.279 |
| 7 | 60.0 | | | | | | 22.50<br>0.304 | 21.50<br>0.253 |

## Wire Dia : ϕ0.65·····251 Description

The top:Active coil The lower:Spring constant(N/㎜) Outer Diameter and Free length:
Solid(Length)Hight ≒ Dia×(Active Coil+3) Max Deflection ≒ Free length−Solid Hight

## Dia:$\phi$0.65, Material:SWPA, No grinding, Right

| 8.0 | 8.5 | 9.0 | 9.5 | 10.0 | 11.0 | 12.0 | 13.0 |
|---|---|---|---|---|---|---|---|
| | | | | | | | |
| | | | | | | | |
| 2.00 | 2.00 | 2.00 | | | | | |
| 2.204 | 1.809 | 1.503 | | | | | |
| 3.00 | 2.50 | 2.50 | 2.50 | 2.00 | 2.00 | | |
| 1.469 | 1.447 | 1.203 | 1.010 | 1.071 | 0.789 | | |
| 3.50 | 3.50 | 3.00 | 3.00 | 3.00 | 2.50 | 2.50 | 2.00 |
| 1.260 | 1.034 | 1.002 | 0.842 | 0.714 | 0.632 | 0.479 | 0.465 |
| 4.00 | 4.00 | 3.50 | 3.50 | 3.50 | 3.00 | 3.00 | 2.50 |
| 1.102 | 0.905 | 0.859 | 0.722 | 0.612 | 0.526 | 0.399 | 0.372 |
| 5.00 | 4.50 | 4.00 | 4.00 | 4.00 | 3.50 | 3.00 | 3.00 |
| 0.882 | 0.804 | 0.752 | 0.631 | 0.535 | 0.451 | 0.399 | 0.310 |
| 5.50 | 5.00 | 5.00 | 4.50 | 4.50 | 4.00 | 3.50 | 3.50 |
| 0.802 | 0.724 | 0.601 | 0.561 | 0.476 | 0.395 | 0.342 | 0.266 |
| 6.00 | 5.50 | 5.50 | 5.00 | 5.00 | 4.50 | 4.00 | 3.50 |
| 0.735 | 0.658 | 0.547 | 0.505 | 0.428 | 0.351 | 0.299 | 0.266 |
| 7.00 | 6.00 | 6.00 | 5.50 | 5.50 | 5.00 | 4.50 | 4.00 |
| 0.630 | 0.603 | 0.501 | 0.459 | 0.389 | 0.316 | 0.266 | 0.232 |
| 7.50 | 7.00 | 6.50 | 6.00 | 6.00 | 5.50 | 5.00 | 4.50 |
| 0.588 | 0.517 | 0.463 | 0.421 | 0.357 | 0.287 | 0.239 | 0.207 |
| 8.50 | 8.00 | 7.50 | 7.00 | 7.00 | 6.00 | 5.50 | 5.00 |
| 0.519 | 0.452 | 0.401 | 0.361 | 0.306 | 0.263 | 0.218 | 0.186 |
| 9.50 | 9.00 | 8.50 | 8.00 | 7.50 | 7.00 | 6.00 | 5.50 |
| 0.464 | 0.402 | 0.354 | 0.316 | 0.286 | 0.226 | 0.200 | 0.169 |
| 10.50 | 10.00 | 9.50 | 9.00 | 8.50 | 7.50 | 7.00 | 6.00 |
| 0.420 | 0.362 | 0.316 | 0.281 | 0.252 | 0.211 | 0.171 | 0.155 |
| 11.50 | 11.00 | 10.00 | 9.50 | 9.00 | 8.50 | 7.50 | 7.00 |
| 0.383 | 0.329 | 0.301 | 0.266 | 0.238 | 0.186 | 0.160 | 0.133 |
| 13.00 | 12.00 | 11.50 | 10.50 | 10.00 | 9.50 | 8.50 | 8.00 |
| 0.339 | 0.302 | 0.261 | 0.241 | 0.214 | 0.166 | 0.141 | 0.116 |
| 14.50 | 14.00 | 13.00 | 12.00 | 11.50 | 10.50 | 9.50 | 9.00 |
| 0.304 | 0.258 | 0.231 | 0.210 | 0.186 | 0.150 | 0.126 | 0.103 |
| 16.50 | 15.50 | 14.50 | 13.50 | 13.00 | 11.50 | 10.50 | 10.00 |
| 0.267 | 0.233 | 0.207 | 0.187 | 0.165 | 0.137 | 0.114 | 0.093 |
| 18.00 | 17.00 | 16.00 | 15.00 | 14.00 | 13.00 | 11.50 | 11.00 |
| 0.245 | 0.213 | 0.188 | 0.168 | 0.153 | 0.121 | 0.104 | 0.084 |
| 20.00 | 18.50 | 17.50 | 16.50 | 15.50 | 14.00 | 13.00 | 12.00 |
| 0.220 | 0.196 | 0.172 | 0.153 | 0.138 | 0.113 | 0.092 | 0.077 |

Tolerance JIS-2class, Unitmm
Total number of coil=Active coil+2

# Compression Spring ϕ0.70

| Cost Code | Outer Diameter / Free Length | 4.5 | 5.0 | 5.5 | 6.0 | 6.5 | 7.0 | 7.5 |
|---|---|---|---|---|---|---|---|---|
| 1 | 6.5 | 3.50<br>12.259 | 3.00<br>9.871 | 2.50<br>8.516 | | | | |
| 2 | 8.0 | 4.50<br>9.535 | 4.00<br>7.403 | 3.50<br>6.083 | 3.00<br>5.272 | 2.50<br>4.827 | 2.50<br>3.766 | 2.50<br>2.995 |
| 2 | 10.0 | 6.00<br>7.151 | 5.50<br>5.384 | 4.50<br>4.731 | 4.00<br>3.954 | 3.50<br>3.448 | 3.50<br>2.690 | 3.00<br>2.496 |
| 2 | 12.0 | 7.50<br>5.721 | 6.50<br>4.556 | 6.00<br>3.548 | 5.00<br>3.163 | 4.50<br>2.682 | 4.00<br>2.354 | 4.00<br>1.872 |
| 2 | 14.0 | 9.00<br>4.768 | 8.00<br>3.702 | 7.00<br>3.041 | 6.00<br>2.636 | 5.50<br>2.194 | 5.00<br>1.883 | 4.50<br>1.664 |
| 3 | 16.0 | 10.50<br>4.086 | 9.00<br>3.290 | 8.00<br>2.661 | 7.00<br>2.259 | 6.00<br>2.011 | 5.50<br>1.712 | 5.50<br>1.361 |
| 3 | 18.0 | 12.00<br>3.576 | 10.50<br>2.820 | 9.00<br>2.365 | 8.00<br>1.977 | 7.00<br>1.724 | 6.50<br>1.449 | 6.00<br>1.248 |
| 3 | 20.0 | 13.50<br>3.178 | 12.00<br>2.468 | 10.50<br>2.028 | 9.00<br>1.757 | 8.00<br>1.508 | 7.50<br>1.255 | 7.00<br>1.070 |
| 4 | 22.0 | 15.00<br>2.861 | 13.00<br>2.278 | 11.50<br>1.851 | 10.00<br>1.581 | 9.00<br>1.341 | 8.00<br>1.177 | 7.50<br>0.998 |
| 4 | 24.0 | 17.50<br>2.452 | 15.00<br>1.974 | 13.00<br>1.638 | 11.50<br>1.375 | 10.00<br>1.207 | 9.00<br>1.046 | 8.50<br>0.881 |
| 4 | 27.0 | 19.00<br>2.258 | 16.50<br>1.795 | 14.50<br>1.468 | 12.50<br>1.265 | 11.00<br>1.097 | 10.00<br>0.942 | 9.50<br>0.788 |
| 5 | 30.0 | 21.00<br>2.043 | 18.50<br>1.601 | 16.00<br>1.331 | 14.00<br>1.130 | 12.50<br>0.965 | 11.00<br>0.856 | 10.50<br>0.713 |
| 5 | 33.0 | 23.50<br>1.826 | 20.50<br>1.445 | 17.50<br>1.217 | 15.50<br>1.020 | 13.50<br>0.894 | 12.50<br>0.753 | 11.50<br>0.651 |
| 5 | 36.0 | 25.50<br>1.683 | 22.50<br>1.316 | 19.50<br>1.092 | 17.00<br>0.930 | 15.00<br>0.804 | 13.50<br>0.697 | 12.50<br>0.599 |
| 6 | 40.0 | | 24.50<br>1.209 | 21.50<br>0.990 | 19.00<br>0.832 | 16.50<br>0.731 | 15.00<br>0.628 | 14.00<br>0.535 |
| 6 | 45.0 | | | 24.50<br>0.869 | 21.00<br>0.753 | 19.00<br>0.635 | 17.00<br>0.554 | 16.00<br>0.468 |
| 7 | 50.0 | | | | 24.00<br>0.659 | 21.00<br>0.575 | 19.00<br>0.496 | 18.00<br>0.416 |
| 7 | 55.0 | | | | | 23.00<br>0.525 | 21.00<br>0.448 | 19.50<br>0.384 |

## Wire Dia : ϕ0.70·····280 Description

The top:Active coil  The lower:Spring constant(N/㎜)  Outer Diameter and Free length:
Solid(Length)Hight ≒ Dia×(Active Coil+3)  Max Deflection ≒ Free length－Solid Hight

## Dia:ϕ0.70, Material:SWPA, No grinding, Right

| 8.0 | 8.5 | 9.0 | 9.5 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
| | | | | | | | | |
| 2.00 | 2.00 | 2.00 | | | | | | |
| 3.026 | 2.481 | 2.059 | | | | | | |
| 3.00 | 2.50 | 2.50 | 2.50 | 2.50 | 2.00 | | | |
| 2.017 | 1.985 | 1.647 | 1.382 | 1.171 | 1.077 | | | |
| 3.50 | 3.50 | 3.00 | 3.00 | 3.00 | 2.50 | 2.50 | 2.00 | |
| 1.729 | 1.418 | 1.373 | 1.152 | 0.976 | 0.862 | 0.653 | 0.633 | |
| 4.00 | 4.00 | 3.50 | 3.50 | 3.50 | 3.00 | 3.00 | 2.50 | 2.50 |
| 1.513 | 1.240 | 1.176 | 0.987 | 0.836 | 0.718 | 0.544 | 0.506 | 0.400 |
| 5.00 | 4.50 | 4.50 | 4.00 | 4.00 | 3.50 | 3.00 | 3.00 | 3.00 |
| 1.210 | 1.103 | 0.915 | 0.864 | 0.732 | 0.616 | 0.544 | 0.422 | 0.334 |
| 5.50 | 5.00 | 5.00 | 4.50 | 4.50 | 4.00 | 3.50 | 3.50 | 3.00 |
| 1.100 | 0.992 | 0.824 | 0.768 | 0.650 | 0.539 | 0.466 | 0.361 | 0.334 |
| 6.50 | 6.00 | 5.50 | 5.00 | 5.00 | 4.50 | 4.00 | 4.00 | 3.50 |
| 0.931 | 0.827 | 0.749 | 0.691 | 0.585 | 0.479 | 0.408 | 0.316 | 0.286 |
| 7.00 | 6.50 | 6.00 | 6.00 | 5.50 | 5.00 | 4.50 | 4.50 | 4.00 |
| 0.865 | 0.763 | 0.686 | 0.576 | 0.532 | 0.431 | 0.363 | 0.281 | 0.250 |
| 8.00 | 7.50 | 7.00 | 6.50 | 6.50 | 5.50 | 5.00 | 5.00 | 4.50 |
| 0.757 | 0.662 | 0.588 | 0.532 | 0.450 | 0.392 | 0.326 | 0.253 | 0.222 |
| 8.50 | 8.00 | 7.50 | 7.00 | 7.00 | 6.00 | 5.50 | 5.50 | 5.00 |
| 0.712 | 0.620 | 0.549 | 0.494 | 0.418 | 0.359 | 0.297 | 0.230 | 0.200 |
| 9.50 | 9.00 | 8.50 | 8.00 | 7.50 | 7.00 | 6.50 | 6.00 | 5.50 |
| 0.637 | 0.551 | 0.484 | 0.432 | 0.390 | 0.308 | 0.251 | 0.211 | 0.182 |
| 10.50 | 10.00 | 9.50 | 9.00 | 8.50 | 7.50 | 7.00 | 6.50 | 6.00 |
| 0.576 | 0.496 | 0.433 | 0.384 | 0.344 | 0.287 | 0.233 | 0.195 | 0.167 |
| 12.00 | 11.00 | 10.50 | 10.00 | 9.50 | 8.50 | 7.50 | 7.00 | 6.50 |
| 0.504 | 0.451 | 0.392 | 0.345 | 0.308 | 0.253 | 0.218 | 0.181 | 0.154 |
| 13.00 | 12.50 | 11.50 | 11.00 | 10.50 | 9.50 | 8.50 | 8.00 | 7.50 |
| 0.466 | 0.397 | 0.358 | 0.314 | 0.279 | 0.227 | 0.192 | 0.158 | 0.133 |
| 15.00 | 14.00 | 13.00 | 12.50 | 11.50 | 10.50 | 9.50 | 9.00 | 8.00 |
| 0.403 | 0.354 | 0.317 | 0.276 | 0.255 | 0.205 | 0.172 | 0.141 | 0.125 |
| 16.50 | 15.50 | 14.50 | 14.00 | 13.00 | 12.00 | 10.50 | 10.00 | 9.00 |
| 0.367 | 0.320 | 0.284 | 0.247 | 0.225 | 0.180 | 0.155 | 0.127 | 0.111 |
| 18.50 | 17.00 | 16.00 | 15.00 | 14.50 | 13.00 | 12.00 | 11.00 | 10.00 |
| 0.327 | 0.292 | 0.257 | 0.230 | 0.202 | 0.166 | 0.136 | 0.115 | 0.100 |

Continued to reverse side.

Tolerance JIS-2class, Unitmm
Total number of coil=Active coil+2

# Compression Spring ϕ0.70

| Cost Code | Outer Diameter / Free Length | 4.5 | 5.0 | 5.5 | 6.0 | 6.5 | 7.0 | 7.5 |
|---|---|---|---|---|---|---|---|---|
| 8 | 60.0 | | | | | | 23.00<br>0.409 | 21.50<br>0.348 |
| 8 | 65.0 | | | | | | | |
| 9 | 70.0 | | | | | | | |

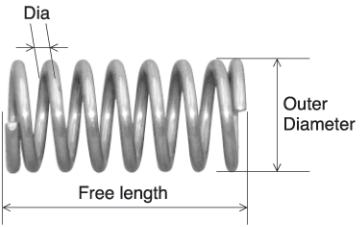
## Wire Dia : ϕ0.70·····280 Description

The top:Active coil　The lower:Spring constant(N/㎜)　Outer Diameter and Free length:
Solid(Length)Hight ≒ Dia × (Active Coil+3)　Max Deflection ≒ Free length − Solid Hight

## Dia:$\phi$0.70, Material:SWPA, No grinding, Right

| 8.0 | 8.5 | 9.0 | 9.5 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 |
|---|---|---|---|---|---|---|---|---|
| 20.00 | 18.50 | 17.50 | 16.50 | 16.00 | 14.00 | 13.00 | 12.00 | 11.00 |
| 0.303 | 0.268 | 0.235 | 0.209 | 0.183 | 0.154 | 0.126 | 0.105 | 0.091 |
| 22.00 | 20.50 | 19.00 | 18.00 | 17.00 | 15.50 | 14.00 | 13.00 | 12.00 |
| 0.275 | 0.242 | 0.217 | 0.192 | 0.172 | 0.139 | 0.117 | 0.097 | 0.083 |
| | | | | 18.50 | 16.50 | 15.00 | 14.00 | 13.00 |
| | | | | 0.158 | 0.131 | 0.109 | 0.090 | 0.077 |

Tolerance JIS-2class, Unitmm
Total number of coil=Active coil+2




Wire Dia : $\phi$0.70·····280 Description

# Compression Spring ϕ0.80

| Cost Code | Outer Diameter / Free Length | 5.0 | 5.5 | 6.0 | 6.5 | 7.0 | 7.5 | 8.0 |
|---|---|---|---|---|---|---|---|---|
| 2 | 6.5 | 3.00<br>18.071 | 2.50<br>15.475 | | | | | |
| 2 | 8.0 | 4.00<br>13.553 | 3.50<br>11.053 | 3.50<br>8.162 | 3.00<br>7.229 | 2.50<br>6.741 | 2.00<br>6.677 | 2.00<br>5.381 |
| 2 | 10.0 | 5.50<br>9.857 | 5.00<br>7.737 | 4.50<br>6.348 | 4.00<br>5.422 | 3.50<br>4.815 | 3.00<br>4.451 | 3.00<br>3.587 |
| 3 | 12.0 | 7.00<br>7.745 | 6.00<br>6.448 | 5.50<br>5.194 | 5.00<br>4.338 | 4.50<br>3.745 | 3.50<br>3.816 | 3.50<br>3.075 |
| 3 | 14.0 | 8.00<br>6.777 | 7.00<br>5.527 | 6.50<br>4.395 | 5.50<br>3.943 | 5.00<br>3.371 | 4.50<br>2.968 | 4.00<br>2.690 |
| 4 | 16.0 | 9.50<br>5.707 | 8.50<br>4.551 | 7.50<br>3.809 | 6.50<br>3.337 | 6.00<br>2.809 | 5.50<br>2.428 | 5.00<br>2.152 |
| 4 | 18.0 | 11.00<br>4.928 | 9.50<br>4.072 | 8.50<br>3.361 | 7.50<br>2.892 | 7.00<br>2.408 | 6.00<br>2.226 | 5.50<br>1.957 |
| 4 | 20.0 | 12.50<br>4.337 | 11.00<br>3.517 | 9.50<br>3.007 | 8.50<br>2.552 | 7.50<br>2.247 | 6.50<br>2.055 | 6.50<br>1.656 |
| 5 | 22.0 | 13.50<br>4.016 | 12.00<br>3.224 | 11.00<br>2.597 | 9.50<br>2.283 | 8.50<br>1.983 | 7.50<br>1.781 | 7.00<br>1.537 |
| 5 | 24.0 | 15.00<br>3.614 | 13.50<br>2.866 | 12.00<br>2.380 | 10.50<br>2.066 | 9.50<br>1.774 | 8.00<br>1.669 | 7.50<br>1.435 |
| 5 | 27.0 | 17.00<br>3.189 | 15.00<br>2.579 | 13.50<br>2.116 | 12.00<br>1.807 | 10.50<br>1.605 | 9.50<br>1.406 | 8.50<br>1.266 |
| 6 | 30.0 | 19.00<br>2.853 | 17.00<br>2.276 | 15.00<br>1.904 | 13.50<br>1.607 | 12.00<br>1.404 | 10.50<br>1.272 | 10.00<br>1.076 |
| 6 | 33.0 | 22.00<br>2.464 | 19.50<br>1.984 | 17.50<br>1.632 | 15.50<br>1.399 | 13.50<br>1.248 | 12.00<br>1.113 | 11.00<br>0.978 |
| 6 | 36.0 | 23.50<br>2.307 | 20.50<br>1.887 | 18.50<br>1.544 | 16.50<br>1.314 | 14.50<br>1.162 | 13.00<br>1.027 | 12.00<br>0.897 |
| 7 | 40.0 | 26.00<br>2.085 | 23.00<br>1.682 | 20.50<br>1.393 | 18.00<br>1.205 | 16.00<br>1.053 | 14.00<br>0.954 | 13.00<br>0.828 |
| 7 | 45.0 | | 26.00<br>1.488 | 23.50<br>1.216 | 20.50<br>1.058 | 18.50<br>0.911 | 16.00<br>0.835 | 15.00<br>0.717 |
| 7 | 50.0 | | | 26.00<br>1.099 | 23.00<br>0.943 | 20.50<br>0.822 | 18.00<br>0.742 | 16.50<br>0.652 |
| 8 | 55.0 | | | | 25.50<br>0.851 | 22.50<br>0.749 | 20.00<br>0.668 | 18.50<br>0.582 |

## Wire Dia : ϕ0.80·····315 Description

The top:Active coil  The lower:Spring constant(N/㎜)  Outer Diameter and Free length:
Solid(Length)Hight ≒ Dia × (Active Coil+3)  Max Deflection ≒ Free length − Solid Hight

## Dia:ϕ0.80, Material:SWPA, No grinding, Right

| 8.5 | 9.0 | 9.5 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |
| | | | | | | | | | |
| 2.00 | 2.00 | | | | | | | | |
| 4.399 | 3.642 | | | | | | | | |
| 2.50 | 2.50 | 2.50 | 2.00 | 2.00 | | | | | |
| 3.519 | 2.914 | 2.440 | 2.579 | 1.892 | | | | | |
| 3.50 | 3.00 | 3.00 | 3.00 | 2.50 | 2.50 | 2.00 | | | |
| 2.514 | 2.428 | 2.033 | 1.719 | 1.514 | 1.144 | 1.106 | | | |
| 4.00 | 3.50 | 3.50 | 3.50 | 3.00 | 3.00 | 2.50 | 2.00 | 2.00 | 2.00 |
| 2.199 | 2.081 | 1.743 | 1.474 | 1.262 | 0.953 | 0.885 | 0.873 | 0.701 | 0.572 |
| 4.50 | 4.50 | 4.00 | 4.00 | 3.50 | 3.00 | 3.00 | 2.50 | 2.50 | 2.50 |
| 1.955 | 1.619 | 1.525 | 1.290 | 1.081 | 0.953 | 0.737 | 0.699 | 0.561 | 0.457 |
| 5.50 | 5.00 | 4.50 | 4.50 | 4.00 | 3.50 | 3.50 | 3.00 | 3.00 | 3.00 |
| 1.600 | 1.457 | 1.355 | 1.146 | 0.946 | 0.817 | 0.632 | 0.582 | 0.468 | 0.381 |
| 6.00 | 5.50 | 5.00 | 5.00 | 4.50 | 4.00 | 4.00 | 3.50 | 3.50 | 3.00 |
| 1.466 | 1.324 | 1.220 | 1.032 | 0.841 | 0.715 | 0.553 | 0.499 | 0.401 | 0.381 |
| 6.50 | 6.00 | 6.00 | 5.50 | 5.00 | 4.50 | 4.00 | 4.00 | 3.50 | 3.50 |
| 1.354 | 1.214 | 1.017 | 0.938 | 0.757 | 0.635 | 0.553 | 0.437 | 0.401 | 0.327 |
| 7.00 | 7.00 | 6.50 | 6.00 | 5.50 | 5.00 | 4.50 | 4.50 | 4.00 | 4.00 |
| 1.257 | 1.041 | 0.938 | 0.860 | 0.688 | 0.572 | 0.492 | 0.388 | 0.351 | 0.286 |
| 8.00 | 7.50 | 7.00 | 7.00 | 6.00 | 5.50 | 5.00 | 5.00 | 4.50 | 4.00 |
| 1.100 | 0.971 | 0.871 | 0.737 | 0.631 | 0.520 | 0.442 | 0.349 | 0.312 | 0.286 |
| 9.00 | 8.50 | 8.00 | 7.50 | 7.00 | 6.50 | 6.00 | 5.50 | 5.00 | 4.50 |
| 0.978 | 0.857 | 0.762 | 0.688 | 0.541 | 0.440 | 0.369 | 0.318 | 0.281 | 0.254 |
| 10.50 | 9.50 | 9.00 | 8.50 | 8.00 | 7.00 | 6.50 | 6.00 | 5.50 | 5.50 |
| 0.838 | 0.767 | 0.678 | 0.607 | 0.473 | 0.408 | 0.340 | 0.291 | 0.255 | 0.208 |
| 11.00 | 10.50 | 10.00 | 9.50 | 8.50 | 7.50 | 7.00 | 6.50 | 6.00 | 6.00 |
| 0.800 | 0.694 | 0.610 | 0.543 | 0.445 | 0.381 | 0.316 | 0.269 | 0.234 | 0.191 |
| 12.50 | 11.50 | 11.00 | 10.50 | 9.50 | 8.50 | 8.00 | 7.50 | 7.00 | 6.50 |
| 0.704 | 0.633 | 0.554 | 0.491 | 0.398 | 0.336 | 0.276 | 0.233 | 0.200 | 0.176 |
| 14.00 | 13.00 | 12.50 | 11.50 | 10.50 | 9.50 | 9.00 | 8.00 | 7.50 | 7.00 |
| 0.628 | 0.560 | 0.488 | 0.449 | 0.360 | 0.301 | 0.246 | 0.218 | 0.187 | 0.163 |
| 15.50 | 14.50 | 14.00 | 13.00 | 12.00 | 11.00 | 10.00 | 9.00 | 8.50 | 8.00 |
| 0.568 | 0.502 | 0.436 | 0.397 | 0.315 | 0.260 | 0.221 | 0.194 | 0.165 | 0.143 |
| 17.50 | 16.50 | 15.50 | 14.50 | 13.00 | 12.00 | 11.00 | 10.00 | 9.50 | 9.00 |
| 0.503 | 0.441 | 0.394 | 0.356 | 0.291 | 0.238 | 0.201 | 0.175 | 0.148 | 0.127 |

Continued to reverse side.

Tolerance JIS-2class, Unitmm
Total number of coil=Active coil+2

# Compression Spring ϕ0.80

| Cost Code | Outer Diameter / Free Length | 5.0 | 5.5 | 6.0 | 6.5 | 7.0 | 7.5 | 8.0 |
|---|---|---|---|---|---|---|---|---|
| 8 | 60.0 | | | | | 25.00<br>0.674 | 21.50<br>0.621 | 20.00<br>0.538 |
| 8 | 65.0 | | | | | | | 22.00<br>0.489 |
| 9 | 70.0 | | | | | | | |
| 9 | 75.0 | | | | | | | |
| 10 | 80.0 | | | | | | | |

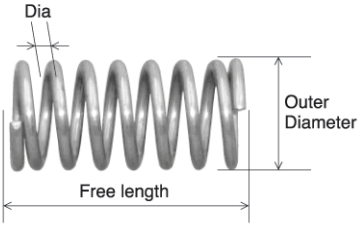
## Wire Dia : ϕ0.80……315 Description

The top:Active coil  The lower:Spring constant(N/㎜)  Outer Diameter and Free length:
Solid(Length)Hight ≒ Dia × (Active Coil+3)  Max Deflection ≒ Free length − Solid Hight

## Dia:ϕ0.80, Material:SWPA, No grinding, Right

| 8.5 | 9.0 | 9.5 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 |
|---|---|---|---|---|---|---|---|---|---|
| 19.00 | 17.50 | 16.50 | 16.00 | 14.50 | 13.00 | 12.00 | 11.00 | 10.50 | 9.50 |
| 0.463 | 0.416 | 0.370 | 0.322 | 0.261 | 0.220 | 0.184 | 0.159 | 0.134 | 0.120 |
| 20.50 | 19.50 | 18.00 | 17.00 | 15.50 | 14.00 | 13.00 | 12.00 | 11.00 | 10.50 |
| 0.429 | 0.374 | 0.339 | 0.303 | 0.244 | 0.204 | 0.170 | 0.146 | 0.128 | 0.109 |
| 22.00 | 21.00 | 19.50 | 18.50 | 16.50 | 15.00 | 15.00 | 13.00 | 12.00 | 11.50 |
| 0.400 | 0.347 | 0.313 | 0.279 | 0.229 | 0.191 | 0.147 | 0.134 | 0.117 | 0.099 |
| | | | 20.00 | 18.00 | 16.50 | 15.00 | 14.00 | 13.00 | 12.00 |
| | | | 0.258 | 0.210 | 0.173 | 0.147 | 0.125 | 0.108 | 0.095 |
| | | | | | 17.50 | 16.00 | 15.00 | 14.00 | 13.00 |
| | | | | | 0.163 | 0.138 | 0.116 | 0.100 | 0.088 |

Tolerance JIS-2class, Unitmm
Total number of coil=Active coil+2




Wire Dia : ϕ0.80·····315 Description

# Compression Spring ϕ0.90

| Cost Code | Outer Diameter / Free Length | 5.5 | 6.0 | 6.5 | 7.0 | 7.5 | 8.0 | 8.5 |
|---|---|---|---|---|---|---|---|---|
| 3 | 8.0 | 3.50<br>18.885 | 3.00<br>16.167 | 3.00<br>12.212 | 2.50<br>11.338 | 2.50<br>8.951 | 2.00<br>8.988 | 2.00<br>7.328 |
| 3 | 10.0 | 4.50<br>14.688 | 4.00<br>12.125 | 4.00<br>9.159 | 3.50<br>8.098 | 3.00<br>7.459 | 3.00<br>5.992 | 2.50<br>5.862 |
| 3 | 12.0 | 6.00<br>11.016 | 5.50<br>8.818 | 5.00<br>7.327 | 4.50<br>6.299 | 4.00<br>5.595 | 3.50<br>5.136 | 3.50<br>4.187 |
| 3 | 14.0 | 7.50<br>8.813 | 6.50<br>7.462 | 6.00<br>6.106 | 5.50<br>5.154 | 5.00<br>4.476 | 4.50<br>3.995 | 4.00<br>3.664 |
| 4 | 16.0 | 8.50<br>7.776 | 7.50<br>6.467 | 7.00<br>5.234 | 6.00<br>4.724 | 5.50<br>4.069 | 5.00<br>3.595 | 4.50<br>3.257 |
| 4 | 18.0 | 10.00<br>6.610 | 9.00<br>5.389 | 8.00<br>4.579 | 7.00<br>4.049 | 6.50<br>3.443 | 6.00<br>2.996 | 5.50<br>2.665 |
| 4 | 20.0 | 11.00<br>6.009 | 10.00<br>4.850 | 9.00<br>4.071 | 8.00<br>3.543 | 7.00<br>3.197 | 6.50<br>2.765 | 6.00<br>2.443 |
| 5 | 22.0 | 12.50<br>5.288 | 11.00<br>4.409 | 10.00<br>3.664 | 9.00<br>3.149 | 8.00<br>2.797 | 7.50<br>2.397 | 6.50<br>2.255 |
| 5 | 24.0 | 13.50<br>4.896 | 12.00<br>4.042 | 11.00<br>3.330 | 10.00<br>2.834 | 9.00<br>2.486 | 8.00<br>2.247 | 7.50<br>1.954 |
| 5 | 27.0 | 15.50<br>4.264 | 14.00<br>3.464 | 12.50<br>2.931 | 11.00<br>2.577 | 10.00<br>2.238 | 9.00<br>1.997 | 8.50<br>1.724 |
| 6 | 30.0 | 17.50<br>3.777 | 15.50<br>3.129 | 14.00<br>2.617 | 12.50<br>2.268 | 11.50<br>1.946 | 10.00<br>1.798 | 9.50<br>1.543 |
| 6 | 33.0 | 19.00<br>3.479 | 17.50<br>2.771 | 15.50<br>2.364 | 14.00<br>2.025 | 12.50<br>1.790 | 11.50<br>1.563 | 10.50<br>1.396 |
| 6 | 36.0 | 21.00<br>3.148 | 19.00<br>2.553 | 17.00<br>2.155 | 15.50<br>1.829 | 14.00<br>1.598 | 12.50<br>1.438 | 11.50<br>1.274 |
| 7 | 40.0 | 23.50<br>2.813 | 21.00<br>2.310 | 19.00<br>1.928 | 17.00<br>1.667 | 15.50<br>1.444 | 14.00<br>1.284 | 13.00<br>1.127 |
| 7 | 45.0 | 27.00<br>2.448 | 24.00<br>2.021 | 21.50<br>1.704 | 19.50<br>1.454 | 17.50<br>1.279 | 16.00<br>1.123 | 14.50<br>1.011 |
| 7 | 50.0 | | 27.00<br>1.796 | 24.00<br>1.526 | 21.50<br>1.318 | 20.00<br>1.119 | 17.50<br>1.027 | 16.00<br>0.916 |
| 8 | 55.0 | | | 27.00<br>1.357 | 24.00<br>1.181 | 21.50<br>1.041 | 20.00<br>0.899 | 18.00<br>0.814 |
| 8 | 60.0 | | | | 26.50<br>1.070 | 23.50<br>0.952 | 21.50<br>0.836 | 19.50<br>0.752 |

## Wire Dia : ϕ0.90·····340 Description

The top:Active coil  The lower:Spring constant(N/㎜)  Outer Diameter and Free length:
Solid(Length)Hight ≒ Dia × (Active Coil+3)  Max Deflection ≒ Free length − Solid Hight

## Dia:ϕ0.90, Material:SWPA, No grinding, Right

| 9.0 | 9.5 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 | 18.0 |
|---|---|---|---|---|---|---|---|---|---|
| 2.00 | | | | | | | | | |
| 6.053 | | | | | | | | | |
| 2.50 | 2.50 | 2.00 | 2.00 | | | | | | |
| 4.842 | 4.046 | 4.269 | 3.122 | | | | | | |
| 3.00 | 3.00 | 2.50 | 2.50 | 2.00 | 2.00 | | | | |
| 4.035 | 3.372 | 3.415 | 2.498 | 2.352 | 1.816 | | | | |
| 3.50 | 3.50 | 3.00 | 3.00 | 2.50 | 2.50 | 2.50 | | | |
| 3.459 | 2.890 | 2.846 | 2.082 | 1.882 | 1.453 | 1.145 | | | |
| 4.00 | 4.00 | 4.00 | 3.50 | 3.00 | 3.00 | 2.50 | 2.50 | 2.50 | |
| 3.027 | 2.529 | 2.134 | 1.784 | 1.568 | 1.211 | 1.145 | 0.918 | 0.747 | |
| 5.00 | 4.50 | 4.50 | 4.00 | 3.50 | 3.50 | 3.00 | 3.00 | 3.00 | 2.50 |
| 2.421 | 2.248 | 1.897 | 1.561 | 1.344 | 1.038 | 0.954 | 0.765 | 0.623 | 0.515 |
| 5.50 | 5.00 | 5.00 | 4.50 | 4.00 | 3.50 | 3.50 | 3.00 | 3.00 | 3.00 |
| 2.201 | 2.023 | 1.708 | 1.388 | 1.176 | 1.038 | 0.818 | 0.765 | 0.623 | 0.429 |
| 6.00 | 6.00 | 5.50 | 5.00 | 4.50 | 4.00 | 4.00 | 3.50 | 3.50 | 3.00 |
| 2.018 | 1.686 | 1.552 | 1.249 | 1.045 | 0.908 | 0.715 | 0.656 | 0.534 | 0.429 |
| 6.50 | 6.50 | 6.00 | 5.50 | 5.00 | 4.50 | 4.50 | 4.00 | 4.00 | 3.50 |
| 1.862 | 1.556 | 1.423 | 1.135 | 0.941 | 0.807 | 0.636 | 0.574 | 0.467 | 0.368 |
| 7.50 | 7.00 | 7.00 | 6.00 | 5.50 | 5.00 | 5.00 | 4.50 | 4.00 | 4.00 |
| 1.614 | 1.445 | 1.220 | 1.041 | 0.855 | 0.726 | 0.572 | 0.510 | 0.467 | 0.322 |
| 8.50 | 8.00 | 7.50 | 7.00 | 6.50 | 6.00 | 5.50 | 5.00 | 4.50 | 4.00 |
| 1.424 | 1.264 | 1.138 | 0.892 | 0.724 | 0.605 | 0.520 | 0.459 | 0.415 | 0.322 |
| 9.50 | 9.00 | 8.50 | 7.50 | 7.00 | 6.50 | 6.00 | 5.50 | 5.00 | 4.50 |
| 1.274 | 1.124 | 1.004 | 0.833 | 0.672 | 0.559 | 0.477 | 0.417 | 0.374 | 0.286 |
| 10.50 | 10.00 | 9.50 | 8.50 | 7.50 | 7.00 | 6.50 | 6.00 | 5.50 | 5.00 |
| 1.153 | 1.012 | 0.899 | 0.735 | 0.627 | 0.519 | 0.440 | 0.383 | 0.340 | 0.257 |
| 11.50 | 11.00 | 10.50 | 9.50 | 8.50 | 8.00 | 7.50 | 7.00 | 6.50 | 5.50 |
| 1.053 | 0.920 | 0.813 | 0.657 | 0.553 | 0.454 | 0.382 | 0.328 | 0.287 | 0.234 |
| 13.00 | 12.50 | 12.00 | 10.50 | 9.50 | 9.00 | 8.00 | 7.50 | 7.00 | 6.50 |
| 0.931 | 0.809 | 0.711 | 0.595 | 0.495 | 0.404 | 0.358 | 0.306 | 0.267 | 0.198 |
| 14.50 | 14.00 | 13.00 | 12.00 | 11.00 | 10.00 | 9.00 | 8.50 | 8.00 | 7.00 |
| 0.835 | 0.723 | 0.657 | 0.520 | 0.428 | 0.363 | 0.318 | 0.270 | 0.234 | 0.184 |
| 16.50 | 15.50 | 14.50 | 13.00 | 12.00 | 11.00 | 10.00 | 9.50 | 9.00 | 8.00 |
| 0.734 | 0.653 | 0.589 | 0.480 | 0.392 | 0.330 | 0.286 | 0.242 | 0.208 | 0.161 |
| 17.50 | 17.00 | 16.00 | 14.50 | 13.00 | 12.00 | 11.00 | 10.50 | 9.50 | 8.50 |
| 0.692 | 0.595 | 0.534 | 0.431 | 0.362 | 0.303 | 0.260 | 0.219 | 0.197 | 0.151 |

Continued to reverse side.

Tolerance JIS-2class, Unitmm
Total number of coil=Active coil+2

# Compression Spring ϕ0.90

| Cost Code | Outer Diameter / Free Length | 5.5 | 6.0 | 6.5 | 7.0 | 7.5 | 8.0 | 8.5 |
|---|---|---|---|---|---|---|---|---|
| 8 | 65.0 | | | | | 25.50<br>0.878 | 23.50<br>0.765 | 21.00<br>0.698 |
| 9 | 70.0 | | | | | | | |
| 9 | 75.0 | | | | | | | |
| 10 | 80.0 | | | | | | | |
| 10 | 85.0 | | | | | | | |
| 11 | 90.0 | | | | | | | |
| 11 | 95.0 | | | | | | | |
| 12 | 100.0 | | | | | | | |

SWP

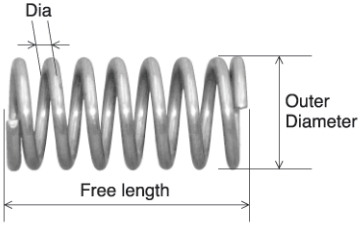
## Wire Dia : ϕ0.90·····340 Description

The top:Active coil  The lower:Spring constant(N/㎜)  Outer Diameter and Free length:
Solid(Length)Hight ≒ Dia × (Active Coil+3)  Max Deflection ≒ Free length − Solid Hight

## Dia:ϕ0.90, Material:SWPA, No grinding, Right

| 9.0 | 9.5 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 | 18.0 |
|---|---|---|---|---|---|---|---|---|---|
| 19.50 | 18.50 | 17.50 | 15.50 | 14.50 | 13.00 | 12.00 | 11.50 | 10.50 | 9.50 |
| 0.621 | 0.547 | 0.488 | 0.403 | 0.324 | 0.279 | 0.238 | 0.200 | 0.178 | 0.135 |
| | 19.50 | 18.50 | 17.00 | 15.50 | 14.00 | 13.00 | 12.00 | 11.50 | 10.00 |
| | 0.519 | 0.461 | 0.367 | 0.304 | 0.259 | 0.220 | 0.191 | 0.162 | 0.129 |
| | | 20.00 | 18.00 | 16.50 | 15.00 | 14.00 | 13.00 | 12.00 | 11.00 |
| | | 0.427 | 0.347 | 0.285 | 0.242 | 0.204 | 0.177 | 0.156 | 0.117 |
| | | 21.50 | 19.50 | 17.50 | 16.00 | 15.00 | 14.00 | 13.00 | 11.50 |
| | | 0.397 | 0.320 | 0.269 | 0.227 | 0.191 | 0.164 | 0.144 | 0.112 |
| | | | 20.50 | 19.00 | 17.00 | 16.00 | 15.00 | 14.00 | 12.00 |
| | | | 0.305 | 0.248 | 0.214 | 0.179 | 0.153 | 0.133 | 0.107 |
| | | | | 20.00 | 18.00 | 17.00 | 15.50 | 14.50 | 13.00 |
| | | | | 0.235 | 0.202 | 0.168 | 0.148 | 0.129 | 0.099 |
| | | | | 21.00 | 19.00 | 18.00 | 16.50 | 15.50 | 13.50 |
| | | | | 0.224 | 0.191 | 0.159 | 0.139 | 0.121 | 0.095 |
| | | | | 22.00 | 20.00 | 19.00 | 17.50 | 16.50 | 14.50 |
| | | | | 0.214 | 0.182 | 0.151 | 0.131 | 0.113 | 0.089 |

Tolerance JIS-2class, Unitmm
Total number of coil=Active coil+2




Wire Dia : ϕ0.90·····340 Description

# Compression Spring ϕ1.00

| Cost Code | Outer Diameter / Free Length | 6.0 | 6.5 | 7.0 | 7.5 | 8.0 | 8.5 | 9.0 |
|---|---|---|---|---|---|---|---|---|
| 3 | 8.0 | 3.00 | 3.00 | 2.50 | 2.50 | 2.00 | 2.00 | 2.00 |
| | | 26.149 | 19.646 | 18.159 | 14.283 | 14.294 | 11.622 | 9.576 |
| 3 | 10.0 | 4.00 | 4.00 | 3.50 | 3.00 | 3.00 | 2.50 | 2.50 |
| | | 19.612 | 14.735 | 12.971 | 11.902 | 9.530 | 9.298 | 7.661 |
| 4 | 12.0 | 5.50 | 5.00 | 4.50 | 4.00 | 4.00 | 3.50 | 3.00 |
| | | 14.263 | 11.788 | 10.088 | 8.927 | 7.147 | 6.641 | 6.384 |
| 4 | 14.0 | 6.50 | 6.00 | 5.50 | 5.00 | 4.50 | 4.00 | 4.00 |
| | | 12.069 | 9.823 | 8.254 | 7.141 | 6.353 | 5.811 | 4.788 |
| 4 | 16.0 | 8.00 | 7.00 | 6.50 | 6.00 | 5.50 | 5.00 | 4.50 |
| | | 9.806 | 8.420 | 6.984 | 5.951 | 5.198 | 4.649 | 4.256 |
| 5 | 18.0 | 9.00 | 8.00 | 7.50 | 6.50 | 6.00 | 5.50 | 5.00 |
| | | 8.716 | 7.367 | 6.053 | 5.493 | 4.765 | 4.226 | 3.830 |
| 5 | 20.0 | 10.00 | 9.00 | 8.50 | 7.50 | 7.00 | 6.50 | 6.00 |
| | | 7.845 | 6.549 | 5.341 | 4.761 | 4.084 | 3.576 | 3.192 |
| 6 | 22.0 | 11.50 | 10.00 | 9.50 | 8.50 | 8.00 | 7.00 | 6.50 |
| | | 6.822 | 5.894 | 4.779 | 4.201 | 3.574 | 3.321 | 2.947 |
| 6 | 24.0 | 12.50 | 11.50 | 10.50 | 9.00 | 8.50 | 7.50 | 7.00 |
| | | 6.276 | 5.125 | 4.324 | 3.967 | 3.363 | 3.099 | 2.736 |
| 6 | 27.0 | 14.00 | 13.00 | 12.00 | 10.50 | 10.00 | 9.00 | 8.00 |
| | | 5.603 | 4.534 | 3.783 | 3.401 | 2.859 | 2.583 | 2.394 |
| 7 | 30.0 | 16.00 | 14.50 | 13.50 | 12.00 | 11.00 | 10.00 | 9.00 |
| | | 4.903 | 4.065 | 3.363 | 2.976 | 2.599 | 2.324 | 2.128 |
| 7 | 33.0 | 17.50 | 16.00 | 15.00 | 13.00 | 12.00 | 11.00 | 10.00 |
| | | 4.483 | 3.684 | 3.027 | 2.747 | 2.382 | 2.113 | 1.915 |
| 7 | 36.0 | 19.50 | 17.50 | 16.50 | 14.50 | 13.50 | 12.00 | 11.00 |
| | | 4.023 | 3.368 | 2.751 | 2.463 | 2.118 | 1.937 | 1.741 |
| 8 | 40.0 | 22.00 | 20.00 | 18.50 | 16.00 | 15.00 | 13.50 | 12.50 |
| | | 3.566 | 2.947 | 2.454 | 2.232 | 1.906 | 1.722 | 1.532 |
| 8 | 45.0 | 24.50 | 22.50 | 21.00 | 18.50 | 17.00 | 15.50 | 14.00 |
| | | 3.202 | 2.620 | 2.162 | 1.930 | 1.682 | 1.500 | 1.368 |
| 8 | 50.0 | 27.50 | 25.00 | 23.50 | 20.50 | 19.00 | 17.00 | 16.00 |
| | | 2.853 | 2.358 | 1.932 | 1.742 | 1.505 | 1.367 | 1.197 |
| 9 | 55.0 | | 28.00 | 25.50 | 22.50 | 21.00 | 19.00 | 17.50 |
| | | | 2.105 | 1.780 | 1.587 | 1.361 | 1.223 | 1.094 |
| 9 | 60.0 | | | 27.50 | 25.00 | 23.00 | 20.50 | 19.00 |
| | | | | 1.651 | 1.428 | 1.243 | 1.134 | 1.008 |

## Wire Dia : ϕ1.00·····348 Description

The top:Active coil  The lower:Spring constant(N/mm)  Outer Diameter and Free length:
Solid(Length)Hight ≒ Dia × (Active Coil+3)  Max Deflection ≒ Free length − Solid Hight

## Dia:ϕ1.00, Material:SWPA, No grinding, Right

| 9.5 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 | 18.0 | 20.0 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |
| | | | | | | | | | |
| 2.50 | 2.00 | 2.00 | | | | | | | |
| 6.387 | 6.726 | 4.903 | | | | | | | |
| 3.00 | 2.50 | 2.50 | 2.50 | 2.00 | | | | | |
| 5.322 | 5.381 | 3.922 | 2.947 | 2.837 | | | | | |
| 3.50 | 3.50 | 3.00 | 2.50 | 2.50 | 2.50 | 2.00 | | | |
| 4.562 | 3.843 | 3.269 | 2.947 | 2.270 | 1.785 | 1.787 | | | |
| 4.00 | 4.00 | 3.50 | 3.00 | 3.00 | 2.50 | 2.50 | 2.50 | 2.00 | |
| 3.992 | 3.363 | 2.802 | 2.456 | 1.892 | 1.785 | 1.429 | 1.162 | 0.998 | |
| 4.50 | 4.50 | 4.00 | 3.50 | 3.50 | 3.00 | 3.00 | 2.50 | 2.50 | 2.00 |
| 3.548 | 2.989 | 2.452 | 2.105 | 1.621 | 1.488 | 1.191 | 1.162 | 0.798 | 0.715 |
| 5.50 | 5.00 | 4.50 | 4.00 | 4.00 | 3.50 | 3.50 | 3.00 | 3.00 | 2.50 |
| 2.903 | 2.690 | 2.179 | 1.842 | 1.419 | 1.275 | 1.021 | 0.968 | 0.665 | 0.572 |
| 6.00 | 5.50 | 5.00 | 4.50 | 4.00 | 4.00 | 3.50 | 3.50 | 3.00 | 2.50 |
| 2.661 | 2.446 | 1.961 | 1.637 | 1.419 | 1.116 | 1.021 | 0.830 | 0.665 | 0.572 |
| 6.50 | 6.00 | 5.50 | 5.00 | 4.50 | 4.50 | 4.00 | 3.50 | 3.50 | 3.00 |
| 2.457 | 2.242 | 1.783 | 1.473 | 1.261 | 0.992 | 0.893 | 0.830 | 0.570 | 0.477 |
| 7.50 | 7.00 | 6.00 | 5.50 | 5.00 | 5.00 | 4.50 | 4.00 | 4.00 | 3.50 |
| 2.129 | 1.922 | 1.634 | 1.340 | 1.135 | 0.893 | 0.794 | 0.726 | 0.499 | 0.408 |
| 8.50 | 7.50 | 6.50 | 6.50 | 6.00 | 5.50 | 5.00 | 4.50 | 4.00 | 4.00 |
| 1.879 | 1.794 | 1.509 | 1.133 | 0.946 | 0.812 | 0.715 | 0.646 | 0.499 | 0.357 |
| 9.00 | 8.50 | 7.50 | 7.00 | 6.50 | 6.00 | 5.50 | 5.00 | 4.50 | 4.00 |
| 1.774 | 1.583 | 1.307 | 1.052 | 0.873 | 0.744 | 0.650 | 0.581 | 0.444 | 0.357 |
| 10.00 | 9.50 | 8.50 | 7.50 | 7.00 | 6.50 | 6.00 | 5.50 | 5.00 | 4.50 |
| 1.597 | 1.416 | 1.154 | 0.982 | 0.811 | 0.687 | 0.596 | 0.528 | 0.399 | 0.318 |
| 11.50 | 10.50 | 9.50 | 8.50 | 8.00 | 7.50 | 7.00 | 6.50 | 5.50 | 5.00 |
| 1.388 | 1.281 | 1.032 | 0.867 | 0.709 | 0.595 | 0.511 | 0.447 | 0.363 | 0.286 |
| 13.00 | 12.00 | 10.50 | 10.00 | 9.00 | 8.50 | 7.50 | 7.50 | 6.50 | 6.00 |
| 1.228 | 1.121 | 0.934 | 0.737 | 0.631 | 0.525 | 0.476 | 0.387 | 0.307 | 0.238 |
| 14.50 | 13.50 | 12.00 | 11.00 | 10.00 | 9.50 | 8.50 | 8.50 | 7.00 | 6.50 |
| 1.101 | 0.996 | 0.817 | 0.670 | 0.567 | 0.470 | 0.420 | 0.342 | 0.285 | 0.220 |
| 16.00 | 14.50 | 13.00 | 12.00 | 11.00 | 10.00 | 9.50 | 9.00 | 8.00 | 7.00 |
| 0.998 | 0.928 | 0.754 | 0.614 | 0.516 | 0.446 | 0.376 | 0.323 | 0.249 | 0.204 |
| 17.50 | 16.00 | 14.50 | 13.00 | 12.00 | 11.00 | 10.50 | 9.50 | 8.50 | 7.50 |
| 0.912 | 0.841 | 0.676 | 0.567 | 0.473 | 0.406 | 0.340 | 0.306 | 0.235 | 0.191 |

Continued to reverse side.

Tolerance JIS-2class, Unitmm
Total number of coil=Active coil+2

# Compression Spring ϕ1.00

| Cost Code | Outer Diameter / Free Length | 6.0 | 6.5 | 7.0 | 7.5 | 8.0 | 8.5 | 9.0 |
|---|---|---|---|---|---|---|---|---|
| 9 | 65.0 | | | | 27.00<br>1.322 | 25.00<br>1.144 | 22.50<br>1.033 | 21.00<br>0.912 |
| 10 | 70.0 | | | | | | | |
| 10 | 75.0 | | | | | | | |
| 11 | 80.0 | | | | | | | |
| 11 | 85.0 | | | | | | | |
| 12 | 90.0 | | | | | | | |
| 12 | 95.0 | | | | | | | |
| 13 | 100.0 | | | | | | | |

SWP

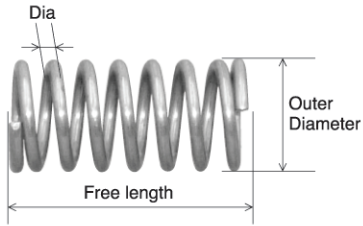
## Wire Dia : ϕ1.00·····348 Description

The top:Active coil  The lower:Spring constant(N/㎜)  Outer Diameter and Free length:
Solid(Length)Hight ≒ Dia × (Active Coil+3)  Max Deflection ≒ Free length − Solid Hight

## Dia:ϕ1.00, Material:SWPA, No grinding, Right

| 9.5 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 | 18.0 | 20.0 |
|---|---|---|---|---|---|---|---|---|---|
| 19.00 | 17.50 | 15.50 | 14.50 | 13.00 | 12.00 | 11.50 | 10.50 | 9.50 | 8.50 |
| 0.840 | 0.769 | 0.633 | 0.508 | 0.437 | 0.372 | 0.311 | 0.277 | 0.210 | 0.168 |
| 20.50 | 19.00 | 17.00 | 15.50 | 14.00 | 13.00 | 12.00 | 11.50 | 10.00 | 9.00 |
| 0.779 | 0.708 | 0.577 | 0.475 | 0.405 | 0.343 | 0.298 | 0.253 | 0.200 | 0.159 |
| | 20.00 | 18.00 | 16.50 | 15.00 | 14.00 | 13.00 | 12.00 | 11.00 | 9.50 |
| | 0.673 | 0.545 | 0.447 | 0.378 | 0.319 | 0.275 | 0.242 | 0.181 | 0.150 |
| | 21.50 | 19.50 | 17.50 | 16.00 | 15.00 | 14.00 | 13.00 | 11.50 | 10.50 |
| | 0.626 | 0.503 | 0.421 | 0.355 | 0.298 | 0.255 | 0.223 | 0.174 | 0.136 |
| | | 20.50 | 19.00 | 17.50 | 16.00 | 15.00 | 14.00 | 12.50 | 11.00 |
| | | 0.478 | 0.388 | 0.324 | 0.279 | 0.238 | 0.208 | 0.160 | 0.130 |
| | | | 20.00 | 18.50 | 17.00 | 16.00 | 14.50 | 13.00 | 11.50 |
| | | | 0.368 | 0.307 | 0.263 | 0.223 | 0.200 | 0.154 | 0.124 |
| | | | 21.00 | 19.50 | 18.00 | 16.50 | 15.50 | 14.00 | 12.50 |
| | | | 0.351 | 0.291 | 0.248 | 0.217 | 0.187 | 0.143 | 0.114 |
| | | | 22.00 | 20.50 | 19.00 | 17.50 | 16.50 | 14.50 | 13.00 |
| | | | 0.335 | 0.277 | 0.235 | 0.204 | 0.176 | 0.138 | 0.110 |

Tolerance JIS-2class, Unitmm
Total number of coil=Active coil+2




Wire Dia : ϕ1.00·····348 Description

# Compression Spring ϕ1.20

| Cost Code | Outer Diameter / Free Length | 7.0 | 7.5 | 8.0 | 8.5 | 9.0 | 9.5 | 10.0 |
|---|---|---|---|---|---|---|---|---|
| 4 | 8.0 | 2.50<br>41.686 | 2.50<br>32.528 | 2.00<br>32.334 | 2.00<br>26.135 | 2.00<br>21.424 | | |
| 4 | 10.0 | 3.50<br>29.776 | 3.00<br>27.107 | 3.00<br>21.556 | 2.50<br>20.908 | 2.50<br>17.139 | 2.50<br>14.225 | 2.00<br>14.919 |
| 5 | 12.0 | 4.50<br>23.159 | 4.00<br>20.330 | 4.00<br>16.167 | 3.50<br>14.934 | 3.50<br>12.242 | 3.00<br>11.854 | 3.00<br>9.946 |
| 5 | 14.0 | 5.50<br>18.948 | 5.00<br>16.264 | 4.50<br>14.371 | 4.50<br>11.615 | 4.00<br>10.712 | 3.50<br>10.160 | 3.50<br>8.525 |
| 5 | 16.0 | 6.50<br>16.033 | 6.00<br>13.553 | 5.50<br>11.758 | 5.00<br>10.454 | 5.00<br>8.570 | 4.50<br>7.903 | 4.00<br>7.459 |
| 6 | 18.0 | 7.50<br>13.895 | 7.00<br>11.617 | 6.50<br>9.949 | 6.00<br>8.712 | 5.50<br>7.791 | 5.00<br>7.112 | 5.00<br>5.968 |
| 6 | 20.0 | 8.50<br>12.261 | 8.00<br>10.165 | 7.50<br>8.622 | 7.00<br>7.467 | 6.00<br>7.141 | 6.00<br>5.927 | 5.50<br>5.425 |
| 6 | 22.0 | 9.50<br>10.970 | 9.00<br>9.036 | 8.00<br>8.084 | 7.50<br>6.969 | 7.00<br>6.121 | 6.50<br>5.471 | 6.00<br>4.973 |
| 7 | 24.0 | 10.50<br>9.925 | 9.50<br>8.560 | 9.00<br>7.185 | 8.50<br>6.149 | 8.00<br>5.356 | 7.00<br>5.080 | 6.50<br>4.590 |
| 7 | 27.0 | 12.00<br>8.685 | 11.00<br>7.393 | 10.50<br>6.159 | 9.50<br>5.502 | 9.00<br>4.761 | 8.00<br>4.445 | 7.50<br>3.978 |
| 7 | 30.0 | 13.50<br>7.720 | 12.50<br>6.506 | 11.50<br>5.623 | 11.00<br>4.752 | 10.00<br>4.285 | 9.00<br>3.951 | 8.50<br>3.510 |
| 8 | 33.0 | 15.00<br>6.948 | 14.00<br>5.809 | 13.00<br>4.974 | 12.00<br>4.356 | 11.00<br>3.895 | 10.00<br>3.556 | 9.50<br>3.141 |
| 8 | 36.0 | 16.50<br>6.316 | 15.50<br>5.246 | 14.00<br>4.619 | 13.00<br>4.021 | 12.00<br>3.571 | 11.50<br>3.092 | 10.50<br>2.842 |
| 8 | 40.0 | 18.50<br>5.633 | 17.00<br>4.784 | 16.00<br>4.042 | 15.00<br>3.485 | 13.50<br>3.174 | 12.50<br>2.845 | 12.00<br>2.486 |
| 9 | 45.0 | 21.00<br>4.963 | 19.50<br>4.170 | 18.00<br>3.593 | 17.00<br>3.075 | 15.50<br>2.764 | 14.50<br>2.453 | 13.50<br>2.210 |
| 9 | 50.0 | 23.50<br>4.435 | 22.00<br>3.696 | 20.00<br>3.233 | 19.00<br>2.751 | 17.50<br>2.448 | 16.00<br>2.223 | 15.00<br>1.989 |
| 9 | 55.0 | 26.50<br>3.933 | 24.00<br>3.388 | 22.50<br>2.874 | 21.00<br>2.489 | 19.50<br>2.197 | 18.00<br>1.976 | 16.50<br>1.808 |
| 10 | 60.0 | 28.50<br>3.657 | 26.50<br>3.069 | 24.50<br>2.640 | 23.00<br>2.273 | 21.00<br>2.040 | 19.50<br>1.824 | 18.00<br>1.658 |

## Wire Dia : ϕ1.20·····357 Description

The top:Active coil  The lower:Spring constant(N/㎜)  Outer Diameter and Free length:
Solid(Length)Hight ≒ Dia×(Active Coil+3)  Max Deflection ≒ Free length−Solid Hight

SWP

## Dia:ϕ1.20, Material:SWPA, No grinding, Right

| 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 | 18.0 | 20.0 | 22.0 | 24.0 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |
| | | | | | | | | | |
| 2.00 | | | | | | | | | |
| 10.802 | | | | | | | | | |
| 2.50 | 2.00 | 2.00 | | | | | | | |
| 8.642 | 8.071 | 6.188 | | | | | | | |
| 3.00 | 2.50 | 2.50 | 2.00 | 2.00 | 2.00 | | | | |
| 7.201 | 6.457 | 4.950 | 4.848 | 3.869 | 3.136 | | | | |
| 3.50 | 3.00 | 3.00 | 2.50 | 2.50 | 2.50 | 2.00 | | | |
| 6.173 | 5.381 | 4.125 | 3.878 | 3.095 | 2.509 | 2.144 | | | |
| 4.00 | 3.50 | 3.50 | 3.00 | 3.00 | 2.50 | 2.50 | 2.00 | 2.00 | |
| 5.401 | 4.612 | 3.536 | 3.232 | 2.579 | 2.509 | 1.715 | 1.530 | 1.130 | |
| 4.50 | 4.00 | 3.50 | 3.50 | 3.00 | 3.00 | 2.50 | 2.50 | 2.00 | 2.00 |
| 4.801 | 4.035 | 3.536 | 2.770 | 2.579 | 2.091 | 1.715 | 1.224 | 1.130 | 0.858 |
| 5.00 | 4.50 | 4.00 | 4.00 | 3.50 | 3.50 | 3.00 | 2.50 | 2.50 | 2.50 |
| 4.321 | 3.587 | 3.094 | 2.424 | 2.211 | 1.792 | 1.429 | 1.224 | 0.904 | 0.686 |
| 6.00 | 5.00 | 4.50 | 4.00 | 4.00 | 3.50 | 3.50 | 3.00 | 2.50 | 2.50 |
| 3.601 | 3.228 | 2.750 | 2.424 | 1.934 | 1.792 | 1.225 | 1.020 | 0.904 | 0.686 |
| 6.50 | 5.50 | 5.00 | 5.00 | 4.50 | 4.00 | 3.50 | 3.50 | 3.00 | 3.00 |
| 3.324 | 2.935 | 2.475 | 1.939 | 1.719 | 1.568 | 1.225 | 0.874 | 0.753 | 0.572 |
| 7.50 | 6.50 | 6.00 | 5.50 | 5.00 | 4.50 | 4.00 | 4.00 | 3.50 | 3.00 |
| 2.881 | 2.483 | 2.063 | 1.763 | 1.547 | 1.394 | 1.072 | 0.765 | 0.646 | 0.572 |
| 8.00 | 7.00 | 6.50 | 6.00 | 5.50 | 5.00 | 4.50 | 4.00 | 4.00 | 3.50 |
| 2.701 | 2.306 | 1.904 | 1.616 | 1.407 | 1.254 | 0.953 | 0.765 | 0.565 | 0.490 |
| 9.00 | 8.00 | 7.00 | 6.50 | 6.00 | 5.50 | 5.00 | 4.50 | 4.00 | 4.00 |
| 2.400 | 2.018 | 1.768 | 1.492 | 1.290 | 1.140 | 0.858 | 0.680 | 0.565 | 0.429 |
| 10.00 | 9.00 | 8.00 | 7.50 | 7.00 | 6.50 | 5.50 | 5.00 | 4.50 | 4.50 |
| 2.160 | 1.794 | 1.547 | 1.293 | 1.105 | 0.965 | 0.780 | 0.612 | 0.502 | 0.381 |
| 11.50 | 10.00 | 9.00 | 8.50 | 7.50 | 7.00 | 6.50 | 6.00 | 5.00 | 5.00 |
| 1.879 | 1.614 | 1.375 | 1.141 | 1.032 | 0.896 | 0.660 | 0.510 | 0.452 | 0.343 |
| 13.00 | 11.00 | 10.00 | 9.50 | 8.50 | 8.00 | 7.00 | 6.50 | 6.00 | 5.50 |
| 1.662 | 1.467 | 1.238 | 1.021 | 0.910 | 0.784 | 0.613 | 0.471 | 0.377 | 0.312 |
| 14.00 | 12.50 | 11.00 | 10.00 | 9.50 | 9.00 | 8.00 | 7.00 | 6.50 | 6.00 |
| 1.543 | 1.291 | 1.125 | 0.970 | 0.814 | 0.697 | 0.536 | 0.437 | 0.348 | 0.286 |
| 15.50 | 13.50 | 12.00 | 11.00 | 10.50 | 10.00 | 8.50 | 7.50 | 7.00 | 6.50 |
| 1.394 | 1.196 | 1.031 | 0.881 | 0.737 | 0.627 | 0.505 | 0.408 | 0.323 | 0.264 |

Continued to reverse side.

Tolerance JIS-2class, Unitmm
Total number of coil=Active coil+2

# Compression Spring ϕ1.20

| Cost Code | Outer Diameter / Free Length | 7.0 | 7.5 | 8.0 | 8.5 | 9.0 | 9.5 | 10.0 |
|---|---|---|---|---|---|---|---|---|
| 10 | 65.0 | 31.50<br>3.308 | 29.00<br>2.804 | 27.00<br>2.395 | 25.00<br>2.091 | 23.00<br>1.863 | 21.00<br>1.693 | 19.50<br>1.530 |
| 11 | 70.0 | | | | | | 23.00<br>1.546 | 21.00<br>1.421 |
| 11 | 75.0 | | | | | | | 23.00<br>1.297 |
| 12 | 80.0 | | | | | | | |
| 12 | 85.0 | | | | | | | |
| 13 | 90.0 | | | | | | | |
| 13 | 95.0 | | | | | | | |
| 14 | 100.0 | | | | | | | |

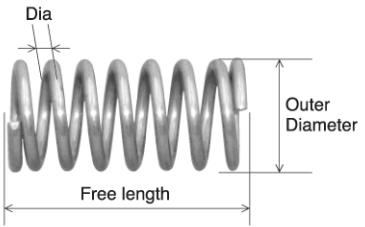
## Wire Dia : ϕ1.20……357 Description

The top:Active coil The lower:Spring constant(N/㎜) Outer Diameter and Free length:
Solid(Length)Hight ≒ Dia × (Active Coil+3) Max Deflection ≒ Free length − Solid Hight

## Dia:ϕ1.20, Material:SWPA, No grinding, Right

| 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 | 18.0 | 20.0 | 22.0 | 24.0 |
|---|---|---|---|---|---|---|---|---|---|
| 17.00 | 14.50 | 13.00 | 12.00 | 11.50 | 10.50 | 9.50 | 8.50 | 7.50 | 7.00 |
| 1.271 | 1.113 | 0.952 | 0.808 | 0.673 | 0.597 | 0.451 | 0.360 | 0.301 | 0.245 |
| 18.00 | 16.00 | 14.00 | 13.00 | 12.00 | 11.50 | 10.00 | 9.00 | 8.00 | 7.50 |
| 1.200 | 1.009 | 0.884 | 0.746 | 0.645 | 0.597 | 0.429 | 0.340 | 0.282 | 0.229 |
| 19.50 | 17.00 | 15.50 | 14.00 | 13.00 | 12.50 | 11.00 | 9.50 | 9.00 | 8.00 |
| 1.108 | 0.950 | 0.798 | 0.693 | 0.595 | 0.545 | 0.390 | 0.322 | 0.251 | 0.214 |
| 21.00 | 18.00 | 16.50 | 15.00 | 14.00 | 13.00 | 11.50 | 10.50 | 9.50 | 8.50 |
| 1.029 | 0.897 | 0.750 | 0.646 | 0.553 | 0.502 | 0.373 | 0.291 | 0.238 | 0.202 |
| 22.50 | 19.50 | 17.50 | 16.00 | 15.00 | 14.00 | 12.50 | 11.00 | 10.00 | 9.00 |
| 0.960 | 0.828 | 0.707 | 0.606 | 0.516 | 0.482 | 0.343 | 0.278 | 0.226 | 0.191 |
| | 20.50 | 18.50 | 17.00 | 16.00 | 15.00 | 13.00 | 11.50 | 10.50 | 9.50 |
| | 0.787 | 0.669 | 0.570 | 0.484 | 0.448 | 0.330 | 0.266 | 0.215 | 0.181 |
| | 21.50 | 19.50 | 18.00 | 17.00 | 16.00 | 14.00 | 12.50 | 11.00 | 10.00 |
| | 0.751 | 0.635 | 0.539 | 0.455 | 0.418 | 0.306 | 0.245 | 0.205 | 0.172 |
| | 23.00 | 20.50 | 19.00 | 18.00 | 16.50 | 14.50 | 13.00 | 12.00 | 11.00 |
| | 0.702 | 0.604 | 0.510 | 0.430 | 0.392 | 0.296 | 0.235 | 0.188 | 0.156 |

Tolerance JIS-2class, Unitmm
Total number of coil=Active coil+2




Wire Dia : ϕ1.20·····357 Description

# PRECAUTIONS

**Before using our products, please read carefully the following precautions.**

1. Use under high temperature environment would cause deterioration of spring.
   Select suitable steel type according to using temperature.
2. Use in the allowable stress range at maximum deflection.
   If load is applied repeatedly to spring, large stress amplitude would cause serious damage to the spring.
3. During using, please be careful not to give any damage to spring, because such damage would cause breakage of spring.

The content of catalogue is subject to change without any notice.
We are trying to provide better products. If you have any inquiry, please feel free to contact us.

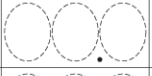
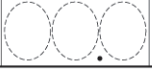
2006.10

# MEMO

# Fax Order Sheet

| Customer Information | | | |
|---|---|---|---|
| Address | | | |
| Company Name | | | |
| Section | | Person in Charge | |
| TEL | | E-mail | |
| FAX | | | |

**■Order A (C: Compression Coil Spring)**
**(S:SUS304 P:SWPA)**

| Type | Material | Wire diameter | Coil outside diameter | Free length | Quantity |
|---|---|---|---|---|---|
| C | S P |  |  |  | |
| C | S P |  |  |  | |
| C | S P |  |  |  | |
| C | S P |  |  |  | |
| C | S P |  |  |  | |
| C | S P |  |  |  | |

# FAX.0-3895-4427

Order Date: Date Month Year

Order No.

DAIDO SP(THAILAND)Co.,LTD
EASTERN SEABOARD INDUSTRIAL ESTATE
64/28, MOO 4, TAMBOL PLUAKDAENG
AMPHUR PLUAKDAENG, RAYONG 21140, THAILAND
TEL:0-3895-4426

- Please make payment by bank transfer.
- Please use printout of this sheet (A4 size).

- Delivery type (mail)
- Delivery Date Request: Date Month Year



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