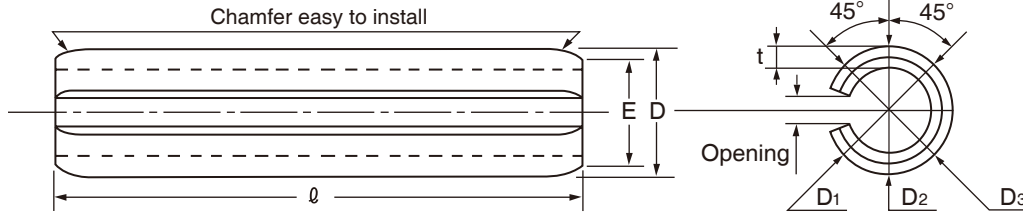


# Spring Pin (For General Purpose)



The clearance C must have dimensions that do not allow contact of the sides of the Pin as inserted into the applicable hole.



|   |              |              |              |              |              |
|---|--------------|--------------|--------------|--------------|--------------|
| l | 1-10         | 11-30        | 31-50        | 51-70        | 71 or over   |
| h | 0.2 or under | 0.3 or under | 0.4 or under | 0.5 or under | 0.6 or under |

Unit: mm

| Nominal dia.     |          | 1     | 1.2        | 1.5  | 1.6 | 2          | 2.5  | 3    | 3.5        | 4    | 4.5 | 5    | 6          | 8   | 10        | 12   | 13   |      |
|------------------|----------|-------|------------|------|-----|------------|------|------|------------|------|-----|------|------------|-----|-----------|------|------|------|
| Dimension        | D        | Max.  | 1.2        | 1.4  | 1.7 | 1.8        | 2.25 | 2.75 | 3.25       | 3.84 | 4.4 | 4.84 | 5.4        | 6.4 | 8.6       | 10.6 | 12.5 | 13.7 |
|                  |          | Min.  | 1.1        | 1.3  | 1.6 | 1.7        | 2.15 | 2.65 | 3.15       | 3.7  | 4.2 | 4.7  | 5.2        | 6.2 | 8.3       | 10.3 | 12.3 | 13.4 |
| Dimension        | t        | Basic | 0.2        | 0.25 | 0.3 | 0.3        | 0.4  | 0.5  | 0.6        | 0.7  | 0.8 | 0.9  | 1          | 1.2 | 1.6       | 2    | 2    | 2.5  |
|                  | E        | Max.  | 0.9        | 1.1  | 1.4 | 1.5        | 1.9  | 2.4  | 2.9        | 3.4  | 3.9 | 4.3  | 4.8        | 5.8 | 7.8       | 9.8  | 11.7 | 12.7 |
| Groove dimension | Diameter |       | 1          | 1.2  | 1.5 | 1.6        | 2    | 2.5  | 3          | 3.5  | 4   | 4.5  | 5          | 6   | 8         | 10   | 12   | 13   |
|                  | Tol.     |       | +0.08<br>0 |      |     | +0.09<br>0 |      |      | +0.12<br>0 |      |     |      | +0.15<br>0 |     | +0.2<br>0 |      |      |      |

| Length (l) |           | Nominal dia. |     |     |     |   |     |   |     |   |     |   |   |   |    |    |    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------------|-----------|--------------|-----|-----|-----|---|-----|---|-----|---|-----|---|---|---|----|----|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Basic      | Tol.      | 1            | 1.2 | 1.5 | 1.6 | 2 | 2.5 | 3 | 3.5 | 4 | 4.5 | 5 | 6 | 8 | 10 | 12 | 13 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 4          | +0.5<br>0 | ○            | ○   | ○   | ○   | ○ | ○   |   |     |   |     |   |   |   |    |    |    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 5          |           | ○            | ○   | ○   | ○   | ○ | ○   | ○ |     | ○ |     |   |   |   |    |    |    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 6          |           | ○            | ○   | ○   | ○   | ○ | ○   | ○ | ○   | ○ |     |   |   |   |    |    |    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 8          |           | ○            | ○   | ○   | ○   | ○ | ○   | ○ | ○   | ○ | ○   | ○ | ○ |   |    |    |    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 10         | +1<br>0   | ○            | ○   | ○   | ○   | ○ | ○   | ○ | ○   | ○ | ○   | ○ | ○ | ○ |    |    |    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 12         |           | ○            | ○   | ○   | ○   | ○ | ○   | ○ | ○   | ○ | ○   | ○ | ○ | ○ | ○  |    |    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 14         |           |              | ○   | ○   | ○   | ○ | ○   | ○ | ○   | ○ | ○   | ○ | ○ | ○ | ○  |    |    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 15         |           |              |     | ○   | ○   | ○ | ○   | ○ | ○   | ○ | ○   | ○ | ○ | ○ | ○  |    |    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 16         |           |              |     |     | ○   | ○ | ○   | ○ | ○   | ○ | ○   | ○ | ○ | ○ | ○  | ○  |    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 18         |           |              |     |     |     | ○ | ○   | ○ | ○   | ○ | ○   | ○ | ○ | ○ | ○  | ○  |    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 20         |           |              |     |     |     |   | ○   | ○ | ○   | ○ | ○   | ○ | ○ | ○ | ○  | ○  | ○  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 22         |           |              |     |     |     |   |     | ○ | ○   | ○ | ○   | ○ | ○ | ○ | ○  | ○  | ○  | ○ |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 24         |           |              |     |     |     |   |     |   | ○   | ○ | ○   | ○ | ○ | ○ | ○  | ○  | ○  | ○ |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 25         |           |              |     |     |     |   |     |   |     | ○ | ○   | ○ | ○ | ○ | ○  | ○  | ○  | ○ |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 26         | +1<br>0   |              |     |     |     |   |     |   |     | ○ | ○   | ○ | ○ | ○ | ○  | ○  | ○  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 28         |           |              |     |     |     |   |     |   |     |   | ○   | ○ | ○ | ○ | ○  | ○  | ○  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 30         |           |              |     |     |     |   |     |   |     |   |     | ○ | ○ | ○ | ○  | ○  | ○  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 32         |           |              |     |     |     |   |     |   |     |   |     |   | ○ | ○ | ○  | ○  | ○  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 35         |           |              |     |     |     |   |     |   |     |   |     |   |   | ○ | ○  | ○  | ○  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 36         |           |              |     |     |     |   |     |   |     |   |     |   |   |   | ○  | ○  | ○  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 38         |           |              |     |     |     |   |     |   |     |   |     |   |   |   |    | ○  | ○  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 40         |           |              |     |     |     |   |     |   |     |   |     |   |   |   |    |    | ○  | ○ |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 45         |           |              |     |     |     |   |     |   |     |   |     |   |   |   |    |    |    | ○ |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 50         |           |              |     |     |     |   |     |   |     |   |     |   |   |   |    |    |    |   | ○ |   |   |   |   |   |   |   |   |   |   |   |   |
| 55         | +1.5<br>0 |              |     |     |     |   |     |   |     |   |     |   |   |   |    |    |    |   | ○ |   |   |   |   |   |   |   |   |   |   |   |   |
| 56         |           |              |     |     |     |   |     |   |     |   |     |   |   |   |    |    |    |   |   | ○ |   |   |   |   |   |   |   |   |   |   |   |
| 60         |           |              |     |     |     |   |     |   |     |   |     |   |   |   |    |    |    |   |   |   | ○ |   |   |   |   |   |   |   |   |   |   |
| 63         |           |              |     |     |     |   |     |   |     |   |     |   |   |   |    |    |    |   |   |   |   | ○ |   |   |   |   |   |   |   |   |   |
| 65         |           |              |     |     |     |   |     |   |     |   |     |   |   |   |    |    |    |   |   |   |   |   | ○ |   |   |   |   |   |   |   |   |
| 70         |           |              |     |     |     |   |     |   |     |   |     |   |   |   |    |    |    |   |   |   |   |   |   | ○ |   |   |   |   |   |   |   |
| 75         |           |              |     |     |     |   |     |   |     |   |     |   |   |   |    |    |    |   |   |   |   |   |   |   | ○ |   |   |   |   |   |   |
| 80         |           |              |     |     |     |   |     |   |     |   |     |   |   |   |    |    |    |   |   |   |   |   |   |   |   | ○ |   |   |   |   |   |
| 85         |           |              |     |     |     |   |     |   |     |   |     |   |   |   |    |    |    |   |   |   |   |   |   |   |   |   | ○ |   |   |   |   |
| 90         |           |              |     |     |     |   |     |   |     |   |     |   |   |   |    |    |    |   |   |   |   |   |   |   |   |   |   | ○ |   |   |   |
| 95         |           |              |     |     |     |   |     |   |     |   |     |   |   |   |    |    |    |   |   |   |   |   |   |   |   |   |   | ○ |   |   |   |
| 100        |           |              |     |     |     |   |     |   |     |   |     |   |   |   |    |    |    |   |   |   |   |   |   |   |   |   |   | ○ |   |   |   |
| 110        |           |              |     |     |     |   |     |   |     |   |     |   |   |   |    |    |    |   |   |   |   |   |   |   |   |   |   |   | ○ |   |   |
| 120        |           |              |     |     |     |   |     |   |     |   |     |   |   |   |    |    |    |   |   |   |   |   |   |   |   |   |   |   |   | ○ |   |
| 130        |           |              |     |     |     |   |     |   |     |   |     |   |   |   |    |    |    |   |   |   |   |   |   |   |   |   |   |   |   | ○ |   |
| 140        |           |              |     |     |     |   |     |   |     |   |     |   |   |   |    |    |    |   |   |   |   |   |   |   |   |   |   |   |   |   | ○ |

Material = Carbon spring steel Finish = Phosphate coating (ACP) Hardness = 40 through 50HRC (40 through 50HRC only for Nominal dia. 13mm)  
 Material = Stainless steel for spring (SUS304-CS) Finish = N/A

## Notes

1. Max. D shall be the maximum value on the circumference of the pin. Min. D shall be the average of the D1, D2, and D3 diameter values.
2. Contact us for products having lengths other than the ○ marked dimensions.
3. ○ marks stand for the dimensions of products of carbon spring steel. The dimensions of products of stainless steel may not be manufactured. Contact us.
4. Our products with little marketability may not be in stock. When employing our products, consult with us for their availability.

RETAINING RINGS | PUSH NUTS | WAVE WASHERS AND OTHERS | SCREW TYPE PLATE NUTS | SPRING PINS | SNAP PINS | JOINT CLIPS | ASSEMBLY TOOLS