



PSP Light Load PSP-S Heavy Load PSP-Z Super Heavy Load

| Part Number | M (Coarse)        |       | s   | L  | L1 | D   | a   | B   | Applicable Ball Button<br>BB | Applicable Wrench*1<br>PPW | Load (N)<br>Min./Max. | Mass (g) | Anti-Loosening |
|-------------|-------------------|-------|-----|----|----|-----|-----|-----|------------------------------|----------------------------|-----------------------|----------|----------------|
|             | Nominal of Thread | Pitch |     |    |    |     |     |     |                              |                            |                       |          |                |
| PSP-3-1.5   | M3                | 0.5   | 1.5 | 10 |    | 1.1 | 0.5 | 0.9 | BB-4                         |                            | 0.49 / 1              | 0.3      | No             |
| PSP-3-3     | M3                | 0.5   | 3   | 15 |    | 1.1 | 0.5 | 0.9 | BB-4                         |                            | 0.29 / 1              | 0.6      | No             |
| PSP-4-2     | M4                | 0.7   | 2   | 15 |    | 1.6 | 0.7 | 1.3 | BB-4                         |                            | 1 / 2                 | 0.7      | No             |
| PSP-4-4     | M4                | 0.7   | 4   | 24 |    | 1.6 | 0.7 | 1.3 | BB-4                         |                            | 0.59 / 2              | 1.6      | No             |
| PSP-5B-3    | M5                | 0.8   | 3   | 13 |    | 2   | 1.2 | 1.5 | BB-5                         | PPW-5                      | 1 / 7.8               | 1.2      | Yes            |
| PSP-5-3     | M5                | 0.8   | 3   | 20 |    | 2   | 1.2 | 1.5 | BB-5                         | PPW-5                      | 2 / 9.8               | 2        | Yes            |
| PSP-5-5     | M5                | 0.8   | 5   | 27 |    | 2   | 1.2 | 1.5 | BB-5                         | PPW-5                      | 2 / 9.8               | 3        | Yes            |
| PSP-6-3     | M6                | 1     | 3   | 25 |    | 2.5 | 1.6 | 2   | BB-6                         | PPW-6                      | 2.9 / 9.8             | 3        | Yes            |
| PSP-6-5     | M6                | 1     | 5   | 30 |    | 2.5 | 1.6 | 2   | BB-6                         | PPW-6                      | 2 / 9.8               | 4        | Yes            |
| PSP-8-3     | M8                | 1.25  | 3   | 25 |    | 3.1 | 2.2 | 2.5 | BB-8                         | PPW-8                      | 5.9 / 9.8             | 6        | Yes            |
| PSP-8-4     | M8                | 1.25  | 4   | 25 |    | 3.1 | 2.2 | 2.5 | BB-8                         | PPW-8                      | 2.9 / 9.8             | 6        | Yes            |
| PSP-8-5     | M8                | 1.25  | 5   | 27 |    | 3.1 | 2.2 | 2.5 | BB-8                         | PPW-8                      | 2 / 9.8               | 9        | Yes            |
| PSP-10-5    | M10               | 1.5   | 5   | 30 |    | 3.8 | 2.2 | 3   | BB-8                         | PPW-10                     | 2.9 / 15              | 11       | Yes            |
| PSP-12-5    | M12               | 1.75  | 5   | 30 |    | 5.5 | 2.5 | 4   | BB-10                        | PPW-12                     | 2 / 9.8               | 15       | Yes            |
| PSP-3-1.5-S | M3                | 0.5   | 1.5 | 10 |    | 1.1 | 0.5 | 0.9 | BB-4                         |                            | 0.49 / 2.9            | 0.3      | No             |
| PSP-3-3-S   | M3                | 0.5   | 3   | 15 |    | 1.1 | 0.5 | 0.9 | BB-4                         |                            | 0.78 / 2.9            | 0.6      | No             |
| PSP-4B-2-S  | M4                | 0.7   | 2   | 12 |    | 1.6 | 0.7 | 1.3 | BB-4                         |                            | 2 / 9.8               | 0.7      | No             |
| PSP-4-2-S   | M4                | 0.7   | 2   | 15 |    | 1.6 | 0.7 | 1.3 | BB-4                         |                            | 2.9 / 8.8             | 0.7      | No             |
| PSP-4-4-S   | M4                | 0.7   | 4   | 24 |    | 1.6 | 0.7 | 1.3 | BB-4                         |                            | 2 / 8.8               | 1.6      | No             |
| PSP-5-3-S   | M5                | 0.8   | 3   | 20 |    | 2   | 1.2 | 1.5 | BB-5                         | PPW-5                      | 3.9 / 20              | 2        | Yes            |
| PSP-5-5-S   | M5                | 0.8   | 5   | 27 |    | 2   | 1.2 | 1.5 | BB-5                         | PPW-5                      | 2.9 / 19.6            | 3        | Yes            |
| PSP-6-3-S   | M6                | 1     | 3   | 25 |    | 2.5 | 1.6 | 2   | BB-6                         | PPW-6                      | 7.8 / 25              | 3        | Yes            |
| PSP-6-5-S   | M6                | 1     | 5   | 30 |    | 2.5 | 1.6 | 2   | BB-6                         | PPW-6                      | 4.9 / 29.4            | 4        | Yes            |
| PSP-8-3-S   | M8                | 1.25  | 3   | 25 |    | 3.1 | 2.2 | 2.5 | BB-8                         | PPW-8                      | 14.7 / 29.4           | 6        | Yes            |
| PSP-8-4-S   | M8                | 1.25  | 4   | 25 |    | 3.1 | 2.2 | 2.5 | BB-8                         | PPW-8                      | 7.8 / 29              | 6        | Yes            |
| PSP-8-5-S   | M8                | 1.25  | 5   | 27 |    | 3.1 | 2.2 | 2.5 | BB-8                         | PPW-8                      | 7.8 / 29.4            | 9        | Yes            |
| PSP-10-5-S  | M10               | 1.5   | 5   | 30 |    | 3.8 | 2.2 | 3   | BB-8                         | PPW-10                     | 9.8 / 49              | 11       | Yes            |
| PSP-12-5-S  | M12               | 1.75  | 5   | 30 |    | 5.5 | 2.5 | 4   | BB-10                        | PPW-12                     | 9.8 / 49              | 15       | Yes            |
| PSP-8-3-Z   | M8                | 1.25  | 3   | 27 | 27 | 3.1 | 2.2 | 2.5 | BB-8                         | PPW-8                      | 35.3 / 41.2           | 7        | Yes            |
| PSP-8-5-Z   | M8                | 1.25  | 5   | 35 | 30 | 3.1 | 2.2 | 2.5 | BB-8                         | PPW-8                      | 14.7 / 41.2           | 10       | Yes            |
| PSP-10-5-Z  | M10               | 1.5   | 5   | 35 | 30 | 3.8 | 2.2 | 3   | BB-8                         | PPW-10                     | 15.7 / 62.8           | 11       | Yes            |
| PSP-12-5-Z  | M12               | 1.75  | 5   | 43 | 35 | 5.5 | 2.5 | 4   | BB-10                        | PPW-12                     | 37.2 / 98.1           | 21       | Yes            |

\*1: Use a slotted screwdriver with PSP-3 PSP-4B PSP-4.

|                                     |                                    |                        |
|-------------------------------------|------------------------------------|------------------------|
| Cleanroom Wash & Packaging → P.xxxx | Vibration Resistant → P.xxxx       | Laser Marking → P.xxxx |
| Please feel free to contact us      | with Vibration Resistant Treatment | Not Available          |

- Coated with a sealed microcapsule containing loosening-prevention agent (excluding M3/M4).
- PSP-N has a plastic pin. Workpiece damage can be avoided.
- We also produce products of special specifications, e.g. dimensions, load and materials. → P.xxxx
- Pin materials and load types can be selected by a product code.

| Product Code | Pin Material | Load Type        |
|--------------|--------------|------------------|
| PSP          | Steel        | Light Load       |
| PSP-N        | Plastic      | Light Load       |
| PSP-S        | Steel        | Heavy Load       |
| PSP-Z        | Steel        | Super Heavy Load |

Material/Finish

|                      | PSP   | PSP-N  | PSP-S   | PSP-Z   |
|----------------------|---|--|---|---|
| Main Body            | Equivalent to SCM435<br>Ferroferric Oxide Film (Black)          | Equivalent to SCM435<br>Ferroferric Oxide Film (Black) | Equivalent to SCM435<br>Ferroferric Oxide Film (Black)          | Equivalent to SCM435<br>Nickel Plating                          |
| Hex Socket Set Screw | Steel<br>Ferroferric Oxide Film (Black)                         | Steel<br>Ferroferric Oxide Film (Black)                | Steel<br>Ferroferric Oxide Film (Black)                         | Steel<br>Ferroferric Oxide Film (Black)                         |
| Pin                  | Steel (Hardness: 57 - 63 HRC)<br>Trivalent Chromate Treatment*1 | Polyacetal (White)                                     | Steel (Hardness: 57 - 63 HRC)<br>Ferroferric Oxide Film (Black) | Steel (Hardness: 57 - 63 HRC)<br>Ferroferric Oxide Film (Black) |
| Spring               | SWPB  | SWPB   | SWPB  | SWPB  |
| Anti-Loosening       | Epoxy Resin Microcapsule  | Epoxy Resin Microcapsule                               | Epoxy Resin Microcapsule  | Epoxy Resin Microcapsule  |

\*1: PSP-3 PSP-4 PSP-5 pin surface treatment has electroless nickel plating.

PSP-N Light Load

| Part Number | M (Coarse)        |       | s | L  | D   | a   | B   | Applicable Ball Button<br>BB | Applicable Wrench<br>PPW | Load (N)<br>Min./Max. | Mass (g) | Anti-Loosening |
|-------------|-------------------|-------|---|----|-----|-----|-----|------------------------------|--------------------------|-----------------------|----------|----------------|
|             | Nominal of Thread | Pitch |   |    |     |     |     |                              |                          |                       |          |                |
| PSP-5-3-N   | M5                | 0.8   | 3 | 20 | 2   | 1.2 | 1.5 | BB-5                         | PPW-5                    | 2 / 9.8               | 2        | Yes            |
| PSP-5-5-N   | M5                | 0.8   | 5 | 27 | 2   | 1.2 | 1.5 | BB-5                         | PPW-5                    | 2 / 9.8               | 3        | Yes            |
| PSP-6-3-N   | M6                | 1     | 3 | 25 | 2.5 | 1.6 | 2   | BB-6                         | PPW-6                    | 5.9 / 9.8             | 3        | Yes            |
| PSP-6-5-N   | M6                | 1     | 5 | 30 | 2.5 | 1.6 | 2   | BB-6                         | PPW-6                    | 2 / 9.8               | 4        | Yes            |
| PSP-8-3-N   | M8                | 1.25  | 3 | 25 | 3.1 | 2.2 | 2.5 | BB-8                         | PPW-8                    | 5.9 / 9.8             | 6        | Yes            |
| PSP-8-5-N   | M8                | 1.25  | 5 | 27 | 3.1 | 2.2 | 2.5 | BB-8                         | PPW-8                    | 2.9 / 9.8             | 9        | Yes            |
| PSP-10-5-N  | M10               | 1.5   | 5 | 30 | 3.8 | 2.2 | 3   | BB-8                         | PPW-10                   | 5.9 / 14.7            | 11       | Yes            |
| PSP-12-5-N  | M12               | 1.75  | 5 | 30 | 5.5 | 2.5 | 4   | BB-10                        | PPW-12                   | 5.9 / 14.7            | 15       | Yes            |

Precautions for Use

Install and remove from the pin side by using the plunger wrench PPW.  
If a hex socket is used, the hex socket set screw attached to the main body may detach.

Related Products

A dedicated plunger wrench PPW for mounting or removal from the pin side is available.



Part number specification

PSP-5-5-S