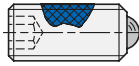
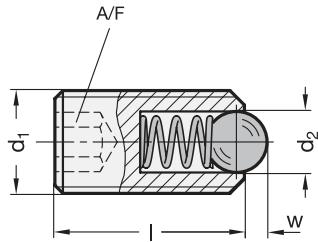


GN 615.3

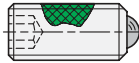
Steel / Stainless Steel

Ball Plungers

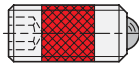
with Internal Hex, with or without Thread Locking



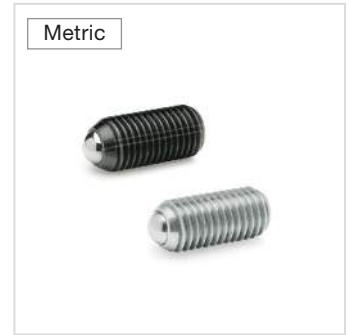
Thread locking **PFB**
Polyamide patch blue
for type **K** and **KN**



Thread locking **PFB**
Polyamide patch green
for type **KS** and **KSN**



Thread locking **MVK**
Micro encapsulation (Precote 80)
for all types



SS Stainless Steel

2 Type

- K** Steel, standard spring load
- KS** Steel, high spring load
- KN** Stainless steel, standard spring load
- KSN** Stainless steel, high spring load

Specification



- Type K / KS
 - Housing
Steel, blackened finish
 - Ball
Steel, hardened
- Type KN / KSN
 - Housing
Stainless steel AISI 303
 - Ball
Stainless steel AISI 420C
Hardened

- Spring
Stainless steel AISI 631

- Identification of Type KS / KSN:
Housing with 2 longitudinal markings



- Thread lockings (optional)
 - Polyamide patch **PFB**
 - Type K / KS M3 - M16
 - Type K* / KS* M20, M24
 - Type KN / KSN M3 - M16
 - Type KN* / KSN* M20, M24
 - Micro encapsulation precote* **MVK**

• *Stainless Steel Characteristics* → page 2143

• *RoHS compliant*

Information

GN 615.3 ball plungers are used as locating devices, detent pins, pressure pins and ejectors. A typical example is push-on / push-off applications.

Ball plungers mounted in various control levers are also perfect solutions for snap-indexing mechanism applications.

The hex socket end makes these plungers slightly longer than the GN 615 ball plunger with slot. In all other aspects they are identical.

The **PFB** (Polyamide) patch types are a thread jamming material which also provides some antivibration properties to hold the ball plungers in place. The coating for type K or KN (standard spring load) is indicated in blue, for type KS or KSN (high spring load) in green. For this type of thread locking, a relatively high torque is required. Therefore, this version with internal hex is more preferable than the version with a slot (GN 615).

MVK (Micro encapsulation precote) is a type of a thread locking glue (indicated in red) that surrounds the circumference of the threaded body as shown.

see also...

- *More Information on Thread Lockings* → page 2150

| | | |
|--|---|----------------|
| How to order (Without thread locking) 1 2 GN 615.3-M8-K | 1 | Thread d_1 |
| | 2 | Type |
| How to order (With thread locking) 1 2 3 GN 615.3-M6-KN-PFB | 1 | Thread d_1 |
| | 2 | Type |
| | 3 | Thread locking |

Metric table



Dimensions in: millimeters - inches

| d ₁ | | d ₂ | Length l ±0.1 | w | A/F | Spring load ≈ (Type K / KN) | | Spring load ≈ (Type KS / KSN) | |
|----------------|---------------|--------------------|-------------------|--------------------|-----|-----------------------------|---------------------------|-------------------------------|---------------------------|
| Type K / KN | Type KS / KSN | | | | | Initial | End | Initial | End |
| M 3 | - | 1.5 <i>0.06</i> | 8 <i>0.31</i> | 0.4 <i>0.02</i> | 1.5 | 3 N <i>0.67 lbf</i> | 4.5 N <i>1.01 lbf</i> | - | - |
| M 4 | M 4 | 2.5 <i>0.10</i> | 12 <i>0.47</i> | 0.8 <i>0.03</i> | 2 | 8.5 N <i>1.91 lbf</i> | 14 N <i>3.15 lbf</i> | 12 N <i>2.70 lbf</i> | 18 N <i>4.05 lbf</i> |
| M 5 | M 5 | 3 <i>0.12</i> | 14 <i>0.55</i> | 0.9 <i>0.04</i> | 2.5 | 8 N <i>1.80 lbf</i> | 14 N <i>3.15 lbf</i> | 15 N <i>3.37 lbf</i> | 22 N <i>4.95 lbf</i> |
| M 6 | M 6 | 3.5 <i>0.14</i> | 15 <i>0.59</i> | 1 <i>0.04</i> | 3 | 11 N <i>2.47 lbf</i> | 18 N <i>4.05 lbf</i> | 19 N <i>4.27 lbf</i> | 28 N <i>6.29 lbf</i> |
| M 8 | M 8 | 4.5 <i>0.18</i> | 18 <i>0.71</i> | 1.5 <i>0.06</i> | 4 | 18 N <i>4.05 lbf</i> | 31 N <i>6.97 lbf</i> | 36 N <i>8.09 lbf</i> | 62 N <i>13.94 lbf</i> |
| M 10 | M 10 | 6 <i>0.24</i> | 23 <i>0.91</i> | 2 <i>0.08</i> | 5 | 24 N <i>5.40 lbf</i> | 45 N <i>10.12 lbf</i> | 57 N <i>12.81 lbf</i> | 104 N <i>23.38 lbf</i> |
| M 12 | M 12 | 8 <i>0.31</i> | 26 <i>1.02</i> | 2.5 <i>0.10</i> | 6 | 26 N <i>5.85 lbf</i> | 49 N <i>11.02 lbf</i> | 61 N <i>13.71 lbf</i> | 110 N <i>24.73 lbf</i> |
| M 16 | M 16 | 10 <i>0.39</i> | 33 <i>1.30</i> | 3.5 <i>0.14</i> | 8 | 41 N <i>9.22 lbf</i> | 86 N <i>19.33 lbf</i> | 68 N <i>15.29 lbf</i> | 142 N <i>31.92 lbf</i> |
| M 20 | M 20 | 12 <i>0.47</i> | 43 <i>1.69</i> | 4.5 <i>0.18</i> | 10 | 56 N <i>12.59 lbf</i> | 111 N <i>24.95 lbf</i> | 84 N <i>18.88 lbf</i> | 166 N <i>37.32 lbf</i> |
| M 24 | M 24 | 15 <i>0.59</i> | 48 <i>1.89</i> | 5.5 <i>0.22</i> | 12 | 81 N <i>18.21 lbf</i> | 151 N <i>33.95 lbf</i> | 127 N <i>28.55 lbf</i> | 237 N <i>53.28 lbf</i> |

* Not available from stock, requires a minimum order quantity

3.1
3.2
3.3
3.4
3.5
3.6
3.7
3.8
3.9
3.10

