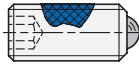
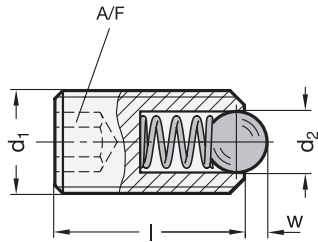


GN 615.3

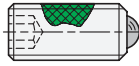
Steel / Stainless Steel

Ball Plungers

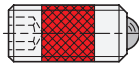
with Internal Hex, with or without Thread Locking



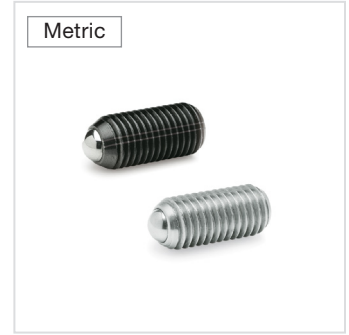
Thread locking **PFB**
Polyamide patch blue
for type **K** and **KN**



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

d₁ Type K / KN		d₂	Length l ±0.1	w Compression	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

