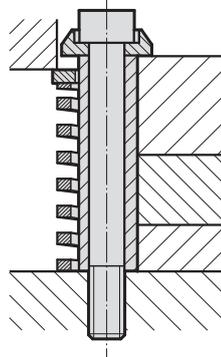


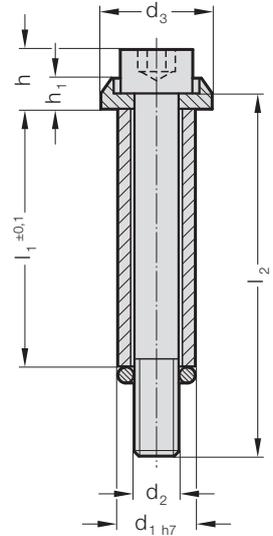
SPRING AND SPACER UNIT



Mounting example



244.16.



Description:

These units can be used as an alternative to shoulder screws.

Advantages:

Precision length adjustments by way of grinding. The units have many uses – as can be seen from the installation examples below.

Material:

Spacer tube: Steel, hardened
 Socket cap screw DIN EN ISO 4762 (12.9)

Execution:

Outside diameter ground
 Tolerance: h_7

Note:

The units are supplied with a retaining O-ring **wich must be removed before application.**

244.16. Spring and spacer unit

| | | | | | |
|------------------------|-------|-------|---------|-------------|-----------------|
| d_1 | 10 | 12.5 | 15 | 17.5 | 23 |
| d_2 | M6 | M8 | M10 | M12 | M16 |
| Tightening torque [Nm] | 13 | 32 | 65 | 120 | 290 |
| d_3 | 15 | 19 | 23 | 27 | 34 |
| h | 10 | 13 | 15 | 18 | 24 |
| h_1 | 5.5 | 6.5 | 7.5 | 9 | 11 |
| l_1 | l_2 | | | | |
| 11 | | 25 | | | |
| 20 | 35 | 35 | | | |
| 25 | 40 | | | | |
| 30 | 45 | 45 | 50 | 50 | |
| 35 | 50 | 50 | 55 | | |
| 40 | 55 | 55 | 60 | 60 | |
| 45 | 60 | 60 | 65 | 65 | |
| 50 | 65 | 65 | 70 | 70 | 80 |
| 55 | 70 | 70 80 | 75 | 80 | |
| 60 | 80 | 80 | 80 90 | 90 | 90 |
| 70 | 90 | 90 | 90 100 | 100 | 100 110 |
| 80 | 100 | 100 | 100 110 | 110 115 120 | 110 120 125 130 |
| 90 | 110 | 110 | 110 | 120 | 120 |
| 100 | 120 | 120 | 120 | 130 135 140 | 130 140 145 |
| 110 | | | | 140 | 140 150 |
| 120 | | | 140 | 150 | 150 160 |
| 140 | | | | 180 | 180 |
| 150 | | | | | 180 |
| 160 | | | | | 200 |

Ordering Code (example):

| | |
|------------------------|-----------------------|
| Spring and spacer unit | =244.16. |
| Nominal diameter d_1 | 15 mm = 150. |
| Length l_1 | 100 mm = 100. |
| Screw length l_2 | 120 mm = 120 |
| Order No | =244.16. 150.100. 120 |