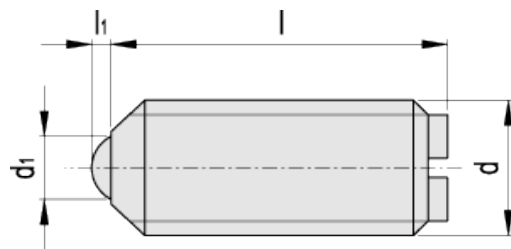


# EN 615

## Threaded ball spring plungers



INCH



american unit  
metric unit

Elesa Standards			Main dimensions				Spring pressure		Weight
With locking patch	Without locking patch	Description	d	l	d <sub>1</sub>	l <sub>1</sub>	Preload [lbf] [N]	Max. load [lbf] [N]	lbs g
Code	Code								
EN.933100	EN.933099	EN 615-4-48-K*	4-48 -	0.187 4.76	0.06 1.6	0.02 0.5	0.1 0.44	0.5 2.23	0.002 1
EN.933102	EN.933101	EN 615-5-40-K*	5-40 -	0.252 6.4	0.06 1.6	0.02 0.5	0.3 1.3	0.8 3.6	0.002 1
EN.933104	EN.933103	EN 615-6-32-K*	6-32 -	0.311 7.9	0.08 2	0.02 0.6	0.5 2.2	1 4.5	0.002 1
EN.933106	EN.933105	EN 615-6-40-K*	6-40 -	0.311 7.9	0.08 2	0.02 0.6	0.5 2.2	1 4.5	0.002 1
EN.933108	EN.933107	EN 615-8-32-K*	8-32 -	0.343 8.7	0.09 2.4	0.02 0.6	0.8 3.6	1.3 5.8	0.002 1
EN.933110	EN.933109	EN 615-8-36-K*	8-36 -	0.343 8.7	0.09 2.4	0.02 0.6	0.8 3.6	1.3 5.8	0.002 1
EN.933112	EN.933111	EN 615-10-32-L*	10-32 -	0.516 13.1	0.09 2.4	0.02 0.6	0.9 4	1.5 6.7	0.002 1
EN.933114	EN.933113	EN 615-10-32-K*	10-32 -	0.52 13.1	0.09 2.4	0.02 0.6	2 9	3.1 14	0.002 1
EN.933116	EN.933115	EN 615-10-32-KS*	10-32 -	0.52 13.1	0.09 2.4	0.02 0.6	3.3 14.7	4.8 21.4	0.002 1
EN.933122	EN.933121	EN 615-1/4-20-L*	1/4-20 -	0.53 13.5	0.13 3.2	0.04 0.9	2.1 9.4	4 17.8	0.004 2
EN.933124	EN.933123	EN 615-1/4-20-K*	1/4-20 -	0.53 13.5	0.13 3.2	0.04 0.9	3.8 16.9	6.8 30.35	0.004 2

Elesa Standards			Main dimensions				Spring pressure		Weight
With locking patch	Without locking patch								
Code		Description	d	l	d <sub>1</sub>	l <sub>1</sub>	Preload [lbf] [N]	Max. load [lbf] [N]	lbs g
EN.933126	EN.933125	EN 615-1/4-20-KS*	1/4-20 -	0.53 13.5	0.13 3.2	0.04 0.9	5.6 25	8.6 38.4	0.004 2
EN.933142	EN.933141	EN 615-5/16-18-L*	5/16-18 -	0.58 14.7	0.16 4	0.04 1	2 8.9	4.6 20.5	0.009 4
EN.933144	EN.933143	EN 615-5/16-18-K*	5/16-18 -	0.58 14.7	0.16 4	0.04 1	4 17.8	8.4 37.5	0.009 4
EN.933146	EN.933145	EN 615-5/16-18-KS*	5/16-18 -	0.58 14.7	0.16 4	0.04 1	6 26.7	11.1 49.5	0.009 4
EN.933152	EN.933151	EN 615-3/8-16-L*	3/8-16 -	0.63 15.9	0.19 4.8	0.05 1.2	2.5 11.1	5 22.3	0.011 5
EN.933154	EN.933153	EN 615-3/8-16-K*	3/8-16 -	0.63 15.9	0.19 4.8	0.05 1.2	5 22.3	10.3 45.9	0.011 5
EN.933156	EN.933155	EN 615-3/8-16-KS*	3/8-16 -	0.63 15.9	0.19 4.8	0.05 1.2	7.5 33.5	15.1 67.4	0.011 5
EN.933162	EN.933161	EN 615-1/2-13-L*	1/2-13 -	0.75 19.1	0.28 7.1	0.07 1.8	3 13.4	6 26.8	0.026 12
EN.933164	EN.933163	EN 615-1/2-13-K*	1/2-13 -	0.75 19.1	0.28 7.1	0.07 1.8	6 26.7	12 53.6	0.026 12
EN.933166	EN.933165	EN 615-1/2-13-KS*	1/2-13 -	0.75 19.1	0.28 7.1	0.07 1.8	6 26.7	24 107.1	0.026 12
EN.933172	EN.933171	EN 615-5/8-11-L*	5/8-11 -	0.984 25	0.37 9.5	0.09 2.4	4.5 20	9 40.2	0.055 25
EN.933174	EN.933173	EN 615-5/8-11-K*	5/8-11 -	0.984 25	0.37 9.5	0.09 2.4	9 40.1	18 80.3	0.055 25
EN.933176	EN.933175	EN 615-5/8-11-KS*	5/8-11 -	0.984 25	0.37 9.5	0.09 2.4	7 31.2	40 178.6	0.055 25

\*Complete the description of the standard item needed by adding /LE for plungers with nylon locking patch.

#### Threaded body

Black-oxide steel, screwdriver slotted head.

#### Standard executions

Hardened stainless steel ball and stainless steel spring.

- EN 615-L: light end force (marked with one line).
- EN 615-K: normal end force.
- EN 615-KS: heavy end force (marked with two lines).
- EN 615-L/LE: light end force with locking patch (marked with one line).
- EN 615-K/LE: normal end force with locking patch.
- EN 615-KS/LE: heavy end force with locking patch (marked with two lines).

Nylon locking patch for applications subject to vibrations or to eliminate the need for check nuts. Not recommended for applications in soft materials.

Countersink the mating thread at least .030 to .045 larger than the major diameter of the plunger to make insertion of the plunger easier.



STANDARD MACHINE ELEMENTS WORLDWIDE