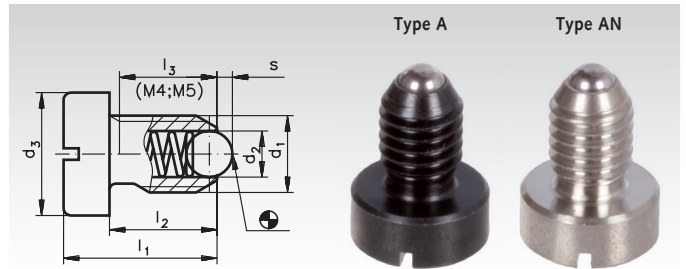


Spring Plungers with Ball and Head, Steel or Stainless Steel

Material: **Type A:** Body: Steel, black oxide finish.
Ball: Ball bearing steel, hardened.
Spring: Stainless steel.

Type AN: Body: Stainless steel.
Ball: Stainless steel.
Spring: Stainless steel.



Used for fixation and to press something in or push it out.
Temperature: max. +250°C.

Ordering Details: e.g.: Product No. 654 634 00, Spring Plunger M4

Product No. Type A	Product No. Type AN	d ₁ mm	d ₂ mm	d ₃ mm	l ₁ mm	l ₂ mm	l ₃ mm	S mm	Spring Tension* Initial N	End N	Weight g
654 634 00	654 996 34	M4	2,5	6	9,5	6,5	5,0	0,8	8	14	1,0
654 635 00	654 996 35	M5	3,0	8	12,5	8,5	6,7	0,9	8	14	2,0
654 636 00	654 996 36	M6	3,5	10	14,0	9,0	-	1,0	11	18	3,7
654 638 00	654 996 38	M8	4,5	13	16,5	11,0	-	1,5	18	31	7,0
654 640 00	654 996 40	M10	6,0	16	20,0	14,0	-	2,0	24	45	13,2
654 642 00	654 996 42	M12	8,0	18	22,0	15,0	-	2,5	26	49	19,5

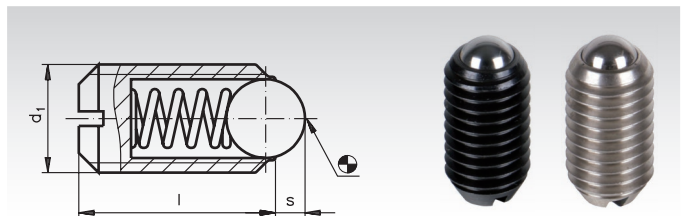
* Statistical average.

Spring Plungers with Ball and Slot, black oxide finished or Stainless Steel

Material:
Body: Steel, black oxide finish. Ball: Hardened. Spring: Stainless steel.
Standard spring tension.

Material Type R:

Body: Stainless steel.
Ball: Stainless steel, hardened.
Spring: Stainless steel, standard spring tension.
Temperature range: -40°C to +250°C.



Ordering Details: e.g.: Product No. 654 996 02, Spring Plunger Type R, M2

Product No. black oxidized	Product No. Type R	d ₁ mm	l mm	s mm	Ball Ø mm	Spring Tension* Initial N	End N	Weight g
-	654 996 02	M2	4	0,3	1,0	0,8	1,5	0,1
654 603 00	654 996 03	M3	7	0,4	1,5	3	4,5	0,3
654 604 00	654 996 04	M4	9	0,8	2,5	6	14,5	0,6
654 605 00	654 996 05	M5	12	0,9	3	8	14	0,9
654 606 00	654 996 06	M6	14	1,0	3,5	11	18	1,5
654 608 00	654 996 08	M8	16	1,5	4,5	18	31	3,5
654 610 00	654 996 10	M10	19	2,0	6	24	45	7
654 612 00	654 996 12	M12	22	2,5	8	26	49	10
654 616 00	654 996 16	M16	24	3,5	10	41	86	24
654 620 00	654 996 20	M20	30	4,5	12	56	111	43
654 624 00	654 996 24	M24	34	5,5	15	81	151	70

Note

These Spring Plungers are, e.g., used for fixation or as device to press something in or push it out.

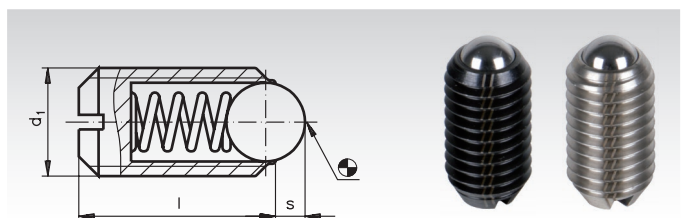
* Statistical average.

Spring Plungers with Ball and Slot, black oxide finished or Stainless Steel, Strong Spring Tension

Material:
Body: Steel, black oxide finish. Ball: Hardened. Spring: Stainless steel.
Strong spring tension.

Material Type R:

Body: Stainless steel.
Ball: Stainless steel, hardened.
Spring: Stainless steel, strong spring tension.
Temperature range: -40°C to +250°C.



Ordering Details: e.g.: Product No. 654 805 00, Spring Plunger, M5

Product No. black oxidized	Product No. Type R	d ₁ mm	l mm	s mm	Ball Ø mm	Spring Tension* Initial N	End N	Weight g
654 805 00	654 998 05	M5	12	0,9	3	15	22	0,9
654 806 00	654 998 06	M6	14	1,0	3,5	19	28	1,5
654 808 00	654 998 08	M8	16	1,5	4,5	36	62	3,5
654 810 00	654 998 10	M10	19	2,0	6	57	104	7
654 812 00	654 998 12	M12	22	2,5	8	61	110	10
654 816 00	654 998 16	M16	24	3,5	10	68	142	24
654 820 00	654 998 20	M20	30	4,5	12	84	166	43
654 824 00	654 998 24	M24	34	5,5	15	127	237	70

Note

These Spring Plungers are, e.g., used for fixation or as device to press something in or push it out.

* Statistical average.