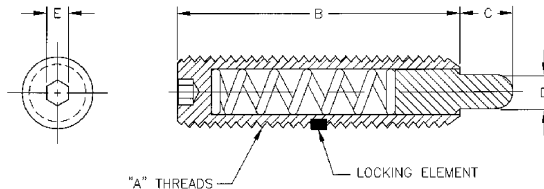


Posi Hex Plungers

- Material:
 - Steel Body: 12L14 Steel
 - Stainless Steel Body: 303 Stainless Steel
 - Steel Plunger: 12L14 Steel, Case Hardened
 - Stainless Steel Plunger: 303 Stainless Steel
- Heavy End Force: Black Oxide Finish
- Light End Force: Zinc Plated Nose
- Easy installation and removal
- Withstands high torque
- One-piece body – no set screw in back



METRIC

Heavy End Force

STEEL BODY		End Force (lbs)		Thread A	B	C	D*	E
Steel Nose Part No.	Blue Delrin Nose Part No.	Initial	Final					
67001	67080	2.70	7.30	M4 x 0.7	16	2.5	1.78	2
67002	67081	2.90	11.10	M5 x 0.8	19	3.0	2.36	2.5
67003	67082	3.00	13.00	M6 x 1.0	25	5.0	3.02	3
67004	67083	3.00	15.00	M8 x 1.25	25	5.0	3.43	4
67005	67084	5.50	14.50	M10 x 1.5	29	5.0	4.72	5
67006	67085	6.60	17.40	M12 x 1.75	32	6.0	6.30	6
67007	67086	10.50	25.50	M16 x 2.0	38	8.0	7.87	8
67008	67087	6.70	37.30	M20 x 2.5	44	8.0	9.50	10

Light End Force

STEEL BODY		End Force (lbs)		Thread A	B	C	D*	E
Steel Nose Part No.	White Delrin Nose Part No.	Initial	Final					
67009	67088	.70	2.30	M4 x 0.7	16	2.5	1.78	2
67010	67089	1.30	2.70	M5 x 0.8	19	3.0	2.36	2.5
67011	67090	1.00	4.00	M6 x 1.0	25	5.0	3.02	3
67012	67091	1.50	4.50	M8 x 1.25	25	5.0	3.43	4
67013	67092	2.80	7.20	M10 x 1.5	29	5.0	4.72	5
67014	67093	2.70	9.30	M12 x 1.75	32	6.0	6.30	6
67015	67094	3.50	10.50	M16 x 2.0	38	8.0	7.87	8
67016	67095	4.00	16.00	M20 x 2.5	44	8.0	9.50	10

ENGLISH

Heavy End Force

STEEL BODY		STAINLESS BODY		End Force (lbs)		Thread A	B	C	D*	E
Steel Nose Part No.	Blue Delrin Nose Part No.	Stainless Nose Part No.		Initial	Final					
57001	57085	57015		1.5	4.5	6-32	17/32	1/16	.045	1/16
57002	–	57016		1.0	1.6	6-32	1/2	1/16	.045	1/16
57003	57086	57017		2.7	7.3	8-32	5/8	3/32	.070	1/16
57004	57087	57018		2.9	11.1	10-32	3/4	1/8	.092	1/16
57005	57088	57019		3.0	13.0	1/4-20	1	3/16	.118	5/64
57006	57089	57020		3.0	13.0	1/4-28	1	3/16	.118	5/64
57007	–	57021		2.0	9.0	1/4-20	3/4	1/8	.118	5/64
57008	57090	57022		3.0	15.0	5/16-18	1	3/16	.135	3/32
57080	57091	–		5.5	14.5	3/8-16	1-1/8	3/16	.186	3/16
57081	57092	–		6.6	17.4	1-1/4	1/4	1/4	.248	1/4
57082	57093	–		10.5	25.5	5/8-11	1-1/2	5/16	.310	5/16
57083	–	–		6.7	37.3	3/4-10	1-3/4	5/16	.374	3/8



Light End Force

STEEL BODY		STAINLESS BODY		End Force (lbs)		Thread A	B	C	D*	E
Steel Nose Part No.	White Delrin Nose Part No.	Stainless Nose Part No.		Initial	Final					
57009	57185	57023		0.5	1.5	6-32	17/32	1/16	.045	1/16
57010	57186	57024		0.7	2.3	8-32	5/8	3/32	.070	1/16
57011	57187	57025		1.3	2.7	10-32	3/4	1/8	.092	1/16
57012	57188	57026		1.0	4.0	1/4-20	1	3/16	.118	5/64
57013	57189	57027		1.0	4.0	1/4-28	1	3/16	.118	5/64
57014	57190	57028		1.5	4.5	5/16-18	1	3/16	.135	3/32
57180	57191	–		2.8	7.2	3/8-16	1-1/8	3/16	.186	3/16
57181	57192	–		2.7	9.3	1/2-13	1-1/4	1/4	.248	1/4
57182	57193	–		3.5	10.5	5/8-11	1-1/2	5/16	.310	5/16
57183	–	–		5.5	14.5	3/4-10	1-3/4	5/16	.374	3/8
57184**	–	–		10.0	25.0	1-8	2-13/32	1/2	.499	3/8

* INCH SIZES

Steel Nose: +.000, -.001

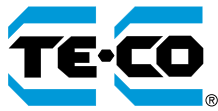
Delrin Nose: +.000, -.002

* METRIC SIZES

Steel Nose: +.000, -.025

Delrin Nose: +.000, -.050

**Not available in one-piece design



SPRING LOADED DEVICES

Installation Information for TE-CO Spring Loaded Devices

Most TE-CO Spring & Ball Plungers can be installed using a screwdriver, hex key wrench, or spring/ball plunger wrench (see page 100). Also, many Hand Retractable Spring Plungers can be installed without using any tools by simply using its knob to engage the threads. Because spring loaded devices have hollow bodies, the maximum installation torques they can withstand are significantly less than bolts or screws. The table below should be used as a guideline for installing spring loaded devices.

Unified Thread Size	Metric Thread Size	Max Installation Torque (inch pounds)
No. 4	M2.5 x 0.45	.60
No. 5	M3 x 0.5	1.25
No. 6	M3.5 x 0.6-6g	1.65
No. 8	M4 x 0.7-6g	2.15
No. 10	M5 x 0.8-6g	3.15
1/4	M6 x 1-6g	6.0
5/16	M8 x 1.25	11.0
3/8	M10 x 1.5	16.0
7/16	M11 x 1.5	22.0
1/2	M12 x 1.75	28.0
9/16	M14 x 2.0	36.0
5/8	M16 x 2.0	55.0
3/4	M20 x 2.5	70.0
7/8	M22 x 2.5	95.0
1	M24 x 3.0	130.0
1-1/8	M30 x 3.5	160.0
1-1/4	M33 x 3.5	190.0

Most TE-CO Spring Loaded Devices can be ordered with or without a nylon thread locking element (see each product group for details). The nylon-locking element forces the threads on the opposite side of a spring loaded device to compress against the mating threads of a tapped hole, providing the thread locking property. The nylon-locking element can cause installation problems when installing into softer metals or aluminum. This can be prevented by either using a larger tap drill when tapping, by ordering a spring plunger without a locking element, or by requesting a quote for a special plunger that will fit your needs.

When installing spring loaded devices with a nylon thread locking element pellet (thread sizes 5/16" and larger or M8 and larger), TE-CO recommends that the tapped installation hole be countersunk 90 degrees by 1/32 larger than major thread diameter to prevent damage to the locking element.

For more detailed information you may contact any of our knowledgeable TE-CO Customer Service Representatives at 800-543-4071.

Inch Tap Drill Sizes Table for Spring Plungers

Tap	Tap Drill	Decimal Equiv. of Tap Drill	Probable Hole Size	Percent Of Thread %
4-48	42	0.0935	0.0955	61
	3/32	0.0938	0.0958	60
	41	0.0960	0.0980	52
5-40	40	0.098	0.1003	76
	39	0.0995	0.1018	71
	38	0.1015	0.1038	65
	37	0.1040	0.1063	58
	37	0.1040	0.1063	78
6-32	36	0.1065	0.1091	71
	7/64	0.1094	0.1120	64
	35	0.1100	0.1126	63
	34	0.1110	0.1136	60
	33	0.1130	0.1156	55
6-40	34	0.1110	0.1136	75
	33	0.1130	0.1156	69
	32	0.1160	0.1186	60
8-32	29	0.1360	0.1389	62
	28	0.1405	0.1434	51
8-36	29	0.1360	0.1389	70
	28	0.1405	0.1434	57
	9/64	0.1406	0.1435	57
10-32	5/32	0.1563	0.1595	75
	22	0.1570	0.1602	73
	21	0.1590	0.1622	68
	20	0.1610	0.1642	64
	19	0.1660	0.1692	51
1/4-20	9	0.1960	0.1998	77
	8	0.1990	0.2028	73
	7	0.2010	0.2048	70
	13/64	0.2031	0.2069	66
	6	0.2040	0.2078	65
	5	0.2055	0.2093	63
	4	0.2090	0.2128	57
1/4-28	3	0.2130	0.2168	72
	7/32	0.2188	0.2226	59
	2	0.2210	0.2248	55
5/16-18	F	0.257	0.2608	72
	G	0.261	0.2651	66
	17/64	0.2656	0.2697	59
	H	0.2660	0.2701	59
3/8-16	5/16	0.3125	0.3169	72
	O	0.3160	0.3204	68
	P	0.3230	0.3274	59
1/2-13	27/64	0.4219	0.4266	73
	7/16	0.4375	0.4422	58
5/8-11	17/32	0.5313	0.5362	75
	36/64	0.5469	0.5518	62
3/4-10	41/64	0.6406	0.6456	80
	21/32	0.6563	0.6613	68
1-8	55/64	0.8594	0.8653	83
	7/8	0.8750	0.8809	73
	57/64	0.8906	0.8965	64
	29/32	0.9063	0.9122	54