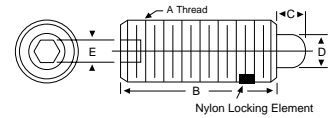


# SPRING PLUNGERS

**Inch and Metric  
Steel and Stainless Steel Bodies  
With Steel, Delrin or Stainless Steel Nose  
With or Without Nylon Locking Element**



## Posi-Hex

Posi-hex plungers allow for easy installation and removal from the back side using a hex wrench. Plunger assembly will not come apart under critical applications because the hex plug is permanently installed and cannot break loose upon installation or removal. Posi-hex is recommended for use in high torque applications. Metric dimensions are in millimeters. Metric end pressures are in newtons.

Standard Cat. No.	Standard Cat. No.	End Force Lbs.		A	B	C	D	E	Price Each 1-11
		Initial	Final						
<b>Steel Bodies</b>									
<b>Steel Nose - Heavy End Pressure</b>									
<b>Inch</b>									
PH-48B	PH-48BN*	1.0	1.6	6-32	1/2	1/16	.044-.045	.063	<b>4.42</b>
PH-48	PH-48N	1.5	4.5	6-32	17/32	1/16	.044-.045	.063	<b>4.42</b>
PH-50	PH-50N*	2.7	7.3	8-32	5/8	3/32	.069-.070	.063	<b>4.42</b>
PH-52	PH-52N*	2.9	11.1	10-32	3/4	1/8	.091-.092	.063	<b>4.42</b>
PH-54B	PH-54BN	2.0	9.0	1/4-20	3/4	1/8	.117-.118	.079	<b>4.14</b>
PH-54	PH-54N	3.0	13.0	1/4-20	1	3/16	.117-.118	.079	<b>4.36</b>
PH-54A	PH-54AN	3.0	13.0	1/4-28	1	3/16	.117-.118	.079	<b>4.36</b>
PH-56	PH-56N	3.0	15.0	5/16-18	1	3/16	.133-.135	.093	<b>4.36</b>

<b>Metric</b>									
JP-570	—	11.96	41.09	M4x0.7	16	2.5	1.78	2	<b>5.20</b>
JP-571	—	12.85	49.03	M5x0.8	19	3.0	2.36	2.5	<b>5.20</b>
JP-572	—	13.24	57.37	M6x1.0	25	5.0	3.02	3	<b>4.99</b>
JP-573	—	13.24	66.20	M8x1.25	25	5.0	3.43	4	<b>5.20</b>
JP-574	—	24.32	64.04	M10x1.5	29	5.0	4.72	5	<b>5.20</b>
JP-575	—	29.13	76.78	M12x1.75	32	6.0	6.30	6	<b>5.41</b>
JP-577	—	46.39	112.58	M16x2.0	38	8.0	7.87	8	<b>6.46</b>
JP-578	—	29.91	166.23	M20x2.5	44	8.0	9.50	10	<b>Error</b>

<b>Steel Nose - Light End Pressure</b>									
<b>Inch</b>									
PH-49	PH-49N*	0.5	1.5	6-32	17/32	1/16	.044-.045	.063	<b>4.42</b>
PH-51	PH-51N*	0.7	2.3	8-32	5/8	3/32	.069-.070	.063	<b>4.42</b>
PH-53	PH-53N*	1.3	2.7	10-32	3/4	1/8	.091-.092	.063	<b>4.42</b>
PH-55	PH-55N	1.0	4.0	1/4-20	1	3/16	.117-.118	.079	<b>4.36</b>
PH-55A	PH-55AN	1.0	4.0	1/4-28	1	3/16	.117-.118	.079	<b>4.36</b>
PH-57	PH-57N	1.5	4.5	5/16-18	1	3/16	.133-.135	.093	<b>4.36</b>

<b>Metric</b>									
JP-670	—	3.14	10.20	M4x0.7	16	2.5	1.78	2	<b>5.20</b>
JP-671	—	5.79	11.96	M5x0.8	19	3.0	2.36	2.5	<b>5.20</b>
JP-672	—	4.41	17.65	M6x1.0	25	5.0	3.02	3	<b>4.99</b>
JP-673	—	6.67	19.91	M8x1.25	25	5.0	3.43	4	<b>5.20</b>
JP-674	—	12.36	31.77	M10x1.5	29	5.0	4.72	5	<b>5.20</b>
JP-675	—	11.96	41.09	M12x1.75	32	6.0	6.30	6	<b>5.41</b>
JP-677	—	15.49	46.39	M16x2.0	38	8.0	7.87	8	<b>6.49</b>

<b>Delrin Nose - Heavy End Pressure</b>									
<b>Metric</b>									
JP-470	—	11.96	41.09	M4x0.7	16	2.5	1.78	2	<b>5.20</b>
JP-471	—	12.85	49.03	M5x0.8	19	3.0	2.36	2.5	<b>5.20</b>
JP-472	—	13.24	57.37	M6x1.0	25	5.0	3.02	3	<b>4.99</b>
JP-473	—	13.24	66.20	M8x1.25	25	5.0	3.43	4	<b>5.20</b>
JP-474	—	24.32	64.04	M10x1.5	29	5.0	4.72	5	<b>Error</b>
JP-477	—	46.39	112.58	M16x2.0	38	8.0	7.87	8	<b>Error</b>
JP-478	—	29.91	166.23	M20x2.5	44	8.0	9.50	10	<b>8.99</b>

<b>Delrin Nose - Light End Pressure</b>									
<b>Metric</b>									
JP-870	—	3.14	10.20	M4x0.7	16	2.5	1.78	2	<b>5.20</b>
JP-871	—	5.79	11.96	M5x0.8	19	3.0	2.36	2.5	<b>5.20</b>
JP-872	—	4.41	17.65	M6x1.0	25	5.0	3.02	3	<b>4.99</b>
JP-873	—	6.67	19.91	M8x1.25	25	5.0	3.43	4	<b>5.20</b>
JP-874	—	12.36	31.77	M10x1.5	29	5.0	4.72	5	<b>Error</b>
JP-875	—	11.96	41.09	M12x1.75	32	6.0	6.30	6	<b>5.41</b>

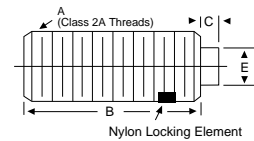
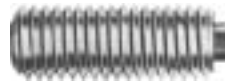
<b>Steel Bodies</b>									
<b>Steel Nose - Heavy End Pressure</b>									
<b>Inch</b>									
SSPH-48B	SSPH-48BN*	1.0	1.6	6-32	1/2	1/16	.044-.045	.063	<b>5.65</b>
SSPH-48	SSPH-48N	1.5	4.5	6-32	17/32	1/16	.044-.045	.063	<b>5.65</b>
SSPH-50	SSPH-50N*	2.7	7.3	8-32	5/8	3/32	.069-.070	.063	<b>5.65</b>
SSPH-52	SSPH-52N*	2.9	11.1	10-32	3/4	1/8	.091-.092	.063	<b>5.65</b>
SSPH-54B	SSPH-54BN	2.0	9.0	1/4-20	3/4	1/8	.117-.118	.079	<b>5.14</b>
SSPH-54	SSPH-54N	3.0	13.0	1/4-20	1	3/16	.117-.118	.079	<b>5.48</b>
SSPH-54A	SSPH-54AN	3.0	13.0	1/4-28	1	3/16	.117-.118	.079	<b>5.48</b>
SSPH-56	SSPH-56N	3.0	15.0	5/16-18	1	3/16	.133-.135	.093	<b>5.48</b>

<b>Steel Nose - Light End Pressure</b>									
<b>Inch</b>									
SSPH-49	SSPH-49N*	0.5	1.5	6-32	17/32	1/16	.044-.045	.063	<b>5.65</b>
SSPH-51	SSPH-51N*	0.7	2.3	8-32	5/8	3/32	.069-.070	.063	<b>5.65</b>
SSPH-53	SSPH-53N*	1.3	2.7	10-32	3/4	1/8	.091-.092	.063	<b>5.65</b>
SSPH-55	SSPH-55N	1.0	4.0	1/4-20	1	3/16	.117-.118	.079	<b>5.48</b>
SSPH-55A	SSPH-55AN	1.0	4.0	1/4-28	1	3/16	.117-.118	.079	<b>Error</b>
SSPH-57	SSPH-57N	1.5	4.5	5/16-18	1	3/16	.133-.135	.093	<b>5.48</b>

\*Nylon patch.

\*\*With nylon locking element. Not recommended in aluminum applications.

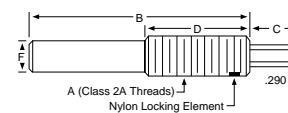
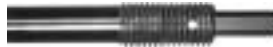
## "Hi-Life" Flat Nose Steel Bodies with Steel Nose



Guaranteed for 10 million cycles. Built to take the tough abuse of high speed, long run stamping operations. Flat nose design makes them ideal for use as parts lifters in dies, or other applications requiring exceptionally long life. Special long life springs. Bodies black oxide finish. Nylon locking element not recommended in aluminum applications.

Cat. No.	Thread	End Force Lbs.		B	C	Hex	Price Each	
		Initial	Final				1-11	12-143
HL-1	1/4-20	1/2	6 1/8	1.343	.078	1/8	<b>10.12</b>	<b>9.71</b>
HL-2	5/16-18	1/2	8	1.406	.088	1/8	<b>10.51</b>	<b>10.09</b>
HL-3	3/8-16	1/2	9 1/8	1.532	.097	3/16	<b>10.73</b>	<b>10.30</b>
HL-4	1/2-13	1/2	16	1.718	.105	1/4	<b>10.85</b>	<b>10.41</b>

## Long Travel-Hex Nose Steel Bodies



For use in large sheet metal forming dies. The long plunger stroke lifts the formed sheet clear of the die to permit access for easy removal. Hexagonal shaped plungers provide for easy insertion, adjustment or removal with a standard wrench. Plungers are case hardened. Bodies and heavy end pressure plunger noses have a black oxide finish. Light end pressure plunger noses have a zinc plated finish. All bodies have a nylon locking element and are not recommended in aluminum applications.

Cat. No.	End Force Lbs.		A	B	C	D	E	F	Price 1-11
	Initial	Final							
<b>Steel Nose - Heavy End Pressure</b>									
LTP-00	4	20	5/8-11	3 1/8	1	1 1/4	5/16	.510	<b>Error</b>
LTP-0	4	35	3/4-10	3 1/4	1	1 1/2	3/8	.623	<b>Error</b>
LTP-1	16	50 3/4	1-8	5	1	2	1/2	.844	<b>Error</b>
LTP-2	16	68	1-8	5	1 1/2	2	1/2	.844	<b>Error</b>
<b>Steel Nose - Light End Pressure</b>									
LTP-3	4	22	1-8	5	1	2	1/2	.844	<b>Error</b>
LTP-4	4	31	1-8	5	1 1/2	2	1/2	.844	<b>Error</b>

## WRENCHES FOR SPRING PLUNGERS AND BALL PLUNGERS



Provides fast installation or removal of spring, ball or stubby spring plungers (including metric). Prevents spring damage that can result when a screwdriver is used on the ball or plunger end. A real convenience and time saver.

Cat. No.	For Thread Size	Price Each
VW-48	6-32	<b>4.84</b>
VW-50	8-32 & 8-36	<b>4.94</b>
VW-52	10-32, M4 & M5	<b>5.08</b>
VW-54	1/4-20, 1/4-28 & M6	<b>5.26</b>
VW-56	5/16-18 & M8	<b>5.44</b>
VW-58	3/8-16 & M10	<b>5.80</b>
VW-60	1/2-13 & M12	<b>7.07</b>
VW-62	5/8-11 & M16	<b>7.61</b>
VW-64	3/4-10 & M10	<b>8.93</b>
VW-66	1-8	<b>9.58</b>

Bold catalog numbers conform to TCMAI standards.