

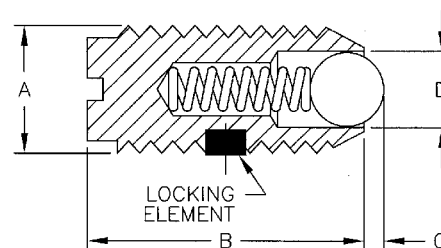
SPRING LOADED DEVICES



Ball Plungers

- Material:
 - Steel Body: 12L14 Steel
 - Stainless Steel Body: 303 Stainless Steel
 - Ball: 440 Stainless Steel or Nylon
- Smallest and lightest spring loaded device
- Side-load tolerant
- Controlled end forces
- Screwdriver installation
- Many sizes conform to TCMAI standards
- Bodies are color coded to indicate end forces:
 - Plain or Zinc = Light Force
 - Black = Standard Force
 - Gold = Heavy Force

NYLON THREAD LOCKING ELEMENT IS STANDARD ON ALL SIZES
 To order ball plungers without a locking element, simply add an "X" to the end of the part number (ex. 52821X).
 Pricing is the same with or without locking element.



STEEL BODY			STAINLESS STEEL BODY			End Force (lbs)		Thread A	B	C	Ball Dia. D	Weight (lbs/100pcs)
Stainless Steel Ball Part No.	Nylon Ball Part No.	Body Color Type	Stainless Steel Ball Part No.	Nylon Ball Part No.	Body Color Type	Initial	Final					
52821	53821	Black	52901	53830	Plain	.12	.50	4-48	3/16	.020	.062	.005
52822	53822	Black	52902	53831	Plain	.25	.75	5-40	1/4	.020	.062	.02
52823	53823	Black	52903	53832	Plain	.50	1.00	6-40	5/16	.023	.078	.02
52824	53824	Black	52904	53833	Plain	.50	1.25	8-36	11/32	.025	.093	.04
52825	53825	Black	52923	53852	Plain	.50	1.25	8-32	11/32	.025	.093	.04
52801	53801	Zinc	52905	53834	Plain	.50	1.50	10-32	33/64	.025	.093	.30
52802	53802	Black	52906	53835	Black	1.50	3.00	10-32	33/64	.025	.093	.30
52803	53803	Gold	52907	53836	Gold	2.00	5.00	10-32	33/64	.025	.093	.30
52804	53804	Zinc	52908	53837	Plain	2.00	4.00	1/4-20	17/32	.035	.125	.40
52805	53805	Black	52909	53838	Black	3.00	7.00	1/4-20	17/32	.035	.125	.40
52806	53806	Gold	52910	53839	Gold	4.00	12.00	1/4-20	17/32	.035	.125	.40
52807	53807	Zinc	52911	53840	Plain	2.00	4.50	5/16-18	37/64	.040	.156	.70
52808	53808	Black	52912	53841	Black	4.00	9.00	5/16-18	37/64	.040	.156	.70
52809	53809	Gold	52913	53842	Gold	6.00	17.00	5/16-18	37/64	.040	.156	.70
52810	53810	Zinc	52914	53843	Plain	2.50	5.00	3/8-16	5/8	.048	.187	1.20
52811	53811	Black	52915	53844	Black	5.00	10.00	3/8-16	5/8	.048	.187	1.20
52812	53812	Gold	52916	53845	Gold	6.00	21.00	3/8-16	5/8	.048	.187	1.20
52813	53813	Zinc	52917	53846	Plain	3.00	6.00	1/2-13	3/4	.072	.281	2.60
52814	53814	Black	52918	53847	Black	6.00	12.00	1/2-13	3/4	.072	.281	2.60
52815	53815	Gold	52919	53848	Gold	6.00	30.00	1/2-13	3/4	.072	.281	2.60
52816	53816	Zinc	52920	53849	Plain	4.50	9.00	5/8-11	63/64	.096	.375	5.00
52817	53817	Black	52921	53850	Black	9.00	18.00	5/8-11	63/64	.096	.375	5.00
52818	53818	Gold	52922	53851	Gold	7.00	50.00	5/8-11	63/64	.096	.375	5.00

Special sizes quoted upon request – see quotation form on page 115.

For information concerning installation, see page 125.

Metric

STEEL BODY			STAINLESS STEEL BODY			End Force (lbs)		Thread A	B mm (in.)	C mm (in.)	Ball Dia. D mm (in.)
Stainless Steel Ball Part No.	Nylon Ball Part No.	Body Color Type	Stainless Steel Ball Part No.	Nylon Ball Part No.	Body Color Type	Initial	Final				
63901	63961	Black	64001	64061	Black	.90	2.25	M4 x 0.7	9 (.354)	.8 (.032)	2.5 (.098)
63920	-	Black	-	-	-	.50	1.50	M5 x 0.8	13 (.518)	.6 (.023)	2.38 (.093)
63921	-	Black	-	-	-	1.50	3.00	M5 x 0.8	13 (.518)	.6 (.023)	2.38 (.093)
63922	-	Black	-	-	-	2.00	4.90	M5 x 0.8	13 (.518)	.6 (.023)	2.38 (.093)
63902	63962	Black	64002	64062	Black	2.00	2.90	M6 x 1.0	14 (.551)	1 (.039)	3.5 (.138)
63903	63963	Zinc	64003	64063	Plain	.45	1.35	M6 x 1.0	14 (.551)	1 (.039)	3.5 (.138)
63904	63964	Gold	64004	64064	Gold	6.25	8.95	M6 x 1.0	14 (.551)	1 (.039)	3.5 (.138)
63905	63965	Black	64005	64065	Black	3.35	6.70	M8 x 1.25	16 (.630)	1.5 (.059)	5 (.196)
63906	63966	Zinc	64006	64066	Plain	1.11	2.25	M8 x 1.25	16 (.630)	1.5 (.059)	5 (.196)
63907	63967	Gold	64007	64067	Gold	8.95	13.40	M8 x 1.25	16 (.630)	1.5 (.059)	5 (.196)
63908	63968	Black	64008	64068	Black	4.45	7.80	M10 x 1.5	19 (.748)	2 (.079)	6 (.236)
63909	63969	Zinc	64009	64069	Plain	1.80	3.35	M10 x 1.5	19 (.748)	2 (.079)	6 (.236)
63910	63970	Gold	64010	64070	Gold	13.40	20.00	M10 x 1.5	19 (.748)	2 (.079)	6 (.236)
63911	63971	Black	64011	64071	Black	6.70	12.25	M12 x 1.75	22 (.866)	2.5 (.098)	8 (.315)
63912	63972	Zinc	64012	64072	Plain	2.25	4.50	M12 x 1.75	22 (.866)	2.5 (.098)	8 (.315)
63913	63973	Gold	64013	64073	Gold	16.75	25.65	M12 x 1.75	22 (.866)	2.5 (.098)	8 (.315)