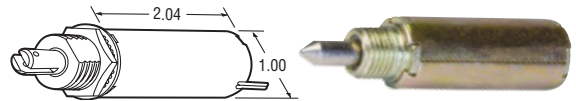


Tubular Solenoids

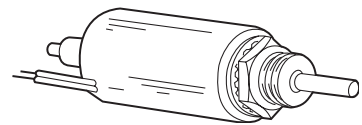
Tubular Solenoids are available for DC power applications. Continuous-duty units can be energized indefinitely. Intermittent-duty units offer higher pulling power, but can only be energized for a maximum of 180 seconds, and then they must cool for a minimum of 540 seconds. The middle letter of the Mfr.'s Type indicates the Continuous or Intermittent-duty cycle. Guardian tubulars come with mounting hardware, nut, and lockwashers.



Stock No.	Mfr.'s Type	Ohms	Lift (Oz.) and Stroke (In.)					Dia. (In.)	Length (In.)	Mounting Threads	Use with Spring Kit	EACH			
			0.05"	0.15"	0.25"	0.50"	1.0"					1-14	15-24	25-49	50-99
802-1154	T3.5X9-C-12DC	60.2	3	1	1	1	—	0.044	1.18	0.3125-32UNEUF-2A	T3.5X9-C-12DC	11.47	11.01	10.58	9.59
802-1156	T4X7-I-24D	131.0	6	2	1	1	—	0.050	0.89	0.375-32UNEUF-2A	T4X7-I-24D	7.17	6.89	6.62	6.48
802-1166	T6X12-C-24D	121.0	17	8	5	2	—	0.075	1.54	0.468-32UNEUF-2A	T6X12-C-24D	11.86	11.38	10.94	10.69
802-1167	T6X12-I-12D	12.1	24	12	8	4	—	0.075	1.54	0.468-32UNEUF-2A	T6X12-I-12D	11.86	11.38	10.94	10.69
802-0565	T6X12-C-12D	31.7	17	8	5	2	—	0.750	1.54	0.468-32UNEUF-2A	T6X12-C-12D	11.86	11.38	10.94	10.69
802-1168	T8X9-I-24D	44.0	42	20	10	4	—	1.000	1.17	0.75-24UNS-2A	T8X9-I-24D	17.26	16.57	15.93	15.57
802-1170	T8X16-I-24D	36.1	60	35	15	15	8	1.000	2.04	0.75-24UNS-2A	T8X16-I-24D	14.92	14.31	13.77	13.46
802-1171	T8X16-I-12D	9.3	60	35	15	15	8	1.000	2.04	0.75-24UNS-2A	T8X16-I-12D	14.92	14.31	13.77	13.46
802-0573	T8X16-C-12D	28.3	38	15	11	8	4	1.000	2.04	0.75-24UNS-2A	T8X16-C-12D	14.92	14.31	13.77	13.46
802-1172	T12X13-I-24D	28.4	140	90	55	15	—	1.500	1.68	1-27UNS-2A	T12X13-I-24D	22.14	21.27	20.45	19.99
802-0010	T12X19-I-12DC	5.6	145	90	70	40	20	1.500	2.43	1-27UNS-2A	T12X19-I-12DC	22.28	21.39	20.57	20.10
802-0003	T12X19-C-12VDC	17.5	100	60	35	20	10	1.500	2.43	1-27UNS-2A	T12X19-C-12VDC	23.28	22.35	21.49	21.01
802-1174	T12X19-I-24D	22.1	145	90	70	40	20	1.500	2.43	1-27UNS-2A	T12X19-I-24D	22.28	21.39	20.57	20.10
802-1175	T12X19-C-24D	68.0	100	60	35	20	10	1.500	2.43	1-27UNS-2A	T12X19-C-24D	23.28	22.35	21.49	21.01

Guardian TP Push-Type

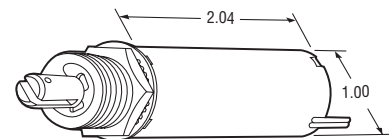
Push-type tubular solenoids are based on the standard tubular line, and are available for DC applications. The plunger pushes out of the body of the solenoid from the threaded end. Continuous-duty and intermittent-duty cycles are the same as the tubular solenoids listed above.



Stock No.	Mfr.'s Type	Ohms	Lift (Oz.) and Stroke (In.)					Dia. (In.)	Length (In.)	Mounting Threads	Use with Spring Kit	EACH			
			0.05"	0.15"	0.25"	0.50"	1.0"					1-14	15-24	25-49	50-99
802-1161	TP4X12-C-24D	195.0	4	1	1	1	—	1.50	1.50	0.375-32UNEUF-2A	TP4X12-C-24D	8.78	8.16	7.93	7.72
802-1164	TP4X16-C-24D	173.0	5	2	1	1	1	2.01	2.01	0.375-32UNEUF-2A	TP4X16-C-24D	10.17	9.76	9.39	9.18
802-0055	TP6X12-C-12VDC	31.7	17	8	5	2	—	1.54	1.54	0.468-32UNEUF-2A	TP6X12-C-12VDC	12.87	12.34	11.87	11.58
802-1194	TP6X12-C-24D	121.0	17	8	5	2	—	1.54	1.54	0.468-32UNEUF-2A	TP6X12-C-24D	12.87	12.34	11.87	11.58
802-0020	TP8X16-C-12D	28.3	38	15	11	8	4	2.04	2.04	0.75-24UNS-2A	TP8X16-C-12D	17.06	16.36	15.74	15.39
802-1000	TP8X16-C-24D	110.0	38	15	11	8	4	2.04	2.04	0.75-24UNS-2A	TP8X16-C-24D	17.80	17.09	16.43	16.05
802-1178	TP12-X13-I-24D	28.4	140	90	55	15	—	1.68	1.68	1-27UNS-2A	TP12-X13-I-24D	26.94	25.83	24.83	24.27
802-0006	TP12X19-I-12VDC	5.6	145	90	70	40	20	2.43	2.43	1-27UNS-2A	TP12X19-I-12VDC	29.46	27.55	26.69	25.89
802-0007	TP12X19-C-12VDC	17.5	100	60	35	20	10	2.43	2.43	1-27UNS-2A	TP12X19-C-12VDC	29.46	27.55	26.69	25.89
802-1176	TP12X19-I-24D	22.1	145	90	70	40	20	2.43	2.43	1-27UNS-2A	TP12X19-I-24D	29.89	28.70	27.59	26.97
802-1177	TP12X19-C-24D	68.0	100	60	35	20	10	2.43	2.43	1-27UNS-2A	TP12X19-C-24D	29.89	28.70	27.59	26.97

Long-Life Tubular Solenoids

Long-life tubular solenoids incorporate anti-bottoming features, a stainless steel plunger sleeve, and teflon coated plungers to increase mechanical life. The anti-bottoming ring and washers prevent the plunger from hitting the plug, eliminating destructive shock forces. The stainless steel plunger sleeve boosts life expectancy over standard phenolic cores. Teflon coating reduces friction between the plunger and the bobbin over the life of the solenoid, reducing plunger wear.



Stock No.	Mfr.'s Type	Ohms	Lift (Oz.) and Stroke (In.)					Dia. (In.)	Length (In.)	Mounting Threads	Use with Spring Kit	EACH			
			0.05"	0.15"	0.25"	0.50"	1.0"					1-14	15-24	25-49	50-99
802-0008	LT6X12-I-12VDC	13.8	45	22	13	3	—	0.75	1.54	0.468-32 UNEF-2A	LT6X12-I-12VDC	16.18	15.14	14.66	14.23
802-0009	LT6X12-C-12VDC	35.0	30	10	7	2	—	0.75	1.54	0.468-32 UNEF-2A	LT6X12-C-12VDC	15.50	14.49	14.04	13.61
802-0011	LT6X12-I-24VDC	53.8	45	22	13	3	—	0.75	1.54	0.468-32 UNEF-2A	LT6X12-I-24VDC	15.49	14.49	14.04	13.61
802-0012	LT6X12-C-24VDC	138.0	30	10	7	2	—	0.75	1.54	0.468-32 UNEF-2A	LT6X12-C-24VDC	15.50	14.49	14.04	13.61
802-0013	LT8X16-I-12VDC	6.2	78	49	33	15	—	1.00	2.04	0.75-24UNS-2A	LT8X16-I-12VDC	30.34	28.38	27.49	26.66
802-0014	LT8X16-C-12VDC	19.3	50	22	14	8	—	1.00	2.04	0.75-24UNS-2A	LT8X16-C-12VDC	30.34	28.38	27.49	26.66
802-0016	LT8X16-I-24VDC	29.7	78	49	33	15	—	1.00	2.04	0.75-24UNS-2A	LT8X16-I-24VDC	30.34	28.38	27.49	26.66
802-0017	LT8X16-C-24VDC	77.2	50	22	14	8	—	1.00	2.04	0.75-24UNS-2A	LT8X16-C-24VDC	30.34	28.38	27.49	26.66
802-0065	LT12X19-I-24VDC	18.6	170	130	97	45	10	1.50	2.43	1-27UNS-2A	LT12X19-I-24VDC	35.44	34.01	32.71	31.97
802-0075	LT12X19-C-24VDC	71.8	110	60	29	15	5	1.50	2.43	1-27UNS-2A	LT12X19-C-24VDC	35.44	34.01	32.71	31.97

Spring Kits for DC Tubular Solenoids

Stock No.	Mfr.'s Type	For Use With	EACH			
			1-24	25-49	50-99	100-249
802-0048	A490-367460-08	Model T3.5x9	6.70	6.51	6.12	5.77
802-0047	A490-367460-07	Model 22	6.70	6.51	6.12	5.77
802-0046	A490-367460-04	Model T6X12	8.93	8.68	8.16	7.70
802-0044	A490-367460-03	Model T8X9	10.05	9.76	9.18	8.67
802-0043	A490-367460-02	Model T8X16	11.73	11.40	10.72	10.11
802-0042	A490-367460-01	Model T12X13	13.97	13.57	12.76	12.03
802-0004	A490-367460-00	Model T12X19	13.97	13.57	12.76	12.03

Spring Kits for DC Push-Type Tubular Solenoids

Stock No.	Mfr.'s Type	For Use With	EACH			
			1-24	25-49	50-99	100-249
802-0051	A490-367460-15	Model TP4X12	6.70	6.51	6.12	5.77
802-0064	A490-367490-14	Model TP4X16	6.00	5.83	5.48	5.17
802-0050	A490-367460-13	Model TP6X12	8.93	8.68	8.16	7.70
802-0063	A490-367490-11	Model TP8X16	10.50	10.20	9.59	9.05
802-0062	A490-367490-10	Model TP12X13	12.50	12.14	11.42	10.77
802-0049	A490-367460-09	Model TP12X19	13.97	13.57	12.76	12.03

Spring Kits for DC Long Life Tubular Solenoids

Stock No.	Mfr.'s Type	For Use With	EACH			
			1-24	25-49	50-99	100-249
802-0054	A490-367460-22	Model LT6X12	8.93	8.68	8.16	7.70
802-0053	A490-367460-20	Model LT8X16	11.73	11.40	10.72	10.11
802-0052	A490-367460-18	Model LT12X19	13.97	13.57	12.76	12.03