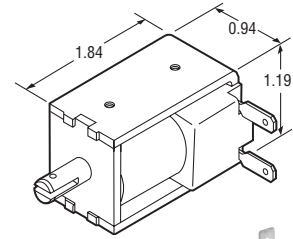


## DC Frame Solenoids

DC frame solenoids are available in a wide range of sizes with plunger stroke of up to 1". Heavy-duty units provide increased pulling power over standard units. 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, 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. All DC frame solenoids are shipped with plungers, but without return springs.

Stock No.	Mfr.'s Type	Ohms	Lift (Oz.) and Stroke (In.)					Length (In.)	Width (In.)	Height (In.)	Mounting Holes	Use with Spring Kit	EACH		
			0.05"	0.15"	0.25"	0.50"	1.0"						1-24	25-49	50-99
802-0018 802-0019	11-I-12VDC 11-C-12VDC	7.50 18.40	62 37	42 17	28 10	10 4	5 1	1.84 1.84	0.94 0.94	1.19 1.19	6-32UNC-2B 6-32UNC-2B	A490-367461-05 A490-367461-05	13.56 13.56	12.69 12.69	12.30 12.30
802-0021 802-1059	11-I-24VDC 11-C-24D	29.10 93.10	62 37	42 17	28 10	10 4	5 1	1.84 1.84	0.94 0.94	1.19 1.19	6-32UNC-2B 6-32UNC-2B	A490-367461-05 A490-367461-05	13.56 13.56	12.69 12.68	12.30 12.29
802-0022 802-1059	11HD-I-12VDC 11HD-C-12VDC	7.78 19.00	110 70	65 30	35 14	18 5	5 1	2.00 2.00	0.94 0.94	1.25 1.25	8-32UNC-2B 8-32UNC-2B	A490-367461-06 A490-367461-06	15.78 15.78	14.76 14.76	14.29 14.29
802-0024 802-0026	22-I-12VDC 22-C-12VDC	22.60 45.70	20 13	7 5	3 2	1 1	— —	1.13 1.13	0.75 0.75	0.75 0.75	4-40UNC-2B 4-40UNC-2B	A490-367460-07 A490-367460-07	8.91 8.91	8.34 8.34	8.08 8.08
802-0027 802-0028	28-I-12VDC 28-C-12VDC	11.90 29.80	32 25	10 8	6 4	2 1	— —	1.13 1.13	0.94 0.94	1.19 1.19	6-32UNC-2B 6-32UNC-2B	A490-367461-08 A490-367461-08	10.79 10.78	10.08 10.08	9.78 9.78
802-0029 802-0031	28-I-24VDC 28-C-24VDC	47.40 116.00	32 25	10 8	6 4	2 1	— —	1.13 1.13	0.94 0.94	1.19 1.19	6-32UNC-2B 6-32UNC-2B	A490-367461-08 A490-367461-08	10.79 10.79	10.08 10.08	9.77 9.78
802-0032 802-0030	28HD-I-12VDC 28HD-C-12VDC	12.20 30.10	75 30	20 10	12 6	5 1	— —	1.23 1.23	0.94 0.94	1.25 1.25	138-32UNC-2B 138-32UNC-2B	A490-367461-09 A490-367461-09	17.52 17.52	16.82 16.82	16.17 16.17



## DC Frame Push Solenoids

DC frame push solenoids are available in a range of sizes with plunger stroke of up to 1". The pushing action extends the stainless steel rod out from the body of the solenoid. All DC frame push solenoids are shipped with plungers, but without return springs.

Stock No.	Mfr.'s Type	Ohms	Lift (Oz.) and Stroke (In.)					Length (In.)	Width (In.)	Height (In.)	Mounting Holes	Use with Spring Kit	EACH		
			0.05"	0.15"	0.25"	0.50"	1.0"						1-24	25-49	50-99
802-0033 802-0034	11P-I-12VDC 11P-C-12VDC	7.5 18.4	62 35	42 17	28 10	10 4	5 1	1.84 1.84	0.94 0.94	1.19 1.19	6-32UNC-2B 6-32UNC-2B	A490-367461-10 A490-367461-10	14.71 14.71	13.76 13.76	13.33 13.33
802-0036 802-0037	28P-I-12VDC 28P-C-12VDC	21.9 29.8	32 25	10 8	6 4	2 1	— —	1.13 1.13	0.94 0.94	1.19 1.19	6-32UNC-2B 6-32UNC-2B	A490-367461-11 A490-367461-11	13.01 13.01	12.18 12.18	11.79 11.79
802-0038 802-0039	28P-I-24VDC 28P-C-24VDC	47.4 116.0	32 25	10 8	6 4	2 1	— —	1.13 1.13	0.94 0.94	1.19 1.19	6-32UNC-2B 6-32UNC-2B	A490-367461-11 A490-367461-11	13.01 13.01	12.18 12.18	11.79 11.79



## AC Frame Push Solenoids

AC frame push solenoids are available with plunger stroke of up to 1". The pushing action extends the stainless steel rod out from the body of the solenoid. All AC frame push solenoids are shipped with plungers, but without return springs.

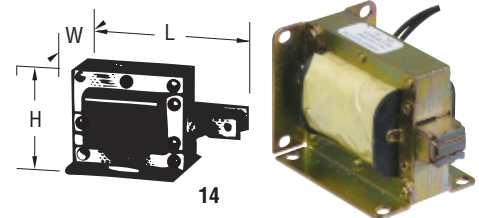
Stock No.	Mfr.'s Type	Ohms	Lift (Oz.) and Stroke (In.)					Length (In.)	Width (In.)	Height (In.)	Mounting Holes	EACH			
			0.05"	0.15"	0.25"	0.50"	1.0"					1-14	15-24	25-49	50-99
802-0040 802-0041	11P-I-120VAC 11P-C-120VAC	85 225	24 13	20 11	18 9	16 7	8 4	1.84 1.84	0.94 0.94	1.19 1.19	6-32UNC-2B 6-32UNC-2B	20.38 20.38	19.07 19.07	18.48 18.48	17.92 17.92



## AC Laminate Solenoids

AC laminate solenoids are available in either pull or optional push models. The pushing action extends the stainless steel rod out from the body of the solenoid. All AC laminate solenoids are shipped with plungers, but without return springs.

Stock No.	Mfr.'s Type	Ohms	Lift (Oz.) and Stroke (In.)					Length (In.)	Width (In.)	Height (In.)	EACH			
			0.05"	0.15"	0.25"	0.50"	1.0"				1-14	15-24	25-49	50-99
802-1085 802-1094	14-C-120A 16-I-120A	18.0 41.0	96 112	80 80	96 60	112 35	112 8	2.45 1.63	1.90 1.22	2.08 1.44	65.99 56.60	63.35 52.85	60.91 51.16	59.54 49.42
802-1090 802-1104	16-C-120A 18-I-120A	85.0 8.8	68 336	43 240	30 195	18 195	8 144	1.63 2.5	1.22 1.81	1.44 2.09	62.03 65.97	59.56 63.34	57.25 60.90	55.98 59.51
802-1100 802-1097	18-C-120A 16P-C-120A	19.7 85.0	155 68	105 43	105 30	100 18	60 8	2.5 1.63	1.81 1.22	2.09 1.44	63.15 69.83	60.63 67.04	58.29 64.46	56.96 63.01
802-1107	18P-I-120VAC	8.8	336	240	195	194	144	2.5	1.81	2.09	85.36	81.94	78.80	77.01



## Spring Kits for DC Frame Solenoids

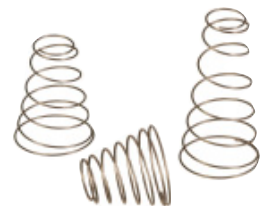
- ▶ Three to Five Springs in Each Package
- ▶ Charts on the Kit Enable Easy Selection of the Right Spring for the Job
- ▶ Plungers Designed to Protect the Spring Are Included



Stock No.	Mfr.'s Type	For Use With	EACH			
			1-24	25-49	50-99	100-249
802-0056	A490-367461-05	Model 11	8.93	8.68	8.16	7.70
802-0057	A490-367461-06	Model 11HD	8.93	8.68	8.16	7.70
802-0047	A490-367460-07	Model 22	6.70	6.51	6.12	5.77
802-0058	A490-367461-08	Model 28	8.93	8.68	8.16	7.70

## Spring Kits for DC Frame Push Solenoids

- ▶ Three to Five Springs in Each Package
- ▶ Charts on the Kit Enable Easy Selection of the Right Spring for the Job
- ▶ Installation Instructions Are Provided on the Back of Kit



Stock No.	Mfr.'s Type	For Use With	EACH			
			1-24	25-49	50-99	100-249
802-0060	A490-367461-10	Model 11P	8.93	8.68	8.16	7.70
802-0061	A490-367461-11	Model 28P	8.93	8.68	8.16	7.70