

Push and Pull Linear

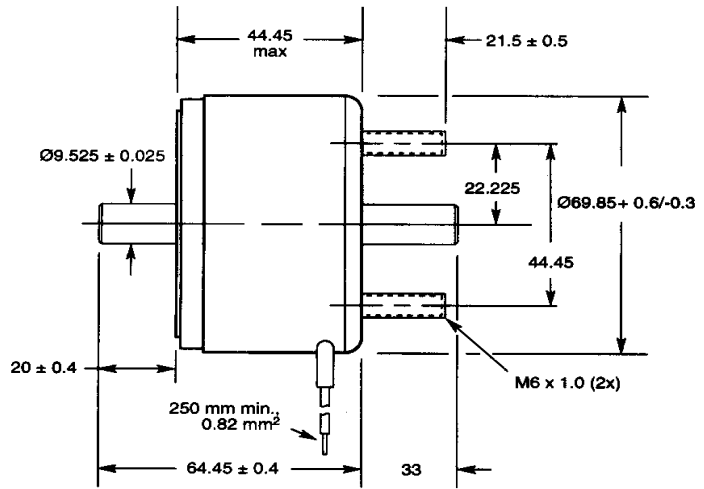
**General:**

**Medium Stroke, Conical Face**  
**Part number: 282354-0XX**

Low profile Linear solenoids offer a compact and efficient package for short stroke, high force applications.

Typical performance details for the 7E series are:

- Up to 354 N force at 0.5 mm stroke.
- Under 10 milliseconds response time for 1 mm stroke under no load conditions.
- Conical pole face allows increased stroke with minimal reduction in performance.
- Pull or push design.



Solenoid shown in energised position.

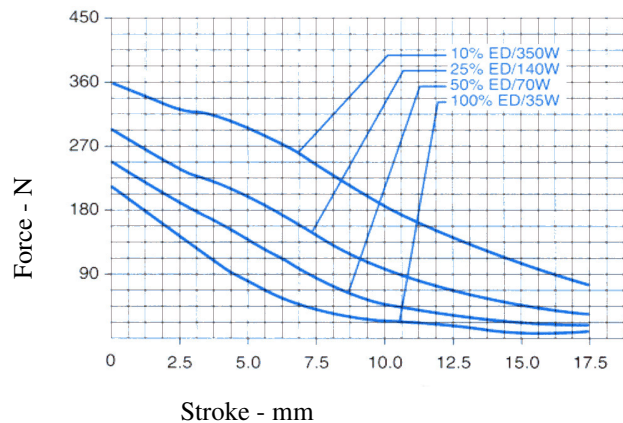
**Specifications:**

- **Dielectric Strength:** 23-29 awg. 1200 VRMS / 30-33 awg. 1500 VRMS.
- **Recommended Heat Sink:** Maximum watts dissipated by the solenoid are based on an unrestricted flow of air at 20° C mounted on the equivalent of an aluminium plate 384x384x3.2mm min.
- **Coil Resistance:** 23-30awg. +/- 5% tolerance / 31-31-33 awg. +/- 10% tolerance
- **Weight:** 1134 Kg.

Coil Specifications							
Maximum Duty Cycle	100%	50%	25%	10%			
Maximum ON Time (seconds) When pulsed continuously 1	∞	80	38	16			
Maximum ON Time (seconds) for single pulse 2	∞	138	50	18			
Watts (@20° C)	35	70	140	350			
Ampere Turns (@ 20° C)	1805	2555	3610	5710			
Coil Data							
awg. (0xx)3	Resistance (@ 20°C)	# Turns 4	Nominal DC Voltage				
23	10.80	1044	19.0	27.0	39.0	61.0	
24	16.50	1274	24.0	34.0	48.0	76.0	
25	27.00	1635	31.0	43.0	61.0	97.0	
26	43.80	2091	39.0	55.0	78.0	124.0	
27	68.40	2603	49.0	69.0	98.0	155.0	
28	108.00	3255	61.0	87.0	123.0	194.0	
29	162.00	2933	75.0	106.0	151.0	238.0	
30	265.00	5044	96.0	136.0	193.0	305.0	
31	385.00	5800	116.0	164.0	232.0	367.0	
32	583.00	7230	143.0	202.0	286.0	452.0	
33	882.00	8400	176.0	248.0	351.0	600.0	

**Performance:**

Typical Force @ 20°C



**Notes:**

1. Continuously pulsed at stated watts and duty cycle.
2. Single pulsed at stated watts (with coil at ambient room temperature 20° C).
3. Other coil gauges available, consult factory.
4. Reference number of turns.
5. Anti rotational mounting bushes available on request.

**How to Order:**

Add the coil awg number to the part number alternatively please specify; the Voltage, Duty cycle, Starting Force, Stroke required and any special requirements.