

# Push - Pull Solenoid

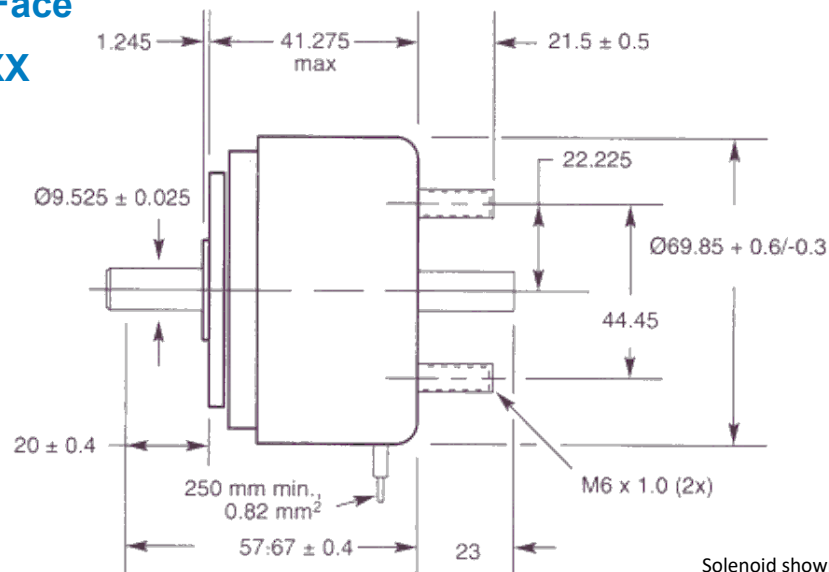
## Linear - Size 7SFM



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**Short Stroke, Flat Face**

**Part No: 282353-0XX**



Solenoid shown in energised position.

### General Specifications

**Dielectric Strength:**

23-29 awg. 1200 VRMS  
30-33 awg. 1500 VRMS

**Coil Resistance:**

23-30awg +/- 5% tolerance  
31-33 awg. +/- 10% tolerance

**Holding Force:**

845.1 N @ 105° C

**Weight:** 1020 g

**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

**Typical Performance Details for 7S Series:**

Up to 1250 N force at 0.5 mm stroke.

Under 6 milliseconds response time for 1mm stroke under no load conditions

Conical pole face allows increased stroke with minimal reduction in performance

### Coil Specifications

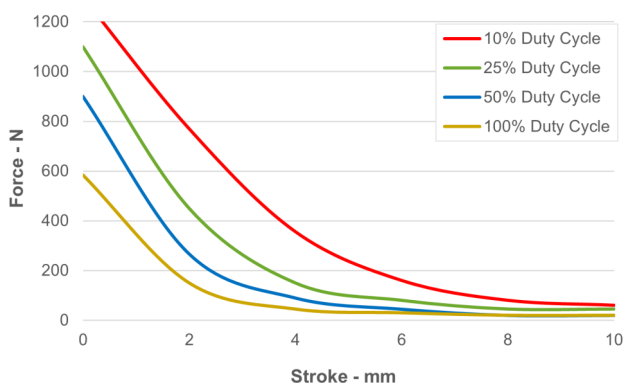
Maximum Duty Cycle	100%	50%	25%	10%
Maximum ON Time (seconds) when pulsed continuously	∞	80	38	16
Maximum ON Time (seconds) for single pulse	∞	138	50	18
Watts (@ 20° C)	35	70	140	350
Ampere Turns (@ 20° C)	1570	2230	3150	5000

**Coil Data**

awg. (0XX)	Resistance (@ 20°C)	# Turns	Nominal DC Voltage			
23	8.09	780	16.3	23.0	33.0	52.0
24	12.34	949	21.0	29.0	41.0	65.0
25	18.62	1148	26.0	37.0	52.0	83.0
26	30.84	1472	33.0	47.0	66.0	105.0
27	48.77	1854	41.0	59.0	83.0	132.0
28	81.14	2436	52.0	74.0	105.0	167.0
29	121.00	2944	65.0	92.0	130.0	206.0
30	190.00	3650	82.0	116.0	164.0	261.0
31	275.00	4175	103.0	147.0	208.0	329.0
32	440.00	5292	130.0	169.0	239.0	380.0
33	735.00	7000	165.0	234.0	331.0	525.0

### Performance Specifications

**Typical Starting Force @ 20°C**



NSF Controls reserves the right to amend specification without prior notice. (Rev 02/22) [www.nsfcontrols.co.uk](http://www.nsfcontrols.co.uk)

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