Size 100M–STA® Pull Tubular Solenoids — 26 mm Dia. x 52 mm

LINEAR Tubular

Part Number: 195226 - X XX

All products are RoHS Compliant

Coil AWG Number
(from performance chart below)

Plunger Configurations and anti-rotation flat on mounting
1 Flat face plunger without anti-rotation flat
2 60° plunger without anti-rotation flat
5 Flat face plunger with anti-rotation flat
6 60° plunger with anti-rotation flat

High Speed

Long Life

Performance

Maximum Duty Cycle	100%	50%	25%	10%
Maximum ON Time (sec) when pulsed continuously[1]	∞	360	32	8
Maximum ON Time (sec) for single pulse[2]	∞	470	120	32
Watts (@ 20°C)	10	20	40	100
Ampere Turns (@ 20°C)	1166	1649	2332	3688

Coil Data

awg (0XX)[3]	Resistance (@20°C)	# Turns[4]	VDC (Nom)	VDC (Nom)	VDC (Nom)	VDC (Nom)
23	1.96	536	4.4	6.3	8.9	14.0
24	2.69	600	5.2	7.3	10.4	16.4
25	4.89	840	7.0	9.9	14.0	22.0
26	8.70	1117	9.4	13.3	18.8	29.7
27	11.50	1260	10.7	15.2	21.0	34.0
28	19.20	1645	13.8	19.6	28.0	44.0
29	31.20	2104	17.7	25.0	35.0	56.0
30	49.60	2646	22.0	31.0	45.0	70.0
31	77.40	3280	28.0	39.0	56.0	88.0
32	119.00	4026	35.0	49.0	69.0	109.0
33	202.00	5317	45.0	64.0	90.0	142.0

[1] Continuously pulsed at stated watts and duty cycle

[2] Single pulse at stated watts (with coil at ambient room temperature 20°C)

[3] Other coil awg sizes available — please consult factory

[4] Reference number of turns

Specifications

Dielectric Strength	1000 VRMS
Recommended Minimum Heat Sink	Maximum watts dissipated by solenoid are based on an unrestricted flow of air at 20°C, with solenoid mounted on the equivalent of an aluminium plate measuring 102 mm square by 3.2 mm thick
Coil Resistance	±5% tolerance
Holding Force	Flat Face: 61.5 N @ 20°C 60°: 29.4 N @ 20°C
Weight	197.3 g
Plunger Weight	45.4 g

How to Order

Add the plunger configuration number and the coil awg number to the part number (for example: to order a unit with a 60° plunger rated for 21 VDC at 25% duty cycle, specify 195226-227.

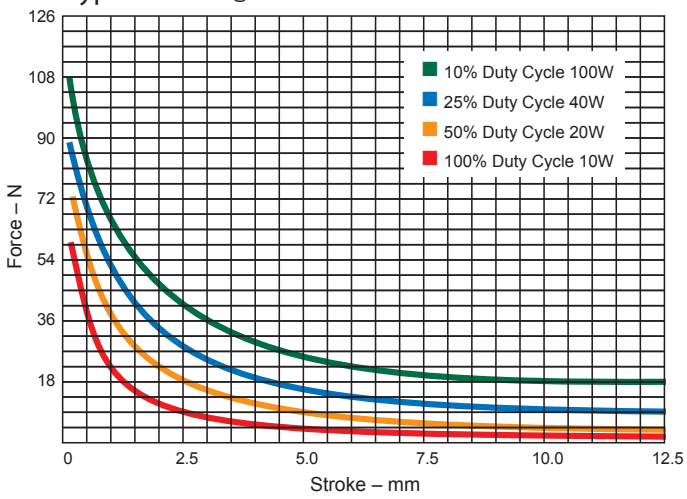
Please see www.johnsonelectric.com for our list of stock products available through distribution.

All specifications subject to change without notice.

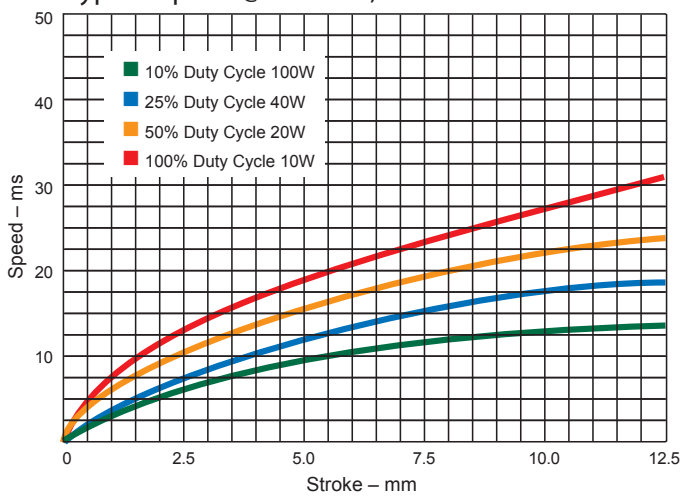
Size 100M–STA® Pull Tubular Solenoids — 26 mm Dia. x 52 mm

Flat Face Plunger

Typical Force @ 20°C

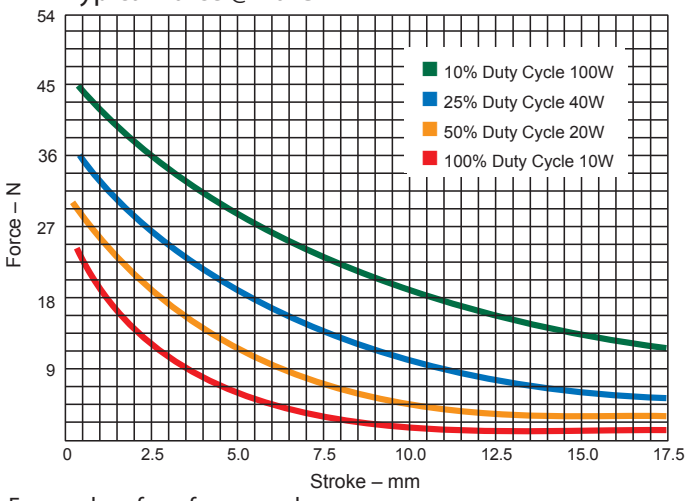


Typical Speed @ No Load, 20°C

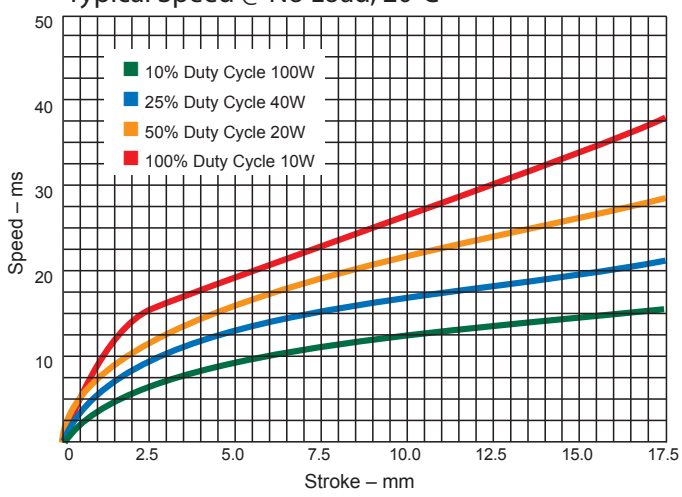


60° Plunger

Typical Force @ 20°C



Typical Speed @ No Load, 20°C

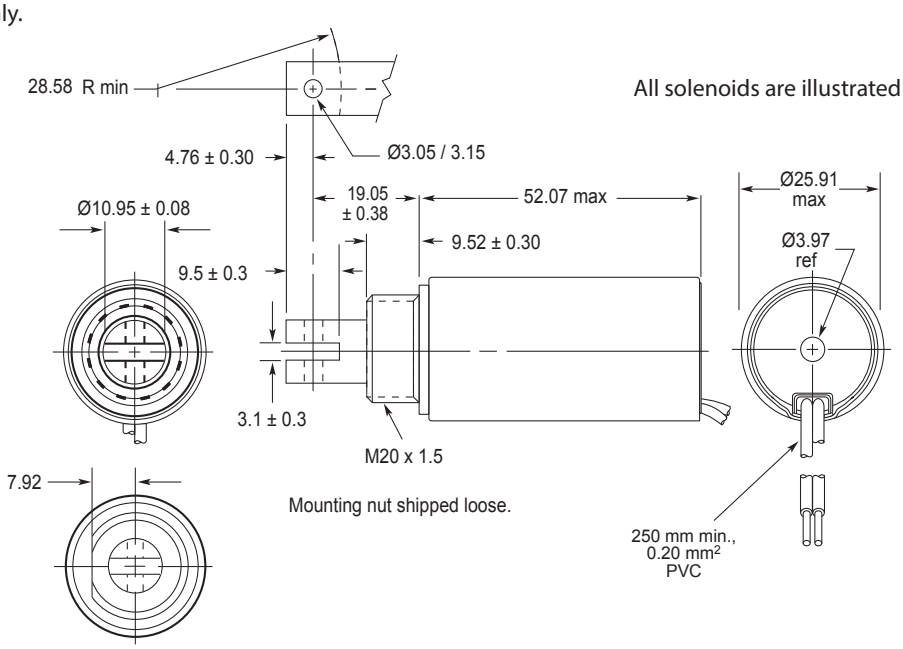


Force values for reference only.

Dimensions

mm

All solenoids are illustrated in energised state



Size 100M–STA® Push Tubular Solenoids — 26 mm Dia. x 52 mm

LINEAR Tubular

Part Number: 195227 - X XX

All products are RoHS Compliant

Coil AWG Number
(from performance chart below)

Plunger Configurations and anti-rotation flat on mounting
1 Flat face plunger without anti-rotation flat
2 60° plunger without anti-rotation flat
5 Flat face plunger with anti-rotation flat
6 60° plunger with anti-rotation flat

High Speed

Long Life

Performance

Maximum Duty Cycle	100%	50%	25%	10%
Maximum ON Time (sec) when pulsed continuously[1]	∞	360	32	8
Maximum ON Time (sec) for single pulse[2]	∞	470	120	32
Watts (@ 20°C)	10	20	40	100
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Coil Data

awg (0XX)[3]	Resistance (@20°C)	# Turns[4]	VDC (Nom)	VDC (Nom)	VDC (Nom)	VDC (Nom)
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25	4.89	840	7.0	9.9	14.0	22.0
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27	11.50	1260	10.7	15.2	21.0	34.0
28	19.20	1645	13.8	19.6	28.0	44.0
29	31.20	2104	17.7	25.0	35.0	56.0
30	49.60	2646	22.0	31.0	45.0	70.0
31	77.40	3280	28.0	39.0	56.0	88.0
32	119.00	4026	35.0	49.0	69.0	109.0
33	202.00	5317	45.0	64.0	90.0	142.0

[1] Continuously pulsed at stated watts and duty cycle

[2] Single pulse at stated watts (with coil at ambient room temperature 20°C)

[3] Other coil awg sizes available — please consult factory

[4] Reference number of turns

Specifications

Dielectric Strength	1000 VRMS
Recommended Minimum Heat Sink	Maximum watts dissipated by solenoid are based on an unrestricted flow of air at 20°C, with solenoid mounted on the equivalent of an aluminium plate measuring 102 mm square by 3.2 mm thick
Coil Resistance	±5% tolerance
Holding Force	Flat Face: 52.6 N @ 20°C 60°: 28.9 N @ 20°C
Weight	190.8 g
Plunger Weight	33.7 g

How to Order

Add the plunger configuration number and the coil awg number to the part number (for example: to order a unit with a 60° plunger rated for 21 VDC at 25% duty cycle, specify 195227-227.

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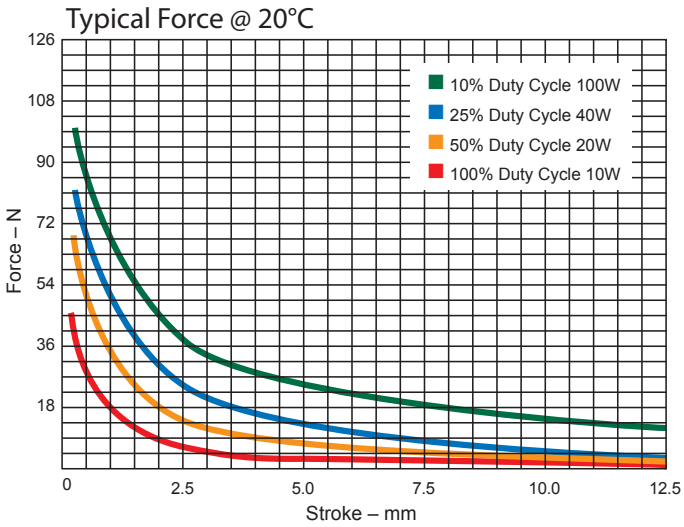
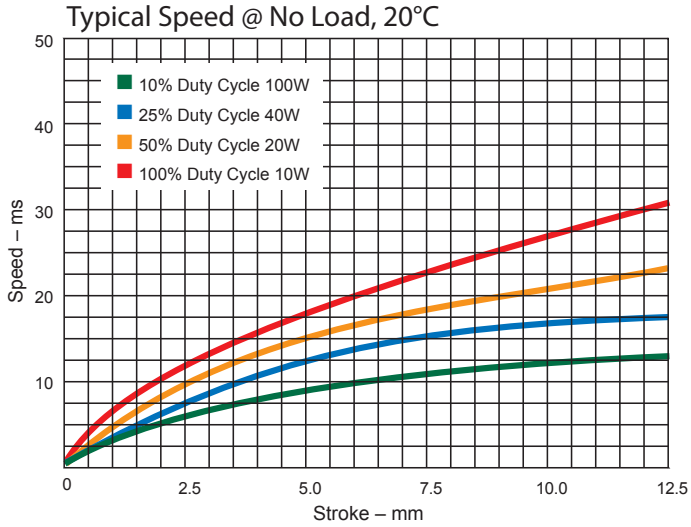
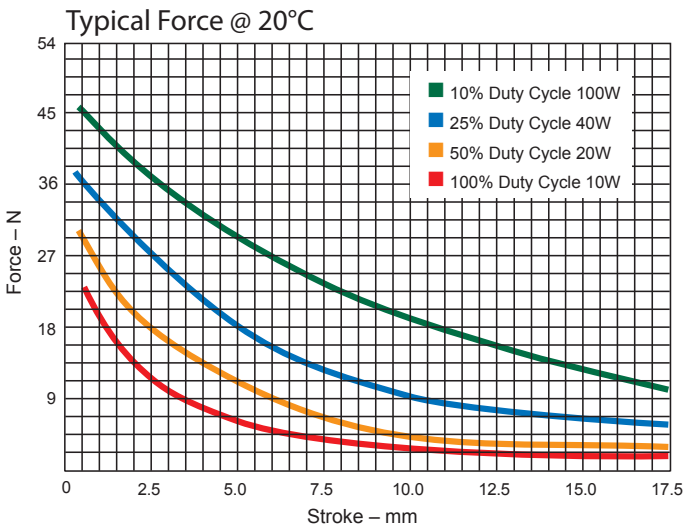
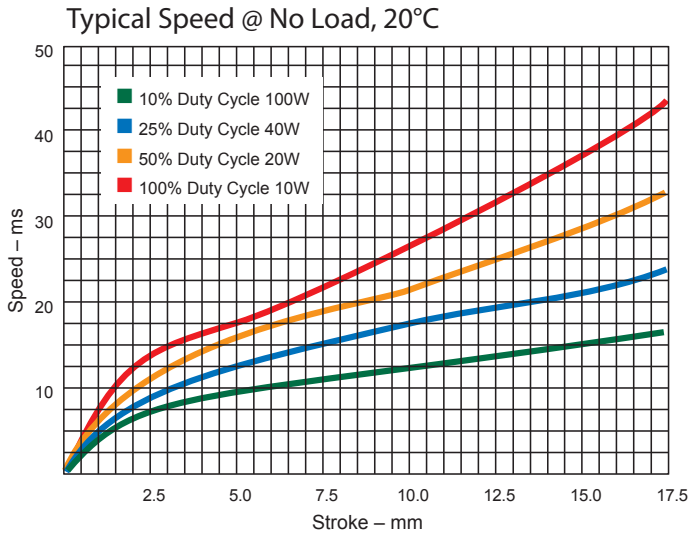
Flat Face Plunger





60° Plunger





Force values for reference only.

Dimensions

mm

All solenoids are illustrated in energised state