

Performance

Maximum Duty Cycle	100%	50%	25%	10%
Maximum ON Time (sec) when pulsed continuously ¹	∞	50	5	2
Maximum ON Time (sec) for single pulse ²	∞	140	30	8
Watts (@ 20°C)	4	8	16	40
, Ampere Turns (@ 20°C)	497	704	994	1573

	Coil Data					
awg (0XX) ³	Resistance (@20°C)	# Turns⁴	VDC Nom)	VDC (Nom)	VDC (Nom)	VDC (Nom)
27	1.43	306	2.4	3.4	4.8	7.6
28	1.95	342	2.8	3.9	5.6	8.8
29	3.84	508	3.9	5.5	7.8	12.4
30	5.29	572	4.6	6.5	9.2	14.5
31	9.56	795	6.2	8.8	12.4	19.6
32	16.54	1068	8.1	11.5	16.3	25.7
33	22.60	1194	9.5	13.4	19.0	30.0
34	37.41	1547	12.2	17.3	24.0	39.0
35	60.71	1976	15.6	22.0	31.0	49.0
36	96.19	2475	19.6	28.0	39.0	62.0
37	141.93	3060	23.8	33.7	47.6	75.3

Continuously pulsed at stated watts and duty cycle 1

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	500 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 51 mm square by 3.2 mm thick
Coil Resistance	±5% tolerance
Holding Force	Flat Face: 5.3 N @ 20°C 60°: 4.0 N @ 20°C
Weight	24.7 g
Plunger Weight	4.5 g

How to Order

Add the plunger configuration, anti-rotation flat number, and the coil awg number to the part number (for example: to order a unit with a 60° plunger configuration without an anti-rotation flat rated for 4.8 VDC at 25% duty cycle, specify 195222-227.

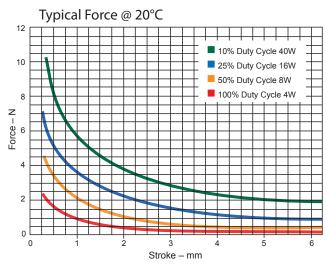
Please see www.johnsonelectric.com for our list of stock products available through distribution.

All specifications subject to change without notice.

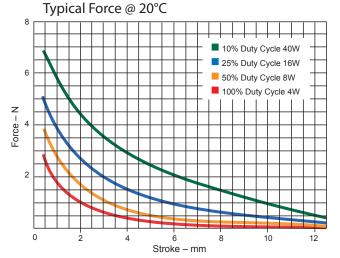
VDC Batter Powered

Size 51M–STA[®] Pull Tubular Solenoids — 13 mm Dia. x 27 mm

Flat Face Plunger

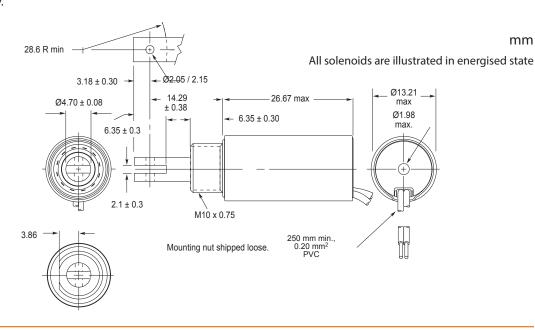






Force values for reference only.

Dimensions

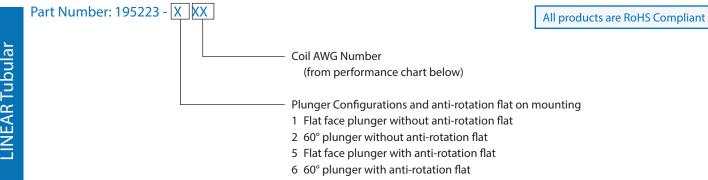


See 10% Duty Cycle 40W 10



Typical Speed @ No Load, 20°C 60 10% Duty Cycle 40W 50 25% Duty Cycle 16W 50% Duty Cycle 8W 40 100% Duty Cycle 4W Speed – ms 30 20 10 0 0 10 12 8 2 6

Stroke - mm



Performance

	- chommanee					
	Maximum Duty Cycle	100%	50%	25%	10%	
Y	Maximum ON Time (sec) when pulsed continuously ¹	∞	50	5	2	
1	Maximum ON Time (sec) for single pulse ²	~	140	30	8	
	Watts (@ 20°C)	4	8	16	40	
).	Ampere Turns (@ 20°C)	497	704	994	1573	

	Coil Data					
awg	Resistance	_ # ,	VDC	VDC	VDC	VDC
(0XX) ³	(@20°C)	Turns ⁴	(Nom)	(Nom)	(Nom)	(Nom)
27	1.43	306	2.4	3.4	4.8	7.6
28	1.95	342	2.8	3.9	5.6	8.8
29	3.84	508	3.9	5.5	7.8	12.4
30	5.29	572	4.6	6.5	9.2	14.5
31	9.56	795	6.2	8.8	12.4	19.6
32	16.54	1068	8.1	11.5	16.3	25.7
33	22.60	1194	9.5	13.4	19.0	30.0
34	37.41	1547	12.2	17.3	24.0	39.0
35	60.71	1976	15.6	22.0	31.0	49.0
36	96.19	2475	19.6	28.0	39.0	62.0
37	141.93	3060	23.8	33.7	47.6	75.3

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	500 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 51 mm square by 3.2 mm thick
Coil Resistance	±5% tolerance
Holding Force	Flat Face: 4.5 N @ 20°C 60°: 3.2 N @ 20°C
Weight	25.2 g
Plunger Weight	3.1 g

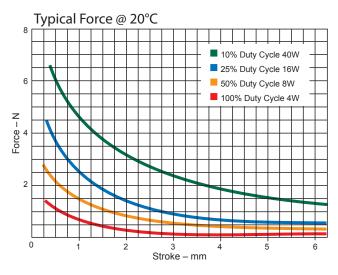
How to Order

Add the plunger configuration, anti-rotation flat number and the coil awg number to the part number (for example: to order a unit with a 60° plunger configuration without anti-rotation rated for 4.8 VDC at 25% duty cycle, specify 195223-227.

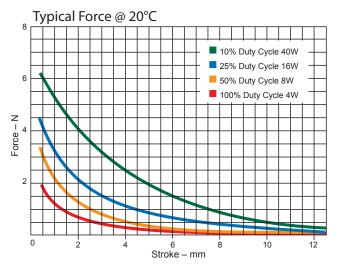
Please see www.johnsonelectric.com for our list of stock products available through distribution.

All specifications subject to change without notice.

Flat Face Plunger

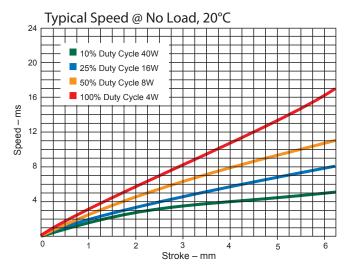


60° Plunger



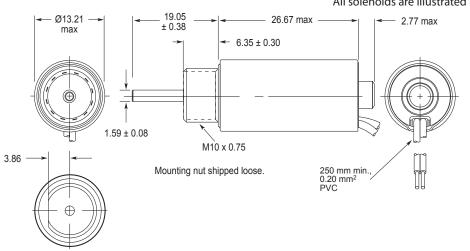
Force values for reference only.

Dimensions



Typical Speed @ No Load, 20°C 60 10% Duty Cycle 40W 50 25% Duty Cycle 16W 50% Duty Cycle 8W 100% Duty Cycle 4W 40 Speed - ms 30 20 10 0 10 12 2 6 8 4 Stroke - mm

mm All solenoids are illustrated in energised state



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Solenoids & Actuators category:

Click to view products by Saia-Burgess manufacturer:

Other Similar products are found below :

2-1617079-7 1-1617080-3 3-1617800-6 5-1617794-0 195225-229 A-76 A-62 A-1358 195226-225 24624-10 B14HD-L-254-B-4 B14HDP-253-B-4 B22M-253-M-36 C5-267-B-1 81519348 195224-229 195224-231 195223-233 282342-028 195223-234 13050-CSA 1335-CSA 1350-CSA 1369-CSA 1370-15-D 1380-15-D 195222-234 195222-237 195223-234 195223-237 195224-230 195224-233 195225-230 195225-233 195226-231 195227-228 195227-231 24124 282367-027 B14HD-253-B-4 1380-30-D 1370-30-D 13ST15 13ST25 195206-225 13050-BSP 3992 B11HD-254-B-3 B12-253-B-3 B14HD-254-B-4