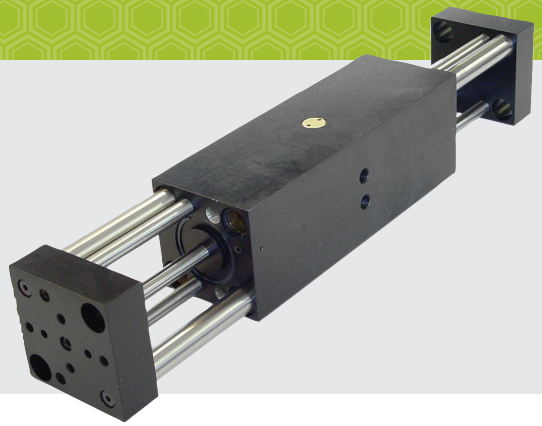
096-AGW-625-6 Parallel Gripper

Wide-Body, Synchronous/Non-Synchronous



Features and Benefits

- Ultra high gripping force to weight ratio due to four opposing independent pistons that direct power to the jaws.
- True parallel jaw motion for easy tooling.
- Units are permanently lubricated for non-lube air operation, allowing for compliance with OSHA regulations.
- Large jaw support shafts are guided through the full width of the main body.
- Proximity switches are available to monitor open and closed position of the jaws.
- The AGW Series is fully field repairable for cost savings and minimum down time.
- Non-synchronous versions allow the gripper's jaws to comply to the part's centerline versus the gripper's centerline.

Specifications

Design:	Parallel, Double Acting, Synchronized Jaws	
Stroke:	6 in	[152.4 mm]
Gripping Force @ 80 PSI Per Jaw [5.5 BAR]		
Closing:	130 lbs	[578 N]
Opening:	132 lbs	[587 N]
Time:		
Close:	0.3 sec	[0.3 sec]
Open:	0.3 sec	[0.3 sec]
Pressure Range:		
Low/High	20-120 PSI	[1.7-8 BAR]
Temperature Range:		
Low/High	-20˚/180˚F	[-28˚/80˚C]
Side Play:	± 0.001	[.03 mm]
Repeatability from Center:	± 0.002	[.06 mm]
Loading Capacity:	**Static**	**Dynamic**
Max Tensile **T**	1300 lbs [5700 N]	150 lbs [667 N]
Max Compressive **C**	1300 lbs [5700 N]	150 lbs [667 N]
Max Moment **Mx**	1100 in/lb [124 Nm]	120 in/lb [13.5 Nm]
Max Moment **My**	1500 in/lb [170 Nm]	130 in/lb [14.7Nm]
Max Moment **Mz**	1100 in/lb [124 Nm]	120 in/lb [13.5 Nm]
Material:	High Strength, Hard Coated aluminum bronze alloys, Steel	
Weight:	9.7 lbs	[4.4 kg]
Piston Diameter:	1.625 in	[41.3 mm]

January 2009 - PATENTED Made in the USA

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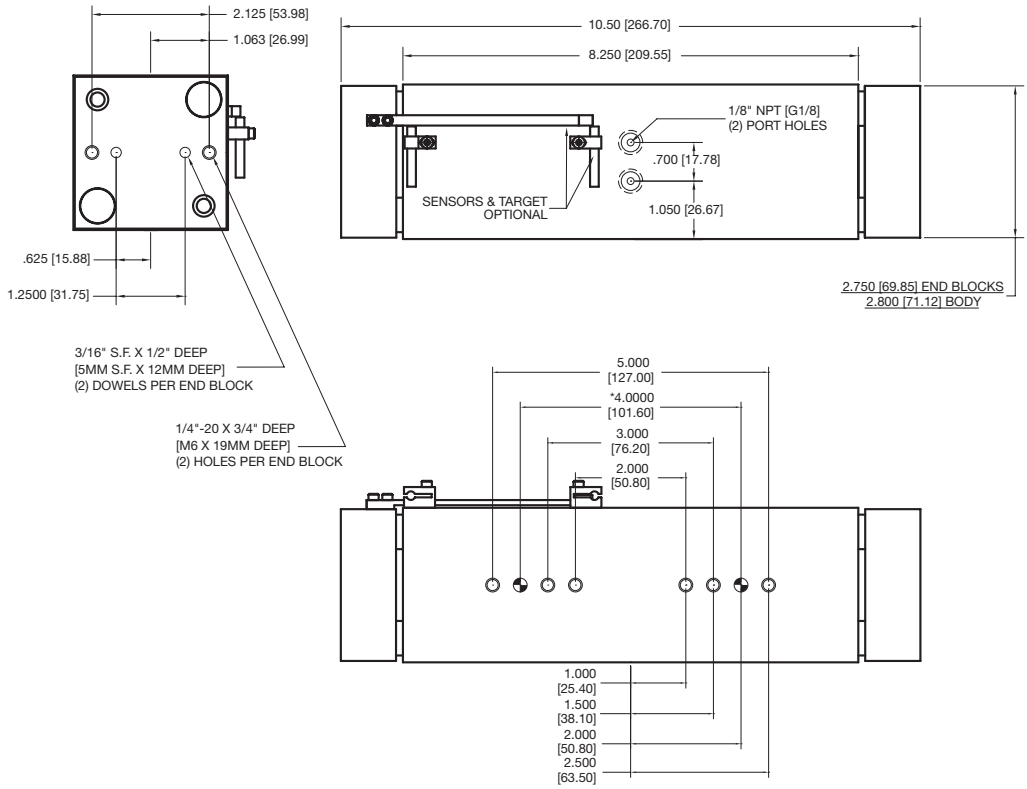
Engineering Data

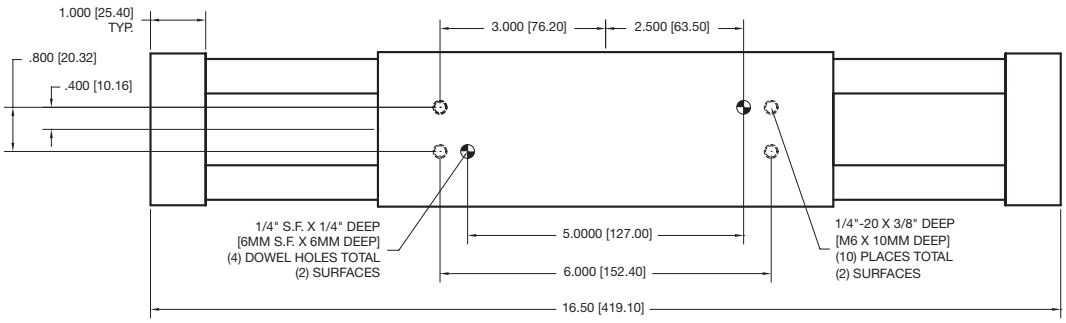


Unless noted, all tolerances are as indicated here:

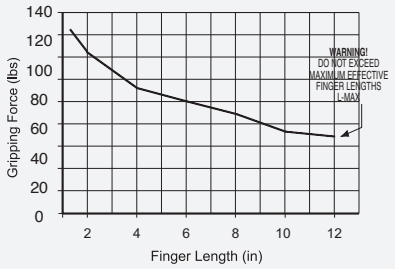
All Dowel Holes are SF (Slip Fit) Locational Tolerance ± .0005" [.013mm]

Metric Threads Course Pitch

Imperial: Inch	0.00 = ±.01
	0.000 = ±.005
	0.0000 = ±.0005
Metric: [mm]	[0.] = ±.25
	[0.0] = ±.13
	[0.00] = ±.013

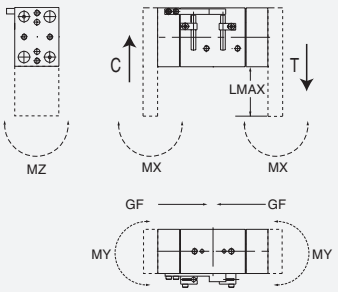


Holding Forces Chart



WARNING! Do not exceed tooling jaw length. See Chart above.

Loading Information



LOOK! More Technical specifications for sensors on "Sensors Accessories" page.

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