

New GPL Grippers Twice the Force – Half the Weight

The New GPL Series of parallel grippers represents a pinnacle in parallel gripper development. This GPL has not changed catalog dimensions but provides higher levels of closing force and lighter weight. This 5th generation ZAYTRAN product uses patented (US4591199) double helix technology. The double helix allows long strokes and high centering precision (± 0.001 inches, ± 0.025 mm). Tough materials and treatments are employed to assure long life in the harshest environments. The slides are heat treated and tempered to assure that they will continue to operate where typical grippers fail.

Borrowing from the MagnumTM Series the GPL employs a purge system that allows a chamber under the slides to be pressurized. This positive pressure ejects foreign materials such as grinding dust and welding slag. To make plumbing easy the grippers have open and close ports at either end as well as on the mounting side.

Sensors are easily added via an accessory kit and are easily positioned via a standard slot. This allows the grippers to be easily set up in complex automation applications. To facilitate the common requirement of Fail Safe operation a Fail Safe accessory is available. This device works the full length of the GPL's stroke and can be mounted to be fail safe in a grip closed or grip open application.



GPL-5 NEW STYLE

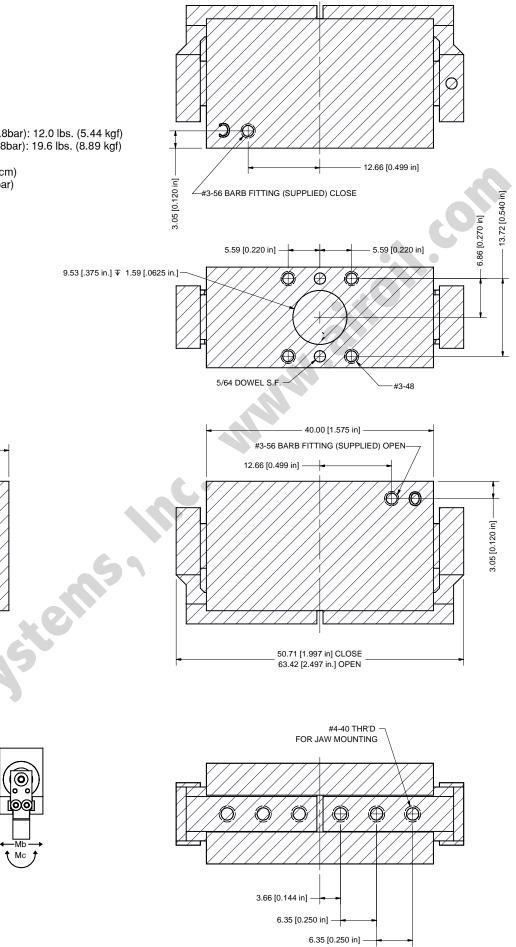
Stroke: 0.500 in. (12.7 mm) Stroke limit options available Gripping Force Per Jaw (Close) @ 100PSI (6.8bar): 12.0 lbs. (5.44 kgf) Gripping Force Per Jaw (Open) @ 100PSI (6.8bar): 19.6 lbs. (8.89 kgf) Approximate Weight: 2.01oz. (57 g) Operating Displacement: 0.1 cu. in. (1.63 cu. cm) Maximum Operating Pressure: 120 PSI (8.3 bar)

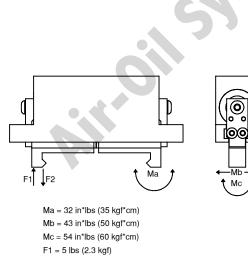
- All mounting holes 1-1/2 diameter mininum thread depth.

- Ports labeled "O" for open, "C" for close.

17.75 [0.699 in]

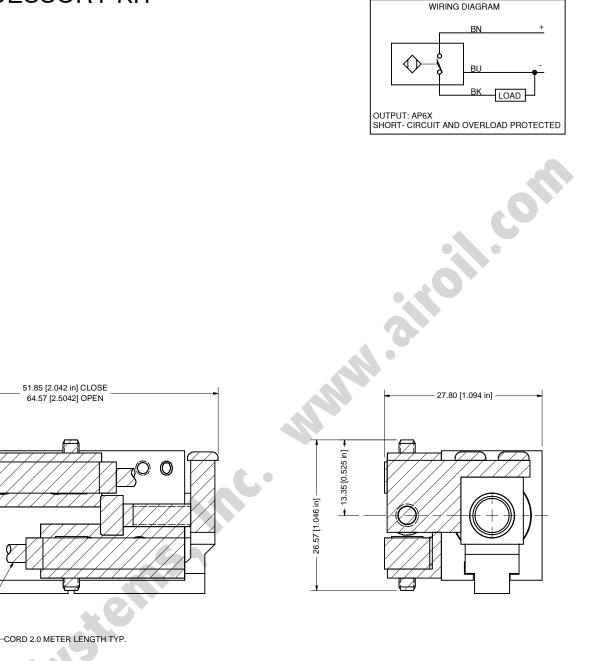
25.16 [0.991 in]





6.16 [0.243 in] -

All oil

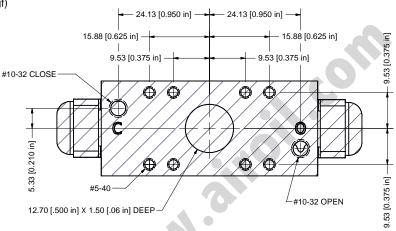


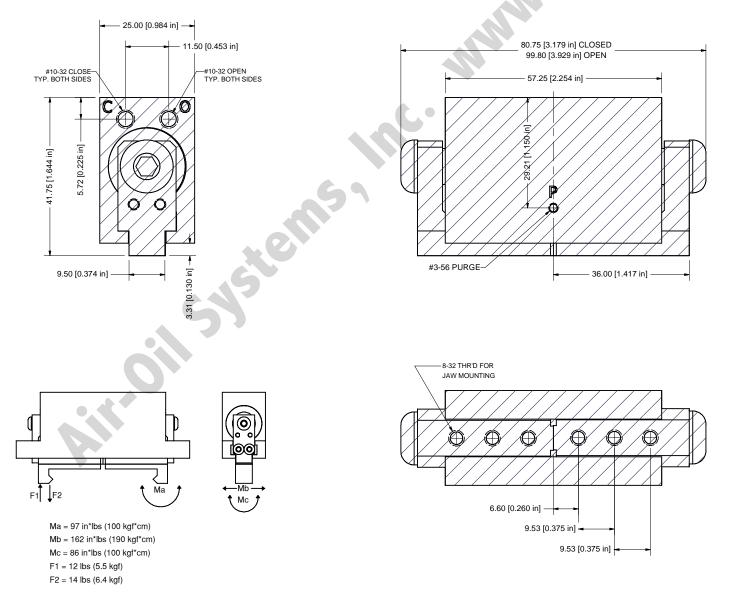
GPL-10 NEW STYLE

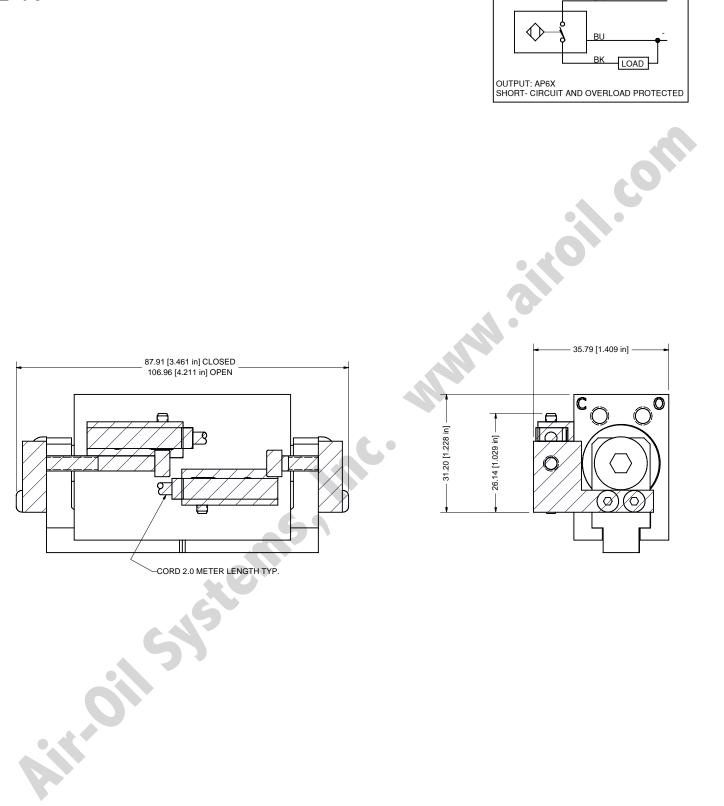
Stroke: 0.750 in. (19.1 mm) Stroke limit options available Gripping Force Per Jaw (Close) @ 100PSI (6.8bar): 26.2 lbs. (11.88 kgf) Gripping Force Per Jaw (Open) @ 100PSI (6.8bar): 37.2 lbs. (16.87 kgf) Approximate Weight: 5.7oz. (162 g) Operating Displacement: .280 cu. in. (4.59 cu. cm) Maximum Operating Pressure: 120 PSI (8.3 bar) Recommended purge pressure: 1/2 of operating pressure

- All mounting holes 1-1/2 diameter mininum thread depth.

- Ports labeled "O" for open, "C" for close and "P" for purge.







WIRING DIAGRAM

BN

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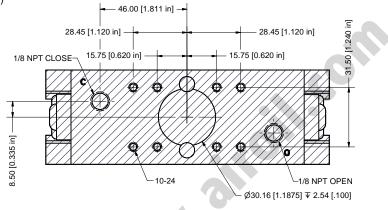
GPL-40 NEW VERSION

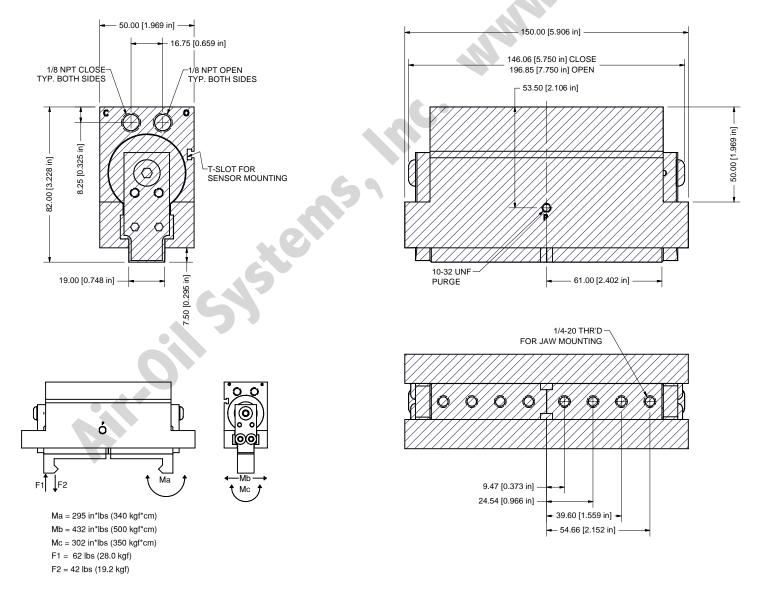
Stroke: 2.00 in. (50.8 mm) Stroke limit options available Gripping Force Per Jaw (Close) @ 100PSI (6.8bar): 132 lbs. (59.83 kgf) Gripping Force Per Jaw (Open) @ 100PSI (6.8bar): 176 lbs. (79.83 kgf) Approximate Weight: 2.8 lbs. (1270 g) Operating Displacement: 3.534 cu. in. (57.91 cu. cm) Maximum Operating Pressure: 120 PSI (8.3 bar) Recommended Purge Pressure: 1/2 of operating pressure

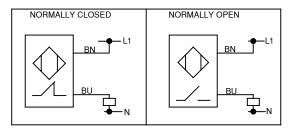
- All mounting holes 1-1/2 diameter mininum thread depth.

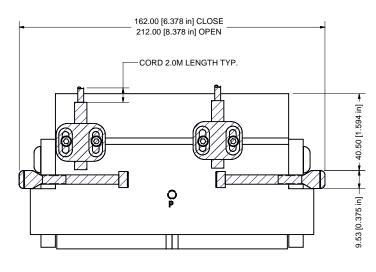
-Jaw mounting holes are equipped with stainless steel thread inserts.

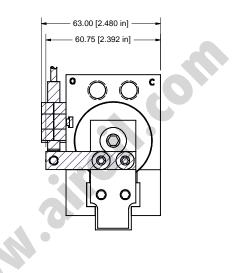
- Ports labeled "O" for open, "C" for close and "P" for purge.





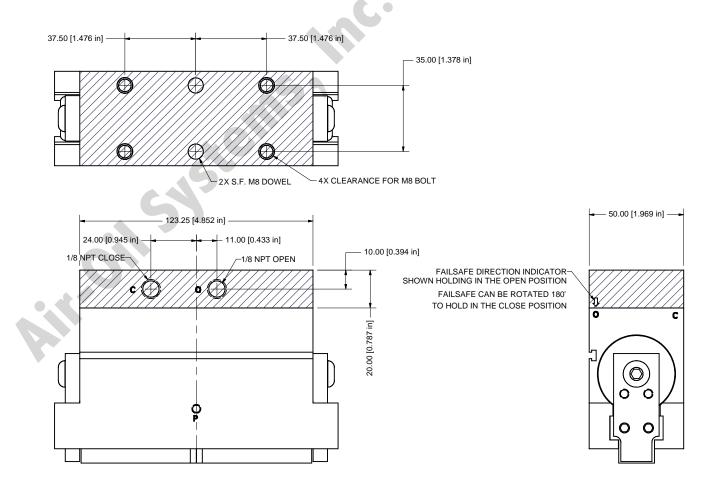




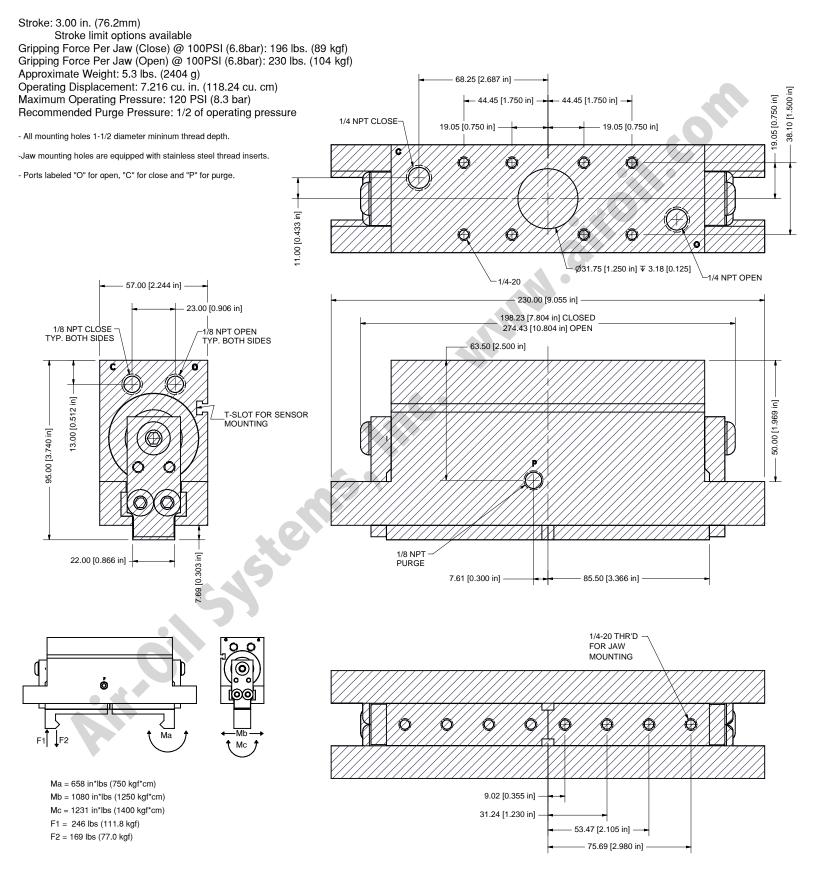


FAILSAFE ACCESSORY KIT

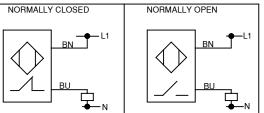
- FAILSAFE IS SHOWN HOLDING IN THE OPEN DIRECTION, HOWEVER THE FAILSAFE CAN BE ROTATED 180' TO HOLD IN THE CLOSE DIRECTION

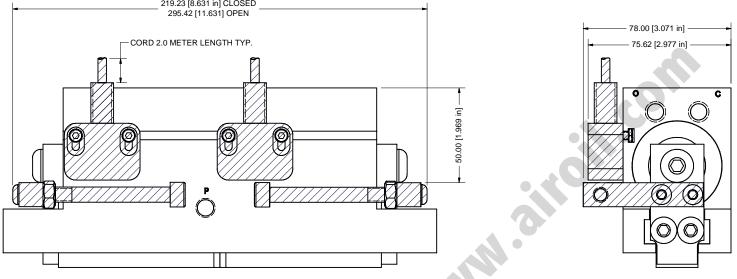


GPL-100 NEW VERSION



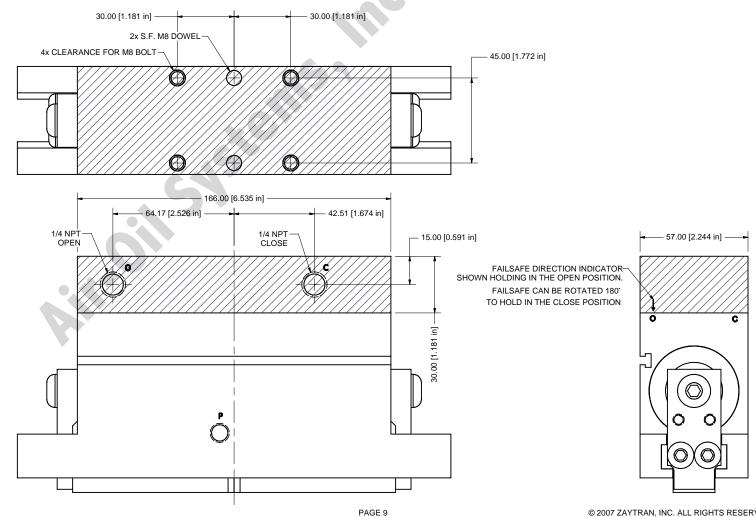
SENSING ACCESSORY KIT NORMALLY CLOSED GPL-100 - L1 BN 219.23 [8.631 in] CLOSED





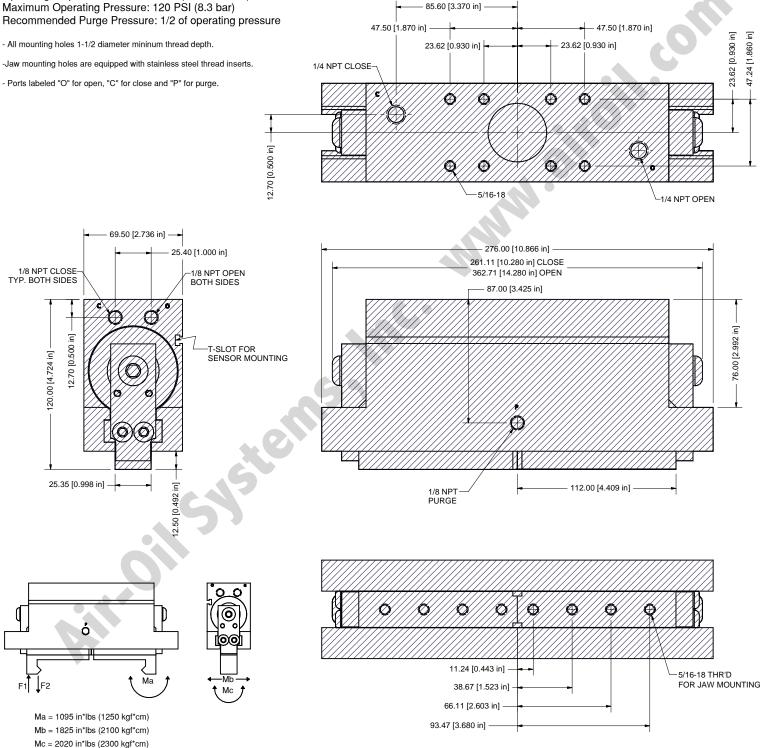
FAILSAFE ACCESSORY KIT

- FAILSAFE IS SHOWN HOLDING IN THE OPEN DIRECTION, HOWEVER THE FAILSAFE CAN BE ROTATED 180' TO HOLD IN THE CLOSE DIRECTION

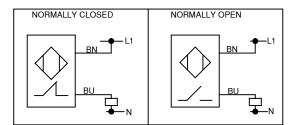


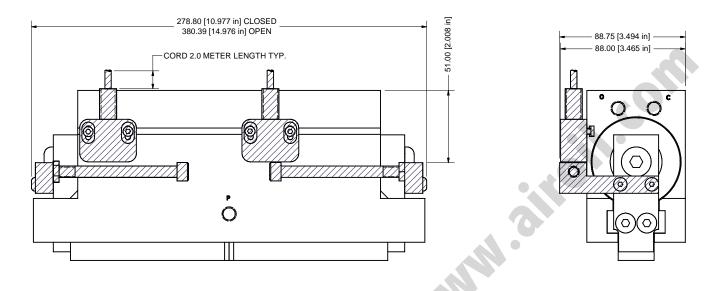
GPL-200 NEW VERSION

Stroke: 4.00 in. (101.6 mm) Stroke limit options available Gripping Force Per Jaw (Close) @ 100PSI (6.8bar): 364.0 lbs. (165.1 kgf) Gripping Force Per Jaw (Open) @ 100PSI (6.8bar): 443.0 lbs. (200.9 kgf) Approximate Weight: 9.8 lbs. (4445 g) Operating Displacement: 17.7 cu. in. (290.1 cu. cm) Maximum Operating Pressure: 120 PSI (8.3 bar) Becommended Purge Pressure: 1/2 of operating pressure



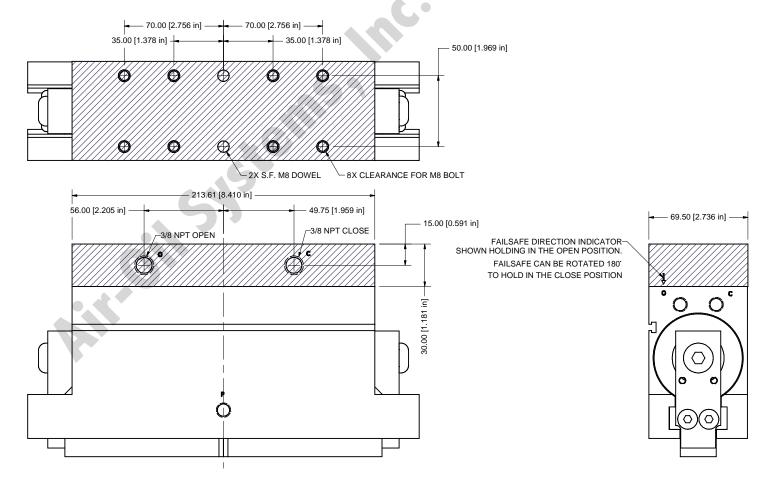
F1 = 750 lbs (340.9 kgf) F2 = 556 lbs (252.5 kgf)

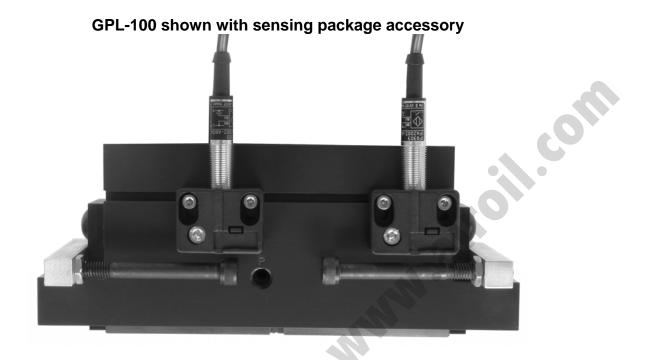




FAILSAFE ACCESSORY KIT

- FAILSAFE IS SHOWN HOLDING IN THE OPEN DIRECTION, HOWEVER THE FAILSAFE CAN BE ROTATED 180' TO HOLD IN THE CLOSE DIRECTION





GPL-100 shown with Fail Safe Accessory

