

#### **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  $5^{th}$  generation ZAYTRAN product uses patented (US4591199) double helix technology. The double helix allows long strokes and high centering precision ( $\pm 0.001$  inches,  $\pm 0.025$ 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 Magnum<sup>TM</sup> 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.



### GPL-40

#### **NEW VERSION**

Stroke: 2.00 in. (50.8 mm)

Stroke limit options available

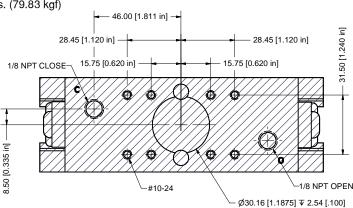
Gripping Force Per Jaw (Close) @ 100PSI (6.8bar): 132 lbs. (59.83 kgf) Gripping Force Per Jaw (Open) @ 100PSI (6.8bar): 176 lbs. (79.83 kgf)

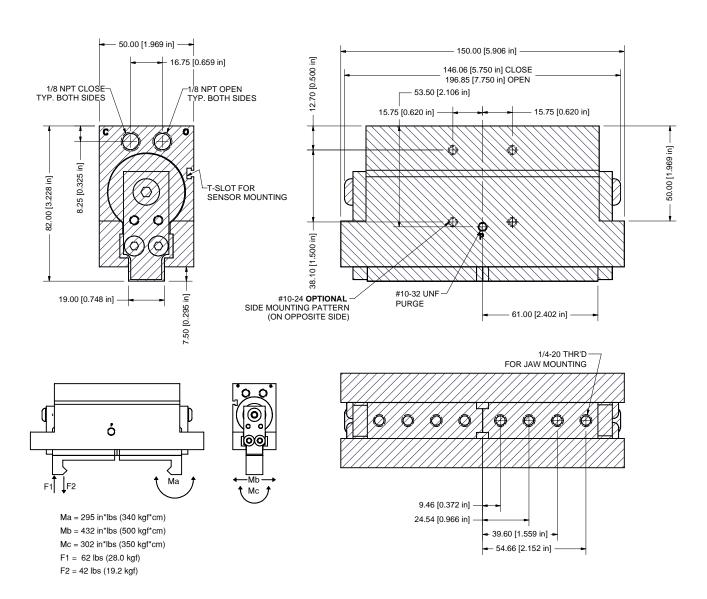
Approximate Weight: 2.8 lbs. (1270 g)

Operating Displacement: 3.534 cu. in. (57.91 cu. cm) Maximum Operating Pressure: 120 PSI (8.3 bar)

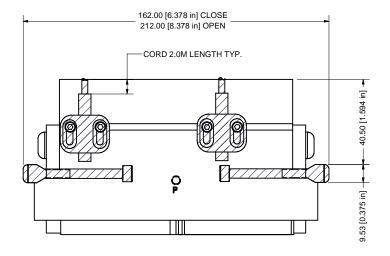
Recommended Purge Pressure: 1/2 of operating pressure

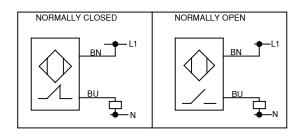
- All mounting holes 1-1/2 diameter mininum thread depth.
- -Jaw mounting holes are equipped with stainless steel thread inserts.
- Ports labeled "O" for open, "C" for close and "P" for purge.

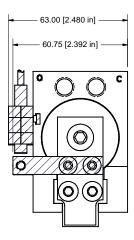




## SENSING ACCESSORY KIT GPL-40





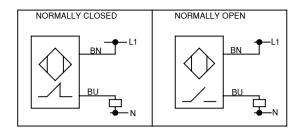


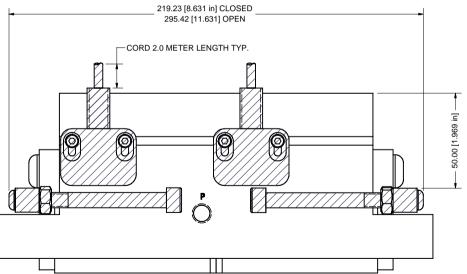
### **GPL-100**

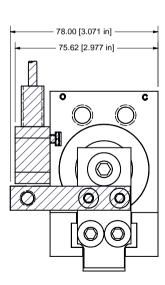
#### **NEW VERSION**

Stroke: 3.00 in. (76.2mm) Stroke limit options available Gripping Force Per Jaw (Close) @ 100PSI (6.8bar): 196 lbs. (89 kgf) Gripping Force Per Jaw (Open) @ 100PSI (6.8bar): 230 lbs. (104 kgf) Approximate Weight: 5.3 lbs. (2404 g) 68.25 [2.687 in] -Operating Displacement: 7.216 cu. in. (118.24 cu. cm) 19.05 [0.750 in] Maximum Operating Pressure: 120 PSI (8.3 bar) - 44.45 [1.750 in] - 44.45 [1.750 in] -Recommended Purge Pressure: 1/2 of operating pressure 19.05 [0.750 in] -19.05 [0.750 in] 1/4 NPT CLOSE-- All mounting holes 1-1/2 diameter mininum thread depth. -Jaw mounting holes are equipped with stainless steel thread inserts. Φ - Ports labeled "O" for open, "C" for close and "P" for purge. 11.00 [0.433 in] ø Ø31.75 [1.250 in] ▼ 3.18 [0.125] -1/4 NPT OPEN 1/4-20 — 57.00 [2.244 in] — 230.00 [9.055 in] 198.23 [7.804 in] CLOSED 274.43 [10.804 in] OPEN 23.00 [0.906 in] 1/8 NPT CLOSE 6.35 [0.250 in] 1/8 NPT OPEN TYP. BOTH SIDES 63.50 [2.500 in] TYP, BOTH SIDES - 53.98 [2.125 in] 53.98 [2.125 in] 13.00 [0.512 in] T-SLOT FOR 50.00 [1.969 in] SENSOR MOUNTING 59.85 [2.750 in] 95.00 [3.740 in] 1/4-20 **OPTIONAL** SIDE MOUNTING (ON OPOSITE SIDE) 1/8 NPT 7.69 [0.303 in] 22.00 [0.866 in] 7.61 [0.300 in] 85.50 [3.366 in] 1/4-20 THR'D FOR JAW MOUNTING **(00**) Мс Ma = 658 in\*lbs (750 kgf\*cm) Mb = 1080 in\*lbs (1250 kgf\*cm) 9.02 [0.355 in] Mc = 1231 in\*lbs (1400 kgf\*cm) F1 = 246 lbs (111.8 kgf) 31.24 [1.230 in] F2 = 169 lbs (77.0 kgf) - 53.47 [2.105 in] -75.69 [2.980 in]

## SENSING ACCESSORY KIT GPL-100







### **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)

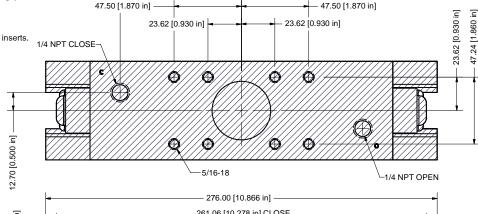
Approximate Weight: 9.8 lbs. (4445 g)

Operating Displacement: 17.7 cu. in. (290.1 cu. cm)
Maximum Operating Pressure: 120 PSI (8.3 bar)
Recommended Purge Pressure: 1/2 of operating pressure

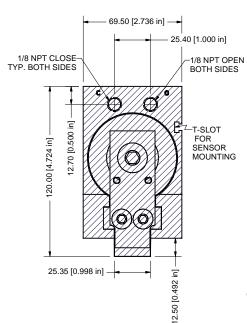
- All mounting holes 1-1/2 diameter mininum thread depth.

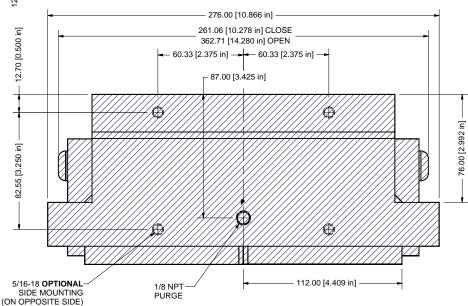
-Jaw mounting holes are equipped with stainless steel thread inserts.

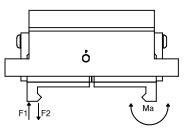
- Ports labeled "O" for open, "C" for close and "P" for purge.



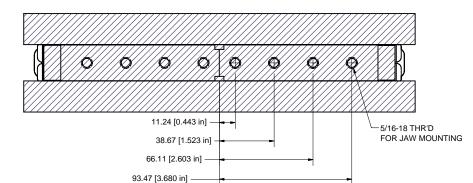
85.60 [3.370 in]







Mb Mc



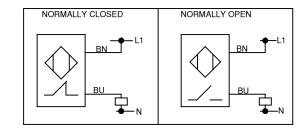
Ma = 1095 in\*lbs (1250 kgf\*cm) Mb = 1825 in\*lbs (2100 kgf\*cm)

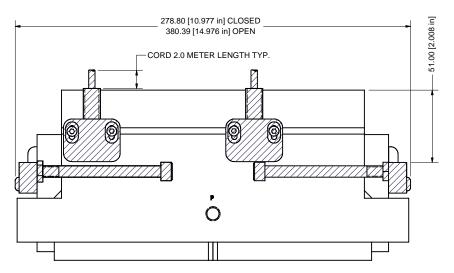
Mc = 2020 in\*lbs (2300 kgf\*cm)

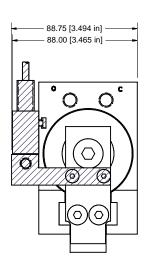
F1 = 750 lbs (340.9 kgf)

F2 = 556 lbs (252.5 kgf)

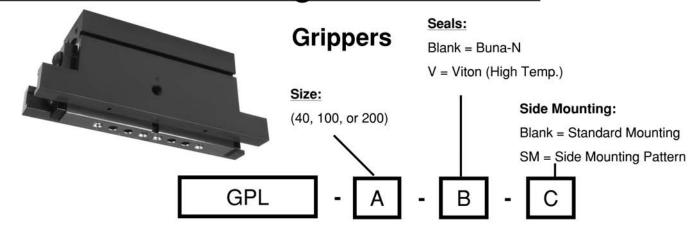
## SENSING ACCESSORY KIT GPL-200







# GPL Ordering Information

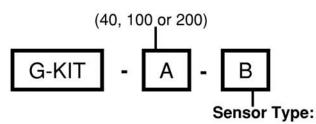


Example: GPL-40-V

GPL Type Gripper, 40 Size, Viton Seals, No Side Mounting Pattern



## Sensing Kits



12mm HWO = Hardware Only for 12mm barrel prox. sensor

6.5mm HWO = Hardware Only for 6.5mm barrel prox. sensor

DC SINK = DC Sinking Sensor

DC SOUR = DC Sourcing Sensor

AC NO = AC Normally Open Sensor

AC NC = AC Normally Closed Sensor

Example: G-KIT-200-DC SOUR

Sensor Kit for a GPL-200, with a DC Sourcing Sensor