

GNY TANK-TRUCK BOTTOM LOADER PANTOGRAPH

MODEL: GNY-TT-PGBL-4-3-10F



Bottom Loader Pantograph is an ultimate Aviation Refueling equipment. It is mainly used for refueling the tank-trucks without the use of a fueling hose. The fueling operation can be done with ease, economically, maintenance-free and with the high flow rate. It is designed to be coupled to a tank-truck with heights adjustable from 12 to 55 inches above ground level.

Bottom Loader Pantograph Assembly all metal consists of main hard pipe of two or three sections, plus one connecting section and fueling-end section with total five Swivel joint including light-weight non-lubricated swivel joints with fueling nozzle.

Bottom Loader Pantograph included with Long Radius Elbows, Flanges, Balancing Assy. (Gas spring mechanical balance) with handle, Supporting Structure, Vent, Sampling and Drain Assy. with valves and Parking Latches.

- GNY Pantograph Swivel joint, Non-Lubricated, FULL BORE, with total four hardened bearings (two ball and two rollers), four Viton® seals of main seal, O-ring, two built-in O-rings seals adjoining flanges, with three years performance warrantee, considering warrantee seal is NOT broken. Electrically Conductive without external bridges.
- GNY Pantograph Non-lubricated Swivel joint is specially designed to refuel Aviation fuel.
- The overall electrical resistance between the flanged end and the pressure fueling nozzle is not exceed 1 kilo ohm. Grounding straps across swivel joints are not included.
- Design to fuel at 600 GPM (size: 4") at nozzle-ends with 55 psi. set-up
- The GNY Fueling Pantographs are approved for all fuel servicing operations by US Air Force AFSEA team. Approved is included in technical order T.O. 00-25-172, ground servicing of Aircraft and static grounding/bonding. Technical specifications as per article UFGS-33 52 43.12 (August 2018).

Technical Specifications:

Piping Sections	3" Diameter (≈80 mm) and 4" Diameter (≈100 mm), Total length: 10 ft. (3 meter)
Flow Rates	Up to 600 GPM
Working Pressure	Up to 150 PSI
Swivel Joints (Non-lubricated and Maintenance free)	4" x 150 lbs. built-in flange-ends. Unit weight 35 lbs. (D2000-4-PGSJ) 4" with special TTMA flanged ends. Unit weight 18 lbs. (D2000-4-PGSJ-T) 3" X 150 lbs. built-in flange-ends. Unit weight 22 lbs. (D2000-3-PGSJ) 3" with special TTMA flanged ends. Unit weight 11 lbs. (D2000-3-PGSJ-T)
Pressure Fueling Nozzle	Military D-1/D-2 Conf. with Hose-End Regulator.

Materials: (Model: GNY-TT-PGBL-4-3-10F)

Pipe, Elbows and Flanges	Stainless Steel 304L
Sealing	Viton® (Fluorocarbon)
Balancing System	Stainless Steel 304L
Swivel Joint	Stainless Steel 316L
Parking Latch	Stainless Steel 304L
Sampling, Drains and Vent	Stainless Steel 304L
Supporting Structure	Carbon Steel Epoxy Coated
Nuts and Bolts	Stainless Steel Self Locking

Optional features as per requirement:

- Pressure Gauges, Stop Cock, Static Grounding Reel and Dead-man Control Assy.

Testing and other information:

- All welding by qualified welders.
- Hydro-static test: A complete unit will be Hydro tested at 200 psi or as required.
- Quality Control Certificate from QA/QC inspector witnessing, factory assembled and sealed GNY Swivel joints with Hydro-stated at 200 psi. Quality certificates with performance guarantee are provided.
- All 3" Model: GNY-TT-PGBL-3-10F, 4" Model: GNY-TT-PGBL-4-10F and 4"X3" Model: GNY-TT-PGBL-4-3-10F are available.
- All units are supplied fully assembled, ready to use.
- In the stored position, the Pantograph is folded up and drawn in to save space. The connecting section and the dispensing section must be locked to the main sections of pantograph in the stored position.
- Approx. Gross Weight: 1800 LBS. (1500 LBS. Unit Weight)
- Shipping Box Size: 78"L X 48"W X 48"H (For Model: GNY-TT-PGBL-4-3-10F)
- Variations to the standard design as per requirements are available.
- **Project Completed- FB1801:** Tank-Truck Bottom Loader Pantograph, fixed Installation....client: AFCEC
Descriptions: Qty. 2) 3" section of total 10 feet open length...year 2019
- **FB1811:** Tank-Truck Bottom Loader Pantograph, fixed Installation....client: US Base Middle-East,
Descriptions: Qty.2) 4"x3" section of total 10 feet open length....year 2020



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