

GNY AVIATION REFUELING PANTOGRAPH



Wide Range Pantograph: GNY-PG4-3-50F

High Reach Pantograph: GNY-PG4-18F

List of GNY Models available:

- 1) **Wide Range Pantograph**, Movable, Model: GNY-PG4-3-50F
- 2) **High Reach Scissor Lift Pantograph**, Movable, Model: GNY-PG4-18F
- 3) **Tank-Truck Bottom Loader Pantograph**, Fixed installation, Model: GNY-TT-PG4-3-10F
- 4) **Tank-Truck Top Loader Jet-Fueling Pantograph**, Fixed installation, Model: GNY-TLA-SST-PG4
- 5) **Fueling Pits Pantograph Bottom Loader**, Fixed installation
- 6) **Shelter Pantograph Assembly with fueling hard pipe end**, Fixed installation, Model: GNY-PG3-3-100

GNY unique Pantograph Non-Lubricated Swivel joint, 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.

GNY Non-lubricated and maintenance free Pantograph Swivel Joint are available in FOUR different models:

- 4" x 150 lbs. built-in flange-ends. Unit weight 35 lbs., Part No.: D2000-4-PGSJ
- 4" with special TTMA flanged ends. Unit weight 18 lbs., Part No.: D2000-4-PGSJ-T
- 3" X 150 lbs. built-in flange-ends. Unit weight 22 lbs., Part No.: D2000-3-PGSJ
- 3" with special TTMA flanged ends. Unit weight 11 lbs., Part No.: D2000-3-PGSJ-T

The GNY Fueling Pantographs are approved for all fuel servicing operations by US Air Force AFSSEA team. Approved is included in technical order T.O. 00-25-172, ground servicing of Aircraft and static grounding/bonding. Available in size: 3", 4" and 4"x3"

GNY Aviation Refueling Pantograph Features:

GNY Fueling Pantographs consist of mainly hard pipe of two, three or four sections and additional Hydrant-end section (as per requirement) and Fueling-end section of hard pipe with swivel joints including compact and light-weight non-lubricated swivel joint with fueling nozzle. No hose is used at Fueling-end; it's optional.

Pantograph included with Long Radius Elbows, Flanges, Supporting Structures, Vent, Sampling and Drain Assembly with Valves, Pipe-sectional locking Stainless Steel Chains, Coupling-hooks, Bolts with Nylon Locknuts and SST Gas Spring Mechanical Balance for easy balancing of Fueling-end section.

Some of the Models included with Hydraulic Tank with Hand Pump Assembly, Pressure Equalizing Tank with Pressure Relief Valve Assembly, Venturi with Pressure Gauge, Stop Cock, Grounding Cable Reels, Hydrant Coupler Storage Tray, SPR Inlet and Butterfly Valve.

Heavy Duty Aluminum construction TOW bar for easy and safe handling of pantograph by 5 MPH tow speed.

Design to fuel at 600 GPM (size: 4") at nozzle-ends with 55 psi. set-up.

12" Diameter heavy duty casters with locking and straight going feature as required, installed with Aluminum heavy-duty running gear channels with built-in stops to avoid collusion with adjoining pipe sections.

Positive display Flow Meter with 360° Turntable Swivel Mount reads in US Gallons.

Military standard Refueling Nozzle with Hose-End Regulator, Single Point Refueling, Dry Break Quick Disconnect and Strainer unit.

Optional equipment for Pantograph fueling:

- Fueling Control Valve , depends on client's hydrant system and fueling control set-up.
- Filtration System, depends on client's hydrant system and fueling control set-up.
- Dead-man Control Assembly and Surge Suppressors.

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.

Testing and other information:

Testing: Air, Hydro-static test.

Hydro-static test: A complete unit is 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 welding by qualified welders.

All units are supplied fully assembled, ready to use.

Variations to the standard design as per requirements are available.

Pantograph packed in a wooden box/skid for Air/Sea shipment.

Each unit supplied with "Technical Booklet", includes unpacking instructions, operational instructions for initial set-up and fueling servicing operation, as built drawings, major product catalogs with maintenance instructions and troubleshooting, when needed. Quality certificate and performance guarantee certificate with few photos.

MADE IN USA



GNV Job Completed for:

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

FB1801: Tank-Truck Bottom Loader Pantograph, fixed Installation....client: AFCEC Descriptions: Qty. 2) 3" section of total 10 feet open length...year 2019

FB1788: Wide Range Pantograph, Movable.....client: Singapore Air Force, Descriptions: Qty. 1) 4" x 3 section of 14 feet total 42 feet open-length plus 5 feet of fueling end and 5 feet of Hydrant end with 12" Caster assembly....year 2019.

FB1781: Wide Range Pantograph, Movable.....Client: US Navy, Japan, Descriptions: Qty. 4) 4" x 3 section of 17 feet total 50 feet open-length plus 5 feet of fueling end and 5 feet of Hydrant end with 12" Caster assembly....year 2019.

FB1781: High Reach Scissor Lift Pantograph, Movable.....client: US Navy, Japan, Descriptions: Qty. 2) 4" x 18 feet total open height, including 5 feet of fueling end hard piping on Alum. Hand operated pump for lifting, connecting to wide range pantograph, with 12" Caster assembly....year 2019.

FB1777: Wide Range Pantograph, Movable.....Client: US Navy, Spain, Descriptions: Qty. 2) 4" x 3 section of 25 feet total 75 feet open-length plus 5 feet of fueling end and 5 feet of Hydrant end with 12" Caster assembly....year 2019.

FB1769: Tank-Truck Top Loader Jet-fueling Pantograph, fixed Installation: client: US Coast guard, VA, USA: Descriptions: Qty. 5) 4" x Two sections of 4 feet and 6 feet total 10 feet open-length with torsion compression spring balance assembly..year 2019.

FB1743: Shelter fixed Pantograph Assy. with fueling Hose-end section, fix installation: client: Tinker Air Force Base, OK, USA. Descriptions: Qty. 1) 3" x 4 section of 25 feet each, total 100 feet open-length plus 10 feet of fueling hose end on 8" Caster assembly....year 2018.

FB1388: Wide Range Pantograph, Movable.....client: Singapore Air Force, Descriptions: Qty. 2) 3" x 3 section of 20 feet total 60 feet open-length plus 5 feet of fueling end and 5 feet of Hydrant end with 12" Caster assembly....year 2009.

FB1202: Tank-Truck Bottom Loader Pantograph, fixed Installation: client US Navy, Iceland...year 2009.

Prepared on January 2020

