



— SERIES — **850GF**

Refueling/Defueling Pantograph



- **Maximum Protection Against Environmental Leakage**
- **Higher Flow Rates and Shorter Refueling Times**
- **Stainless Steel Piping**
- **All Stainless Steel Non-Lubricated Swivel Joints**
- **Heavy Duty Wheels and Casters**
- **Galvanized Steel Support Structures**
- **Spring Tension Counterbalances**
- **Low-Profile and High-Lift Designs Available**

The Cla-Val Model 850AF Pantograph is the ultimate aviation fueling device. Hard-piped to eliminate the liabilities associated with rubber hose, the Cla-Val 850AF Pantograph sets the industry standard for maintenance-free operation, higher flow rates, and design versatility in refueling systems.

The structural integrity of the Cla-Val 850AF Pantograph ensures maximum service life and maintenance-free operation. It is constructed of stainless steel piping and valves connected by rugged, multi-axis swivel joints for easy

maneuvering. These high-performance swivels require no lubrication and retain their integrity during the most demanding applications, including towing the pantograph from site to site.

The Cla-Val 850AF Pantograph achieves higher flow rates and shorter refueling times than refueling systems that utilize hoses or hose reels. The lower internal flow resistance of pipe allows the pantograph to deliver fuel with a lower overall drop in pressure.

The Cla-Val 850AF Pantograph offers designs for small loading racks, low-wing

or fuselage refueling, and even high-lift designs for refueling the largest aircraft flying today. The pantograph extends to reach remote delivery points and then retracts for compact storage. It can be located above ground or mounted in below-grade pits. It can be configured for permanent installation or as a tow rig for portable applications. Portability is enhanced by the use of heavy-duty casters and wheels, making the Cla-Val 850AF Pantograph easy to maneuver for fast refueling or defueling of fixed-wing aircraft, helicopters, or tank trucks.

Typical Application

