



Argus Self-Contained Hydraulic Pump Module (HPM)

For dependable zero emission shutdown in local or remote locations, use the **Argus Self-Contained Hydraulic Pump Module for Emergency Shutdown Systems**. Designed with environmental preservation in mind, this system does not require an external source of power and is adaptable for use with either quarter turn or linear actuators.

Consider these Features:

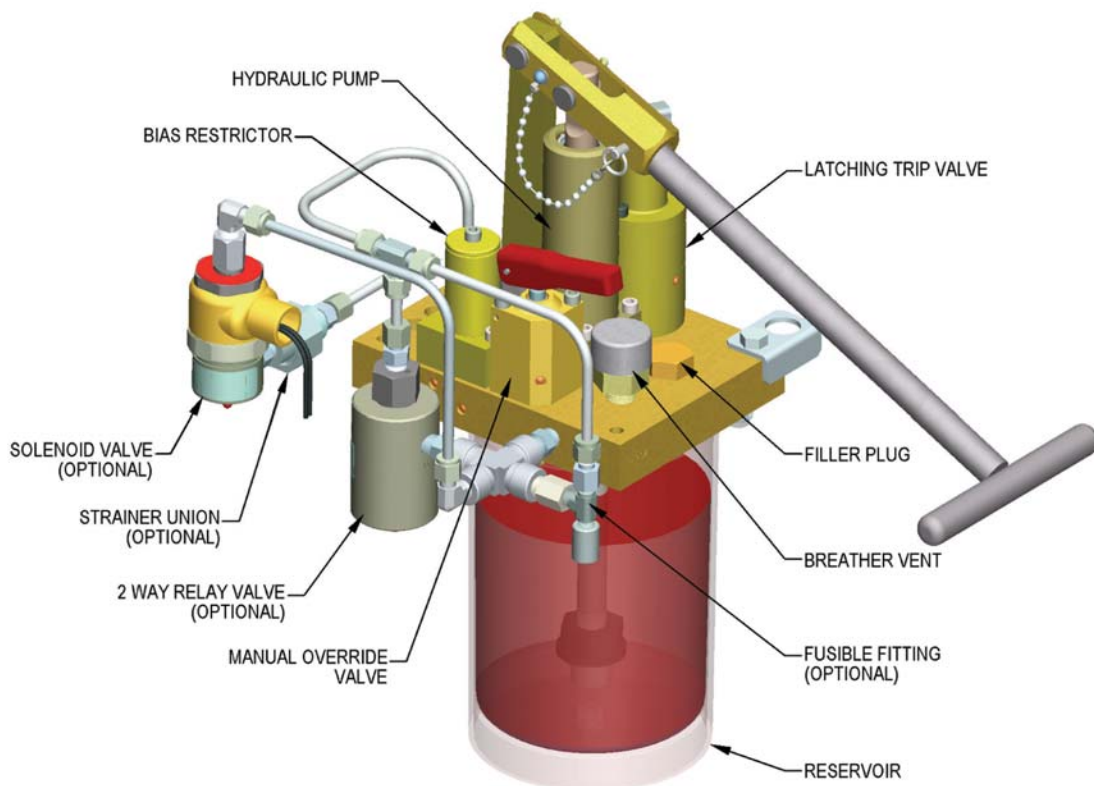
- **Simplified Control Circuit** – designed for use with the Argus Two-Line Pressure Pilot.
- **Modular Design** – all functioning components are manifold mounted outside of the reservoir, to simplify maintenance and reduce downtime.
- **Single Pressure System** – eliminates the need for low pressure regulators and relief valves on the control circuit.
- **Sealed System** – pressure vacuum breather combats the formation of condensation in the fluid reservoir.
- **Manual Override** – is standard for quick shutdowns.
- **Non-Foaming Hydraulics** – deflector fitting prevents entrapment of air in the hydraulic oil.
- **Filtered Hydraulics** – filter elements strategically placed throughout the system assist in preventing damage to system components.
- **Coated Components** – to combat corrosion.
- **Enhanced Safety** – The use of an optional closed circuit fusible plug with our system returns fluid directly to the reservoir (rather than to atmosphere) in the event of a fire.

General Specifications for the HPM:

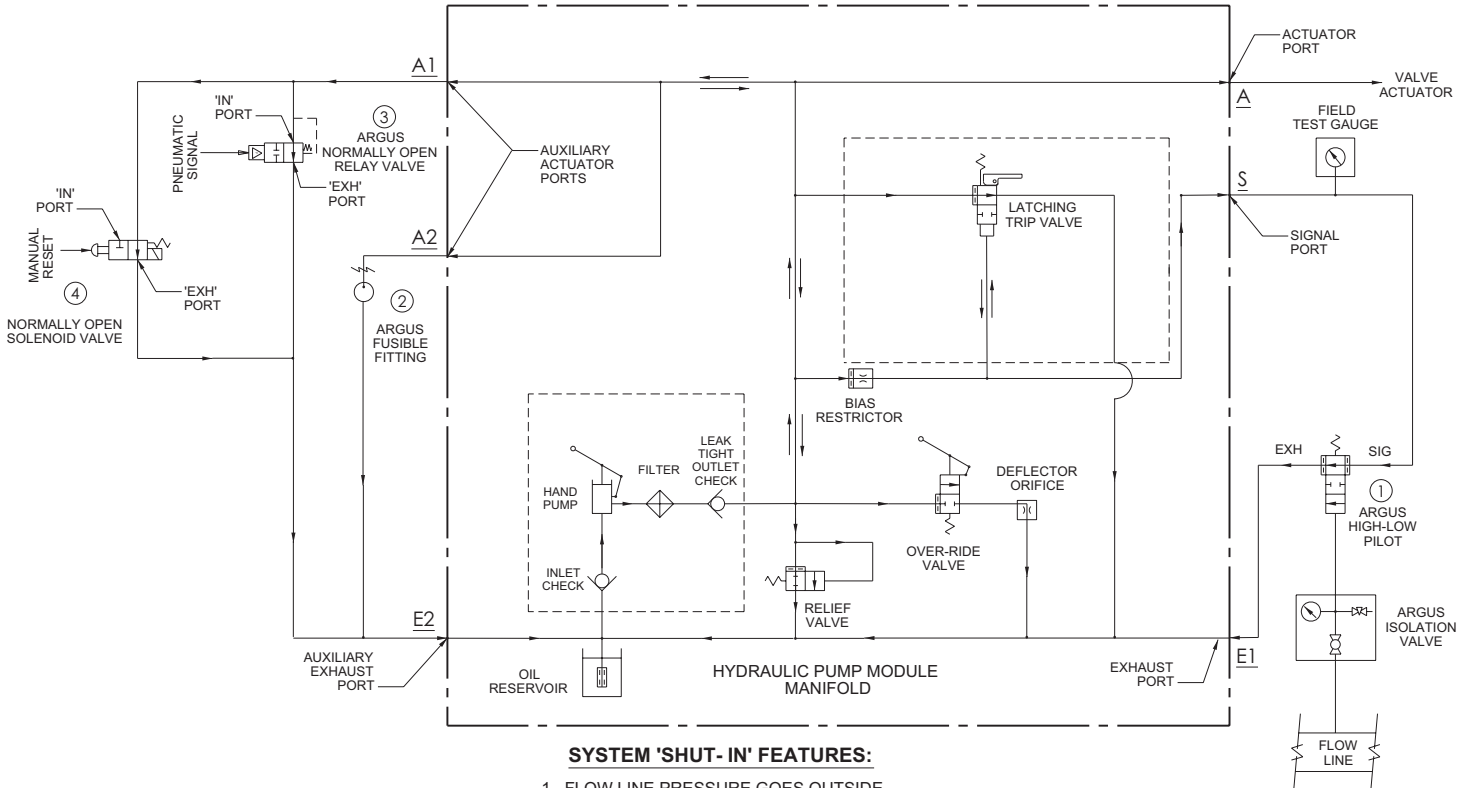
Maximum System Supply Pressure 1500 PSI (10,342 kPa)
 Temperature Range:..... -50°F to +200°F (-46°C to +93°C)
 Boxed Dimensions: 10”L x 8”W x 23”H (25.4 cm x 20.3 cm x 58.4 cm)
 Approximate Weight:..... 26 lbs (11.8 kg)

Materials:

Seals: Fluorosilicone , Highly Saturated Nitrile, & Low Temperature Nitrile
 Components:..... Aluminum, 6061-T6-Coated to combat corrosion
 Fasteners & Fittings: Plated Steel & Stainless Steel



System Schematic



Operating Procedures:

- To start up the ESD system, lift the arming lever on the Latching Trip Valve.
- Operate the hydraulic hand pump to open the flow-line valve.
- If the flow-line pressure **does not** come within the high and low set points of the Pressure Pilot, oil flowing through the Bias Restrictor will slowly allow the ESD valve to close.
- If the flow-line pressure **does** come within the high and low set points of the Pressure Pilot, oil supplied through the Bias Restrictor energizes the Latching Trip Valve. When the Latching Trip Valve is energized the arming lever unlatches. The Pressure Pilot takes over control of the ESD system automatically.



Designed and Manufactured by:
Argus Machine Co. Ltd.

5820 – 97 Street, Edmonton, Alberta Canada T6E 3J1
 Phone: (780) 434-9451 Fax: (780) 434-9909
www.argusmachine.com