

# AFS-01

## Automatic Dewar Filling Station

The AFS-01 is an automatic shut off liquid nitrogen dewar filling station for standard liquid cylinders.

The AFS-01 is designed to fill portable low pressure liquid nitrogen dewars from a pipe system or bulk tank.

The AFS-01 uses a cryogenic sensor to detect a "full" condition. Once full, cryogenic valves shut off the fill cycle maintaining the fill pressure of the liquid cylinder. The liquid cylinder is ready for immediate use.



### Benefits

- **Reduce Losses** – Eliminate overfilling and loss of LN2.
- **Improve Employee Safety** – Create a safer work environment with fill shut off timer, vent safety interlock, and emergency stop.
- **Workforce Efficiency** – Eliminate wasted labor and downtime.
- **Cost Savings** – Save money by eliminating the need for dewar deliveries.
- **Adjustable Fill Cycle Timer** – Control the maximum amount of time the inlet valve will stay open.

### Features

- **Easy to Operate** – Allen Bradley PLC controls. Start the process and it will run itself.
- **Adjustable Settings** – Adjustable timeout timer and cryogenic sensor threshold.
- **Visual Alerts** – Status indicator light and audible alarm contact.
- **Safety** – Vent interlock, max fill timer, EMO switch, and fail close valves.
- **Indoor or Outdoor Installation** – Fill liquid cylinders where it is most convenient.



<b>Enclosure</b>	Stainless Steel NEMA 4X, IP66
<b>Power Input</b>	110-240 VAC, 50-60 Hz
<b>Power Usage</b>	96 Watts Max
<b>Specifications</b>	Allen-Bradley Micrologix 1100 Allen-Bradley PanelView 800 External Temp Rating: 32-122 °F 20-150 psi Pressure Rating
<b>Additional Components</b>	VJ or Non-VJ Hoses
<b>Dimensions</b>	16" W x 16" L x 6" D 41cm x 41cm x 15cm