

# ISCO 100HLF Hazardous Location Syringe Pump



**Brand:** Teledyne ISCO  
**Product Code:** isco-100hlf  
**Availability:** Call for availability

## Description

Teledyne ISCO HLF-Series pumps give you the same accurate, predictable flow and pressure control as our standard D-Series, while conforming to safety standards for use in UL Class I, Division 2, Groups A B C & D, T4 environments. The hazardous location rating is achieved through internal design modifications including the use of brushless DC motors. This approach eliminates the need for purge boxes or other additional safety devices.

Wetted materials are compatible with most aqueous and organic liquids, corrosive solutions, heated fluids, liquefied gases, viscous fluids, or slurries and pastes. If needed, optional materials such as Hastelloy C-276 are available on request.

The HLF controller has a keypad and LCD, as well as built-in and optional interfaces for computer control and other devices. Programming is easy and flexible, with instant access to menu screens even when the pump is running. This allows you to change operating parameters on the fly.

### Standard Features

- UL approved for Class I, Div 2 environments
- Operating Modes
  - Constant flow or pressure with up to four pumps
  - Continuous flow or pressure with dual pump
  - Flow or pressure programming with single pump
  - Dispense mode
- External Interface
  - RS232/485 serial interface
  - Analog voltage inputs
  - Digital inputs and outputs
  - Ethernet/USB

### Applications

- Metering and dispensing in experiments and pilot plants where explosive conditions may occur
- Precision fluid addition in research and manufacturing processes
- Chemical/reactant feed in chemical process development, catalyst evaluation, plastic formulation
- Accurate metering of liquefied gases

### Options and Accessories

- Hastelloy 276 cylinder for added corrosion resistance
- Temperature control jacket (i.e. cylinder cooling for filling with liquefied gas)
- High-temperature pressure transducers

(200 °C maximum) </li> <li>High-precision pressure transducers (0.1% linear accuracy)</li> <li>Drivers for LabVIEW - National Instruments</li> <li>4-20 mA input/output for flow rate and pressure control</li> <li>Dual Pump Continuous Flow System - Air Valves??</li> </ul> <h2>Specifications</h2> <ul> <li>Capacity: 102.93 mL</li> ? <li>Flow Range: 0.00001 to 60 mL/min</li> <li>Flow Accuracy: ± 0.3% of setpoint (Maximum 0.25 µL/min seal leakage)</li> <li>Pressure Range: 10 to 10,000 psi? (0.7 to 689.5 bar)</li> <li>Plumbing Ports: 1/8" Valco</li> <li>Dimensions (H x W x D): 39.8 x 10.7 x 18.4 in (?101 x 27 x 47 cm)</li> </ul>