

ISCO 30D Syringe Pump



Brand:
Product Code: isco-30d
Availability: Call for availability

Description

The 30D High Pressure Syringe Pump takes traditional syringe pumps to the next level, deep well core analysis. Not only does it handle exceptional low-flow stability with ease, but it gives you the ability to reach pressures of 30,000 psi (2,068 bar). It is ideal for high-pressure experiments requiring precision control, such as: rock core analysis for hydrocarbon recovery studies in deep-well reservoirs; reactant feed in chemical process development; and proteomics research using nanobore capillary packed columns. Wetted materials are compatible with most aqueous and organic liquids. Corrosive solutions, heated fluids, liquefied gases, viscous fluids, or slurries and pastes can be handled with proper accessories.

High and low pressure control

Provides precise, predictable flow and pressure control at very low flow rates from sub-microliter to 22 mL/min.

Low maintenance

Single-ratio drive train with auto-lubricating gears for long life and low maintenance. Special fittings are used to prevent leaks and ensure safety at maximum pressure.

Easy to use

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. An optional extension cable lets you locate the controller up to 15 meters (50 feet) from the pump.

Applications

- Rock core analysis for hydrocarbon recovery studies in deep-well reservoirs
- High pressure experiments requiring precision control
- Proteomics research using nanobore capillary packed columns

Standard Controller Features

- Operating Modes
 - Constant flow or pressure with up to four pumps
 - Gradient LC programming
 - Flow or pressure

programming with a single pump

- External Interface
- RS232/485 serial interface
- Analog voltage inputs
- Digital inputs and output

Specifications

- Capacity: 30.42 mL
- Flow Range (mL/min): 0.01 μ L–22mL/min
- Flow Accuracy: + 0.5% above 69 bar and above 0.25 mL/min
- Displacement Resolution: 1.825 nL/stop
- Pressure Range: 10–30,000 psi (0.6895–2,068 bar)
- Standard Pressure Accuracy: 0.2% FS at constant temperature
- Wetted Materials (Standard): Nitronic 50, Graphite filled PTFE, TFE, Hastelloy C-276, Inert Polymers
- Plumbing Ports: 1/4" Autoclave Engineers, type F250C
- Operating Temperature: 5–40 °C Ambient
- Power Required: 100 VAC, 117 VAC, 234 VAC, 50/60 Hz (specify)
- Dimensions (H x W x D) 100 x 27 x 47 cm (39.4 x 10.7 x 18.4 in)
- Weight: Pump unit—36.4 kg (80.2 lb), Controller—3.0 kg (6.5 lb)
- Standards Conformity: EN61326:2013, EN61010-1:2010 Compliant to the European Machinery Directive 2006/42/EC and the European Pressure Equipment Directive (PED) 2014/68/EU