

## SyriXus 100HLf Syringe Pump

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The Teledyne ISCO Hlf-Series pumps give you the same accurate, predictable flow and pressure control as our standard SyriXus pumps, 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.

The 100HLf syringe pump from Teledyne ISCO was developed for ultra-low flow precision and high pressures up to 10,000 psi. The fast flow and refill are ideal for supercritical fluids as well as many other applications that need high pressures. This model has flow rates up to 60 mL/min, and pressures up to 10,000 psi (690 bar).

Nitronic 50 Stainless Steel offers the better resistance and strength to standard 316 Stainless Steel. The annealed condition provides strength up to double that of 316 stainless-steel. In the high strength condition, Nitronic 50 can withstand high temperature and sub-zero environments allowing it to be used for critical applications. Nitronic 50 registers a 150 on the Brinell scale of hardness and an 80 on the Rockwell scale of hardness.

All pumps are installed with Standard (graphite impregnated PTFE) seals. Alternative seals are available on the Service Tab. Alternative seals will be included separate and installed by the user.

<input type="checkbox"/>	681260014	Model 100HLf Pump Module for Class I Div 2 Hazardous Locations. Cylinder holds up to 102 mL and can pump from 0.00001 to 60 mL/min and up to 10,000 psi (695 bar). Must operate with Hlf Controller.
<b>Valve Options</b>		
<input type="checkbox"/>	601247141	Continuous Flow Dual Air Valve Package for 260HLf and 100HLf. Requires pressurized air source. No additional controller options required for air valve operation.
<input type="checkbox"/>	601247156	Single Air Valve Package for 260HLf and 100HLf. Requires pressurized air source. No additional controller options required for air valve operation.
<input type="checkbox"/>	681247077	Manual Refill Valve Kit (10,000 psi rated) for Models 260HLf and 100HLf
<input type="checkbox"/>	681247078	Manual Outlet Valve Kit (10,000 psi rated) for Models 260HLf and 100HLf
<b>Controller Options</b>		
<input type="checkbox"/>	681260011	Hlf Series Controller w/ 4-20mA outputs. Comes with 6 output cards. Built in control connections for Digital Inputs/Analog Inputs and Digital Outputs for remote pump control signals and Ethernet connection port. Compatible only with Hlf pumps.
<input type="checkbox"/>	681260013	Hlf Series Controller w/Ethernet & USB. Built in control connections for Digital Inputs/Analog Inputs and Digital Outputs for remote pump control signals and Ethernet connection port. Compatible only with Hlf pumps.
<b>Other Accessories</b>		
<input type="checkbox"/>	681247047	Temperature Control Jacket for Models 260D, 260HP, 260HLf, 100DM, 100DX, 100HLf, 65D, 65DM and 65x pumps (water jacket for temperature control for use with recirculating bath; bath not included).

<input type="checkbox"/>	681247134	LabVIEW pump tool kit for Windows with external driver. Includes source code and an executable example program for 4 pump operations. Must be used with LabVIEW 15 and above. Operate with a D-Series or SyriXus controller with software version 2.11.0003 and above.
<input type="checkbox"/>	681020210	10 ft. Extension Cable for all D-Series and SyriXus controllers
<b>Replacement Seals</b>		
<input type="checkbox"/>	601269036	100HL/HLF PISTON STANDARD SEAL REPLACEMENT KIT
<input type="checkbox"/>	601269024	100HLx PISTON HI-TEMP SEAL REP
<b>Periodic Maintenance Parts</b>		
<input type="checkbox"/>	601247067	100HLf WRENCH PACKAGE
<input type="checkbox"/>	601244271	LUBRICATION KIT all models