

## SyriXus 1000x Syringe Pump

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The SyriXus 1000x syringe pump from Teledyne ISCO delivers accurate, repeatable flows of a wide variety of fluids. This model features 1 liter volume capacity, flow rates up to 408 mL/min, and pressures up to 2,000 psi (138 bar). Cylinder wash ports are standard to protect the seals from deposits.

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"/>	681240825	Model 1000x Nitronic 50 Pump Module. Cylinder holds up to 1 L and can pump from 0.001 to 408 mL/min and up to 2,000 psi (138 bar). Wash gland is standard for back flush capability - secondary pump needed.
<b>Valve Options</b>		
<input type="checkbox"/>	601267016	Continuous Flow Air Valve Package (1/4" valves) for SyriXus 1000x pumps. Requires pressurized air source. No additional controller options required for air valve operation.
<input type="checkbox"/>	601267015	Continuous flow dual electric valve package (1/8" valves) for SyriXus 1000x, 500x and 260x. Electric Valve controller 681240854 required.
<input type="checkbox"/>	601267017	Single pump Air Valve Package (1/4" valves) for SyriXus 1000x. Requires pressurized air source. No additional controller options required for air valve operation.
<input type="checkbox"/>	601267011	Single Electric Valve (1/8" valve) auto-refill/outlet package for SyriXus 1000x, 500x, and 260x. Electric Valve controller 681240854 required.
<input type="checkbox"/>	601267022	Manual refill and outlet package for SyriXus 1000x
<b>Controller Options</b>		
<input type="checkbox"/>	681240850	Basic Controller for operation of up to 4 SyriXus pumps. Built in control connections for Digital Inputs/Analog Inputs and Digital Outputs for remote pump control signals and Ethernet connection port. Also operates legacy D-Series Pumps other than Hazardous location and 30D models.
<input type="checkbox"/>	681240854	Electric Valve Controller for SyriXus pumps. Configured to operate up to 2 pumps with electric valve packages. Built in control connections for Digital Inputs/Analog Inputs and Digital Outputs for remote pump control signals and Ethernet connection port. Also operates legacy D-Series Pumps other than Hazardous location, 65D and 30D models.
<input type="checkbox"/>	681240851	Basic Controller with 0-10V output. 6 cards installed. Operation of up to 4 SyriXus pumps. This controller also contains the standard input and output controls of the Basic controller. Also operates legacy D-Series Pumps other than Hazardous location and 30D models.

<input type="checkbox"/>	681240852	Basic Controller with 4-20mA output and input. 6 cards installed. Operation of up to 4 SyriXus pumps. This controller is modified to allow 4-20mA INPUT control on the 4 Digital Input connectors as well as the 4 Analog Input connectors. This controller also contains the standard input and output controls of the Basic controller. Also operates legacy D-Series Pumps other than Hazardous location and 30D models.
<b>Other Accessories</b>		
<input type="checkbox"/>	681247115	Temperature Control Jacket for Model 1000D, 1000HLf and 1000x (water jacket for temperature control for use with recirculating bath; bath not included).
<input type="checkbox"/>	601247190	High Temperature/High Accuracy conversion kit. Upgrade SyriXus pumps to up to 200C and accuracy 0.1% of full scale (TB17). Compatible with 1000x, 500x, 500xv, 260x SyriXus pumps.
<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"/>	202999023	Standard Replacement Seal, lower, for 1000X or 1000D, Graphite/PTFE
<input type="checkbox"/>	202999025	Standard Replacement Seal, upper, for 1000X or 1000D, Graphite/PTFE
<input type="checkbox"/>	202999026	Replacement Seal, upper, for 1000X or 1000D, Virgin PTFE
<input type="checkbox"/>	202999024	Replacement Seal, lower, for 1000X or 1000D - Virgin PTFE
<input type="checkbox"/>	202999028	Replacement Seal, upper, for 1000X or 1000D, Graphite/PTFE - High Temperature
<input type="checkbox"/>	202999027	Replacement Seal, lower, for 1000X or 1000D, Graphite/PTFE - High Temperature
<b>Periodic Maintenance Parts</b>		
<input type="checkbox"/>	601247101	SyriXus WRENCH PACKAGE for use with 1000x, 500x, 500xv, 260x and 65x
<input type="checkbox"/>	601244271	LUBRICATION KIT all models