

SyriXus 500xv Syringe Pump

The SyriXus 500xv is able to pump higher viscosity material by reducing the restriction within the pump, specially designed with 3/8" ports at a 45-degree angle. Ball valves are used for automating refill and continuous flow which clear easily.

The 500xv syringe pump provides precise delivery of high viscosity material up to 204 mL/min. Pulse-less flow is delivered up to 5,000 psi (345 bar) for pumping thick materials. Viscosity can be reduced by heating the pump chamber. A Temperature Control Jacket can be used to raise the temperature above ambient up to 100 °C. The High Temperature package allows the ability to heat up to 200 °C.

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.

☐	681240829	Model 500xv Pump Module for high viscosity materials. Cylinder holds up to 507 mL and can pump from 0.001 to 204 mL/min and up to 5,000 psi (345 bar). 3/8" NPT inlet and outlet ports with ball valve.
Valve Options		
☐	601267020	Continuous Flow Dual Air Valve Package (3/8" valves) for SyriXus 500xv. Requires pressurized air source. No additional controller options required for air valve operation.
Controller Options		
☐	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.
☐	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.
☐	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.

Other Accessories		
☐	681268005	Temperature Control Jacket for Models 500x and 500xv pumps (water jacket for temperature control for use with recirculating bath; bath not included).
☐	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.
☐	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.
☐	681020210	10 ft. Extension Cable for all D-Series and SyriXus controllers
Replacement Seals		
☐	202909156	Standard Replacement Seal for 500X or 500D pumps, Graphite/PTFE.
☐	202909356	High Temperature (50 to 200 C) seal for 500X or 500D pumps. Graphite/PTFE.
☐	202909256	Low Pressure (2,000 psi max) Seal for 500X or 500D, Graphite/PTFE.
☐	202909456	Aqueous seal for 500X or 500D. Ultra-high MW polyethylene (preferred for aqueous solutions).
☐	202909157	Ultra-low Bypass Seal for 500X or 500D, Virgin PTFE. NOTE This is the only seal recommended for toxic volatiles such as NH3, HN03, H2S.
Periodic Maintenance Parts		
☐	601247101	SyriXus WRENCH PACKAGE for use with 1000x, 500x, 500xv, 260x and 65x
☐	601244271	LUBRICATION KIT all models