

# Fusion 6000 - Data Sheet



The Fusion 6000 high-pressure syringe pump is designed for dosing viscous solutions, and semi-solid material injections against pressure. This system allows also for both heated syringe temperature control and pressure modulation while providing precision flow and performance that are critical to experimental success.

## TECHNICAL SPECIFICATIONS

<b>MODE</b>	Infuse/Withdraw
<b>MINIMUM FLOW RATE</b>	0.0001 $\mu\text{L}/\text{min}$ (with 0.5 $\mu\text{L}$ syringe)
<b>MAXIMUM FLOW RATE</b>	423 mL/min (with 225mL syringe)
<b>LINEAR FORCE</b>	500lb (227kg)
<b>SYRINGE SIZE (MIN/MAX)</b>	0.5 $\mu\text{L}$ to 225mL
<b>STEP RESOLUTION</b>	0.0938 $\mu\text{m}/\text{step}$
<b>OPERATIONAL TEMPERATURE</b>	4°C to 40°C (40°F to 104°F)
<b>STORAGE TEMPERATURE</b>	-10°C to 70°C (14°F to 158°F)
<b>ACCURACY</b>	$\pm <0.35\%$
<b>REPRODUCIBILITY</b>	$\pm <0.05\%$
<b>CONNECTIVITY</b>	USB-B, RS232 and TTL Ports
<b>POWER</b>	110/220 VAC
<b>SYRINGE RACK OPTION</b>	4-Channel Syringe Rack

### **i** SELECT APPLICATIONS

- High Pressure Applications
- Vaporizer Filling
- Fracking Research
- Electrospinning
- Reagent Dispensing
- Pressure Reactor Injection
- High Viscosity Fluid Dosing
- Polymer Dosing

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**SAFETY DISCLOSURE:** Chemyx syringe pumps can not be used with testing involving gas input or output. No reactive hazardous chemicals liquids should be used with Chemyx syringe pumps.