

C-Series Syringe Pumps



FEATURES

- > A seamless replacement for the XP, XCalibur, PSD/4 and PVM pumps
- > High Resolution options available up to 192,000 steps/full-stroke
- > Proprietary high-efficiency and maintenance-free drive system
- > Long-life rotary shear valves (up to 24 times the life of competing valves)
- > Valve Drive < 250 ms between neighboring ports
- > Address a maximum of 15 pumps addressed individually

CUSTOMER REQUIREMENTS

- > Interface
 - Type RS232, RS485 or CAN
 - Communication Rates RS232/RS485 9600 or 38400 baud
CAN 100 or 125 kbits
 - Format (RS232/RS485) Data Bits - 8, Parity - None, Stop Bit - 1
Half Duplex, Data Terminal and OEM protocols
- > Environmental (Operating)
 - Temperature 15°C to 40°C (59°F to 104°F)
 - Humidity 20 to 95% RH at 40°C (104°F)

CONFIGURED OPTIONS

- > Fluid Contact Syringe Material: Borosilicate Glass and UHMWPE or PTFE (seal) - Pressures to 80 PSI
- > Fluid Contact Valve Material: PCTFE or PEEK (housing) and PTFE or UHMWPE (plug) - Pressures to 100 PSI
- > Accessories
 - Syringe Sizes: 50 µL, 100 µL, 250 µL, 500 µL, 1 mL, 2.5 mL, 5 mL, 12.5 mL

BASE MODEL

- C3000
- C24000



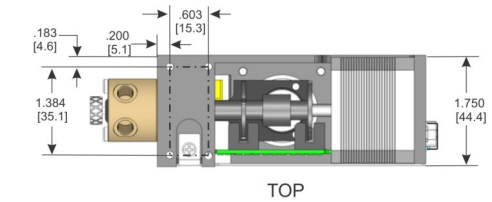
(Shown with optional Syringe)

SPECIFICATIONS

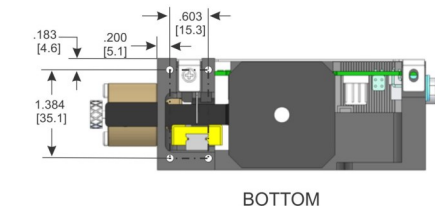
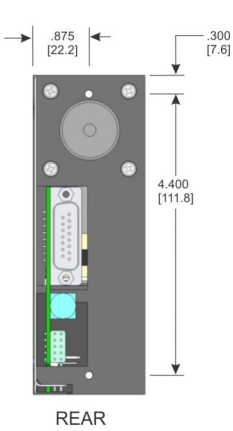
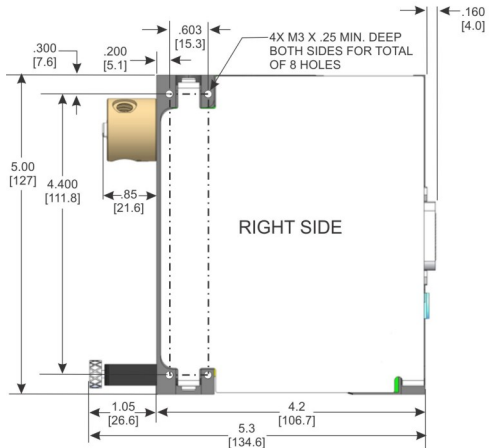
	C3000 Syringe Pump	C24000 Syringe Pump
Drive Design	Direct drive stepper motor/leadscrew with 30 mm of travel. Manually moveable for "power off" syringe removal.	Direct drive stepper motor/leadscrew with 30 mm of travel.
Stroke Speed	1.2 seconds to 100 minutes per stroke (800 minutes in microstep mode).	4.2 seconds to 800 minutes per stroke (3200 minutes in microstep mode).
Step Resolution	Standard mode 3,000 steps, Hi-Res mode 24,000 steps	Standard mode 24,000 steps, Hi-Res mode 192,000 steps

FUNCTIONAL PARAMETERS

Imprecision (full stroke) at 50 µL to 100 µL	< 0.1% CV
Imprecision (full stroke) at 250 µL to 12.5 mL	< 0.05% CV
Inaccuracy (full stroke)	< 1% syringe volume
Power Requirement	24 VDC ± 10%
Power Rating	≤ 1.5 Amp (peak)



ALL MOUNTING HOLES ARE M3 X 0.5 mm X 6.3 mm DEEP MIN.



ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED .XXX ±.008 [.02 mm]

PUMP AND VALVE SOLUTIONS FOR OEMS WORLDWIDE

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