C-Series Syringe Pumps - 30 mm Stroke



PRODUCT OVERVIEW

- OEM liquid handling component, delivers fluids from microliters to milliliters with exceptional accuracy and precision
- > Utilizes industry standard communication protocols and mounting configurations
- > C24000 is the preferred choice for low flow rate and low pulsation applications
- > Designed for continuous duty and reliable performance

FEATURES

- > Accommodates valves with 3 or 4 ports in a variety of configurations
- > High Resolution modes available, up to 192,000 microsteps/full-stroke
- > Uses industry standard OEM or DT Cavro® protocol
- > Communication interfaces: RS232, RS485 or CAN
- > Address up to 15 pumps individually
- > Fast valve switch time: < 250 ms between neighboring ports
- > Long-life rotary shear valves (up to 24 times the life of competing valves)
- > Proprietary high-efficiency and maintenance-free stepper motor drive system (no belts to stretch or break)

BASE MODEL

C3000 C24000



(Shown with accessory Syringe)

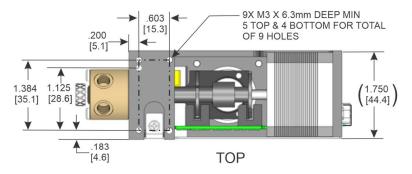
CONFIGURED OPTIONS

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
Syringe Sizes	50 μL, 100 μL, 250 μL, 500 μL, 1 mL, 2.5 mL, 5 mL, 12.5 mL

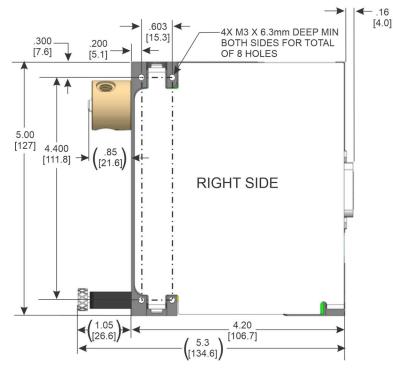
PRODUCT SPECIFICATIONS				
	C3000 Syringe Pump	C24000 Syringe Pump		
Stroke Speed	1.2 seconds to 100 minutes per stroke (800 minutes in microstep mode).	4.2 seconds to 800 minutes per stroke (3200 minutes in microstep mode).		
Step Resolution	Standard mode 3,000 steps, Hi-Res mode 24,000 steps	Standard mode 24,000 steps, Hi-Res mode 192,000 steps		
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.		
Valve Options	120° 3-port, 90° 4-port, T-valve, 90° 3-way Distribution. Body materials PEEK or PCTFE, Rotary Plug PTFE or UHMWPE			
Interface Type	RS232, RS485 or CAN			
Communication Rates	RS232/RS485 9600 or 38400 baud CAN - 100K, 125K, 250K, 500K, 1M bps			
Format (RS232/RS485)	Data Bits - 8, Parity - None, Stop Bit - 1 Half Duplex, Data Terminal and OEM protocols			
Operating Temperature and Humidity	15°C to 40°C (59°F to 104°F) and 20% to 95% RH at 40°C (104°F), non-condensing			
Non-Operating Temperature and Humidity	-20°C to 65°C (-4°F to 149°F) and 30% to 85% RH, non-condensing			
Media Temperature	15°C to 40°C (59°F to 104°F)			

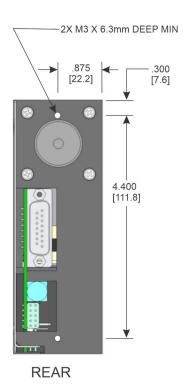
FUNCTIONAL PARAMETERS		
Imprecision (full stroke) at 50 μ L to 100 μ L	< 0.1% CV	
Imprecision (full stroke) at 250 μL to 12.5 mL	< 0.05% CV	
Inaccuracy (full stroke)	< 1% syringe volume	
Power Requirement	24 VDC ± 10%	
Power Rating	≤1.5 Amp (peak)	

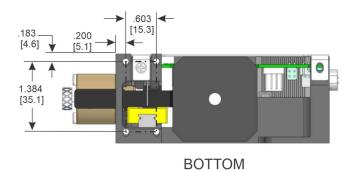
C-SERIES PUMP INTERFACE DETAILS



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







ALL DIMENSIONS UNLESS
OTHERWISE SPECIFIED
.XXX±.008 [0.2 mm]
XX±.016 [0.4 mm]
(MILLIMETERS SHOWN IN BRACKETS)
DIMENSIONS SHOWN IN PARENTHESES
FOR REFERENCE ONLY

PUMP AND VALVE SOLUTIONS FOR OEMS WORLDWIDE

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