CX-Series Syringe Pumps - 60 mm Stroke



by Gardner Denver

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
- > CX6000 excels for large volumes/flows and the CX48000 is optimized for very low flow applications requiring minimal pulsation
- > Accommodates valves with up to 6 ports in a variety of configurations
- > Designed for continuous duty and reliable performance

FEATURES

- A seamless replacement for industry standard 60 mm stroke pumps using the Cavro® protocol
- > Communication interfaces: RS232, RS485 or CAN
- > High Resolution options available up to 384,000 steps/full-stroke
- > Proprietary high-efficiency and maintenance-free stepper motor drive system (no belts to stretch or break)
- > Long-life rotary shear valves (up to 24 times the life of competing polymer valves)
- > Fast valve switch time: < 250 ms between neighboring ports
- > Communicate with up to 16 pumps using a single serial or CAN communication bus

BASE MODEL

CX6000 CX48000



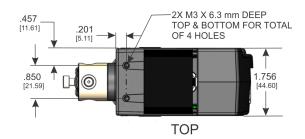
(Shown with 120° 3-port PEEK Valve and accessory Syringe)

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, 10 mL, 25 mL (PTFE only)	

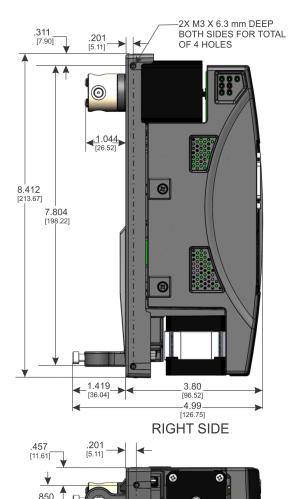
PRODUCT SPECIFICATIONS				
	CX6000 Syringe Pump	CX48000 Syringe Pump		
Stroke Speed	1.2 seconds to 200 minutes per stroke (800 minutes in microstep mode).	4.2 seconds to 800 minutes per stroke (6,400 minutes in microstep mode).		
Step Resolution	Standard mode 6,000 steps, Hi-Res mode 48,000 steps	Standard mode 48,000 steps, Hi-Res mode 384,000 steps		
Drive Design	Direct drive stepper motor/leadscrew with 60 mm of travel.	Direct drive stepper motor/leadscrew with 60 mm of travel.		
Valve Options	120° 3-port, 90° 4-port, T-valve, 90° 3 way Distribution, 6 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	10°C to 40°C (50°F to 104°F) and 20% to 80% RH at 40°C (104°F), non-condensing			
Non-Operating Temperature and Humidity	-25°C to 60°C (-13°F to 140°F) and 20% to 80% RH at 40°C (104°F), non-condensing			
Media Temperature	15°C to 40°C (59°F to 104°F)			

FUNCTIONAL PARAMETERS			
Imprecision (full stroke)	< 0.05% CV		
Inaccuracy (full stroke)	< 0.50% syringe volume		
Power Requirement	24 VDC ± 10%		
Power Rating	≤ 1.5 Amp (peak)		

CX-SERIES PUMP INTERFACE DETAILS



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





REAR

ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED .XXX±.008 [0.2 mm] (MILLIMETERS SHOWN IN BRACKETS) (Shown with 90° 4-port PEEK Valve)

PUMP AND VALVE SOLUTIONS FOR OEMS WORLDWIDE

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tricontinent.com



Tricontinent office.

Tricontinent Scientific, Inc.

12740 Earhart Ave Auburn, CA 95602 USA

Tel: +1 800 937 4738 Fax: +1 530 273 2586

liquidhandling.tcs@gardnerdenver.com

Gardner Denver Thomas GmbH

thomas.de@gardnerdenver.com

Livry-Gargan-Str. 10 82256 Fürstenfeldbruck Germany Tel: +49 8141 2280 0 Fax: +49 8141 8892136

Gardner Denver Thomas Pneumatic Systems, Co., Ltd. No. 1 New Dong An Road, Shuofang Town

Wuxi, Xinwu District, Jiangsu 214142 China Tel: +86 510 6878 2258

Fax: +86 510 6878 2200

tricontinent.cn@gardnerdenver.com

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