

## P2000-CR SERIES

## PNEUMATIC PUMP DISPENSING SYSTEMS



The P2000-CR series programmable cycle time and pre-settable shot volume dispensing system is designed to incorporate EMS PACIFIC's state-of-the-art pump technology into a highly efficient pneumatic delivery configuration. The P2000-CR is one version of the P2000 series.

The P2000-CR series system features EMS PACIFIC's uniquely designed molded elastomer valve technology that delivers the highest level of accuracy, purity, and chemical compatibility for precision dispensing applications.

The P2000-CR series pump module is a non-metal pump module intended for corrosive fluids. No steel spring and steel ball along the fluid path. Both the CR and the CRX models are pneumatically actuated, double acting, double end rod air cylinder. The CRX model has a standard air cylinder while the CR model has a flat air cylinder.

In packaging of products such as cosmetics, pharmaceuticals, biotechnology, semiconductor fabrication and assembly, food production, the P2000-CR series is designed for virtually any manufacturing or laboratory environment where repeatability and accuracy must be maintained. Both systems can be fitted with 1/2" or 1" cylinder bore pump modules to accommodate a variety of shot volume needs.

The systems are composed of a pump module and a controller. Pump module and controller can be purchased separately.

To Order or for Additional Information  
Call Toll Free: 1-800-575-5093  
Email: [pump@emspacific.com](mailto:pump@emspacific.com)  
[www.emspacific.com](http://www.emspacific.com)



2986 Teagarden St., San Leandro, CA 94577

## **P2000-CR FEATURES**

- Pump module is easy to maintain and clean
- Adaptable for remote operation
- Minimum dead volume for easy priming
- Purging with minimum effort
- Horizontal and vertical mounting
- Pre-settable shot volume
- Clean material cut-off
- Relay or PLC controllers available

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## P2000-CR SPECIFICATIONS

### PNEUMATIC FLUID METERING –DISPENSING PUMPS P2000-CR SERIES

PISTON TYPE POSITIVE DISPLACEMENT	PNEUMATIC PUMP MODULE WITH POLYPROPYLENE CYLINDER			
P2000-CR SERIES CHECK BALL VALVE TYPE	P2000-CR			
MODELS	PPL1608-CR	PPL1608-CRX	PPL1616-CR	PPL1616-CRX
ADJUSTABLE SHOT RANGE (mL)	.50 - 3.50	.50 - 3.50	3.50 -12.50	3.5 - 12.50
REPEATABILITY/ ACCURACY (%)	99.3/ 99.0	99.3/ 99.0	99.3/ 99.0	99.3/ 99.0
FLUID PRESSURE, MAX. (PSIG)	400	400	100	100
TEMPERATURE MAX. (° F)	140	140	140	140
NOMINAL SPEED (CYCLES/MIN.)	60	60	60	60
PISTON MATERIAL	DELTRIN			
CYLINDER MATERIAL	POLYPROPYLENE (PP)			
VALVE TYPE & MATERIAL	MOLDED CHECK BALL WITH SPRING ACTION, EPDM MAT'L			
WETTED MATERIAL	DELTRIN, POLYPROPYLENE, EPDM, VITON™, POLYETHYLENE (PE) CR MODELS: .001" RESOLUTION MICROMETER			
STROKE ADJUSTMENT	CRX MODELS: SCREW ADJUSTMENT			
FLUID PORTS: INLET/ OUTLET, NPT	1/8	1/8	1/8	1/8
PUMP MODULE DIMENSIONS (INCHES)	2.0 x 14.0	2.0 x 16.0	2.0 x 14.0	2.0 x 16.0
WEIGHT (POUNDS)	3	3	3	3
MAX. VISCOSITY (CENTIPOISE)	1000 cps	1000 cps	1000 cps	1000 cps
ELECTRICAL REQUIREMENTS	110 VAC, 60Hz			
CONTROLLERS *	SAC1000, CLC1000			

\* Customer can utilize its' own controller. Click on how to activate the pump.

Repeatability is the measure of the consistency of shot volume delivery, obtained by calculating the ratio of any shot volume to the average shot volume of a particular pump stroke setting multiplied by 100.

Accuracy is determined by comparing actual shot volume to the preset shot volume, calculated as the quotient of the actual shot volume to the preset shot volume, multiplied by 100.

Data in website is based on tests performed using water as the pumping media.

Note: All information contained in this catalog is subject to engineering change without notice.

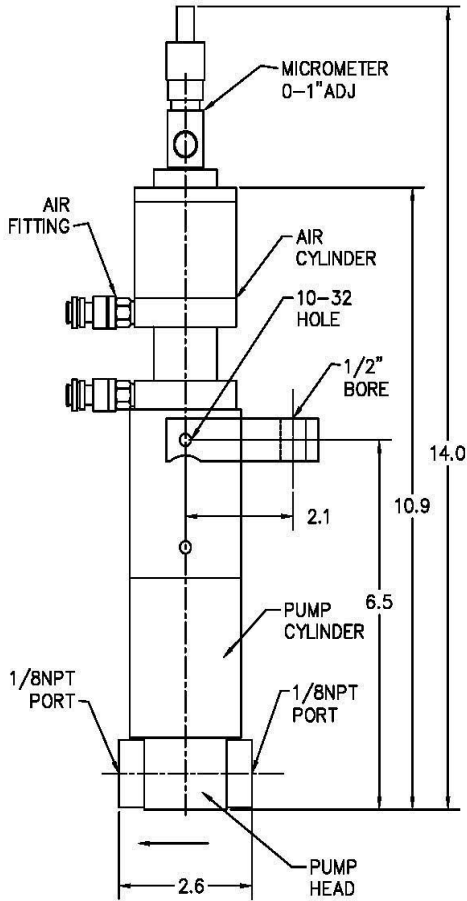
Patent Pending  
Teflon® is a registered trademark of Dupont.  
Viton® is a registered trademarks of DuPont Dow Elastomers.

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## P2000-CR Pump Module Dimensions (inches)



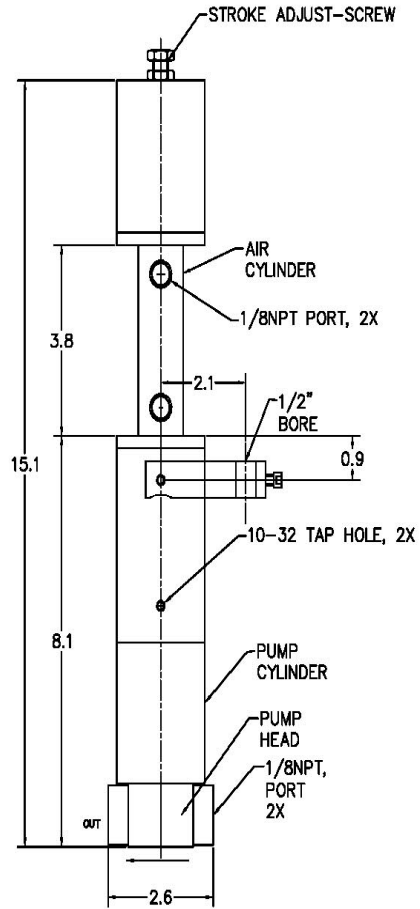
EMS PACIFIC P2000-CR,  
PUMP MODULE PPL1616-CR, PPL1608-CR  
(CAN BE MOUNTED IN VERTICAL OR HORIZONTAL POSITION)

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## P2000-CRX Pump Module Dimensions (inches)



EMS PACIFIC P2000-CRX  
PUMP MODULE PPL1616-CRX, PPL1608-CRX  
(CAN BE MOUNTED IN VERTICAL OR HORIZONTAL POSITION)

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