



# Pneumatic Position Control System

Bimba has a family of position control systems that are available to achieve closed loop pneumatic motion control.

- PCS - Pneumatic Control System
- SPCS - Servo Pneumatic Control System

PCS models are solenoid based sized specifically to the application. The SPCS provides a robust solution to accurate closed loop pneumatic positioning. The SPCS is easily installed and software configured, providing control of larger loads at higher velocities than its PCS counterpart.

Both models provide positioning accuracy up to  $\pm 1\%$  of the actuator's full stroke and can operate any of Bimba's position feedback actuators, PFC, PFCN, PTF, bore sizes 1-1/16" thru 3" to create a solution to your motion control application.

## System Comparison



Bore Size	PCS		SPCS	
	Max. Load (lbs.)	*Max Avg. Velocity (in/sec)	Max. Load (lbs.)	**Max Avg. Velocity (in/sec)
1-1/16"	30	4	50	20
1-1/2"	50	5.5	100	20
2"	90	6.5	200	20
2-1/2"	120	2	315	25
3"	200	2	450	20

\*maximum payload @ max average velocity \*\*maximum average velocity @ 50% of maximum payload

### Industries and Applications Include:

- **SIC 3549-00 Metal Working Machinery** - Brake shoe gauging operation
- **SIC 3549-01 Drawing Machinery** - Tension arm adjuster
- **SIC 3556-00 Food Products Machinery** - Tooling adjustment for various size jar tops
- **SIC 3559-03 Automotive Related Machinery** - Transmission band gauging operation
- **SIC 5084-00 Industrial Machinery and Equipment** - Part verification and fastener depth gauging

### Complimentary Bimba Products to Create a Closed Loop Pneumatic Motion Control Solution.

- PFC – Linear Resistive position feedback cylinder
- PFCN – Non-contact magnetostrictive sensor position feedback cylinder
- PFCL and PFCNL – rod lock models of the above cylinders. The rod lock activates and holds the cylinder in place in the event operating air is lost.
- PTF - rotary potentiometric feedback
- 0.3  $\mu\text{m}$  coalescing filter

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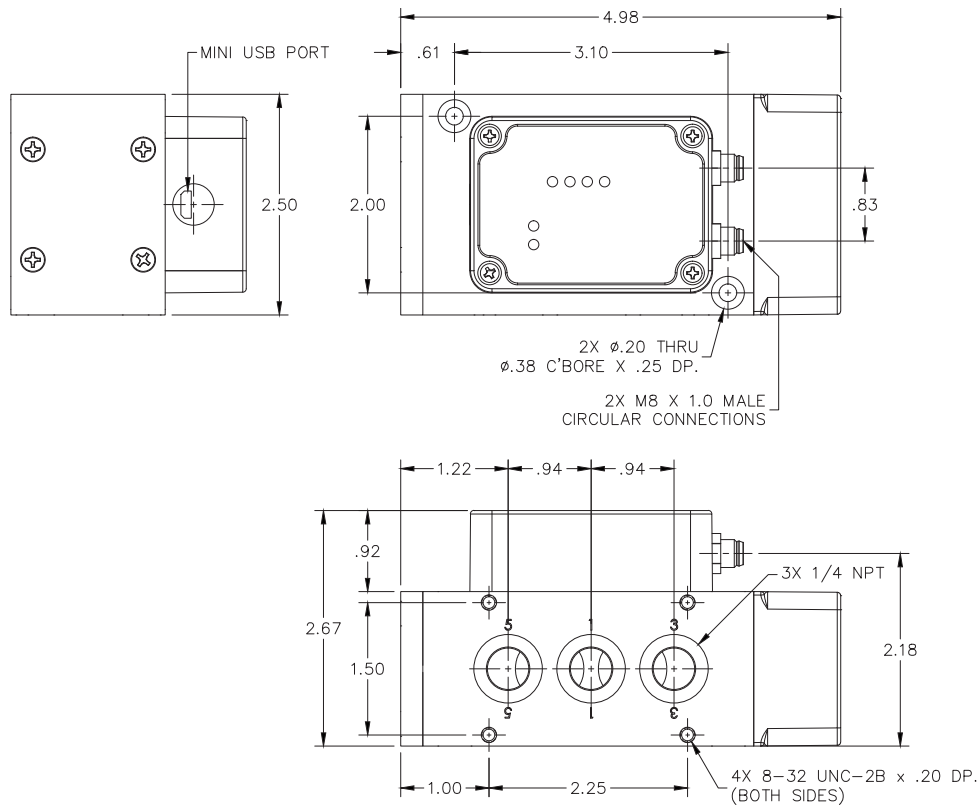
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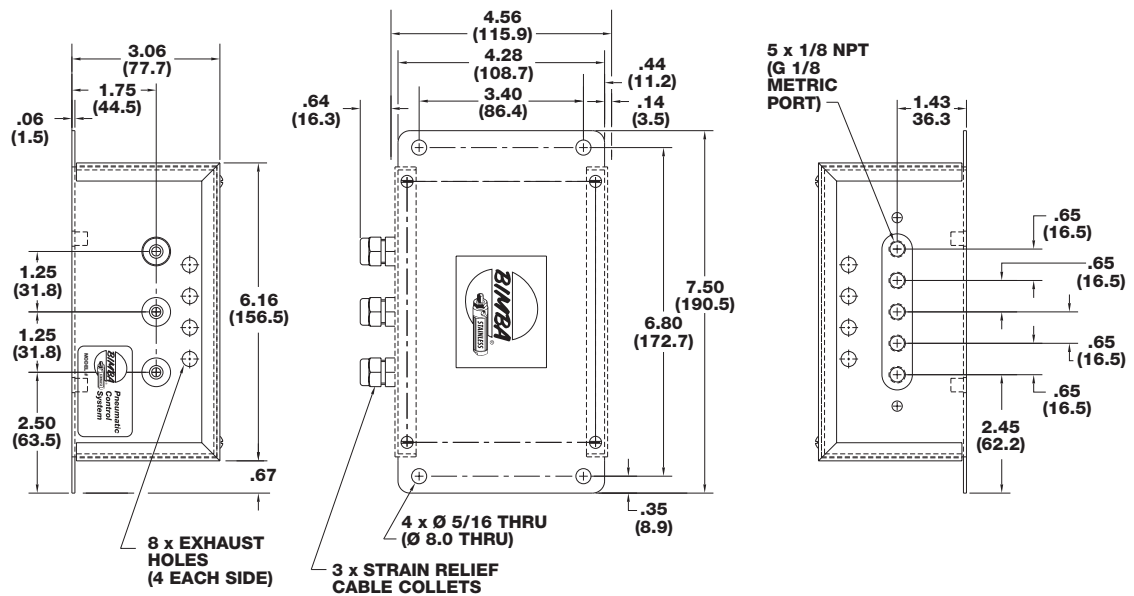




## SPCS Dimensional Information



## PCS Enclosure Dimensions



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