

# PC7

## Pump Controller



COMPATIBLE  
WITH HARSH  
CHEMICALS

NO METAL  
PARTS

ADJUSTABLE  
CYCLE RATE  
AIR VALVE

AIR  
OPERATED

NO STALL  
SHUTTLE

The PC7 operates as a single valve oscillator to switch the air supply pressure and exhaust for a pneumatic pump. It was designed with our no stall shuttle so the valve is always cycling. The cycle rate is controlled by a combination of air supply pressure and detent force, which is adjustable.

*This is PURE INNOVATION.*



**MAX TEMPERATURE**  
100 °C / 212 °F



**MAX PRESSURE**  
80 PSI/ .55 MPA



**MATERIALS**  
PFA or PP

**TREBOR**

Trebor International | North/South America +1 800 669 1303 | Europe +49 9120 1804-65 | Asia +65 6684 7319

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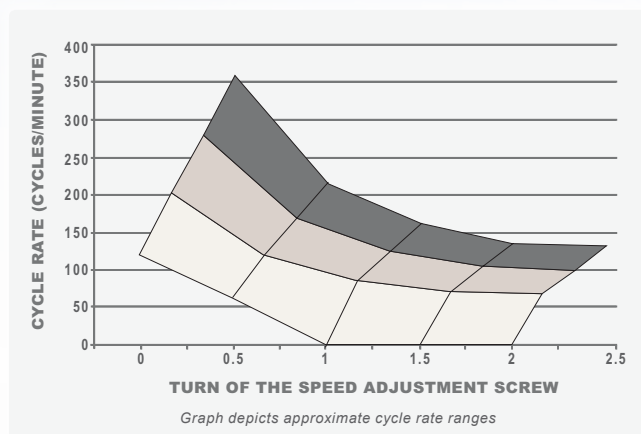
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## HOW IT WORKS

The PC7 pump controller operates as a single valve oscillator to control the cycle rate and act as the drive unit for your pneumatic pump. The primary components consist of two pressure chambers, an interconnecting shuttle valve, the detent mechanism, two air transfer ports, and exhaust muffler.

A single air supply feeds the PC7, which is then metered continuously into both of the pressure chambers. Depending on the shuttle valve position, one chamber's exhaust is blocked and the other is opened, causing the pressure to rise in the first chamber as it fills with air. When the pressure applied to the shuttle spool is great enough to overcome the detent force set by the adjustment screw, it will reverse position, thereby closing the exhaust to the other chamber and exhausting the pressure from the previous chamber. This cycle repeats itself every time the valve shifts.

## PC7 CYCLE RATE ADJUSTMENT



## PC7 PUMP CONTROLLER OPTIONS

CONTROLLERS	PC7F	PC7 PFA (FM4910 Compliant)
	PC7P	PC7 Polypropylene
OPTIONS	A0	No option added
	A1	Fiber optic leak detection probe (requires optic amplifier)

Example of an order number based on configuration options:

PC7F A1

## COMPATIBLE PUMPS

Purus 20  
Purus PCP  
110  
610  
620  
Maxim 50  
Evolve 55

## DIMENSIONS IN MILLIMETERS (IN.)

