

# PPC SERIES - PPC5C

The MAC Proportional Pressure Controller, (PPC) is an innovative product which converts an electrical signal into a proportional pneumatic output. The PPC is unlike conventional I/P or V/P transducers. It offers much more in terms of performance, features, and reliability. The key to the MAC PPCs are two MAC 34, 45, 400, 47, 92 or 93 Series valves that are used to control the output pressure. The valves are operated by the PPCs closed loop electronic control circuit. Feedback is obtained from one or two transducers. The balanced poppet, fast response, and high flow of these two MAC Valves provide outstanding performance characteristics for the PPC. For more information please ask our team at Mac Valves Pacific.

**Stock Part Number:** PPC5C-ABA-DGAA-CAA-GB

Port Size	Flow (Max)(Cv/NI/min)	Pressure Range	Individual Mounting
1/8"	0.07/70, 0.09/90	Contact MVP	Covered Analog

### OPERATIONAL BENEFITS

- Reliable operation, using two MAC 34 Series with balanced poppet.
- Fast response.
- Long life & High flow.
- Low power consumption.
- Rugged enclosure.
- Not affected by vibrations.
- Accurate pressure control.
- Can be stand alone or used in combination with our remote air sandwich regulators.
- Analog command signal and output.



PPC5C

### PPC5C - ANALOG

PPC5C - X X X - X X X - X X X - X X  
 T T T T T T T T T T T T  
 1 2 3 4 5 6 7 8 9 10 11 12

<b>1 - Type</b>	
A Analog	
<b>2 - Porting</b>	
B 1/8" BSPPL Side Ports	
C 1/8" BSPTR Bottom Ports	
<b>3 - Feedback</b>	
A Single Transducer Internal Sense (Pressure)	
B Single Xducer/External Sense (Pressure)	
<b>4 - Pressure</b>	
A 100 PSI	B 60 PSI
C 30 PSI	D 15 PSI
E 50 PSI	F 80 PSI
G 2 PSI	H 20 PSI
J 75 PSI	K 117 PSI
L 4 PSI	M 150 PSI
N 10 PSI	P 90 PSI
V VAC	
<b>5 - Pressure Reference</b>	
G Gauge Pressure	D Differential Pressure
<b>6 - Accuracy</b>	
A +/- 1.5% Full Scale	B +/- 1.0% Full Scale
C +/- 0.5% Full Scale	E +/- 2.5% Full Scale
<b>7 - Flow</b>	
A Fill 0.07 Exhaust 0.07	B Fill 0.09 Exhaust 0.09
C Fill 0.07 Exhaust 0.09	

<b>8 - Command Signal</b>	
B 0-10 Volt Differential	C 4-20 mA 3-Wire
D 4-20 mA 4-Wire	
<b>9 - Analog Monitor Signal</b>	
A None	
B 0-10 Volt	
<b>10 - Logic Monitor Signal</b>	
A None	
B TTL (Low Pressure Achieved)	
C TTL (High Pressure Achieved)	
D 24 Volt (Low Pressure Achieved)	
E 24 Volt (High Pressure Achieved)	
<b>11 - Electrical Connector</b>	
G 3-Wire Grommet	
H 4-Wire Grommet	
I 5-Wire Grommet	
J 6-Wire Grommet	
<b>12 - Cable Length</b>	
<i>Option from Section 11:</i>	
O No Cable	
B 3 Ft. Cable	
D 6 Ft. Cable	
E 12 Ft. Cable	

*Note: Other options and configuration available*

## PPC5C - ANALOG WITH REMOTE TRANSDUCER

PPC5C -  $\begin{matrix} \text{X} & \text{X} & \text{X} & - & \text{X} & \text{X} & \text{X} & \text{X} & - & \text{X} & \text{X} & \text{X} & - & \text{X} & \text{X} \\ \text{T} & \text{T} & \text{T} & & \text{T} & \text{T} & \text{T} & \text{T} & & \text{T} & \text{T} & \text{T} & & \text{T} & \text{T} \\ 1 & 2 & 3 & & 4 & 5 & 6 & 7 & & 8 & 9 & 10 & & 11 & 12 \end{matrix}$

### 1 - Type

R Analog with Remote Transducer

### 2 - Porting

#### Side Ports

A 1/8" NPTF                      B 1/8" BSPPL  
C 1/8" BSPTR

#### Bottom Ports

D 1/8" NPTF                      E 1/8" BSPPL  
F 1/8" BSPTR                      G Bottom port O-ring Mount

### 3 - Feedback

A Dual Transducer Remote Sense

### 4 - Pressure

A 100/6.7                      B 60/4  
C 30/2                          E 50/3.3  
F 80/5.3                      H 20/1.3  
J 75/5                          K 117/7.8  
P 90/6

### 5 - Pressure Reference

G Gauge Pressure

### 6 - Remote Length Cable

A 4 ft./1.2m                      B 8 ft./24m  
C 12 ft./3.6m                      D 16 ft./4.8m  
E 20 ft./6m

### 7 - Flow Cv/NI/min - Fill & Exh.

A 0.07/70 0.07/70                      B 0.09/90 0.09/90

### 8 - Command Signal

B 0-10 Volt Differential                      C 4-20 mA 3-Wire  
D 4-20 mA 4-Wire

### 9 - Analog Monitor Signal

A None                          B 0-10 Volt

### 10 - Logic Monitor Signal

A None  
B TTL (Low Pressure Achieved)  
C TTL (High Pressure Achieved)  
D 24 Volt (Low Pressure Achieved)  
E 24 Volt (High Pressure Achieved)

### 11 - Electrical Connector

A 3 Pin Mini                      B 5 Pin Mini  
C 6 Pin Mini                      D 3 Pin Micro  
E 5 Pin Micro                      F 6 Pin Micro  
G 3 Wire Grommet                      H 4 Wire Grommet  
I 5 Wire Grommet                      J 6 Wire Grommet

### 12 - Cable Length

Option from Section 11:

O No Cable                      B 3 Ft. Cable  
D 6 Ft. Cable                      E 12 Ft. Cable

Note: Other options and configuration available

