

P31P & P32P Proportional Regulators

- Very fast response times
- Accurate output pressure
- Parameter settings
- Selectable I/O parameters
- Quick, full flow exhaust
- LED display indicates output pressure
- No air consumption in steady state
- Multiple mounting options
- Protection to IP65

P31P Series
Bottom exhaustP32P Series
Bottom exhaust

Operating Information

Flow capacity*:	P31P	40 scfm (19 dm³/s, ANR)
	P32P	120 scfm (57 dm³/s, ANR)
Temperature range:	32°F to 122°F (0°C to 50°C)	
Supply pressure (max):	2 bar unit	36.3 psig (2.5 bar)
	10 bar unit	152 psig (10.5 bar)
Operating pressure (min):	P2 pressure + 7.3 psig (0.5 bar)	
Working medium:	Compressed air or inert gasses, filtered to 40µ	
Pressure range:	0 to 30 psig (0 to 2 bar)	
	0 to 145 psig (0 to 10 bar)	
Weight:	P31P	0.64 lb (0.291 kg)
	P32P	1.42 lb (0.645 kg)

* Inlet pressure 91.3 psig (6.3 bar), inlet pressure and 4.9 psig (0.34 bar) pressure drop.

Port Size	Description	Part Number
1/4"	145 psig (0-10 bar), NC 0-10V	P31PA12AD2VD1A
1/2"	145 psig (0-10 bar), NC 0-10V	P32PA14AD2VD1A

Ordering Information:

P31PA		1	2	A	S	2	V	D	1	A	
Body Size		Thread Type		Port Size		Power Supply		Control Signal		Input Connector	
Global Modular Mini (1/4")		BSPP		2		2		V		1	
Global Modular Compact (1/2")		NPT		4				A		M12 (4-pin)	
						Pressure Range				Output Signal	
						Z				D	
						S				P	
						D				N	
										M	
										</	

Technical Information

Accuracy

+/- 1.0% of F.S.*

* Full scale (F.S.) - For 2 bar (29 psig) versions this will be 2 bar (29 psig), for the 10 bar (145 psig) version full scale will be 10 bar (145 psig).

Air consumption

No consumption in stable regulated situation.

Display

The regulator is provided with a digital display, indicating the output pressure, either in bar or psig.

The factory setting is as indicated on the label, can be changed through to software at all times (parameter 14)

Supply voltage

24 VDC +/- 10%

Power consumption

Max. 1.1W with unloaded signal outputs

Control signals

The electronic pressure regulator can be externally controlled through an analogue control signal of either 0-10V or 4-20mA. (parameter 4).

Output signals

As soon as the output pressure is within the signal band a signal is given of 24VDC, PNP Ri = 1 kOhm

Outside the signal band this connection is 0V.

Connections

(In case of output signal (Option D)

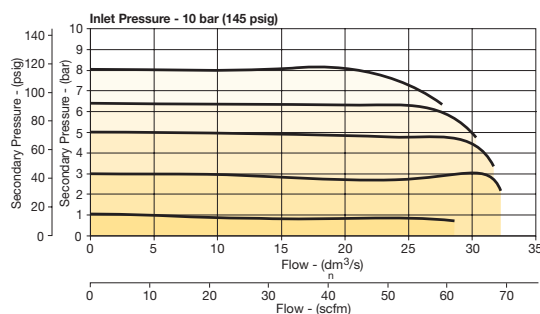
Central M12 connector 4-pole

The electrical connections are as follows:

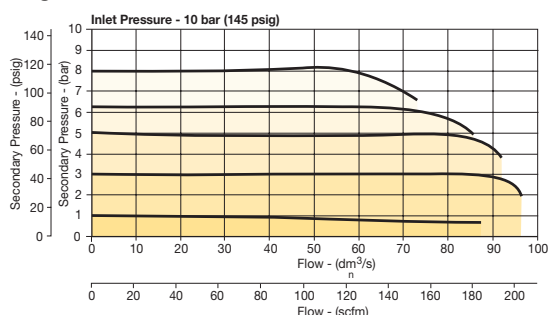
Pin No.		Function	Color
1	24 V	Supply	Brown
2	0 to 10 V	Control Signal Ri = 100k Ω	White
	4 to 20mA	Control Signal Ri = 500 Ω	
3	0 V (GND)	Supply & Set Point Ground	Blue
4	24 V	Alarm Output Signal	Black

Flow Charts

P31P Regulator 1/4" Ports



P32P Regulator 1/2" Ports



Degree of protection: IP65

EU conformity

CE: standard

EMC: according to directive 89/336/EEC

This pressure regulator is in accordance with:

EN 61000-6-1:2001

EN 61000-6-2:2001

EN 61000-6-3:2001

EN 61000-6-4:2001

Mounting position

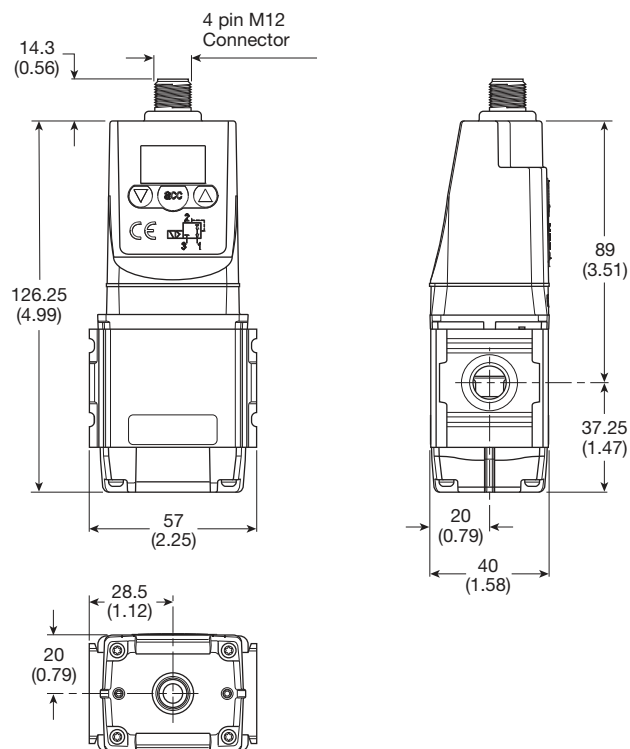
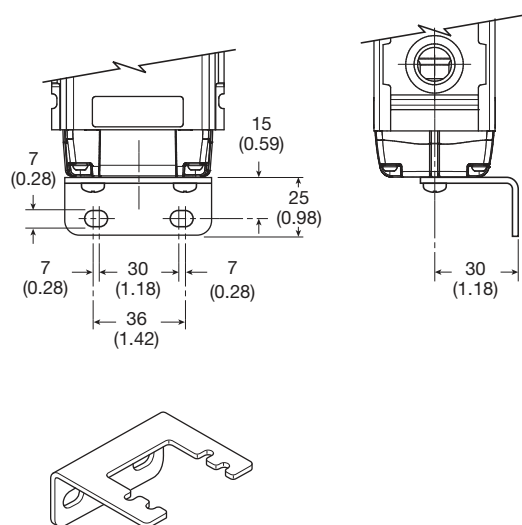
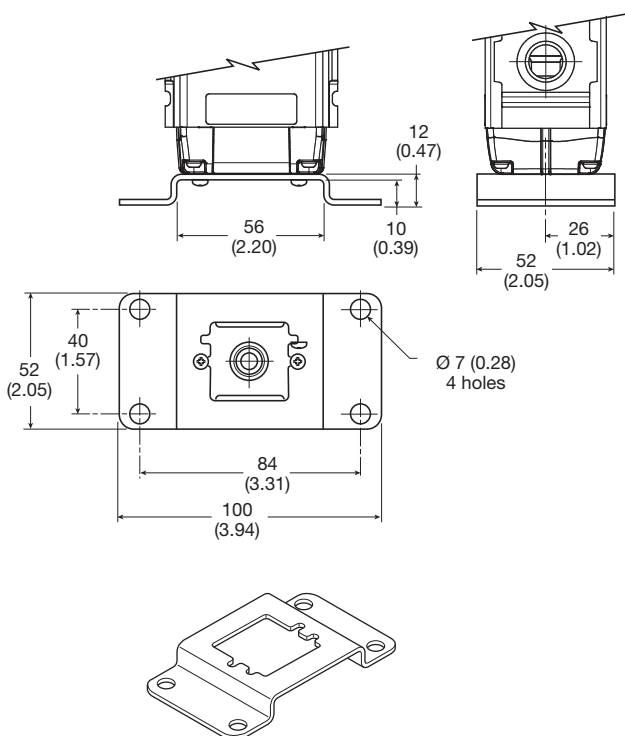
Preferably vertical, with the cable gland on top.

Materials: P31P & P32P

Magnet core	Steel
Solenoid valve poppet	FPM
Solenoid valve housing	Techno polymer
Regulator body (P31P & P32P versions)	Aluminum
Regulator top housing	Nylon
Valve head	Brass & NBR
Remaining seals	NBR

P31P

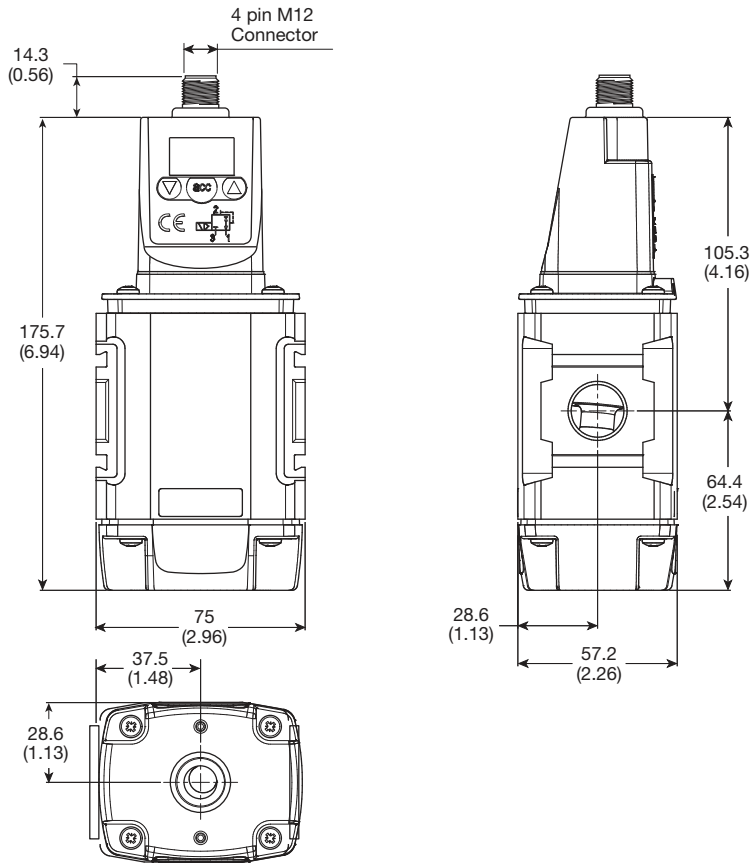
Dimensions inches (mm)

**L-Bracket****P3HKA00ML****Foot Bracket****P3HKA00MC****Cables**

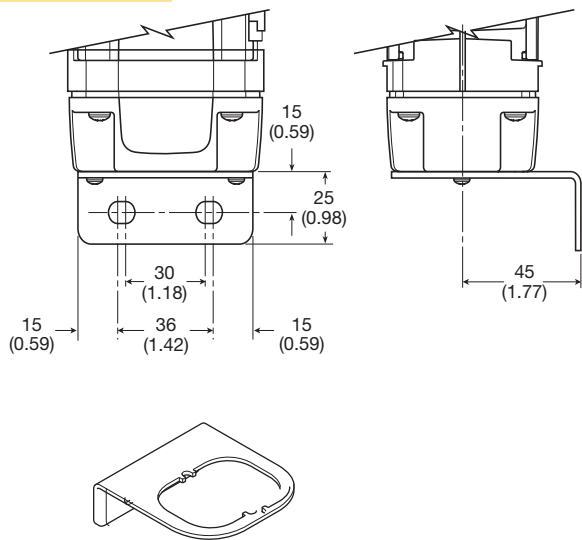
Description	Part Number
2 mtr. cable with moulded straight M12x1 connector	CB-M12-4P-2M

Most Popular

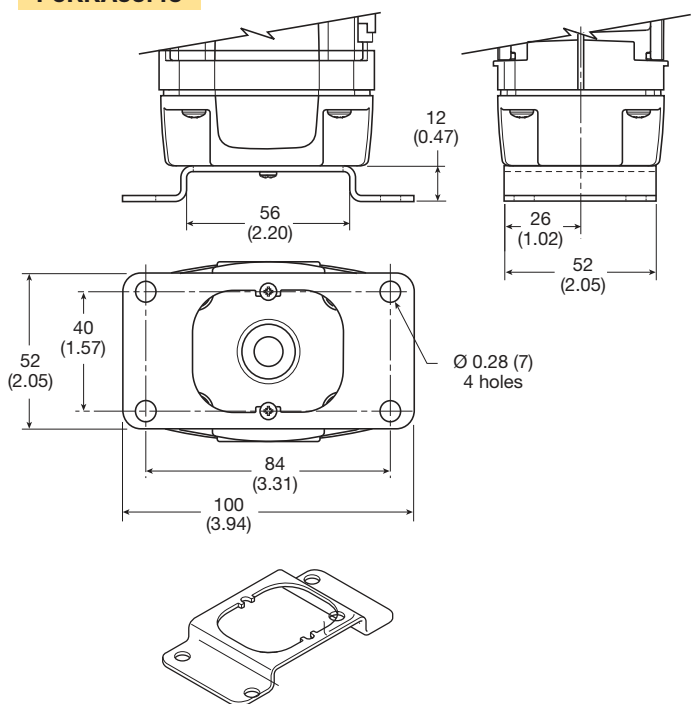
P32P
Dimensions inches (mm)



L-Bracket
P3KKA00ML



Foot Bracket
P3KKA00MC



Cables

Description	Part Number
2 mtr. cable with moulded straight M12x1 connector	CB-M12-4P-2M

Most Popular

