

Technical Data for Pressure Gauges and Single Valve Pressure Controllers

The following specifications are for the standard configuration of the Alicat product as shipped from the factory. There are many low-cost customization options available. PCR Series high flow pressure controllers are for applications with required flows above 20LPM. Please contact Application Assistance for additional PCR operating specifications.

Operating Specifications

Specification	P Series	PC & PCR Series	Description
Full scale pressure < 2" H2O Accuracy	Consult Factory		Full Scale
Full scale pressure ≥ 2" H2O Standard Accuracy	± 0.25%		Full Scale
Full scale pressure ≥ 2" H2O High Accuracy Option	± 0.125%		Full Scale
Repeatability	± 0.08%		Full Scale
Turndown Ratio	200:1		
Adjustable Response Time ¹	5	100	Milliseconds
Operating Temperature	-10 to +50		Degree Celsius
Zero Shift	0.02%		Full Scale / °Celsius
Span Shift	0.02%		Full Scale / °Celsius
Excess Pressure	128% Measurable	102.4% Controllable	Full Scale
Burst Pressure	3X		Full Scale
Supply Current Peak	0.035	0.250 (PCR: 0.750)	Amp
Supply Voltage	7 – 30	12 – 30 (PCR Series = 24 – 30)	Volts dc
Input /Output Signal Standard	RS-232 Serial & 0-5Vdc or PROFIBUS ²		
Electrical Connections	8 Pin Mini-DIN or DB-15		
Wetted Materials ³	302 & 303 Stainless Steel, Viton®, Silicone RTV, Silicon, Glass. All Controllers add: 400 Series Stainless Steel. PC Series Controllers only add: Brass		

1. Volumes, feed pressures, exhaust pressures and line sizing will determine the limits of response times.
 2. If selecting PROFIBUS no analog signal is available. PROFIBUS units do not have the display. See PROFIBUS specifications for PROFIBUS supply voltages and currents.
 3. If your application demands a different material, please contact Application Assistance for available options.

Mechanical Specifications

Pressure Product	Mechanical Dimensions	Process Connections ¹
P Series Gauges	4.1"H x 2.4"W x 1.1"D	1/8" NPT Female
PC Series Controllers	4.1"H x 3.6"W x 1.1"D	1/8" NPT Female
PCR Series Controllers	5.3"H x 3.0"W x 5.5"D	3/4" NPT Female

1. Compatible with Swagelok® tube, Parker®, face seal, push connect & compression adapter fittings. Alternates available.

Standard Available Ranges

P Series Gauges			PC, PCR Series Controllers		
-15PSIG to 0PSIG			-15PSIG to 0PSIG		
2inH ₂ OD	2inH ₂ OG		2inH ₂ OD	2inH ₂ OG	
4inH ₂ OD	4inH ₂ OG		4inH ₂ OD	4inH ₂ OG	
1PSID	1PSIG		1PSID	1PSIG	
5PSID	5PSIG		5PSID	5PSIG	
15PSID	15PSIG	15PSIA	15PSID	15PSIG	15PSIA
30PSID	30PSIG	30PSIA	30PSID	30PSIG	30PSIA
100PSID	100PSIG	100PSIA	100PSID	100PSIG	100PSIA
150PSID		300PSIA	150PSID		300PSIA

Other ranges available. Please contact Application Assistance.

Select One Unit of Measure when Ordering		
PSIA	inHG	Atm
PSIG	inH ₂ O	Torr
mmHG	mBar	kPa