

Technical Data for Pressure Gauges and Single Valve Pressure Controllers

The following specifications are for the standard configuration of the product. There are many options available. PCR Series high flow pressure controllers are for applications with required flows above 20LPM. Please contact Info@alicat.com or 888-290-6060 for additional PCR operating specifications.

Standard Operating Specifications (Contact Alicat for available options)

Specification	P Series Gauges	PC & PCR Series Controllers	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	PC: 0.250 PCR: 0.750	Amp
Supply Voltage	7 – 30	P: 12 – 30 PCR: 24 – 30	Volts dc
Input /Output Signal Digital	Pressure		RS-232 Serial or RS-485 Serial or PROFIBUS ²
Electrical Connections	8 Pin Mini-DIN, DB9 or DB15		
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 supply voltages and supply currents.
 3. If your application demands a different material, please contact Info@alicat.com or 888-290-6060 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	5.5"H x 2.9"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	300PSIG	300PSIA	150PSID	300PSIG	300PSIA
	500PSIG	500PSIA		500PSIG*	500PSIA*

*Not available on PCR
 Other ranges available. Please contact Info@alicat.com or call 888-290-6060.

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

Compatible with all non-corrosive gases. For use with water or other liquids please contact Info@alicat.com or 888-290-6060. For aggressive gases, please see our PS, PCS and PCRS Series pressure gauges and controllers. ,

Technical Data for Dual Valve Pressure Controllers

The following specifications are for the standard configuration of the product. There are many options available. PCRD Series high flow pressure controllers are for applications with required flows above 20LPM. Please contact Info@alicat.com or 888-290-6060 for additional PCRD operating specifications.

Operating Specifications (Contact Alicat for available options)

Specification	PCD & PCRD Series Dual Valve Controllers	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
Feed Valve Orifice	0.050	Inches
Exhaust Valve Orifice	0.050	Inches
Alternate Valve Orifices Available	0.010 or 0.030	Inches
Repeatability	± 0.08%	Full Scale
Turndown Ratio	200:1	
Adjustable Response Time ¹	≤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	102.4% Controllable	Full Scale
Burst Pressure	≥3X	Full Scale
Supply Current Peak	PCD: 0.250 PCRD: 0.750	Amp
Supply Current Average	0.050	Amp
Supply Voltage	PCD: 12 – 30 PCRD : 24 – 30	Volts dc
Input /Output Signal Digital	Pressure	RS-232 Serial or RS-485 Serial or PROFIBUS ²
Electrical Connections	8 Pin Mini-DIN, DB9 or DB15	
Wetted Materials ³	302 & 303 Stainless Steel, Viton®, Silicone RTV, Brass, 400 Series Stainless Steel (standard units are for non-corrosive gases), Silicon, Glass.	

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 supply voltages and supply currents. Please contact Info@alicat.com or 888-290-6060 for PCD or PCRD - PROFIBUS options.
 3. If your application demands a different material, please contact Info@alicat.com or 888-290-6060 for available options.

Mechanical Specifications

Dual Valve Controllers	Mechanical Dimensions	Process Connections ¹
PCD All Standard Ranges	4.1"H x 4.8"W x 1.1"D	1/8" NPT Female
PCRD All Standard Ranges	5.5"H x 10.6"W x 2.3"D	3/4" NPT Female

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

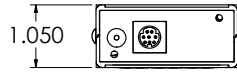
Standard Available Ranges

PCD and PCRD Series Pressure Controllers		
-15PSIG to 0PSIG		
2inH ₂ OD	2inH ₂ OG	
4inH ₂ OD	4inH ₂ OG	
1PSID	1PSIG	
5PSID	5PSIG	
15PSID	15PSIG	15PSIA
30PSID	30PSIG	30PSIA
100PSID	100PSIG	100PSIA
150PSID	300PSIG	300PSIA
	500PSIG*	500PSIA*

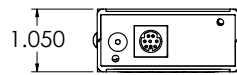
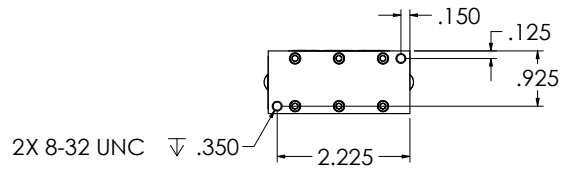
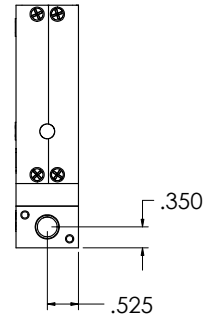
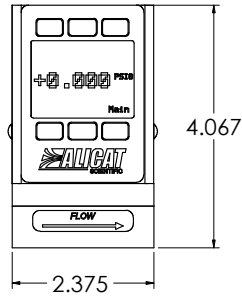
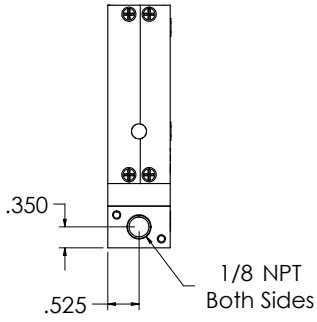
*Not available on PCRD
 Other ranges available. Please contact Info@alicat.com or call 888-290-6060.

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

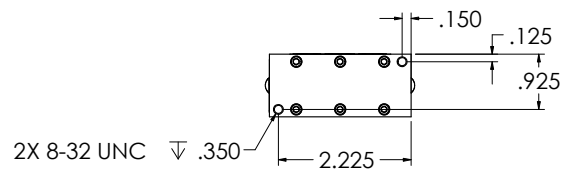
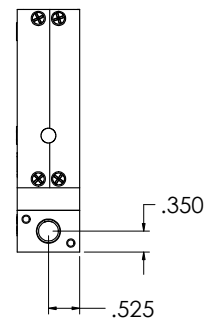
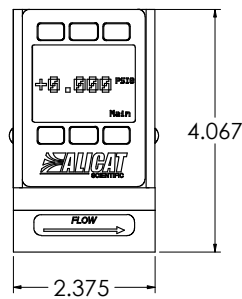
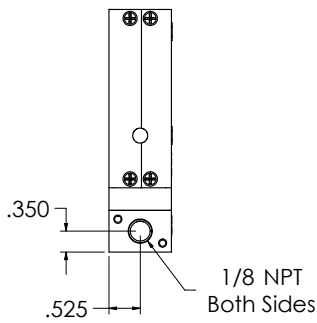
Compatible with all non-corrosive gases. For use with water or other liquids please contact Info@alicat.com or 888-290-6060. For aggressive gases, please see our PCDS and PCRDS Series pressure controllers.



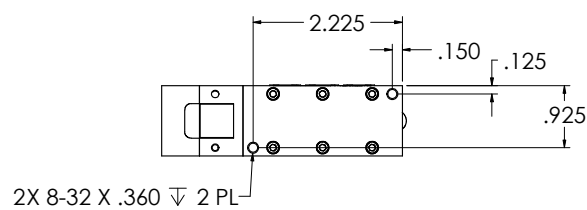
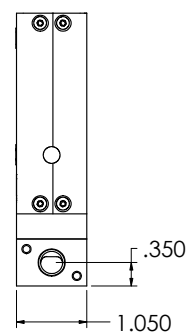
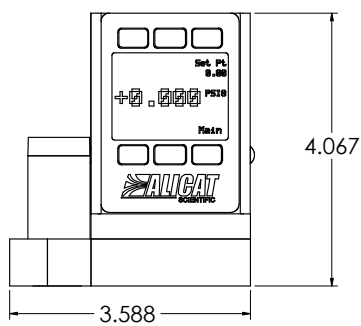
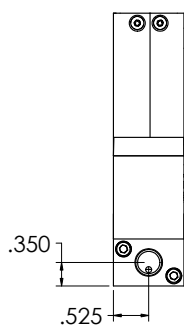
P Series:
All standard ranges

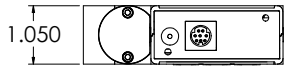


P Series:
Differential Pressure
All standard ranges

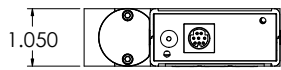
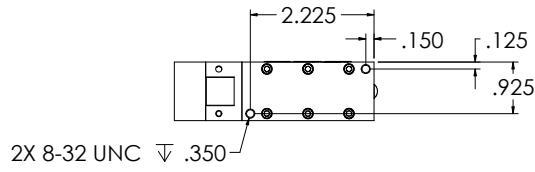
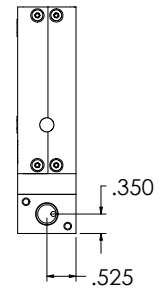
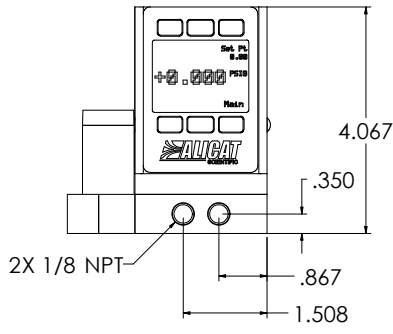
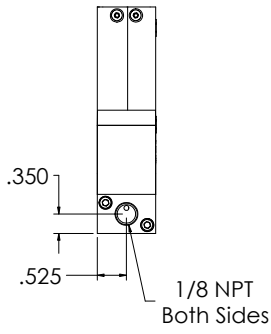


PC Series:
All standard ranges

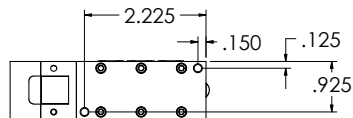
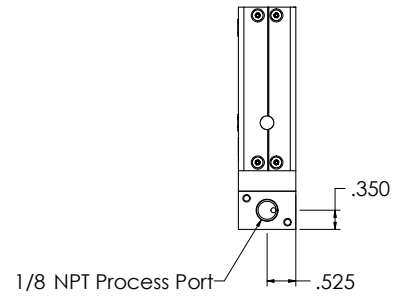
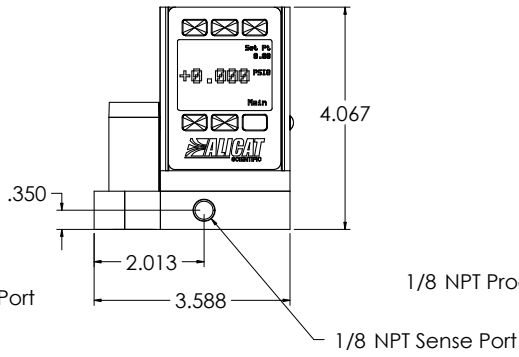
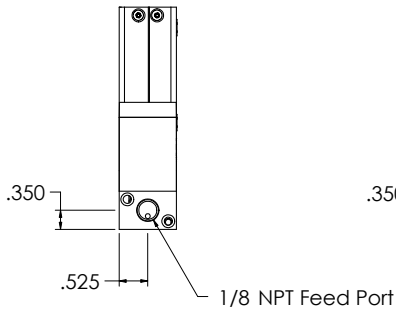




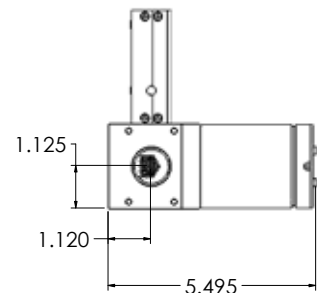
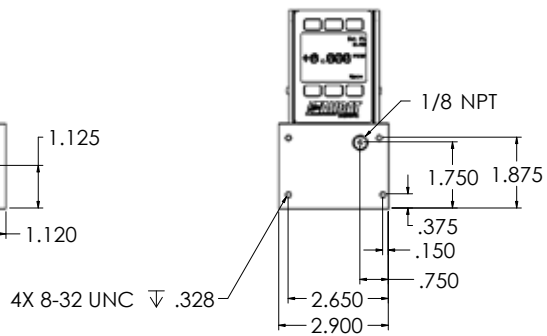
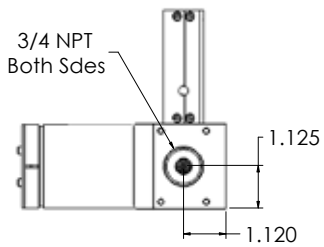
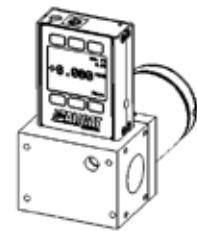
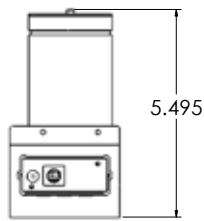
PC Series:
Differential Pressure
All standard ranges



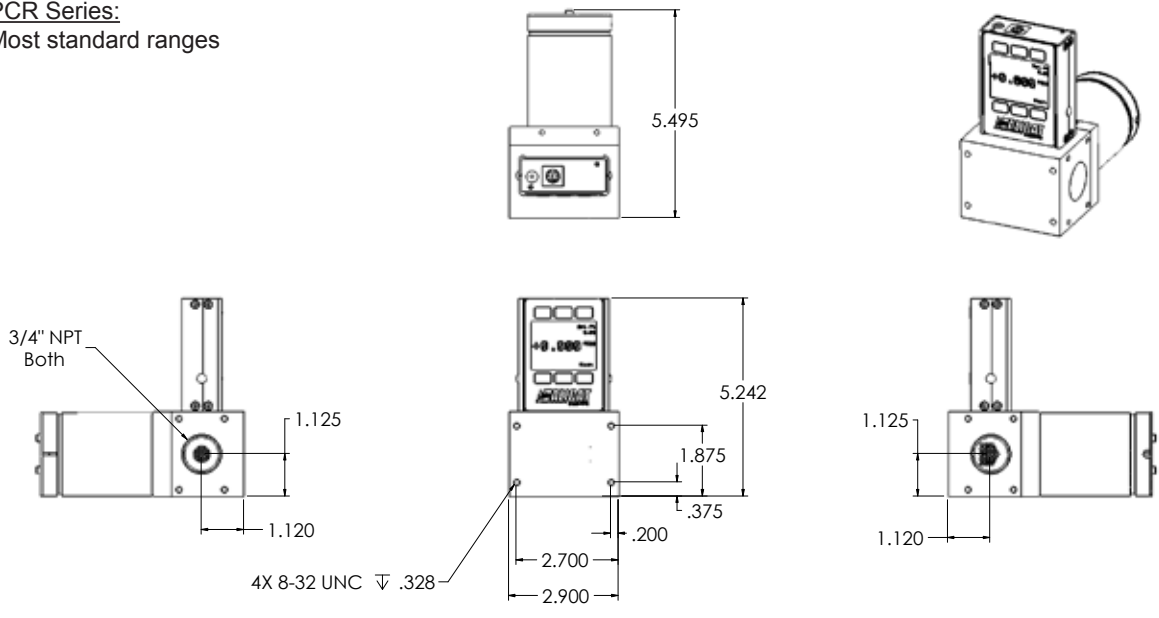
PC3 Series:
All standard ranges



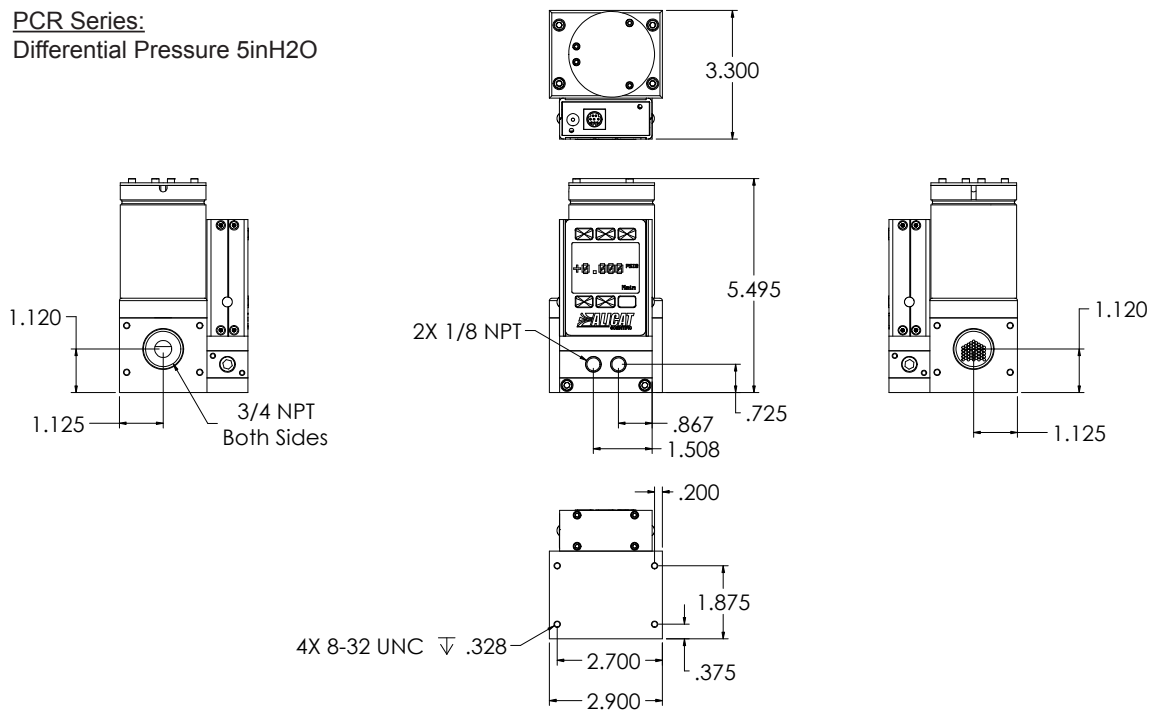
PCR3 Series:
All standard ranges



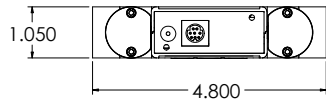
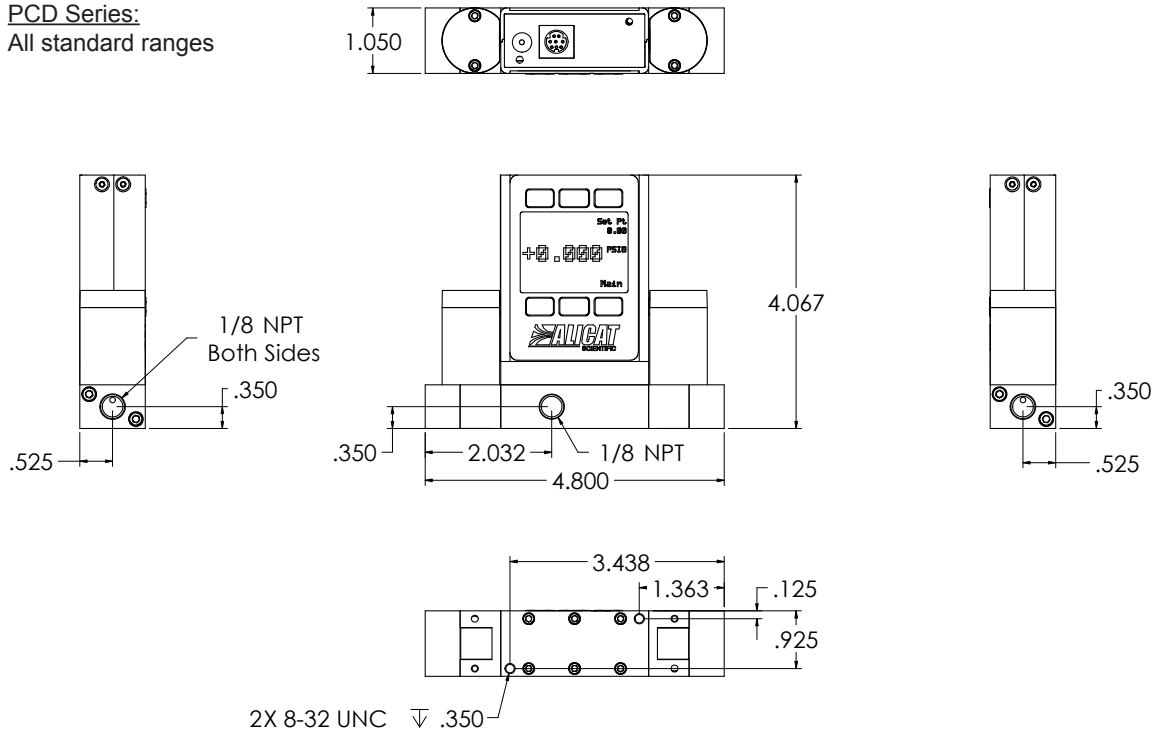
PCR Series:
Most standard ranges



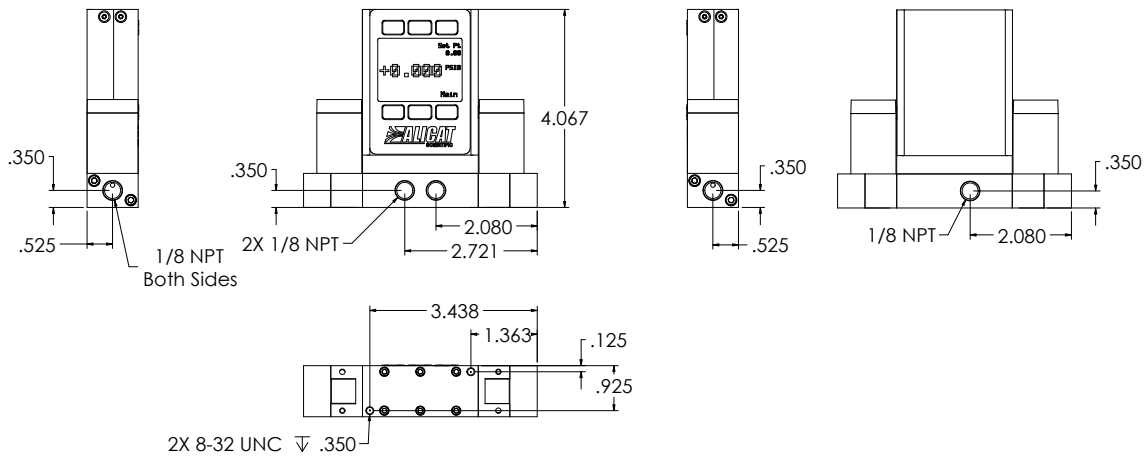
PCR Series:
Differential Pressure 5inH2O



PCD Series:
All standard ranges



PCD Series:
Differential Pressure
All standard ranges



PCRD Series:
All standard ranges

