

Millipore DSPAE100
IntelliFlow II Digital Flow Controller



\$350.00

In Stock

Qty Available: 1

New From Surplus Stock

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IntelliFlow® II Digital Flow Controller

Advanced digital technology with industry leading configurability



Performance Characteristics

IntelliFlow II is an advanced digital mass flow controller, expanding the attributes of the first generation IntelliFlow product line. Key enhancements for IntelliFlow II include:

- user configurability
- extension of flow range to 100 slpm (N₂ equivalent)
- advanced electronic, mechanical and software designs

User configurability allows customers to program generic MFCs to virtually any gas and range within select boundaries. In addition to superior performance, user configurability delivers significant cost savings through:

- inventory reduction
- reconfiguration efficiency (reduced time, complexity and cost)
- tool uptime improvements
- product lead-time compression

Product Features

Physics Modeling with Process Gas Validation

On-Tool Configurability

Pre-programmed Options

Software Level Access Control

Flexible Field Software Kit

Independent Communications and Diagnostic Interfaces

Diagnostic Software

Patented Signal Processing Architecture (#6,343,617)

High Flow Rate (≤ 100 slpm N₂ equiv.)

Product Benefits

Combines responsiveness and flexibility of theoretical modeling with lab proven results and performance

Optimizes MFC safety for operators and equipment

Allows pre-programming up to eight different gas and/or flow ranges per MFC for direct selection via DeviceNet™ communications

Password controlled user access prevents unauthorized MFC adjustments or use of diagnostic software

Allows part number creation and control, along with part labeling for optimal control of MFC configurations and part tracking

Provides diagnostic communication to the MFC without having to "interrupt" tool communications - this allows monitoring and data acquisition capabilities simultaneously with MFC operation for chamber and tool matching along with advanced "real-time" troubleshooting

Extensive array of diagnostic, monitoring and data acquisition tools-- Passive mode to acquire "real-time" performance parameters or active mode to force specific actions

Ensures robust DeviceNet Communications in real-time MFC control

Enables user configurable digital mass flow control for expanded process opportunities

Ordering information

1 - Default (NA if non-DeviceNet)
3 - DeviceNet Option Communications 7FFFH P=2, C=7
4 - DeviceNet Option Communications 7FFFH P=6, C=8
5 - DeviceNet Option Communications 7FFFH P=3, C=7

2

Kits and Accessories

Field Kit P/N #A332293001

The IntelliFlow II field kit provides a complete solution for on-tool programming of the device. This kit allows programming gas type and range, printing labels and performing full diagnostics. Field kit includes: (1) IntelliFlow II user software, (2) interface cables and adapters, (3) remote power supply and (4) portable thermal printer and labels.

Interface Kit P/N #A332293002

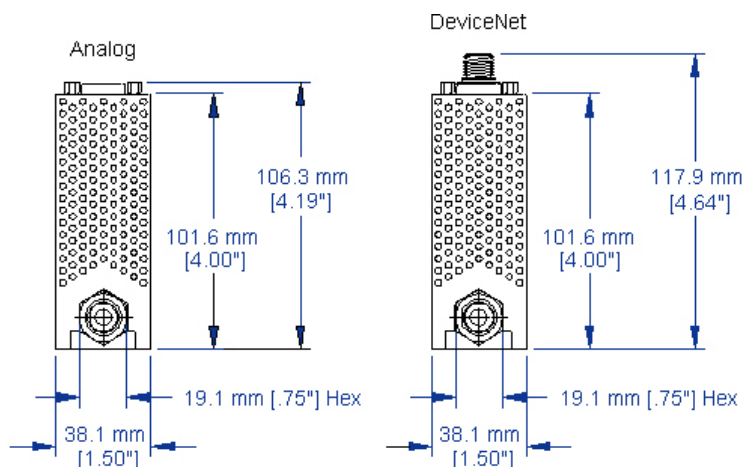
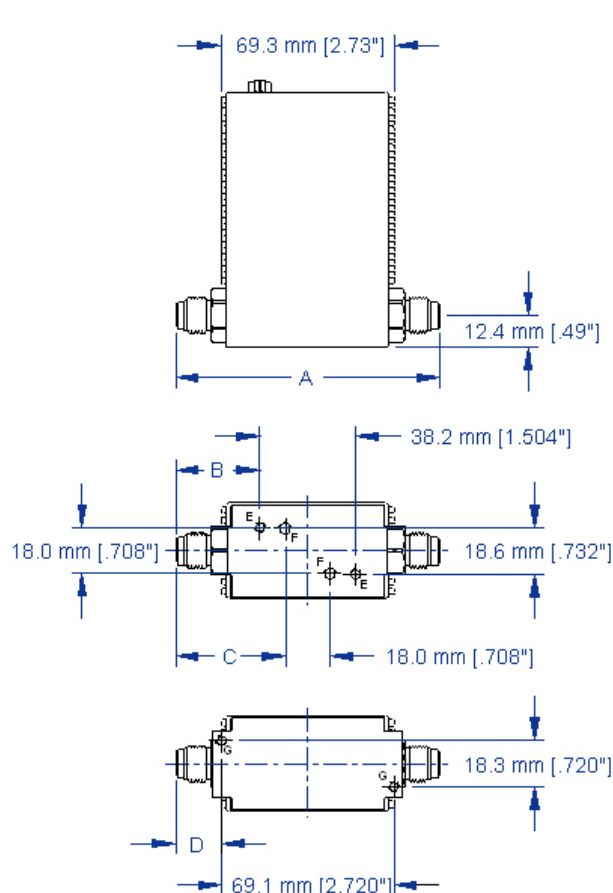
The IntelliFlow II interface kit provides software and cabling to perform on-tool diagnostic analysis. It includes: (1) IntelliFlow II user software, (2) interface cables and (3) adapters to connect the device to the user's laptop or PC.

Specifications

Performance		
Full Scale Flow (N ₂ equivalent)	≤ 30 slpm	30 slpm - 100 slpm
Turndown Ratio	50:1	50:1
Response/Settling Time	1 sec. (typical)	< 2.5 sec.
Accuracy (analog mode)	± (0.25% SP + 0.50% FS)	± (1.0% SP + 0.50% FS)
Accuracy (digital mode)	± (0.25% SP + 0.35% FS)	± (1.0% SP + 0.35% FS)
Linearity	± 0.50% full scale maximum	± 0.75% full scale maximum
Repeatability	± 0.15% full scale maximum	± 0.25% full scale maximum
Ambient Temp Coefficient	± 0.05% full scale/°C maximum (zero and span) Normally Closed ± 0.10% full scale/°C maximum (zero and span) Normally Open	± 0.10% full scale/°C maximum (zero and span)
Inlet Pressure Coefficient	± 0.007% full scale/psi (0.10% bar) with autozero disabled	± 0.02% full scale/psi
Electrical		
Input Voltage Requirement	Analog: ± 15 VDC (± 20%) DeviceNet: + 11-25 VDC	Analog: ± 15 VDC (± 20%) DeviceNet: + 11-25 VDC
Power Supply Sensitivity	± 0.05% full scale maximum	± 0.05% full scale maximum
Power Consumption	Analog: 3 watts maximum DeviceNet: 5 watt maximum	Analog: 7 watts maximum DeviceNet: 8 watt maximum
Analog I/O Signal	0-5 VDC	0-5 VDC
Digital Communication	RS-485 standard DeviceNet optional	RS-485 standard DeviceNet optional
Mechanical		
Control Valve Type	Normally closed or normally open solenoid valve, diaphragm isolated	Normally closed or normally open solenoid valve, diaphragm isolated
Materials Exposed to Process Gas	316L VIM/VAR, stainless steel, sapphire, ruby, Hasteloy C-22®, Inconel®	316L VIM/VAR stainless steel, 316L stainless steel, sapphire, Inconel, nickel 200
Leak Integrity (external)	< 1 x 10 ⁻¹⁰ atm.cc/sec.	< 1 x 10 ⁻¹⁰ atm.cc/sec.
Valve Leakthrough ¹	Normally Closed < 1% full scale	Normally Closed < 1% full scale
Surface Finish	5 µin Ra	5 µin Ra
Environmental		
Operating Temperature Range (ambient and gas)	0 - 50 °C	0 - 50 °C
Humidity	10 to 95% RH non-condensing	10 to 95% RH non-condensing
Maximum Overrange Pressure	140 psig (9.5 bar)	140 psig (9.5 bar)
Differential Press	7 - 40 psid (≤ 11 slpm) 15 - 40 psid (11 - 30 slpm)	30 - 50 psid

Note 1 - Valve leakthrough for normally open devices ≤ 2% Full Scale

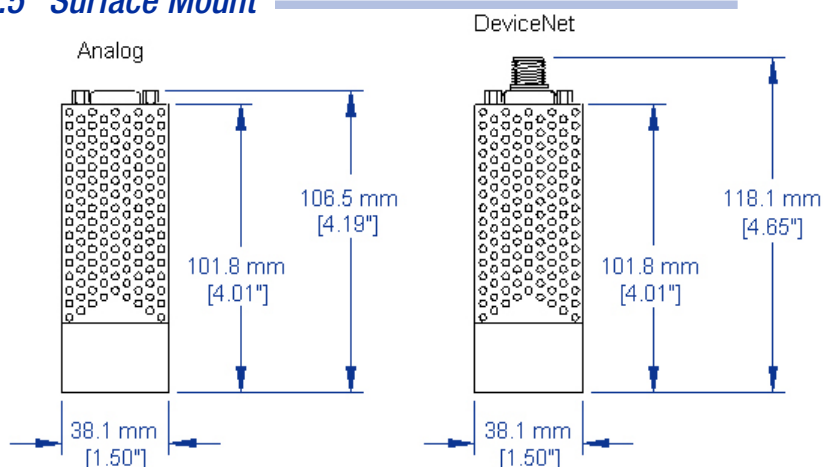
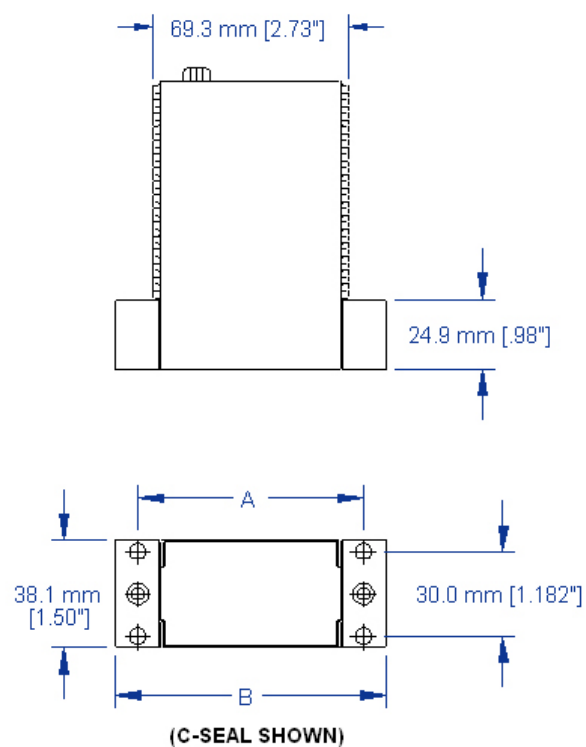
1/4" VCR



1/4 VCR
106MM OR 124MM LENGTHS

	A	B	C	D	E	F	G
106 mm (2936)	106.0 mm [4.173"]			18.45mm (0.726")			8-32 UNC-2B
124 mm (2900/260)	124.0 mm [4.882"]			27.45 mm [1.081"]			8-32 UNC-2B
124 mm SEMI Standard	124.0 mm [4.882"]	42.9 mm [1.689"]	53.0 mm [2.087"]		M4 x 0.7-6H	M5 x 0.8-6H SEMI SPEC	

1.5" Surface Mount

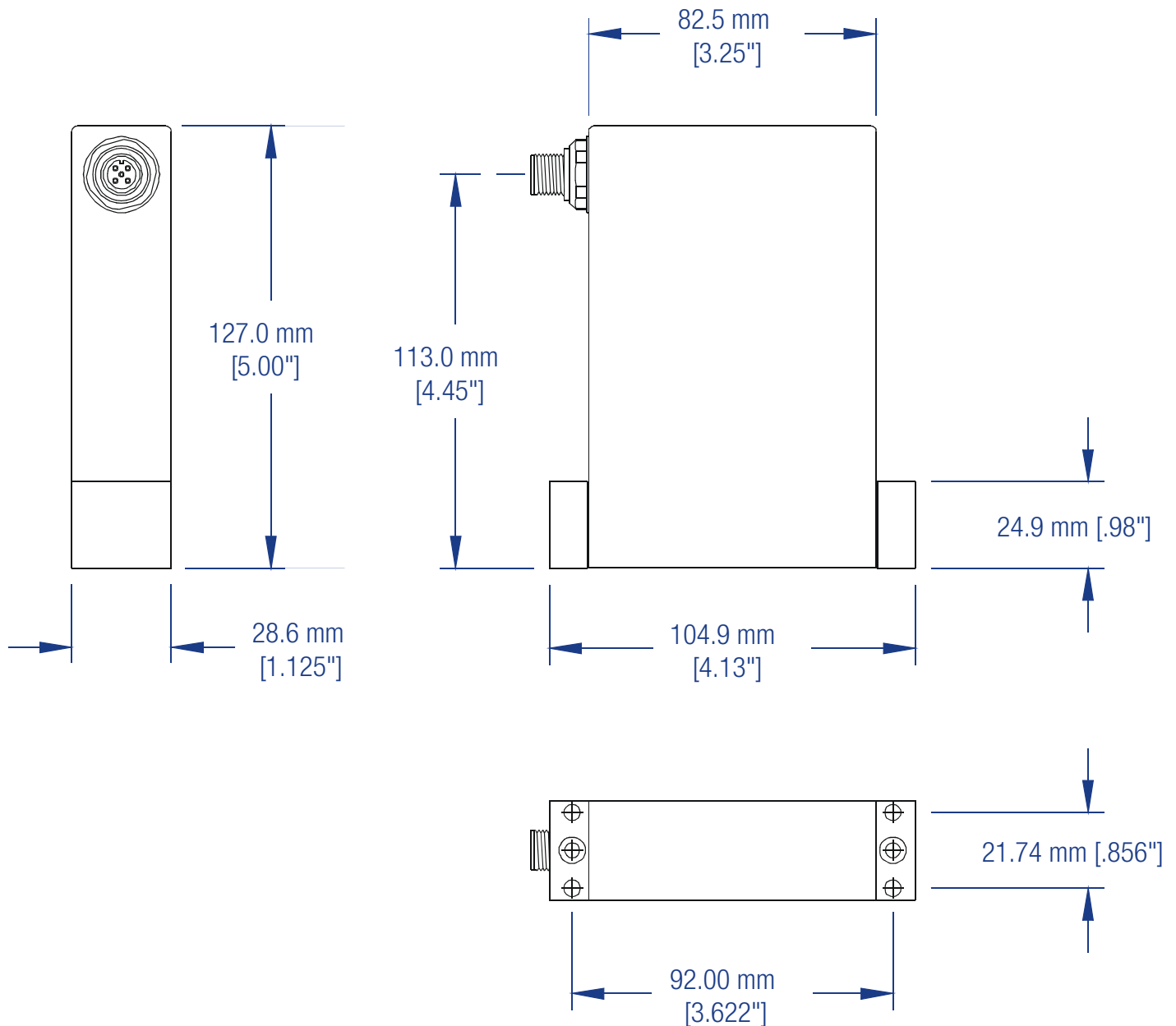
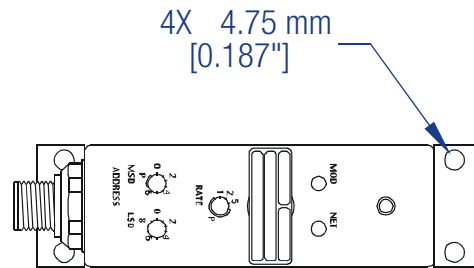


STANDARD or COMPACT LENGTH
C, CS AND W SEAL DESIGNS

	Standard 92 mm [3.62"]		Compact 80 mm [3.14"]	
SEAL TYPE	Dim A	Dim B	Dim A	Dim B
C-SEAL	92.0 mm [3.622"]	107.7 mm [4.242"]		
CS-SEAL			79.8 mm [3.142"]	92.8 mm [3.654"]
W-SEAL				

1.125" Surface Mount

1.125"
SURFACE MOUNT MFC

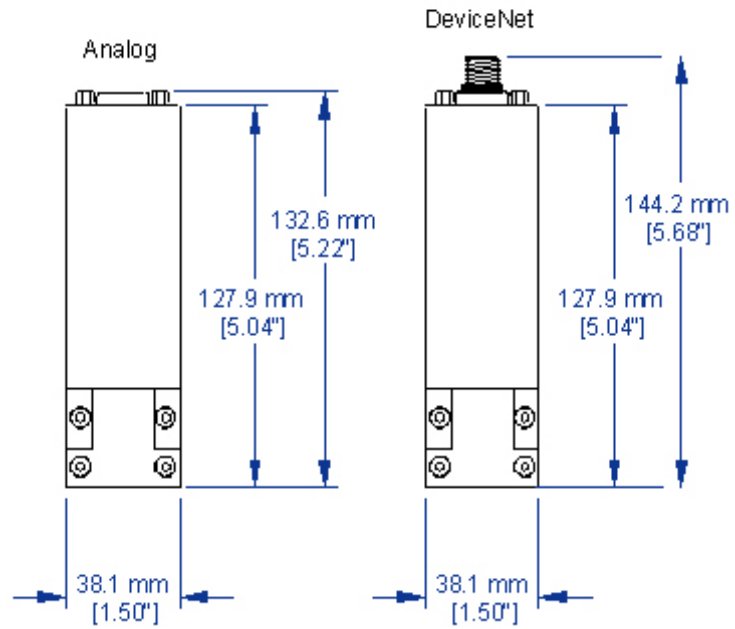
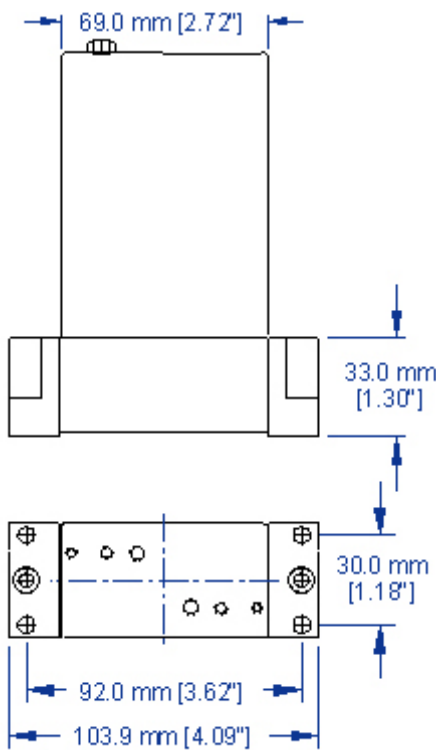




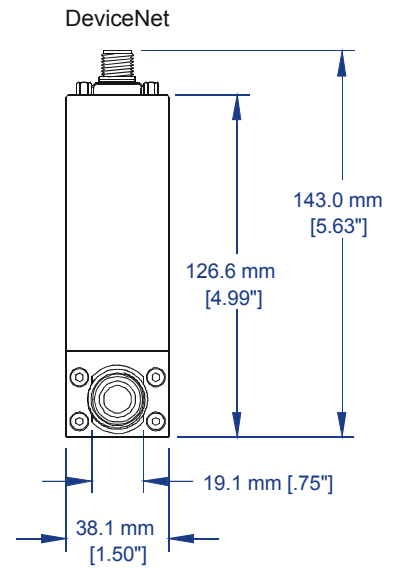
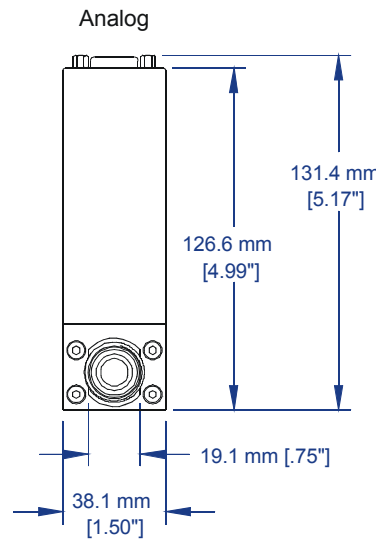
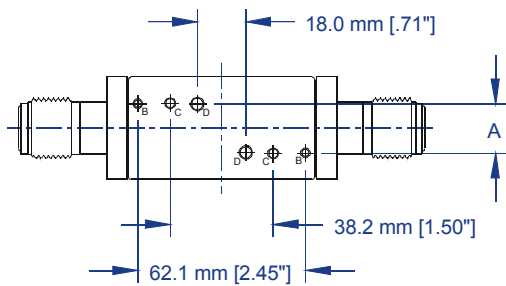
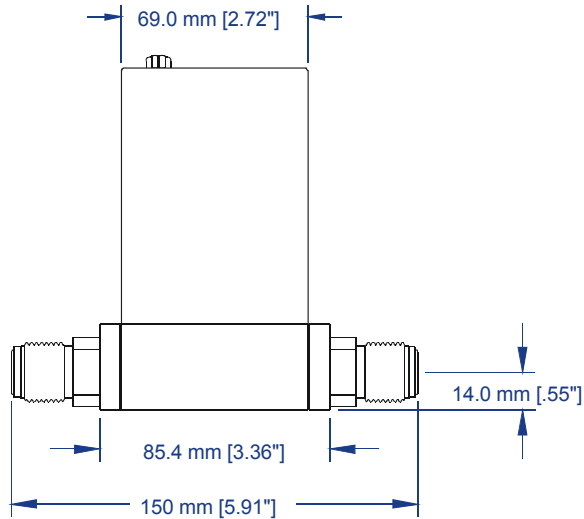
DeviceNet



Analog



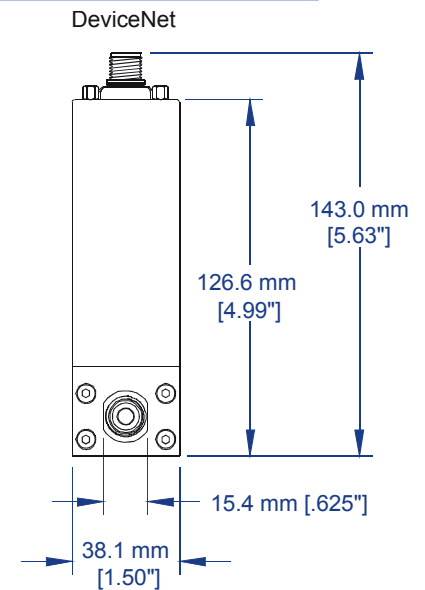
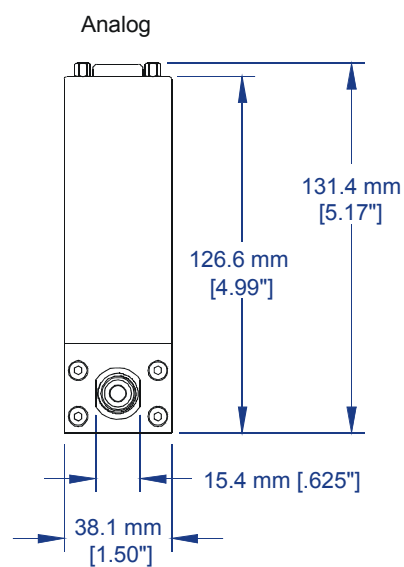
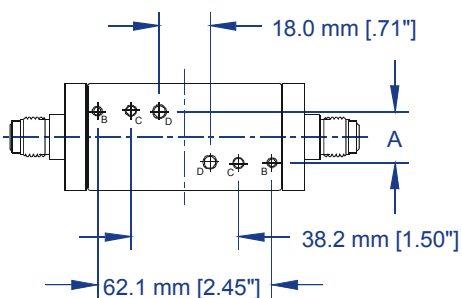
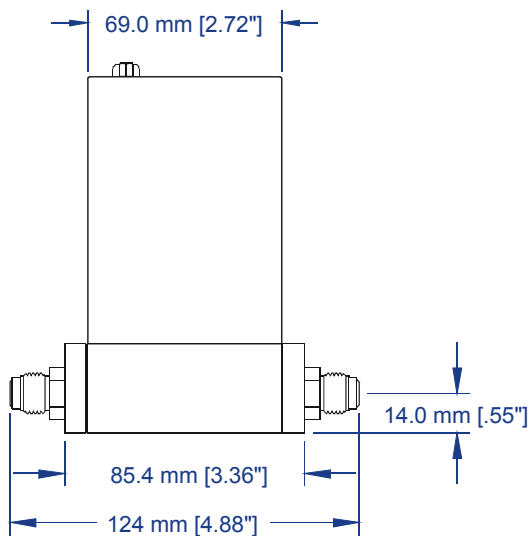
High Flow 3/8" (6-VCR)



HIGH FLOW
3/8" (6-VCR)

HOLES	DIM A		
	B TO B	C TO C	D TO D
DISTANCE	18.3 mm [.720"]	18.6 mm [.732"]	18.0 mm [.707"]
THREAD	6-32 UNC-2B	M4 X 0.7-6H	M5 X 0.8-6H

1/4" (4-VCR)



HIGH FLOW
1/4" (4-VCR)

HOLES	DIM A		
	B TO B	C TO C	D TO D
DISTANCE	18.3 mm [.720"]	18.6 mm [.732"]	18.0 mm [.707"]
THREAD	6-32 UNC-2B	M4 X 0.7-6H	M5 X 0.8-6H

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