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Tylan® FC2920/FM3920 Mass Flow Controllers and Flowmeters

Low cost mass flow controllers that provides reliable measurement and control up to 200 slpm

Product Profile



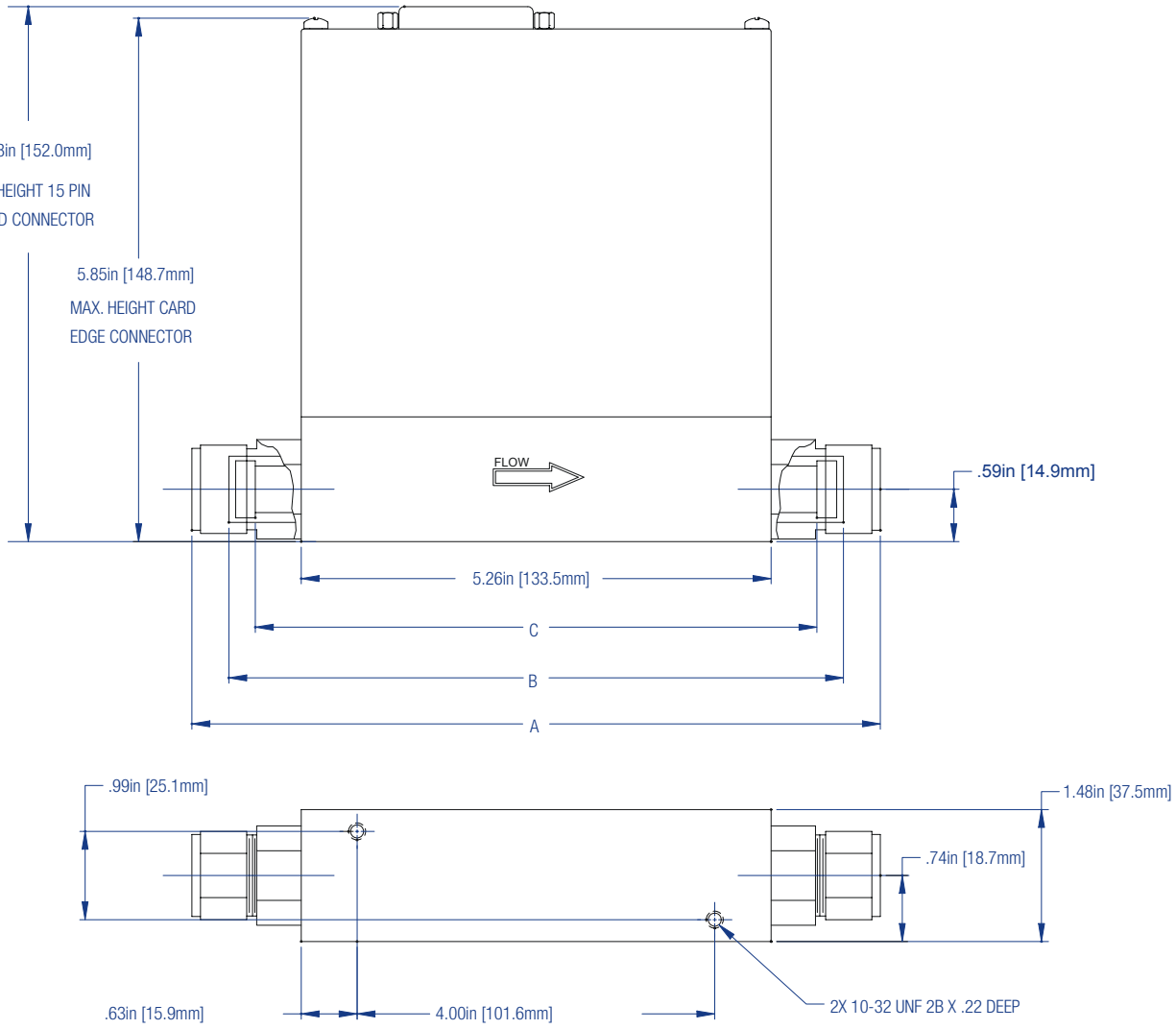
Process Values

Mykrolis's Tylan FC2920 mass flow controllers and the Tylan 3920 flowmeters accurately and reliably measure and control the mass flow rate of gases up to 200 slm (420 scfh) of nitrogen equivalents.

Product Features	Product Benefits
Thermal gas flow sensor	Can be mounted in any position without requiring zero adjustment.
Superior bypass design to operate under laminar flow conditions	Assures accuracy over the entire range of mass flow control. Easily removed for range changes.
Solenoid control valve	Completely compatible with reactive and corrosive materials.
Auto Zero circuitry	Automatically resets output to zero under no flow conditions, and shifts the entire calibration curve to cancel many effects of temperature coefficients and calibration drift.
Standard design	Industry standards pinouts and dimensions made the Tylan FC2920 easy to install in many systems.

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Tylan FC2920/FM3920 MFCs and Flowmeters - Dimensions



CODE	FITTING & SIZE	DIM A	DIM B	DIM C
6S	3/8" Swagelok	7.70in [195.4mm]	7.00in [177.6mm]	6.25in [158.7mm]
6V	3/8" VCR	———	7.58in [192.4mm]	———

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Tylan FC2920/FM3920 MFCs and Flowmeters - Ordering Information

Performance

Full Scale (N2 equivalent)	30 - 200 slpm
Turndown Ratio	25:1
Step Response Time	30-100 slm, 3 seconds (dependent on step response and conditions) **100-200 slm, 6 seconds (dependent on step response and conditions)**
Accuracy	± 2%full scale
Linearity	± 0.5% full scale
Repeatability	± 0.2% full scale
Reproduceability	± 0.3% full scale per 10 weeks
Pressure Coefficient	0.00001% per bar, 0.007% per psi (typical)
Temperature Coefficient	0.05% per °C (zero and span)
Attitude Sensitivity	< 0.25% @ 90° C without autozero

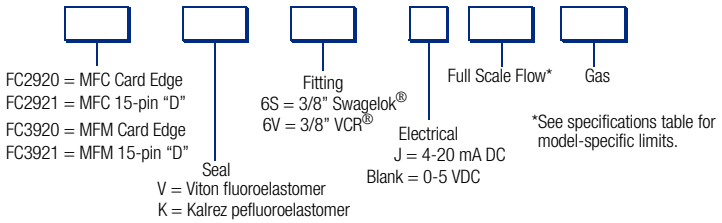
Mechanical

Valve (>1 million cycles)	Normally-closed solenoid
Materials	316 stainless steel, 420 stainless steel, PFA Teflon® fluoropolymer
Leak Integrity	5 x 10^{-9} atm-cc per sec (He) inboard
Leak Through Valve	< 4% full scale
Fittings	3/8" Swagelok or VCR

Electrical

Power Supply Sensitivity	< 0.01% per volt
Power Consumption	5.5 watts @ 15 VDC
Supply Voltage	± 15 VDC nominal ± 20%
Input/Output Signal	0-5 VDC
Supply Current	170mA max. (200 mA max @ ±18 VDC)
Input Impedance	500K ohms (minimum)
Minimum Load Impedance	2000 ohms
Option (FC2921/ FM3921)	4 - 20 mA DC
Supply Current	190 mA (220 mA @ 18 VDC)
Input Impedance	250 ohms
Maximum Load Impedance	250 ohms
Auto Zero	
Delay Time	80 ± seconds
Correction Time	< 2.5 seconds
Resolution	0.1% full scale
Range	± 2.5% full scale

Ordering Information



Environmental

Operating Temperature	5 – 50° C (ambient and gas)
Humidity	0 – 95% relative humidity, non-condensing
Maximum Operating Pressure	10 bar (150 psig)
Differential Pressure	30 – 99 slm: 1.4 – 3 bar (20-50 psid) 100 -150 slm: 2.0 – 4.1 bar (30-60 psid) 151 – 200 slm: 2.7 – 4.1 bar (40 – 60 psid)

Note: In accordance with SEMI Standard E12-91, Standard Temperature is 0° C and Standard Pressure is 760 mm Hg (14.7 psia).

Consult our applications specialists with any questions.

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