

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Find the *Millipore / Tylan FC 2900* at our website: *Click HERE*

Tylan® FC2900/FM3900 Mass Flow Controllers and Flowmeters

Low-cost, premium quality elastomer-sealed mass flow controllers and meters

Product Profile



Process Values

Designed to meet the exacting requirements of semiconductor processes and equipment, the Tylan FC2900 and FM3900 models are premium quality elastomer-sealed mass flow controllers and meters. These MFCs combine proven components and techniques with innovative concepts in both mechanical and electrical design.

Product Features	Product Benefits
Autozero Digital Circuitry	Automatically resets outputs to zero under no flow conditions, and shifts the entire calibration curve to cancel many effects of temperature coefficients and calibration drift.
User-Selectable Response Time Options	Offers a quick (0.5 second) step response time in short-cycle processes along with offering a controlled response for long processes.
Temperature Coefficients	Maintains tight control in varying temperatures
Balanced Power Load	Low lead current eliminates signal differing from its controlling device
Power Operation	Insensitive to power supply variations, and will operate within ± 12 volts to ± 18 volts
Standard Design	Industry standard pinouts and dimensions make the Tylan FC2900 easy to install in many systems

Tylan FC2900/FM3900 MFCs and Flowmeters - Ordering Information

Performance

Full Scale (N2 equivalent)	FC2900: 10 sccm – 10 slpm FC2910: 100 sccm – 30 slpm (FC2910 used below 10 slm for low vapor pressure material delivery)
Step Response Time	1 sec (dependent on step request and conditions)
Accuracy	± 1.0% full scale
Linearity	± 0.5% full scale
Repeatability	± 0.2% full scale
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	Normally-open or normally-closed solenoid
Materials	316L stainless steel, 446 stainless steel, PFA Teflon®
Elastomers Available	Viton®, Kalrez®, Neoprene
Leak Integrity	1 x 10^{-9} atm-cc per sec (He) inboard <2% full scale with Teflon poppet (normally-closed) <5% full scale with Teflon poppet (normally-open)
Weight	0.98 Kg (2 lb)

Electrical

Supply Voltage	± 12 VDC to ± 18 VDC
Supply Current	110 mA nominal (125 mA max @ ± 18 VDC
Power Consumption	3.3 watts @ ± 15 volts
Input/Output Signal	0-5 VDC

Environmental

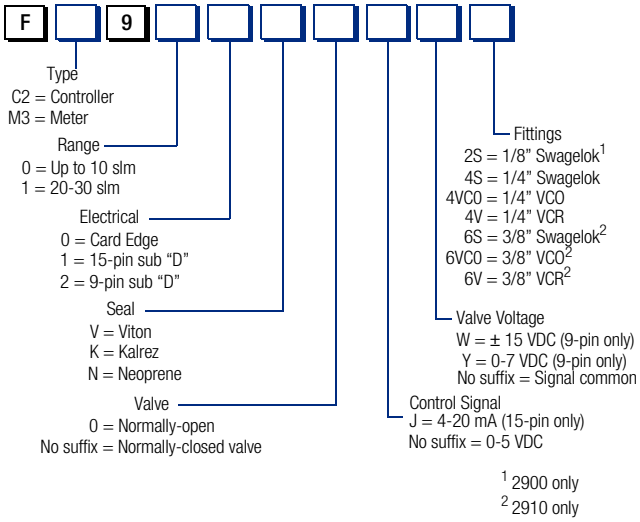
Operating Temperature	5 – 50° C (ambient and gas)
Humidity	0 – 90% RH, non-condensing
Maximum Inlet Pressure	11.5 bar (150 psig)
Differential Pressure	Nominal, 0.7 – 2.8 bar (10-40 psid)

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

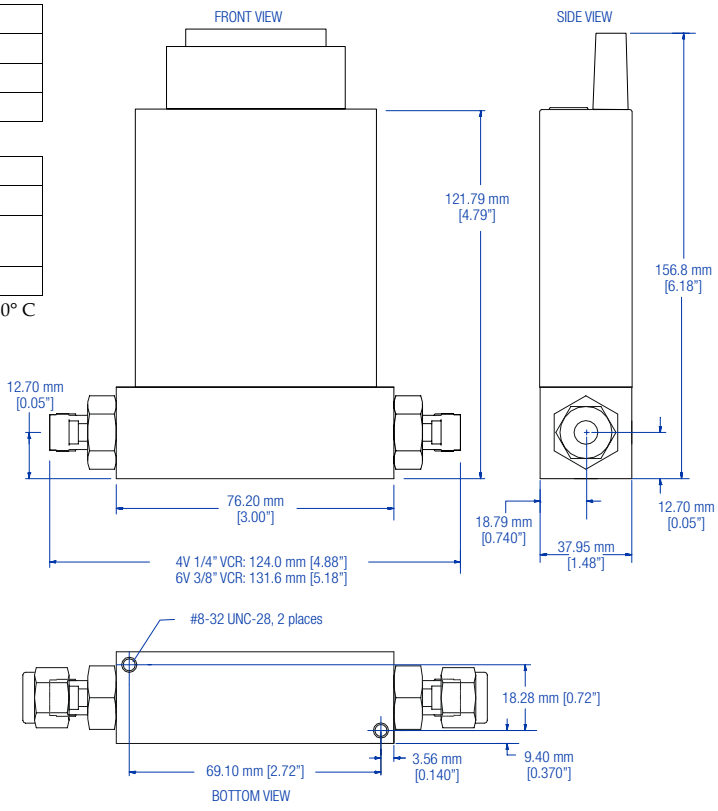
	Card Edge	15-Pin "D"	9-Pin "D"		Card Edge	15-Pin "D"	9-Pin "D"
+ 15 VDC	4	5	3	Az INHIBIT	J	3	
COMMON	C	10	4	VALVE TEST (± 15 VDC)	D	12	8*
-15 VDC	F	6	5	VALVE OFF	L	15	
0-5 V Out	3	2	2	OVERRIDE			1
COMMON	2	1	7	4-20 mA IN		7	6*
0-5 V IN	A	8	6	4-20mA OUT		4	2*
COMMON	8	9	8	CASE GND	1	14	9*
V REF	6	11		VALVE VOLTAGE (0-7 VDC)			8*
PRESS. IN	5	13	9*				
Az STORE	K						

* Optional

FC2900/FM2900 Ordering Information



[1] 2900 only
[2] 2910 only



Consult our applications specialists with any questions.
Mykrolis and Tylan are registered trademarks of Mykrolis Corporation.
The Mykrolis logo is a trademark of Mykrolis Corporation.
Kalrez and Viton are trademarks of DuPont dow Elastomers, L.L.C.
Swagelok is a trademark of Crawford Fitting Company.
Teflon is a trademark of E. I. du Pont de Nemours and Company.
VCO and VCR are trademarks of Cajon Company.

Legal/Trademarks: www.mykrolis.com/corporate.nsf/docs/legal
Worldwide Offices: www.mykrolis.com/corporate.nsf/docs/worldwide

U.S:
Billerica, MA 978-436-6500
Allen, TX 972-359-4000
San Diego, CA 858-452-0124

Europe:
France 33 4 7635 73 00
Germany 49 816 595 110

Japan:
Tokyo 81 3 5442 9718
Kyushu 81 92 471 8133
Osaka 81 6 6390 0594

Asia:
Singapore 65 6745 2422
Korea 82 31 738 5300
People's Republic of China 86 21 5080 5600
Taiwan 886 3 571 0178

Lit. No. PF391 Rev. D 31 March 2004
Printed in the U.S.A. © 1998-2004 Mykrolis Corporation. All rights reserved. Mykrolis logo © 2001.

Mykrolis

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP