

FC1M FLOW CONTROLS

**Unidirectional flow with Built-In Check Valve ~ 1/8" to 1"
Brass barstock body for working pressures to 2,000 PSI**



DMIC's updated **FC1M** is now U.S. made in Buyer's choice of domestic port thread, for stock delivery in most cases. Dual taper needle design provides fine metering at low flows and rapid response at higher flows. Color calibrated design simplifies adjustment.

- DMIC's **ChromaFlow** color-coded design facilitates initial calibration, system documentation, and restoration of correct settings if required
- Brass body rated to **2,000 PSI maximum** (1" size rated for 500 PSI)
- **Integral 5 PSI poppet check valve** provides free return flow
- **Optional security knob** (append suffix 'LHS') permanently fixes valve flow setting for tamper resistance
- For OEM production quantities, optional **"fine" needle profile** available

FC1M	Nominal Size	Port Thread	Performance Data				Dimensions (inches)									
			Flow GPM ¹	Metered Direction		Free Flow		A	B	C	D	E	Lbs. kg			
				Orifice Area (sq.in., mm ²)	Effective C _v	Orifice Area (sq.in., mm ²)	Effective C _v									
FC1M-0125N	1/8"	1/8" NPTF	3 GPM	0.0102	0.230	0.023	0.53	1.54	0.63	1.28	2.00	0.75	0.3			
FC1M-0125B		1/8" BSPP	11 l/m	6,6		14,8										
FC1M-0250N	1/4"	1/4" NPTF	5 GPM	0.0194	0.433	0.068	1.56	1.79	0.81	1.66	2.63	0.81	0.5			
FC1M-0250B		1/4" BSPP	19 l/m	12,5		43,9										
FC1M-0375N	3/8"	3/8" NPTF	8 GPM	0.0344	0.787	0.099	2.27	2.18	1.00	1.75	2.75	1.00	0.7			
FC1M-0375B		3/8" BSPP						30 l/m	22,2	63,9	1.88	1.00	1.92	3.12	0.81	0.6
FC1M-0375S		#6 SAE									1.88	1.00	1.92	3.12	0.81	0.6
FC1M-0375IU		16mm ISO6149						1.88	1.00	1.92	3.12	0.81	0.6			
FC1M-0500N	1/2"	1/2" NPTF	15 GPM	0.0427	0.976	0.224	5.11	2.70	1.25	2.23	3.44	1.19	1.5			
FC1M-0500B		1/2" BSPP						57 l/m	27,6	144,5	2.24	1.12	2.12	3.50	1.00	1.0
FC1M-0500S		#8 SAE									2.24	1.12	2.12	3.50	1.00	1.0
FC1M-0500IU		18mm ISO6149						2.24	1.12	2.12	3.50	1.00	1.0			
FC1M-0625S	5/8"	#10 SAE	15 GPM	0.0427	0.976	0.224	5.11	2.70	1.25	2.56	4.00	1.19	1.8			
FC1M-0625IU		22mm ISO6149	95 l/m	27,6		144,5										
FC1M-0750N	3/4"	3/4" NPTF	25 GPM	0.1080	2.470	0.348	7.95	3.38	1.50	2.58	3.88	1.38	2.6			
FC1M-0750B		3/4" BSPP						95 l/m	69,7	224,5	3.38	1.50	3.01	4.62	1.38	2.6
FC1M-0750S		#12 SAE									3.38	1.50	3.01	4.62	1.38	2.6
FC1M-0750IU		27mm ISO6149						3.38	1.50	3.01	4.62	1.38	2.6			
FC1M-1000N	1"	1" NPTF	40 GPM	0.2300	5.250	0.453	10.35	4.87	1.75	3.22	5.00	1.88*	5.1			
FC1M-1000B		1" BSPP						151 l/m	148,4	292,3	5.15	2.25	3.50	5.62	1.88*	5.1
FC1M-1000S		#16 SAE									5.15	2.25	3.50	5.62	1.88*	5.1
FC1M-1000IU		33mm ISO6149						5.15	2.25	3.50	5.62	1.88*	5.1			

(*) Means HEX

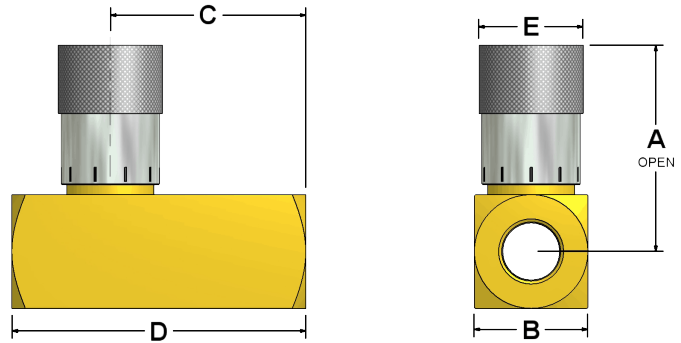
Using DMIC Flow Characteristic Curves

DMIC's Flow Curves (see opposite page) provide an indication of valve performance in your application, based on actual flow tests of the subject valves under controlled laboratory conditions (which may differ from your application's temperature and fluid viscosity). Due to the individually optimized design of DMIC Flow Controls, you may observe variations in flow capacity between port thread styles.



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FC1M		Brass Flow Controls Physical Parameters
VALVE BODY		Brass Barstock
POPPET		Brass, Soft Seat
SEALING (1/8"-1/2")		Soft Seat, Buna-N
SEALING (3/4"-1")		Hard Seat
WORKING PSI (1/8"-3/4")		2000 PSI (140 Bar)
WORKING PSI (1")		500 PSI (34,5 Bar)
SAFETY FACTOR		Minimum 3:1
RETURN FLOW CHECK		Present
CHECK VALVE SETTING		5 PSI (0,35 Bar)
TEMP RANGE		-5°F/195°F (-20°C/90°C)



FC1 M - 0500 N /LHS

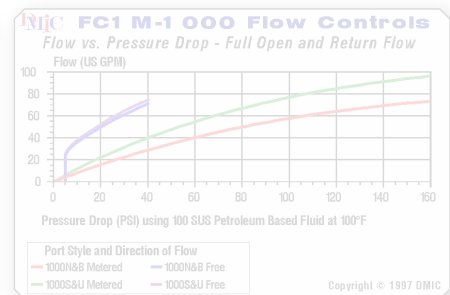
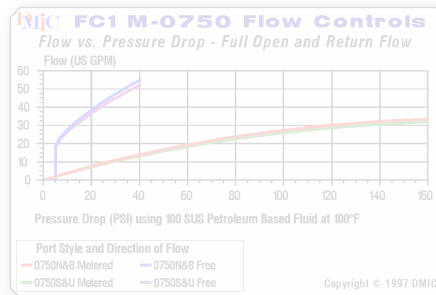
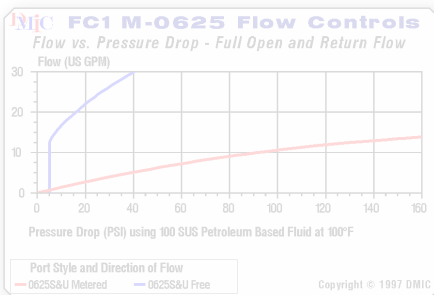
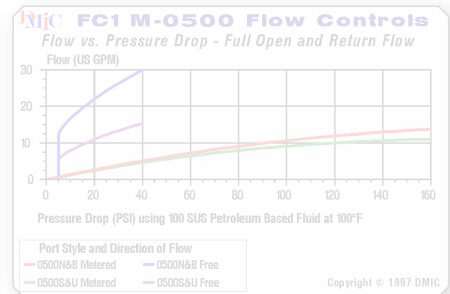
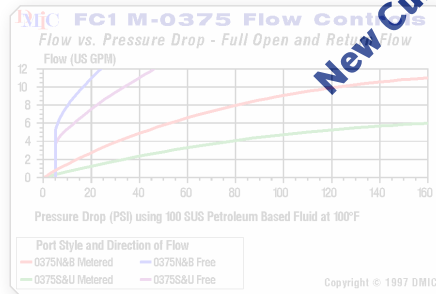
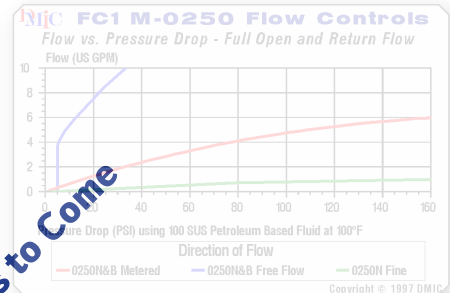
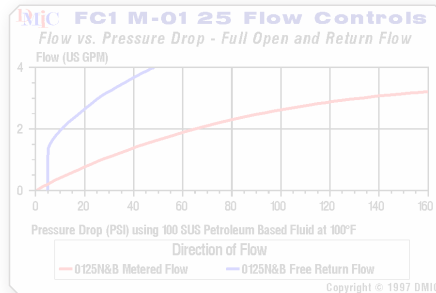
Model	
M	Brass, to 2000 PSI
H	Steel, to 5000 PSI

Nominal Size	
Expressed in 1/1000" units	
Example: 0375=3/8", 1 1/2=1500	

Inlet Port Thread	
Standard US/Canada	
N	NPT
S	SAE ORB
Metric Standard	
B	BSPP
Optional Threads (Call DMIC)	
B	BSPP
T	BSPT
IU	ISO6149

Easy Order Options	
/LHS	Security (Permanent) Locking Knob
/LH	Finger Screw Locking Knob
/FN	Fine Metering Needle Option (3/4", 3/8", 1/2" sizes only)

For complete ordering information and option availability please see page 20.



New Curves to Come

This valve series is factory sealed and disassembly will destroy the valve and void the warranty. Due to our policy of continual product improvement, the specifications in this catalog may change without notice. When designing by spec, please request a certified print.

