FC1M Flow Control

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

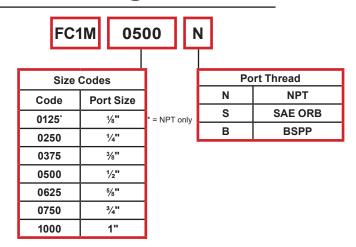


Flow-regulating, brass body flow control valves with a built-in 5 psi check valve. Provides regulated flow in one direction and free flow in the opposite direction.

- 2,000 psi pressure rating (1" size rated to 500 psi).
- Brass body and trim, Buna-N O-ring.
- Port sizes from 1/8" to 1".
- · Choice of threaded connection types.
- Dual taper needle for coarse adjustments at high flow and fine adjustments at low flow (optional fine needle profile available).
- Chromaflow feature provides color bands for visual setup validation.
- Set screw to secure knob for tamper prevention.
- Suitable for use with air, oil, or water.

FC1M	Brass Flow Controls Physical Parameters						
VALVE BODY	Brass Barstock						
NEEDLE	416 Stainless Steel						
POPPET	Brass, Soft Seat						
SEALING (1/8"-1/2")	Soft Seat, Buna-N						
SEALING (¾"-1")	Hard Seat						
WORKING PSI (1/8"-3/4")	2,000 PSI (138 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)						

Ordering Codes



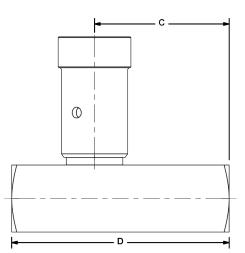
Using DMIC Flow Characteristic Curves

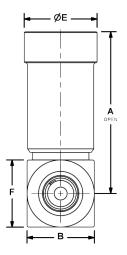
DMIC's Flow Curves (see opposite page) provide an indication of valve performance in your application, based on actual flow tests of the subject valves under controlled laboratory conditions (which may differ from your application's temperature and fluid viscosity). Due to the individually optimized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



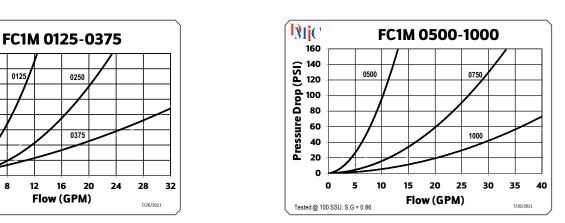
FC1M Flow Control

FC1M N			Performance Data				Dimensions (inches)						
	Nominal Size	Flow GPM ¹	Metered Direction		Free Flow								
			Orifice Area	Effective C _v	Orifice Area	Effective C _v	А	В	с	D	E	F	Lbs.
FC1M-0125N	1⁄8"	3 GPM	0.0102	0.230	0.023	0.53	1.54	0.63	1.28	2.00	0.75	0.63	0.3
FC1M-0250N	- 1⁄4"	5 GPM	0.0194	0.433	0.068	1.56	1.79	0.81	1.66	2.63	0.81	0.81	0.5
FC1M-0250B													
FC1M-0375N	3⁄8"	8 GPM	0.0344	0.787	0.099	2.27	2.18	1.00	1.75	2.75	1.00	1.00	0.7
FC1M-0375B													
FC1M-0500N	1/2"	15 GPM	0.0427	0.976	0.224	5.11	2.70	1.25	2.23	3.44	1.19	1.25	1.5
FC1M-0500B													
FC1M-0500S							2.24	1.12	2.12	3.50	1.00	1.12	1.01
FC1M-0625S	5⁄8 "	15 GPM	0.0427	0.976	0.224	5.11	2.70	1.25	2.56	4.00	1.19	1.25	1.8
FC1M-0750N	3/4"	25 GPM	0.1080	2.470	0.348	7.95	3.38	1.50	2.58	3.88	1.38	1.50	2.6
FC1M-0750B													
FC1M-0750S							3.38	1.50	3.01	4.62	1.38	1.50	2.6
FC1M-1000N	- 1"	40 GPM	0.2300	5.250	0.453	10.35	4.87	1.75	3.22	5.00	1.88*	1.75	5.1
FC1M-1000B													
FC1M-1000S			0.3070	7.000			5.15	2.25	3.50	5.62	1.88*	2.25	5.1





(*) Depicts HEX size Note: [1] Typical flow rates in US GPM for 100 SSU petroleum based fluid



Note: [2] Flow characteristics shown are nominal values only. Actual results may differ depending on fluid viscosity, temperature, and port connection. 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.



www.dmic.com ISO 9001 CERTIFIED DMIC Flow Control Catalog Copyright ©2021 Delaware Mfg.

Nic

(js 140 Isa) 120

0 0

Tested @ 100 SSU, S.G = 0.86

160

0125

8

4

DFC-2102A Page 5

Call Toll Free 1-800-248-3642 In Canada 1-800-320-3642