

FC1H FLOW CONTROLS

**Unidirectional flow with Built-In Check Valve ~ 1/8" to 2"
Carbon Steel body for working pressures to 5,000 PSI**



DMIC's updated **FC1H** is now U.S. made in Buyer's choice of domestic port thread. Dual taper needle design provides fine metering at low flows and rapid response at higher flows. The first three turns provide fine response, while the final three turns provide quick response.

- DMIC's **ChromaFlow** color-coded design facilitates initial calibration, system documentation, and restoration of correct settings if required
- Designed for up to **5,000 PSI maximum operating pressure** (see sizes for maximum working pressure)
- **Integral 5 PSI poppet check valve** provides free return flow
- Set Screw standard to prevent tampering
- For OEM production quantities, optional **"fine" needle profile** available

FC1H	Nominal Size	Port Thread	Performance Data				Dimensions (inches)									
			Flow GPM ¹	Metered Direction		Free Flow		A	B	C	D	E	Lbs.			
				Orifice Area (sq.in., mm ²)	Effective C _v	Orifice Area (sq.in., mm ²)	Effective C _v									
FC1H-0125N	1/8"	1/8" NPT	3 GPM	0.0102	0.230	0.023	0.53	1.54	0.63	1.28	2.00	0.75	0.3			
FC1H-0125B		1/8" BSPP	11 l/m	6,6		14,8										
FC1H-0250N	1/4"	1/4" NPT	5 GPM	0.0194	0.433	0.068	1.56	1.79	0.81	1.66	2.63	0.81	0.5			
FC1H-0250B		1/4" BSPP	19 l/m	12,5		43,9										
FC1H-0375N	3/8"	3/8" NPT	8 GPM	0.0344	0.787	0.099	2.27	2.18	1.00	1.75	2.75	1.00	0.7			
FC1H-0375B		3/8" BSPP	30 l/m											22,2		
FC1H-0375S		#6 SAE	5 GPM											63,9		
FC1H-0375IU		16mm ISO6149	19 l/m													
FC1H-0500N	1/2"	1/2" NPT	15 GPM	0.0427	0.976	0.224	5.11	2.70	1.25	2.23	3.44	1.19	1.5			
FC1H-0500B		1/2" BSPP												57 l/m	27,6	144,5
FC1H-0500S		#8 SAE														
FC1H-0500IU		18mm ISO6149														
FC1H-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			
FC1H-0625IU		22mm ISO6149	95 l/m	27,6		144,5										
FC1H-0750N	3/4"	3/4" NPT	25 GPM	0.1080	2.470	0.348	7.95	3.38	1.50	2.58	3.88	1.38	2.6			
FC1H-0750B		3/4" BSPP												95 l/m	69,7	224,5
FC1H-0750S		#12 SAE														
FC1H-0750IU		27mm ISO6149														
FC1H-1000N	1"	1" NPT	40 GPM	0.2300	5.250	0.453	10.35	4.87	1.75	3.22	5.00	1.88*	5.1			
FC1H-1000B		1" BSPP		148,4										292,3		
FC1H-1000S		#16 SAE		0.3070										7.000		
FC1H-1000IU		33mm ISO6149		198,1												
FC1H-1250N	1 1/4"	1 1/4" NPT	70 GPM	0.2300	5.250	0.855	19.52	5.12	2.25	3.88	5.63	1.88*	8.1			
FC1H-1250B		1 1/4" BSPP		148,4										551,6		
FC1H-1250S		#20 SAE		0.3710										8.470	239,5	
FC1H-1500N	1 1/2"	1 1/2" NPT	100 GPM	0.2300	5.250	0.955	21.82	5.37	2.75	4.47	5.63	1.88*	10.2			
FC1H-1500B		1 1/2" BSPP		148,4										616,1		
FC1H-1500S		#24 SAE		0.3710										8.470	239,5	
FC1H-2000N	2"	2" NPT	150 GPM	0.2300	5.250	1.046	23.90	5.75	3.50	5.31	6.50	1.88*	17.4			
FC1H-2000B		2" BSPP		148,4										674,8		
FC1H-2000S		#32 SAE		0.6010										13.410	387,7	

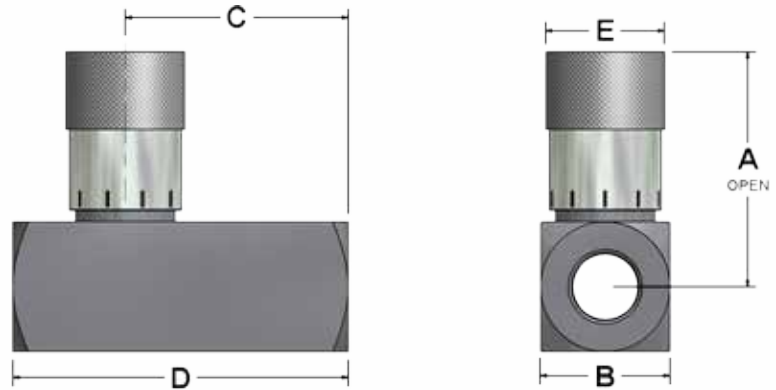
NOTES: (1) Typical flows quoted in U.S. GPM, using 100 SUS Petroleum Based Fluid at 100°
(*) Means HEX



FC1H FLOW CONTROLS

FC1H	Physical Parameters
VALVE BODY	Carbon Steel
POPPET	Stainless Steel, Hard Seat
SEALING	Buna-N Standard
WORKING PSI (1/8"-1/2")	5000 PSI (345 Bar)
WORKING PSI (others)	3000 PSI (207 Bar)
SAFETY FACTOR	Minimum 3:1
RETURN FLOW CHECK	Present
CHECK VALVE SETTING	5 PSI (0,35 Bar)
TEMP RANGE	-40°F/250°F (-40°C/121°C)

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

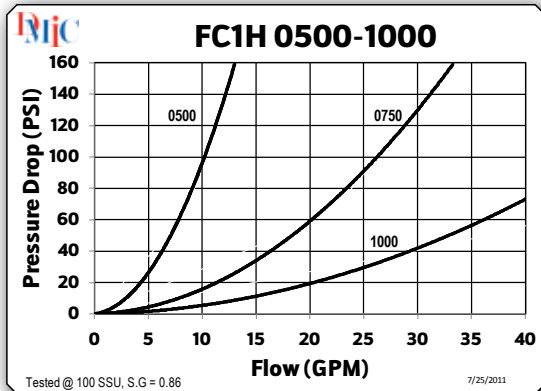
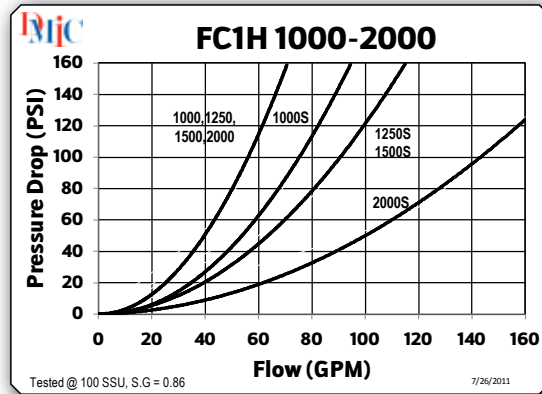
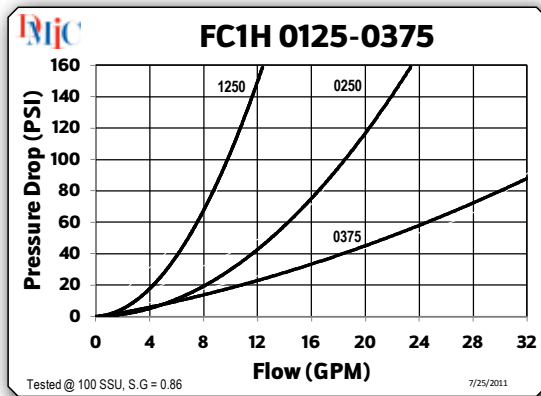


FC1 H - 1500 U

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



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.

