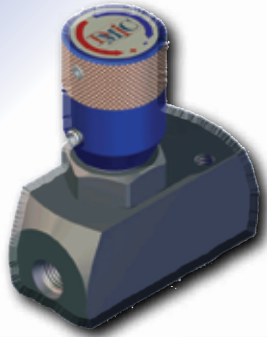


FCHH FLOW CONTROLS

Unidirectional flow with Built-In Check Valve ~ ¼" to 2+" Carbon/ Stainless Steel construction for working pressures to 10,000 PSI



DMIC's newly designed **FCHH** series brings full 10,000 PSI operating pressure to the masses in Carbon/Stainless Steel construction

- Integral 5 PSI poppet check Valve provides free return flow
- Offered from ¼ to 2+ port sizes
- Standard Panel mounting holes
- Fully reparable design and configurable
- Available with alternate needle pitches and profiles
- Fast delivery of Viton and EPR sealing

| FCHH | Nominal Size | Port Thread | Performance Data | | | | | Dimensions (inches) | | | | | | | | | | Stainless Steel | |
|-------------|--------------|--------------|-----------------------|--------------------------|-----------------------|-----------------------|--------------------------|---------------------|------|------|------|------|------|------|------|--------------|------|-----------------|--|
| | | | Metered Direction | | Free Flow | | | A | B | C | D | E | F | G | H | J* (UNF UNC) | F | B | |
| | | | Orifice Area (sq.in.) | Effective C _v | Flow GPM ¹ | Orifice Area (sq.in.) | Effective C _v | | | | | | | | | | | | |
| FCHH-0250N | ¼" | ¼" NPT | 0.012 | 0.280 | 2.2 GPM | 0.240 | 0.536 | 2.87 | 1.38 | 1.69 | 2.75 | 1.63 | 1.25 | 0.75 | 0.88 | ¼ | 1.57 | 1.63 | |
| FCHH-0250B | | ¼" BSPP | | | | | | | | | | | | | | | | | |
| FCHH-0250S | | #4 SAE | | | | | | | | | | | | | | | | | |
| FCHH-0250IU | | 12mm ISO6149 | | | | | | | | | | | | | | | | | |
| FCHH-0375N | ¾" | ¾" NPT | 0.028 | 0.630 | 6 GPM | 0.620 | 1.415 | 2.94 | 1.50 | 2.00 | 3.13 | 1.63 | 1.50 | 0.88 | 0.88 | ¼ | 1.73 | 1.75 | |
| FCHH-0375B | | ¾" BSPP | | | | | | | | | | | | | | | | | |
| FCHH-0375S | | #6 SAE | | | | | | | | | | | | | | | | | |
| FCHH-0375IU | | 16mm ISO6149 | | | | | | | | | | | | | | | | | |
| FCHH-0500N | ½" | ½" NPT | 0.049 | 1.120 | 15 GPM | 0.166 | 3.792 | 3.03 | 1.75 | 2.47 | 3.75 | 1.63 | 1.75 | 1.00 | 0.88 | ¼ | | | |
| FCHH-0500B | | ½" BSPP | | | | | | | | | | | | | | | | | |
| FCHH-0500S | | #8 SAE | | | | | | | | | | | | | | | | | |
| FCHH-0750N | ¾" | ¾" NPT | 0.110 | 2.520 | 25 GPM | 0.332 | 7.572 | 3.75 | 1.75 | 3.04 | 4.73 | 1.63 | 2.25 | 1.00 | 1.25 | ¼ | | | |
| FCHH-0750B | | ¾" BSPP | | | | | | | | | | | | | | | | | |
| FCHH-0750S | | #12 SAE | | | | | | | | | | | | | | | | | |
| FCHH-1000N | 1" | 1" NPT | 0.196 | 4.481 | 40 GPM | 0.541 | 12.345 | 3.91 | 2.00 | 3.53 | 5.25 | 1.63 | 2.50 | 1.25 | 1.25 | ¾ | | | |
| FCHH-1000B | | 1" BSPP | | | | | | | | | | | | | | | | | |
| FCHH-1000S | | #16 SAE | | | | | | | | | | | | | | | | | |
| FCHH-1250N | 1 ¼" | 1 ¼" NPT | 0.307 | 7.001 | 70 GPM | 0.908 | 20.71 | 4.51 | 2.75 | 4.25 | 6.25 | 1.63 | 3.25 | 1.50 | 1.50 | ¾ | | | |
| FCHH-1250B | | 1 ¼" BSPP | | | | | | | | | | | | | | | | | |
| FCHH-1250S | | #20 SAE | | | | | | | | | | | | | | | | | |
| FCHH-1500N | 1 ½" | 1 ½" NPT | 0.442 | 10.082 | 100 GPM | 1.330 | 30.29 | 6.35 | 3.50 | 4.88 | 7.25 | 3.00 | 4.00 | 2.00 | 2.00 | ½ | | | |
| FCHH-1500B | | 1 ½" BSPP | | | | | | | | | | | | | | | | | |
| FCHH-1500S | | #24 SAE | | | | | | | | | | | | | | | | | |
| FCHH-2000N | 2" | 2" NPT | 0.785 | 17.92 | 150 GPM | 2.582 | 58.91 | 6.84 | 4.00 | 6.13 | 9.00 | 3.00 | 4.75 | 2.25 | 2.00 | ½ | | | |
| FCHH-2000B | | 2" BSPP | | | | | | | | | | | | | | | | | |
| FCHH-2000S | | #32 SAE | | | | | | | | | | | | | | | | | |

*NOTES: UNC threads on all steel valves, UNF threads on all stainless valves

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



FCHH FLOW CONTROLS

FCHH - 0500 S - 1 1 4 1

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

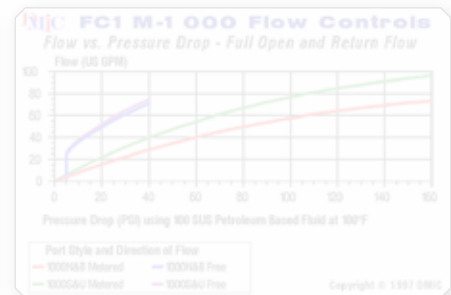
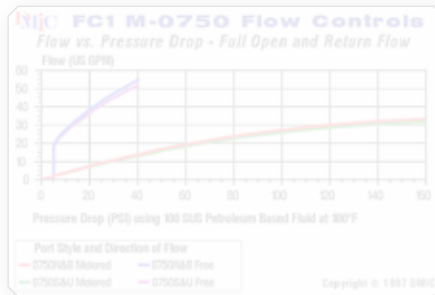
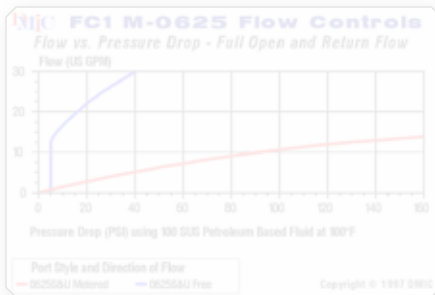
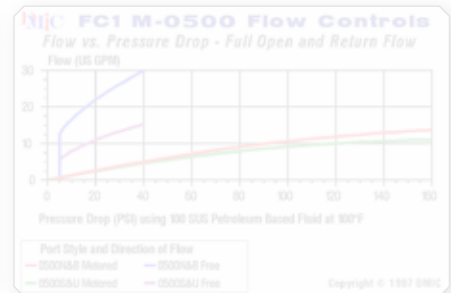
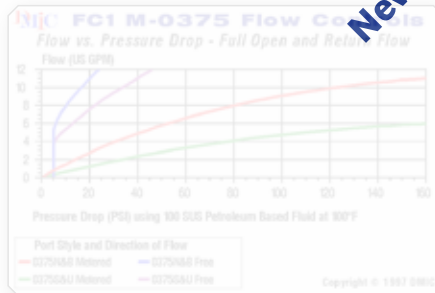
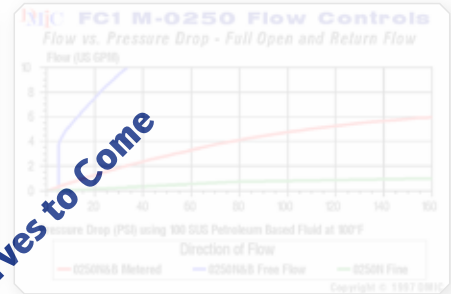
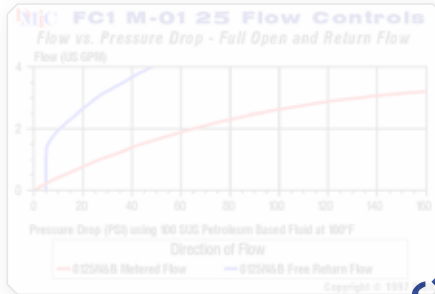
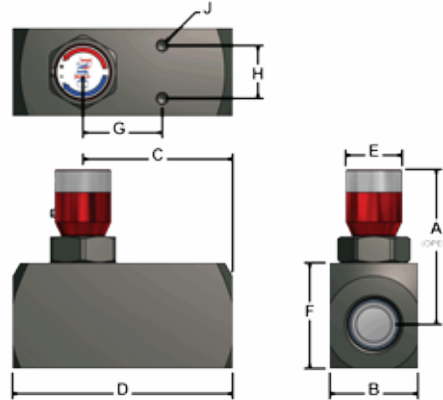
| Inlet Port Thread | |
|------------------------------|---------|
| Standard US/Canada | |
| N | NPT |
| S | SAE ORB |
| Metric Standard | |
| B | BSPP |
| Optional Threads (Call DMIC) | |
| T | BSPT |

| Body Material | |
|---------------|-----------------|
| 1 | Carbon Steel |
| 2 | Stainless Steel |

| Poppet & Spring Material | |
|--------------------------|-----------------|
| Code | Description |
| 1 | Carbon Steel |
| 2 | Stainless Steel |

| Knob Material | |
|--|---------------------|
| Code | Description |
| 4 | Aluminum (standard) |
| 2 | Stainless Steel* |
| * Stainless Steel knob not color coded | |

| O-Ring Seals | |
|--------------|-------------|
| Code | Description |
| 1 | Buna-N |
| 2 | EPR |
| 3 | Viton |
| 4 | Teflon |
| 5 | Chemraz |



New Curves to Come

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.

