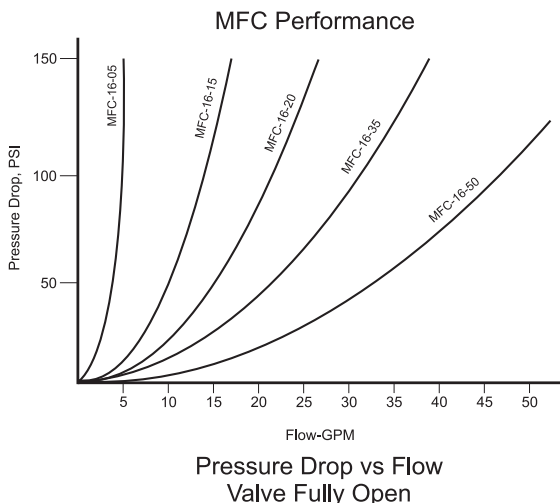
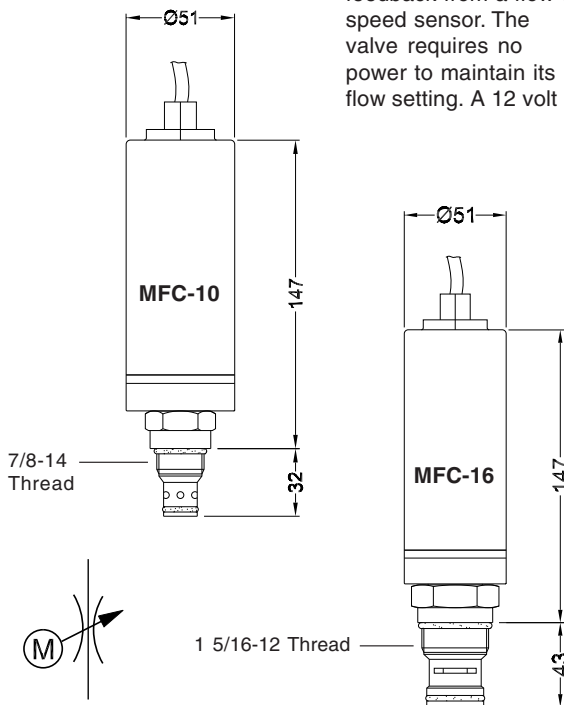




The Source Motorized Flow Control provides economical and simple electric remote control for flows up to 50 GPM. It uses a 12 volt DC motor to open or close a rotary spool valve. The flow rate is changed by providing a 12 volt signal to either increase or decrease valve opening. In its simplest form, the control element is a DPDT three position-momentary-contact toggle or rocker switch or two DP momentary-contact push buttons.

If a more sophisticated control is desired, the loop can be closed by using a control amplifier and relay circuit in

conjunction with feedback from a flow or speed sensor. The valve requires no power to maintain its flow setting. A 12 volt



DC signal is applied only while changing the flow rate and then shut off to hold flow rate at the desired setting. In the event of a power failure or system shut down, the valve will remain at its current flow setting until power is restored and a command signal is once again supplied. Valve design allows for manual over-ride in case of electrical failure.

The valve is internally protected and will automatically shut down the internal drive when either the full open or full closed positions are reached.

FEATURES

- Internally protected
- Requires no power to maintain setting
- Safe
- Flexible
- Efficient
- Simple to use
- Economical

SPECIFICATIONS

DESCRIPTION

- MFC-10 and MFC-16 valves are cartridge design and fit generic 10-2 and 16-2 cavities respectively.

OPERATING PRESSURE

- 3000 psi (5000 psi with factory approval)

FLOW RATING

(Based on 100 psi delta P with valve fully open)

- 0-5 GPM MFC-10-5-12V-**
- 0-15 GPM MFC-10-15-12V-**
- 0-20 GPM MFC-16-20-12V-**
- 0-35 GPM MFC-16-35-12V-**
- 0-50 GPM MFC-16-50-12V-**

OPERATING SPEED

(Fully closed to fully open @ 12V DC)

- 3.5 seconds (-03 option)
- 7 seconds (-07 option)
- 24 seconds (-24 option)
- 48 seconds (-48 option)

VOLTAGE

- 12V DC
- For 24V DC operation, add 100-ohm resistor in series with motor

CURRENT DRAW

- Less than 120 MA typical @ 12V DC

CARTRIDGE WEIGHT

- MFC-10: 1.3 lb.
- MFC-16: 1.6 lb.

CONSTRUCTION

- Nose, body and spool: steel
- Exposed parts plated
- Motor container assembly anodized aluminium