F16

Motorized Flow Control Valve

Function
- Motor driven, variable orifice, restrictive type, hydraulic flow control, non-pressure compensated. Pressure balanced, bi-directional flow.

Operating Pressure
- 3000 psi maximum differential
  Consult factory for higher operating pressures

Flow Ranges
Based on 100 PSI pressure differential with valve fully open.
See pressure drop curves for additional application data
- 15 0-15 gpm (Equivalent to Ø.25” orifice at full open)
- 20 0-20 gpm (Equivalent to Ø.35” orifice at full open)
- 35 0-35 gpm (Equivalent to Ø.49” orifice at full open)
- 50 0-50 gpm (Equivalent to Ø.56” orifice at full open)
  Custom ranges are available upon request

Voltage
- 12 & 24 VDC

Construction
- Cage, Body and Spool: Steel, exposed parts plated
- Motor housing assembly: Anodized aluminum
- Standard line bodies are aluminum
  Steel bodies are available upon request

Seal Material
- Buna N and polyurethane standard
  Viton or EPR optional

Current Draw
(only while adjusting)
- 0.8 amp when powered at 12 volts
- 1.0 amp when powered at 24 volts

Internal Leakage
- 5 cubic inch per minute per 1000 psi

Temperature
- -40 to 120°C

Operating Speed
- 1-48 seconds, See appendix page 1 for details

Cavity
- C 16-2 industry common cavity

Valve Installation Torque
- 65 ft-lbs

Cartridge Weight
- F16 cartridge only = 3 lbs
- F16 with aluminum body = 5.8 lbs

Seal kit
- SFP25249

Flow range:
15 0-15 gpm
20 0-20 gpm
35 0-35 gpm
50 0-50 gpm

Operating Speed/Voltage
Select letter code from appendix page 1.

Options:
See appendix page 2 for available options.

Line bodies:
10183 SAE-12 ports
10183LS SAE-16 ports
and SAE-4 LS port