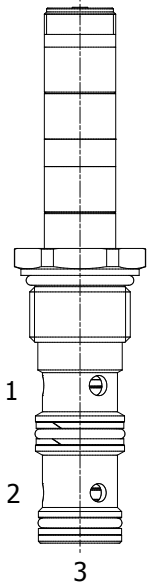


**EU-F3G 3 WAY PRESSURE COMPENSATED PRIORITY TYPE PROP. FLOW REGULATOR**



**DESCRIPTION**

12 size, 1" 1/16-12 thread, "TWELVE" series, solenoid operated, normally closed, spool style, 3 ways priority type pressure compensated proportional flow regulator. It can also be used as a restrictive-type 2 way, pressure-compensated flow regulator when the bypass line (port 2) is blocked.

**OPERATION**

EU-F3G maintains a constant flow rate out of (1) regardless of load pressure variations in the circuit downstream of (3) and regardless bypass pressure variations in the circuit downstream of (2). Excess flow bypasses out of (2). When coil is not energized, there is no regulated flow out of (1).

**OPERATION OF MANUAL OVERRIDE OPTION:** to override, turn the manual override screw counterclockwise. To release turn the manual override screw clockwise.

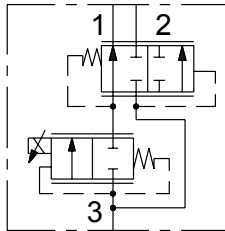
**FEATURES**

- Hardened parts for long-life.
- Industry common cavity.
- Excellent linearity and low hysteresis characteristics.
- Cartridges are voltage interchangeable.
- Optional coil voltages and terminations available.
- Unitized, molded coil design.
- Continuous duty rated solenoid.



*It can be used as a restrictive 2-way pressure-compensated flow control valve, blocking bypass line port (2).*

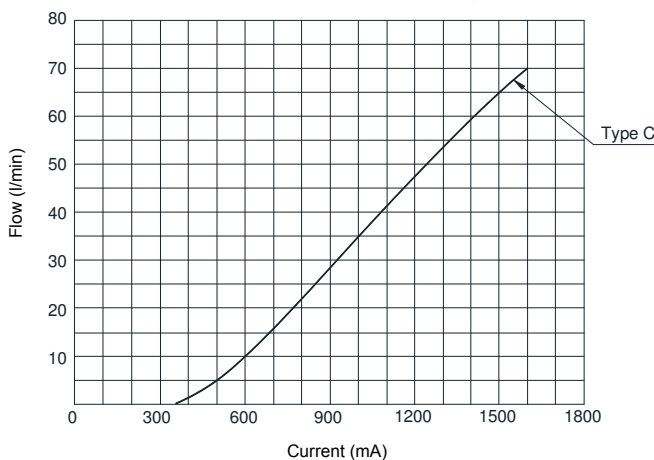
**HYDRAULIC SYMBOL**



**PERFORMANCE**

**Flow vs. Current**

Coil 12 VDC - 130 Hz PWM - Oil 26 cSt (121 SSU) @ 50°C (104°F)



**VALVE SPECIFICATIONS**

Flow Range	See curves for various versions
Max System Pressure	3500 PSI (241 bar)
Leakage	15.7 cu-in/min @ 3000 PSI 250 cc/min @ 207 bar
Hysteresis	±5%
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	ISO 18/16/13
Media Operating Temp. Range	-30°C / +100°C
Weight	.75 lbs (.34 kg)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Torque Requirements	37 ft-lbs (50 Nm)
Coil Nut Torque Requirements	2-3 ft-lbs (3-4 Nm)
Cavity	TWELVE 3W
Cavity Tools Kit (form tool, reamer, tap)	40500034

**COIL SPECIFICATIONS**

Current Supply Characteristics	PWM (Pulse Width Modulation)
Rated Current Range	400-1400 mA
PWM or Super-Imposed	
Dither Frequency	120-140 Hz
Coil Resistance (12 VDC)	7.2 Ohm ±5% at 68°F (20°C)

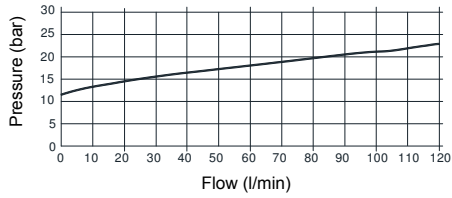
WG / 12-2022

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DIMENSIONS

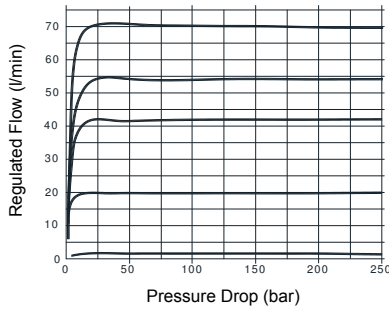
Pressure Drop 3→2 (bar)

Oil 26 cSt (121 SSU) @ 50°C (104°F)



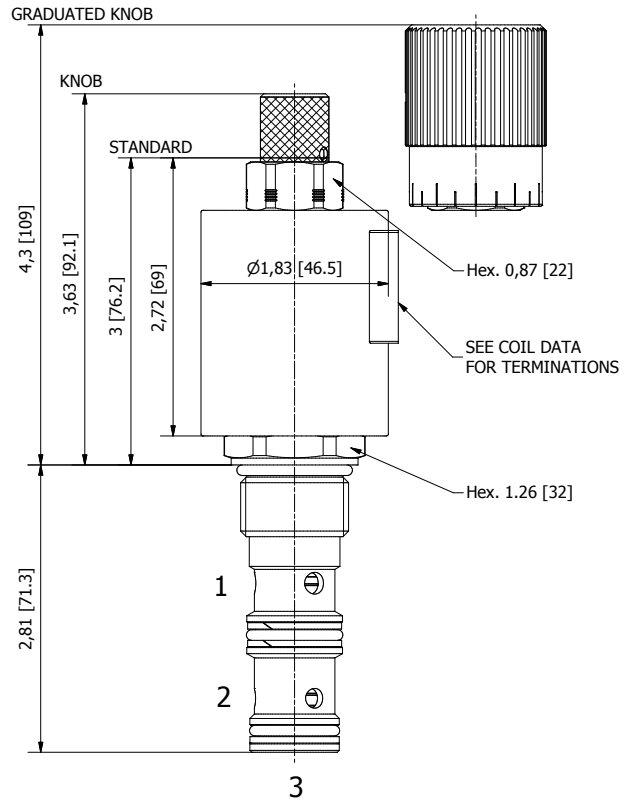
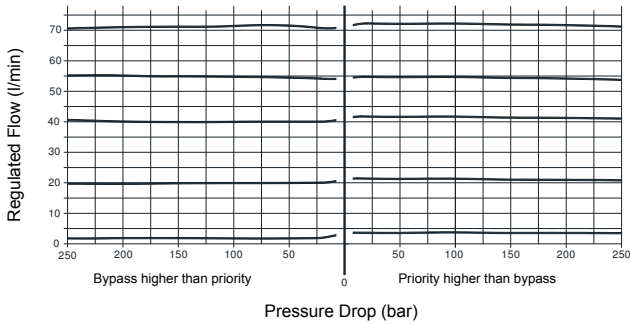
Regulated Flow vs. Pressure

2 WAYS - Coil 12 VDC - 130 Hz PWM - Oil 26 cSt (121 SSU) @ 50°C (104°F)



Pres. Compensation from Inlet to Work Port or Bypass Port

3 WAYS - Coil 12 VDC - 130 Hz PWM - Oil 26 cSt (121 SSU) @ 50°C (104°F)



(for bodies style and sizes see section "Accessories")

ORDERING INFORMATION

Approximate Coil Weight: .47 lbs (.21 kg)

EU-F3G - - - -

OPTIONS

- Buna Standard C0 Up to 60 l/min
- Buna, Screw Type Override (Knob) CS Up to 60 l/min
- Buna, Screw Type Override (Grad. Knob) CK Up to 60 l/min

BODIES

- Blank Without Body
- N 3/4" BSP Ports
- S #8 SAE Ports

"Z" COIL TERMINATION

- HC DIN 43650 (Hirschmann)
- DI Deutsch-Integral DT04-2P
- JT AMP Jr. Timer

VOLTAGE

- 12 12 VDC
- 24 24 VDC

NOTES: 1) For other flow settings, consult factory.  
2) For other seals, consult factory.

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