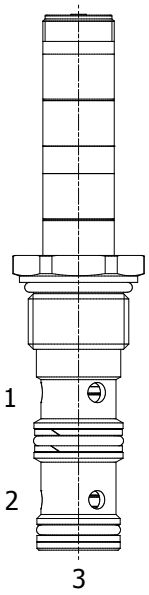
EU-F3G 3 WAY PRESSURE COMPENSATED PRIORITY TYPE PROPORTIONAL FLOW REGULATOR



DESCRIPTION

12 size, 1" 1/16-12 thread, "Tecnord" 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).

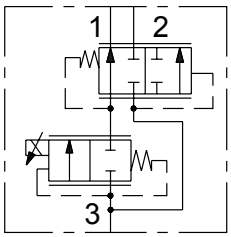
OPERATION OF MANUAL OVERRIDE OPTION: to override, turn the manual override screw counterclockwise. To release turn the manual override screw clockwise.

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).

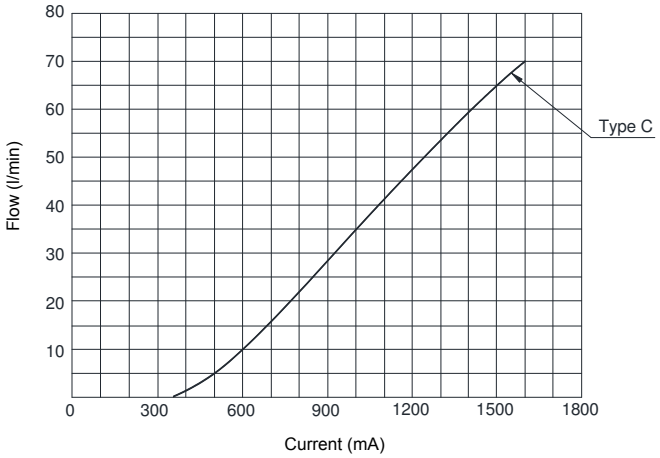
HYDRAULIC SYMBOL



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	TECNORD 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)

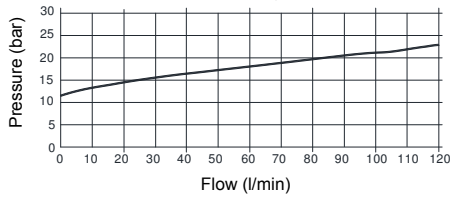
Delta Power Company
4484 Boeing Drive Rockford, IL 61109 • USA • Phone +1 (815) 397-6628 • Fax +1 (815) 397-2526
mail: delta@delta-power.com • **www.delta-power.com**

TECNORD •
Via Malavolti, 36 • 41122 Modena • ITALY • Phone +39 (059) 254895 • Fax +39 (059) 253512
mail: tecnord@tecnord.com • **www.tecnord.com**

DIMENSIONS

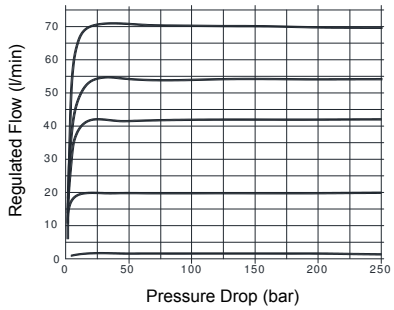
Pressure Drop 3→2 (bar)

Oil 26 cSt (121 SSU) @ 50°C (104°F)



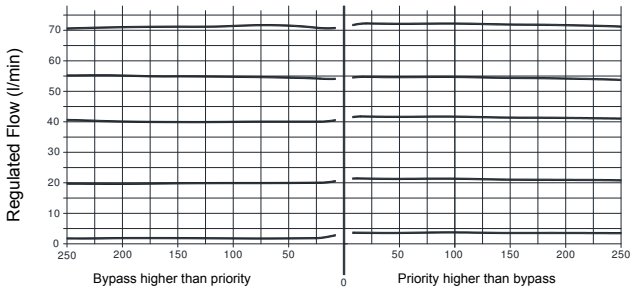
Regulated Flow vs. Pressure

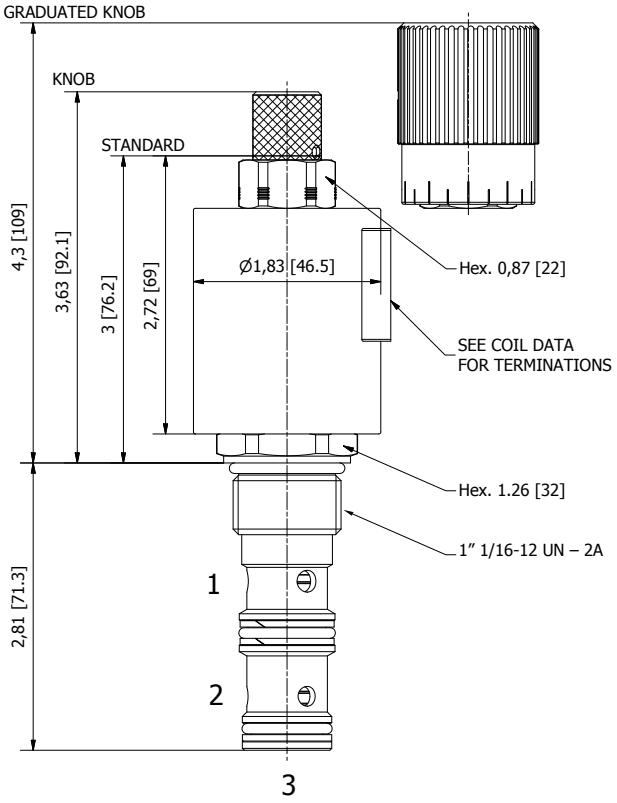
***2 WAYS** - Coil 12 VDC - 130 Hz PWM - Oil 26 cSt (121 SSU) @ 50°C (104°F)*



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

"Z" COIL TERMINATION

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

VOLTAGE

12	12 VDC
24	24 VDC

BODIES

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

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

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