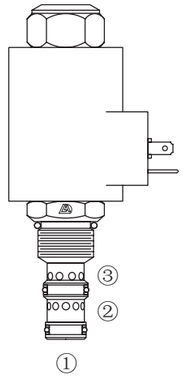
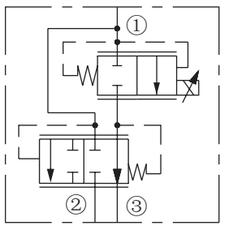
DAPV70-30 Proportional Flow Control Cartridge,

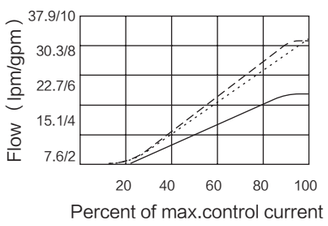


ISO SYMBOL



PERFORMANCE (Cartridge Only)

Flow vs. Current
207 bar/3000 psi；12V Coil；200 Hz PWM
32 cSt/150 ssu oil at 40℃
Range A，2-Ported
Range A，3-Ported
Range B，2-Ported or Range B，3-Ported



DESCRIPTION

A solenoid-operated, electrically-variable, three-port, pressure-compensated, spooltype,normally closed when de-energized, proportional flow control valve. It can be used as a priority-type flow regulator with pressure-compensated, regulated and bypass flow. It can also be used as a restrictive-type 2-way, pressure-compensated flow regulator when the bypass line (port 2) is blocked.

OPERATION

DAPV70-30 will regulate flow out of port 3 regardless of system working pressure.With an increasing current applied to the solenoid, the DAPV70-30 will increase output flow.
Note: When used as a bypass flow control in applications where the priority flow port will be blocked by external valving, bypass pressure drop will increase unless a small
amount of leakage is provided for the priority port. Consult factory.
Operation of Manual Override:
To Engage: Turn clockwise approximately 1 turn to reach start point. Continue another approximately 5 turns to full shift.
To Disengage: Turn counterclockwise approximately 6 turns to positive stop.

FEATURES

- Excellent linearity and hysteresis..
- Hardened spool and cage for long life..
- Optional coil voltages and terminations..
- Efficient wet armature construction.

RATINGS

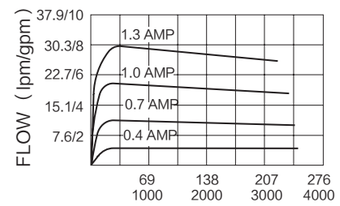
Operating Pressure: Inlet：240 bar (3500 psi)；
Ports ② and ③：207 bar (3000 psi)
Regulated Flow Rate:
Bypass Blocked，Range A：26 lpm (7 gpm)
Bypass Blocked，Range B：17 lpm (4.5 gpm)
Bypass Open，Range A：30 lpm (8 gpm)
Bypass Open，Range B：17 lpm (4.5 gpm)
MAXInputFlow
Bypass Open，Range A：50 lpm (13 gpm)
Bypass Open，Range B：26 lpm (7 gpm)
Internal Leakage:
197 cc/min. (12 cu. in./min.) fully closed at 207 bar (3000 psi)，
Electrical：2 standard voltage ratings

Coil Voltage	Threshold Current	Max. Control Current
12 VDC	350 ± 70 mA	1500 ± 200 mA
24 VDC	175 ± 35 mA	750 ±100 mA

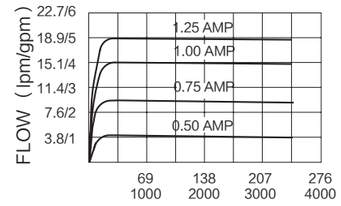
Fluids: Mineral-based or synthetics with lubricating properties at viscosities of 7.4 to 420 cSt (50 to 2000 ssu)
Cavity:T10-3A；See page 301.

PERFORMANCE（Continued）

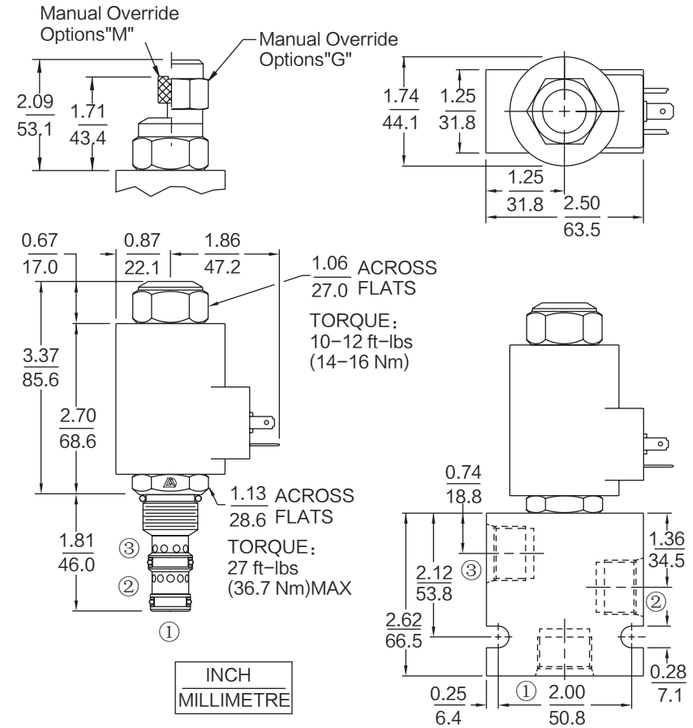
Regulated Flow vs. Pressure Drop
2-Ported; Flow Range A
240 bar/3500 psi Inlet
12V Coil; 110 Hz PWM
32 cSt/150 ssu oil at 40℃



Regulated Flow vs. Pressure Drop
2-Ported; Flow Range B
240 bar/3500 psi Inlet
12V Coil; 110 Hz PWM
32 cSt/150 ssu oil at 40℃



DIMENSIONS



MATERIALS

Cartridge: Weight:0.19 kg（0.42 lbs）；
Steel with hardened work surfaces.
Zinc-plated exposed surfaces.
Buna N O-rings and polyester elastomer back-ups standard.
BODY:Weight:0.36 kg（0.80lbs）；
Anodized highstrength 6061 T6 aluminum alloy, rated to 240 bar（3500 psi）；
Ductile iron bodies available; dimensions may differ.
P70-Size "D" Coil:Weight:
0.32 kg（0.7 lbs）；
Unitized thermoplastic encapsulated, Class H high temperature magnet-wire.

TO ORDER

DAPV70-30 _ _ _ _ _

FLOWRANGE
Required. See Performance Curves. A B

Options
None（Blank）
Manual Override M
Manual Override with Guard G

Porting
0 Cartridge Only
6T SAE 6
8T SAE 8
2B 1/4 in. BSP*
3B 3/8 in. BSP*

Seals
Buna N (Std.) N
Fluorocarbon V

Voltage
Less Coil 0
12 VDC 12
24 VDC 24

Terminations D-Coil
DS Dual Spades
DG DIN 43650
DL Leadwires (2)
DL/W Leads w/ Weatherpak® Connectors

Terminations E-Coil
EL Leadwires (2)
ER DeutschDT04-2P (IP69K Rate)