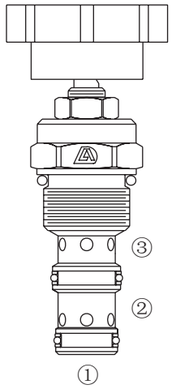
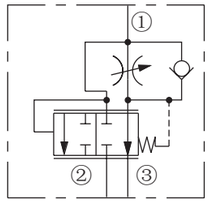
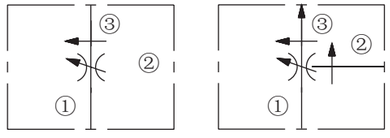
DAFR10-39 Flow Regulator, Pressure Compensated



ISO SYMBOL





DESCRIPTION

A screw-in, cartridge-style, adjustable orifice, pressure-compensated, manuallyoperated,bypass-type hydraulic flow regulating valve. It can be used as a priority-type flow regulator or a restrictive-type 2-way flow regulator when the bypass port (port ②)is blocked.

OPERATION

The DAFR10-39 maintains a constant flow rate from 3 regardless of load pressure changes in the system downstream of 3, or in the bypass leg at ② . Reverse flow (③ to ①) bypasses the control orifice.
The regulated flow increases from closed to fully open, with counter-clockwise rotation of the knob.
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.

FEATURES

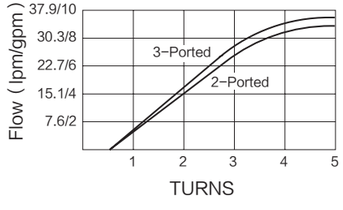
- Bypass port ② may be fully pressurized.
- Fine low-torque adjustment.
- Hardened parts for long life.
- Quiet, modulated response.
- Industry common cavity.

RATINGS

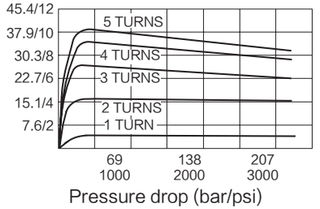
Operating Pressure:240 bar （3500 psi）
Flow Rate:
3-ported regulated flow: 0 - 38 lpm (0 - 10 gpm)
2-ported regulated flow: 0 - 34 lpm (0 - 9 gpm)
Input Flow:
3-ported: 0 - 38 lpm (0 - 10 gpm) nominal;
0 - 57 lpm (0 - 15 gpm) max.
Internal Leakage:
207 bar（3000 psi）：33cc/minute（2 cu.in./minute）
Adjustment Torque Required:
1.7 Nm (15 inch-pounds) at 207 bar (3000 psi)
Temperature:-40℃ ~ 120℃
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 (Cartridge Only)

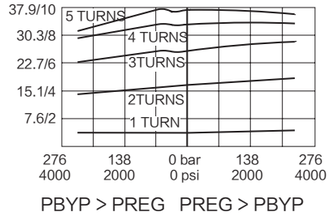
Regulated Flow vs. Turns
103 bar/1500 psi at Port 3
2-Ported: at 123 bar/1800 psi
3-Ported: at 38 lpm/10 gpm inlet flow
32 cSt/150 ssu oil at 40℃



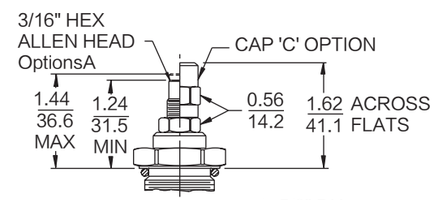
2-Ported
Regulated Flow vs. Pressure Drop
at 240 bar/3500 psi Inlet
32 cST/150 ssu oil at 40C

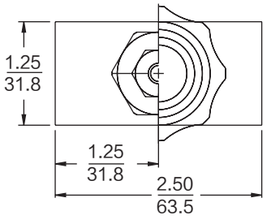


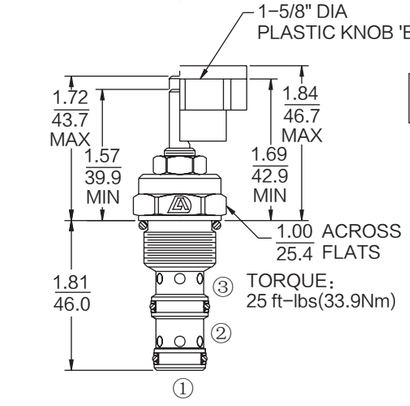
3-Ported
Regulated Flow vs. Load
at 38 lpm/10 gpm Inlet
32 cSt/150 ssu oil at 40℃

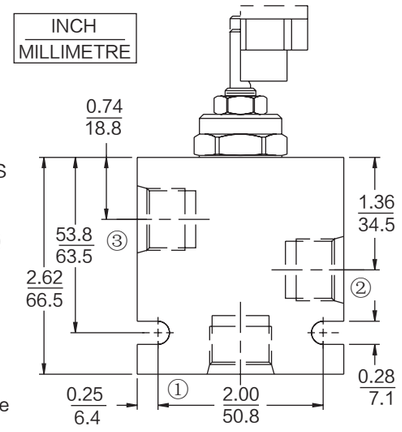


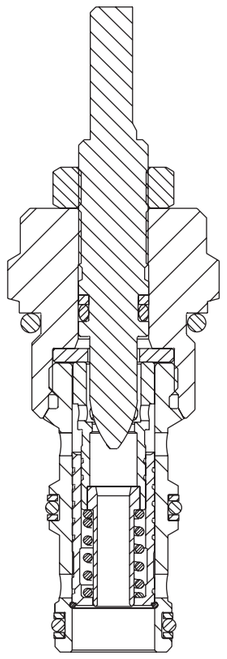
DIMENSIONS



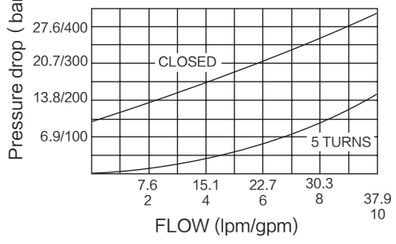








PERFORMANCE (Cont'd.)
③ to ①
34.5 bar/500 psiinlet pressure
32 cSt/150 ssu oil at 40℃



MATERIALS

Cartridge: Weight:.30kg（0.68 lbs）；
Steel with hardened work surfaces.
Zinc-plated exposed surfaces.
Buna N O-rings and polyester elastomer back-ups standard.
Standard Ported Body:Weight:
0.36kg（0.80 lbs）；
Anodized high-strength aluminum alloy, rated to 240 bar (3500 psi).
Ductile ironbodies available; dimensions may differ.

TO ORDER

DAFR10-39 - - -

Adjustment Option

Extended Shaft Only	Blank
3/16 Hex Allen Head	A
Option A with Cover Cap	C
Plastic Knob	E

Seals

N	Buna N (Std.)
V	Fluorocarbon

Porting

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