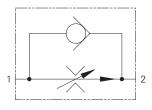
FAR1-10 - Flow Regulator

Fully adjustable, pressure compensated with free reverse flow 1-38 L/min (0.25-10 USgpm) • 310 bar (4500 psi)



Operation

Flow into the inlet of the valve passes through the adjustable orifice and out of the regulated port. The pressure drop across the orifice is sensed on the regulating sleeve and produces a force which, at the required flow rate, overcomes the spring force. The resultant movement of the sleeve regulates the flow by closing the radial valve ports.

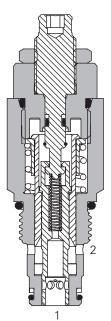
The inbuilt check allows free return of flow (2 to 1).

Features

Cartridge construction gives versatility of application. A valve may be fitted into a line body, a custom designed Hydraulic Integrated Circuit or directly into a cylinder or other actuator. Leakproof adjust screw gives easy, accurate adjustment to required flow setting. Hardened and ground working parts give accurate flow control and long working life.

Sectional View

Η



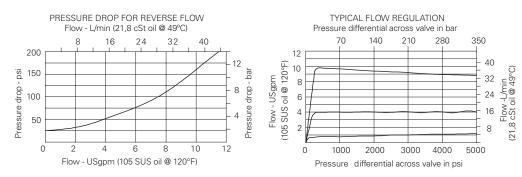
Performance Data

Ratings and Specifications	
Performance data is typical with fluid at 21,8 cSt (105 SU	S) and 49°C (120°F)
Typical application pressure (all ports)	5–350 bar (75–5000 psi) steel housing
Min. pressure differential across valve	14 bar (200 psi)
Cartridge fatigue pressure (infinite life)	310 bar (4500 psi)
Rated flow	1–38 L/min (0.25–10 USgpm)
Temperature range	40° to 120°C (–40° to 248°F)
Flow regulation accuracy	4–38 L/min (1–10 USgpm) ±10% 1–4 L/min (0.25–1 USgpm) ±20%
Factory set maximum flow rate accuracy under standard test conditions and within the above ranges	
Reverse check crack pressure	1.7 bar (25 psi
Leakage at shutoff position	0.4 L/min (24.4 in3/min
Cavity	C-10-2
Fluids	All general purpose hydraulic fluids such as MIL-H-5606, SAE 10, SAE 20 etc
Filtration	Cleanliness code 18/16/13
Standard housing material	Aluminum or Stee
Weight cartridge only	"S" 0,02 kg (0.44 lbs "K" 0,23 kg (0.51 lbs "H" 0,26 kg (0.59 lbs
Seal kit	565803 (Buna-N), 566086 (Viton*
Vitan is a registered trademark of EL DuBant	

Viton is a registered trademark of E.I. DuPont

Typical Flow Regulation

Cartridge only



Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.



H-170.A

Description

meter-out).

This is a two-port, restrictive

flow regulator with a built in free flow check valve. Typical

uses include the control of

the flow into or out of the

actuator (meter-in or

actuator speed by regulating

The flow (and actuator speed)

will be largely independent

of the load and the pressure

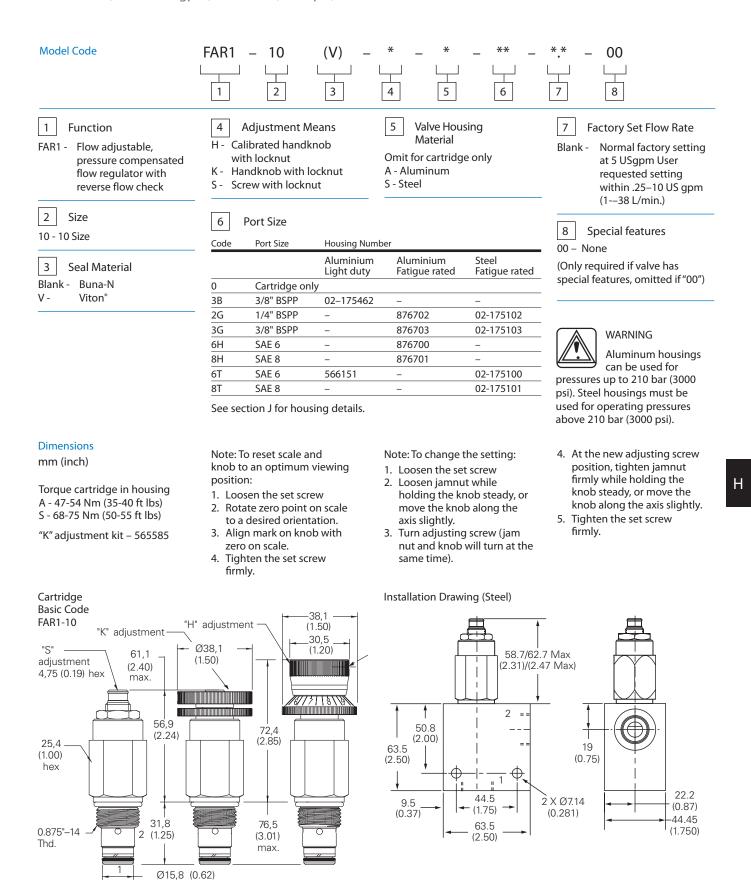
conditions. If used to restrict flow from a fixed supply, for

example a standard gear or

piston pump, the valve will pass the required flow and any surplus flow will normally pass over the system relief valve.

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