Flow Control Valves

FAR1-16

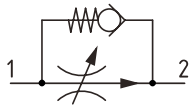
Flow Control, Fully Adjustable, Pressure Compensated, Restrictive Type with Reverse Free Flow

350 bar [5000 psi] • 114 l/min [30 US gpm]

DESCRIPTION AND OPERATION

This is a fully adjustable, restrictive type, pressure compensated flow control valve from port 1 to 2 with a reverse free flow check from port 2 to 1. The flow from port 2 will remain constant regardless of the pressure difference across the valve. Flow enters at port 1 and passes across an adjustable orifice in the spool, which creates a pressure drop. This causes the spool to move back against the spring, which then restricts the outlet flow. Flow from port 2 to 1 passes freely across an integral check valve.

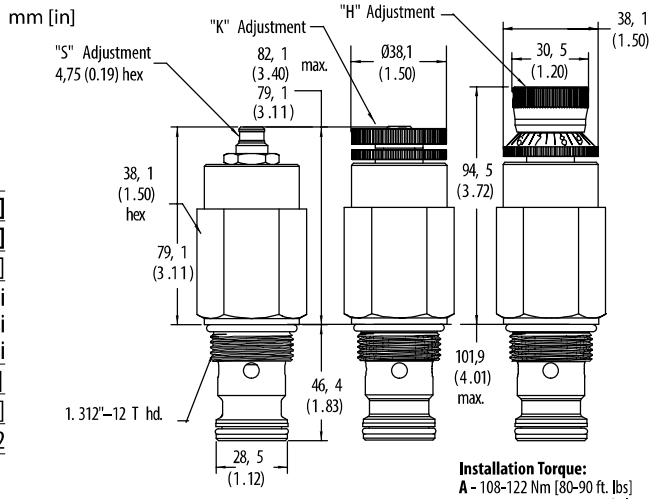
SCHEMATIC



PERFORMANCE DATA

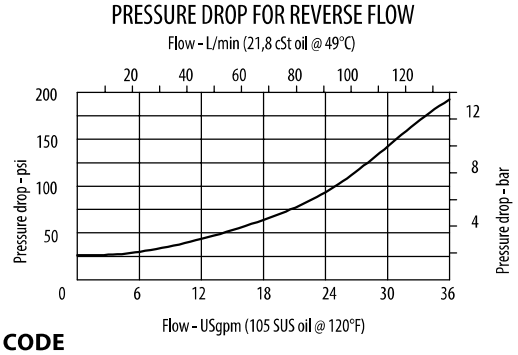
Rated pressure	**350 bar [5000 psi]**
Rated flow	**114 l/min [30 US gpm]**
Flow range	3.8-114 l/min [1.0-30 US gpm]
Flow accuracy	3.8–15.1 l/min[1.0–4.0 US gpm] ±30% @5000 psi 5.1–30.3 l/min[above 4.0–8.0 US gpm] ±20% @5000 psi 30.3–113.6 l/min[above 8.0–30 US gpm] ±10% @5000 psi
Reverse Check Crack Pressure	1.7 bar [25 psi]
Weight	0.67 kg [1.48 lb]
Cavity	SDC16-2

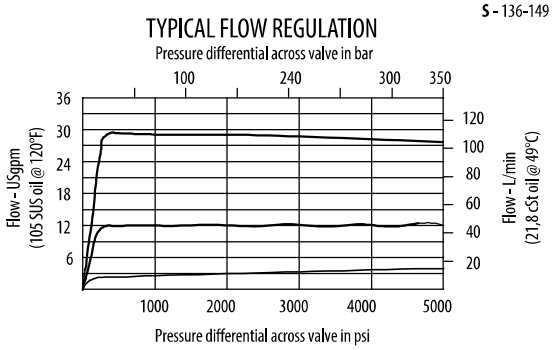
DIMENSIONS



Installation Torque:
A - 108-122 Nm [80-90 ft. lbs]
S - 136-149 Nm [100-110 ft. lbs]

PERFORMANCE CURVES





MODEL CODE

FAR1 - 16 - V - H - A - 4G - 10.0

Seal Option

Code	Seal Kit
Omit-Buna - N	565810
V-Viton	889609

Adjustment Option

H - Calibrated Knob
K - Knob
S - External

Housing Material

Omit - No housing
A - Aluminium
S - Steel

Flow Setting

Code - Flow in US gpm
Omit - Set at 10 US gpm
Specity in 0.5 gpm increments within flow range
Example

Code	l/min	[US gpm]
10.0	38.0	10.0

Housing

Code	Ports	Aluminium Standard duty	Aluminium Heavy duty	Steel Heavy duty
0	No housing			
4G	1/2" BSP	-	876716	02-175106
6B	3/4" BSP	02-175463	-	-
6G	3/4" BSP	-	876718	02-175107
10T	#10 SAE	-	-	-
10H	#10 SAE	-	876717	02-175104
12T	#12 SAE	566149	-	-
12H	#12 SAE	-	566113	02-175105

* Aluminum bodies are to be used for pressures less than 210 bar [3000 psi].
* Additional housings available