

Flow Control Valves

FR2-16

Flow Control, Partially Adjustable, Pressure Compensated, Restrictive Type

210 bar [3000 psi] • 114 l/min [30 US gpm]



DESCRIPTION AND OPERATION

This is a partially adjustable, restrictive type, pressure compensated flow control valve, where the flow from port 2 will remain constant regardless of the pressure difference across the valve. Flow enters at port 1 and passes across a fixed 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. The flow adjustment is from the factory set maximum flow rate down to 50% of that factory set flow rate.

SCHEMATIC

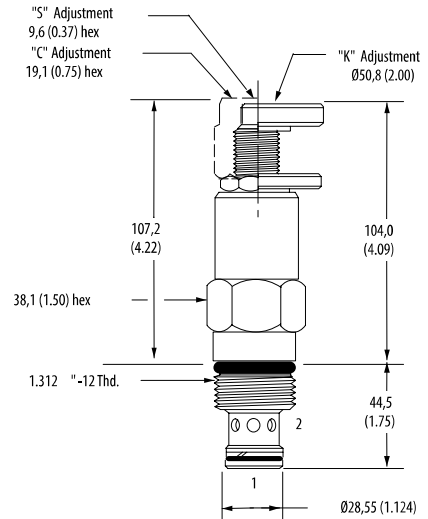


PERFORMANCE DATA

Rated pressure	210 bar [3000 psi]
Rated flow	114 l/min [30 US gpm]
Flow range	1.9-114 l/min [0.5-30 US gpm]
Flow accuracy	1.9-10.9 l/min[0.5-2.9 US gpm] ±15% 11.4-114 l/min[3-30 US gpm] ±10%
Weight	0.71 kg [1.57 lb]
Cavity	SDC16-2

DIMENSIONS

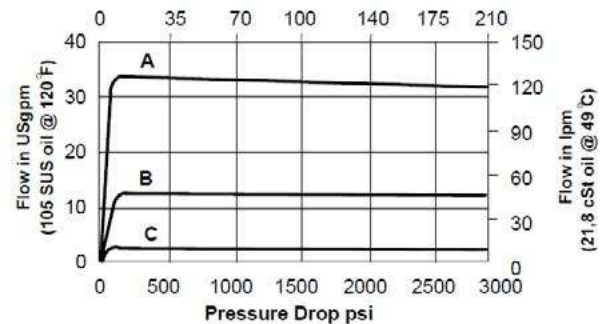
mm [in]



Installation torque
108-122 Nm [80-90 ft lbs]

PERFORMANCE CURVES

Flow Compensation Pressure Drop bar



A - 114 l/min [30.0 US gpm] • B - 38 l/min [10.0 US gpm]
C - 9.5 l/min [2.5 US gpm]

MODEL CODE

FR 2 - 16 - V - C - 0 - 10.0

Seal Option

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

Adjustment Option

C - Tamper Resistant
K - Knob
S - External

Flow Setting

Code - Flow in US gpm
Specify in 0.1 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
0	No housing		
6B	3/4" BSP	02-175463	-
12T	#12 SAE	566149	-
4G	1/2" BSP	-	876716
6G	3/4" BSP	-	876718
10H	#10 SAE	-	876717
12H	#12 SAE	-	876713

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