

Flow Control Valves

FR5-8

Flow Control, Fixed, Pressure Compensated, Restrictive Type

350 bar [5000 psi] • 9.5 l/min [2.5 US gpm]

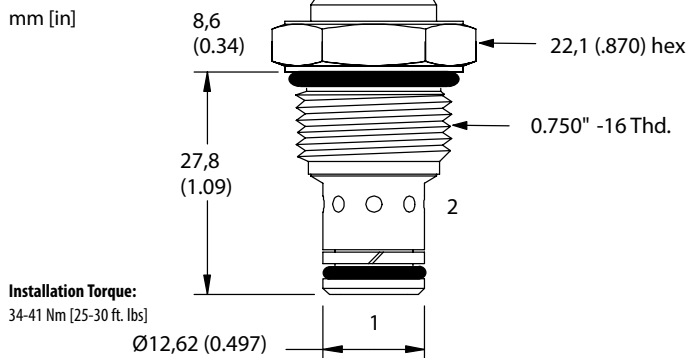
DESCRIPTION AND OPERATION

This is a fixed, 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.

SCHEMATIC



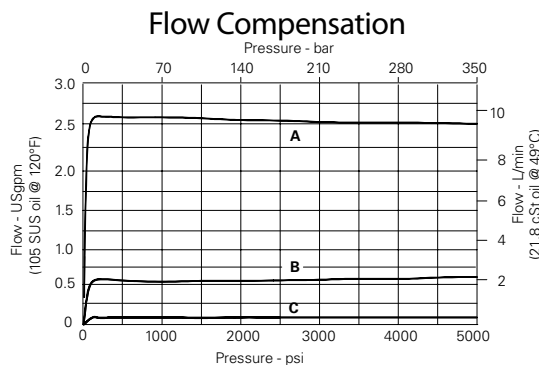
DIMENSIONS



PERFORMANCE DATA

Rated pressure	350 bar [5000 psi]
Rated flow	9.5 l/min [2.5 US gpm]
Flow Range	0.4-9.5 l/min [0.1-2.5 US gpm]
Flow Accuracy	0.4-1.9 l/min [0.1-0.49 US gpm] ±20% @ 210 bar [3000 psi]
	0.4-1.9 l/min [0.1-0.49 US gpm] ±40% @ 350bar [3000 psi]
	1.9-5.7 l/min [0.5-1.49 US gpm] ±15% @ 350 bar [5000 psi]
	5.7-9.5 l/min [1.5-2.5 US gpm] ±10% @ 350 bar [5000 psi]
Weight	0.05 kg [0.12 lbs]
Cavity	SDC08-2

PERFORMANCE CURVES



A - 9,5 L/min (2.5 USgpm) • B - 1,9 L/min (0.5 USgpm)
C - 0,4 l/min (0.1 USgpm)

MODEL CODE

FR5 - 8 - V - F - A - 4T - 1.0

Seal Option

Code	Seal Kit
Omit-Buna - N	02-165875
V-Viton	02-165877

Adjustment Option

F - Fixed

Housing Material

Omit - No housing
A - Aluminium
S - Steel

Flow Setting

Code - Flow in US gpm
Specify in 0.1 gpm increments within flow range
Example

Code	l/min	[US gpm]
1.0	4.0	1.0

Housing

Code	Ports	Aluminium Heavy duty	Steel Heavy duty
0	No housing		
4T	#4 SAE	02-160730	02-160736
6T	#6 SAE	02-160731	02-160737
8T	#8 SAE	02-160732	02-160738
2G	1/4" BSP	02-160727	02-160733
3G	3/8" BSP	02-160728	02-160734

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

* Additional housings available