

Flow Control Valves

FR5-10

Flow Control, Fixed, Pressure Compensated, Restrictive Type

350 bar [5000 psi] • 23 l/min [6 US gpm]

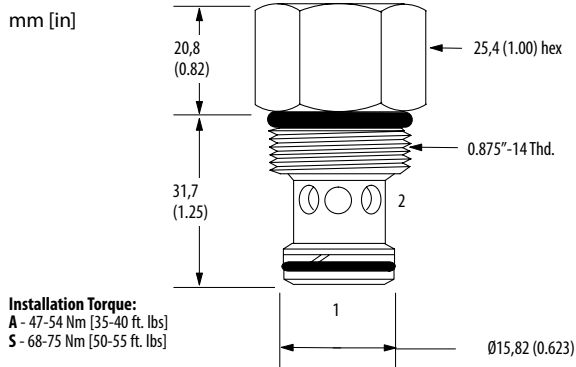
DESCRIPTION AND OPERATION

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

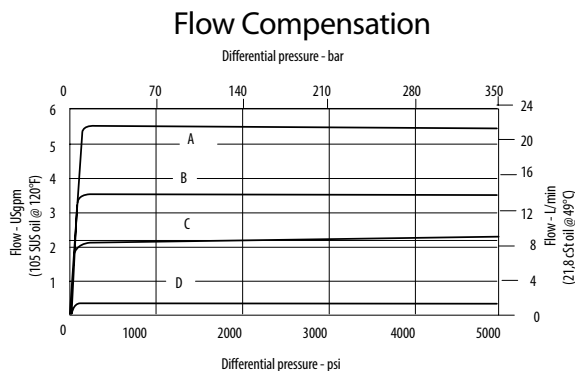


Installation Torque:
A - 47-54 Nm [35-40 ft. lbs]
S - 68-75 Nm [50-55 ft. lbs]

PERFORMANCE DATA

Rated pressure	350 bar [5000 psi]
Rated flow	23 l/min [6 US gpm]
Flow Range	0.4-23 l/min [0.1-6 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% @ 350 bar [5000 psi]
	1.9-5.7 l/min [0.5-1.49 US gpm] ±15% @ 350 bar [5000 psi]
	5.7-22.7 l/min [1.5-6 US gpm] ±10% @ 350 bar [5000 psi]
Weight	0.12 kg [0.26 lb]
Cavity	SDC10-2

PERFORMANCE CURVES



A - 21 l/min(5.5 US gpm) • B - 13.3 l/min(3.5 US gpm)
C - 7.8 l/min(2.0 US gpm) • D - 0.95 l/min(0.25 US gpm)

MODEL CODE

FR 5 - 10 - V - F - A - 3B - 1.0

Seal Option

Code	Seal Kit
Omit-Buna - N	565803
V-Viton	566086

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 Standard duty	Aluminium Heavy duty	Steel Heavy duty
0	No housing			
3B	3/8" BSP	02-175462		
2G	1/4" BSP		876702	02-175102
3G	3/8" BSP		876703	02-175103
6H	#6 SAE		876700	
8H	#8 SAE		876701	
6T	#6 SAE	566151		02-175100
8T	#8 SAE			02-175101

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

* Additional housings available