

Flow Control Valves

FAR1-12

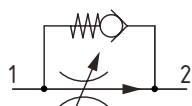
Flow Control, Fully Adjustable, Pressure Compensated, Restrictive Type with Reverse Free Flow

350 bar [5000 psi] • 95 l/min [25 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.

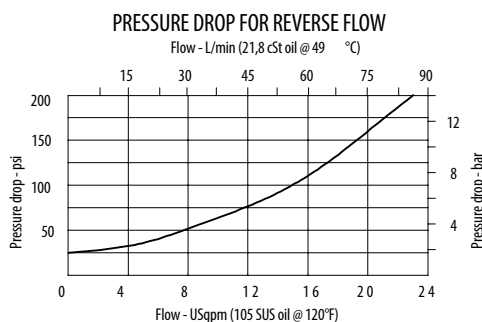
SCHEMATIC



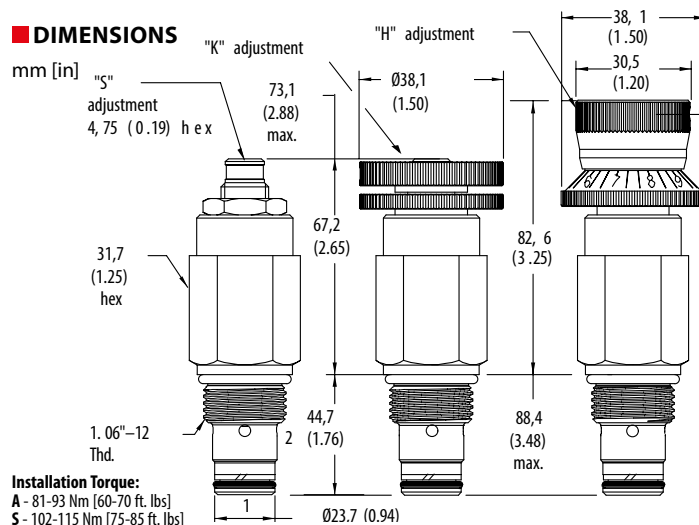
PERFORMANCE DATA

Rated pressure	350 bar [5000 psi]
Rated flow	95 l/min [25 US gpm]
Flow range	1.5-94.6 l/min [0.4-25 US gpm] up to 210 bar [3000 psi] 1.5-87.1 l/min [0.4-23 US gpm] up to 350 bar [5000 psi]
Flow accuracy	1.5-3.8 l/min [1.4-1.0 US gpm] ±20% @5000 psi 3.8-56.8 l/min [1-15 US gpm] ±10% @5000 psi
Reverse check crack pressure	1.7 bar [25 psi]
Weight	0.43 kg [0.95 lb]
Cavity	C-12-2/C-12-2U

PERFORMANCE CURVES

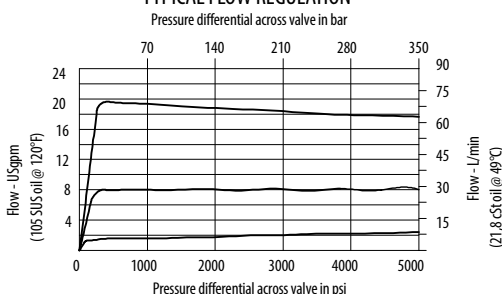


DIMENSIONS



Installation Torque:
A - 81-93 Nm [60-70 ft. lbs]
S - 102-115 Nm [75-85 ft. lbs]

TYPICAL FLOW REGULATION



MODEL CODE

FAR1 - 12 - V - H - A - 10T - U - 10.0

Seal Option

Code	Seal Kit
Omit - Buna - N	02-181304
V - Viton	02-181305

Adjustment Option

H - Calibrated Knob
K - Knob
S - External

Housing Material

Omit - No housing
A - Aluminium
S - Steel

Housing

Code	Ports	C-12-2U Aluminium Standard duty	C-12-2 Aluminium Heavy duty	C-12-2U Steel Heavy duty	C-12-2 Steel Heavy duty
0	No housing				
10T	#10 SAE	02-160641	02-160640	02-169817	02-169744
12T	#12 SAE	02-160645	02-160644	02-169790	02-169782
4G	1/2" BSP	02-161116	02-161118	02-172512	02-172062
6G	3/4" BSP	02-161115	02-161117	02-162922	02-169665

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

* Additional housings available

Flow Setting

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

Code	l/min	[US gpm]
10	38.0	10.0

Cavity

Omit - Cavity without undercut
U - Cavity with undercut