

# Flow Control Valves

## FR5-8

Flow Control, Fixed, Pressure Compensated, Restrictive Type

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



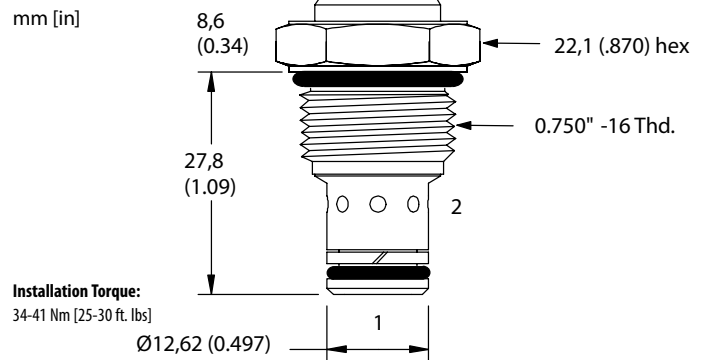
### DESCRIPTION AND OPERATION

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

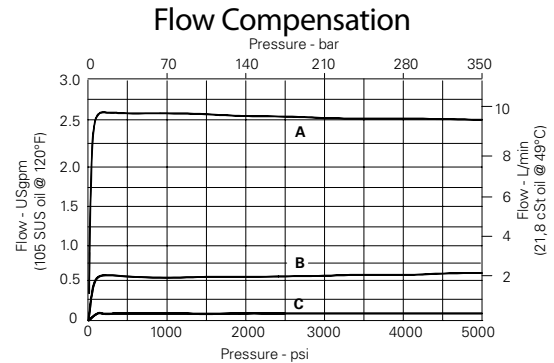


Installation Torque:  
34-41 Nm [25-30 ft. lbs]

### 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

FR 5 - 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