# **Flow Control Valves**

# HFCV10-RT

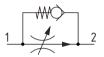
Danfoss

Flow Control, Fully Adjustable, Pressure Compensated, Restrictive Type with Reverse Free Flow 350 bar [5000 psi] • 11.4 l/min [3 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**



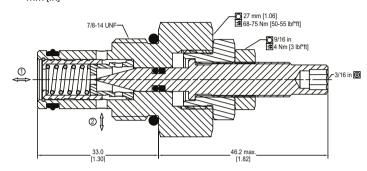
#### **■ PERFORMANCE DATA**

Rated pressure*	350 bar [5000 psi]	
Rated flow	11.4 l/min [3 US gpm]	
Flow range	0.4-11.4 l/min [0.1-3.0 US gpm]	
Flow accuracy	+/- 12%	
Leakage	40 ml/min@ rated pressure	
Weight	0.17 kg [0.37 lb]	
Cavity	SDC10-2	

<sup>\*</sup> Rated Pressure based on NFPA fatigue test standards (at 1 Million Cycles).

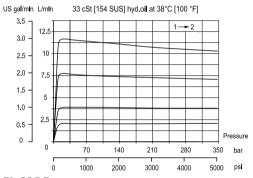
#### DIMENSIONS



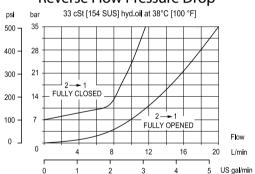


### **PERFORMANCE CURVES**

# Flow Compensation



# **Reverse Flow Pressure Drop**



## **■ MODEL CODE**

### HFCV10 - RT - P - E - 4.0 - 00 **Seal Option** Code Seal Kit P-Polyurethane Single Seal 11132135 354000819 V-Viton **Adjustment Option** E - External K - Knob

#### **Flow Setting**

Code - Flow in I/min Specity in 1.0 lpm increments within flow range Example

Code	l/min	[US gpm]	
4.0	4.0	1.0	

## Housing

Code	Ports & Material	<b>Housing Model Code</b>
00	No housing	No Body
DG3B	3/8 BSP, AL	SDC10-2-DG3B
DG4B	1/2 BSP, AL	SDC10-2-DG4B
S4B	1/2 BSP, DUCTILE	CP10-2-S4B
65	#6 SAE, AL	CP10-2-6S
85	#8 SAE, AL	CP10-2-8S
S8S	#8 SAE, DUCTILE	CP10-2-S8S

<sup>\*</sup> Aluminum bodies are to be used for pressures less than 210 bar [3000 psi].

<sup>\*</sup> Additional housings available