

**OPERATION**

The HFCV10-RT is a high pressure, fully adjustable, pressure compensated, restrictive-type flow control. This valve maintains a constant flow rate out of port 2 regardless of pressure variations at port 2 or port 1. An integral check valve allows unrestricted flow from port 2 to port 1.

The valve can be adjusted from closed to fully open (5 turns) with counter-clockwise rotation of the adjustment screw. Regulated flow ranges are available pre-set from the factory in 1 LPM increments between 1-11 LPM (0.26-2.9 US gal/min) and also at flows of 0.38 LPM (0.1 US gal/min) and 11.4 LPM (3.0 US gal/min).



**APPLICATIONS**

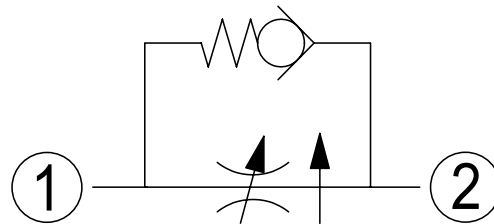
The HFCV10-RT features fine adjustability and can be used for meter-in, meter-out applications to control actuator speeds.

**SPECIFICATIONS**

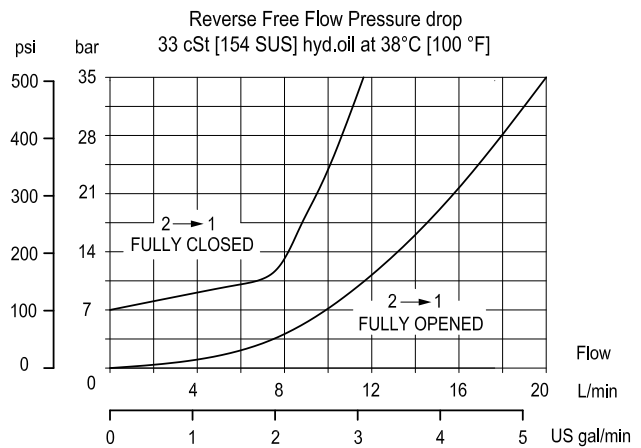
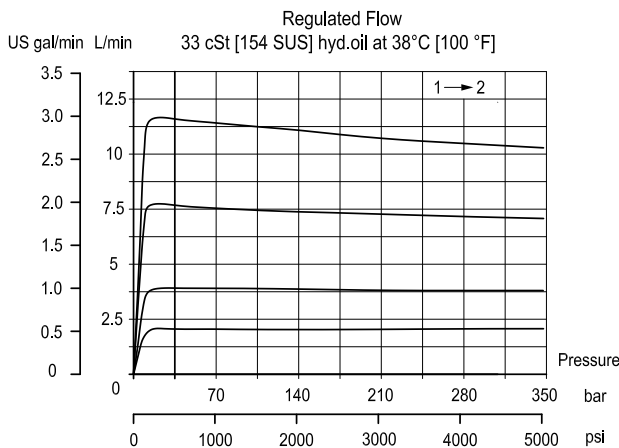
<b>Rated Pressure*</b>	350 bar [5075 psi]
<b>Min Regulated Flow</b>	0.38 lpm (0.1 US gal/min)
<b>Max Regulated Flow</b>	11.4 lpm (3.0 US gal/min)
<b>Accuracy</b>	+/- 12%
<b>Leakage</b>	40 ml/min @ rated pressure
<b>Weight</b>	0.17 kg 0.37 lbs
<b>Cavity</b>	SDC10-2

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

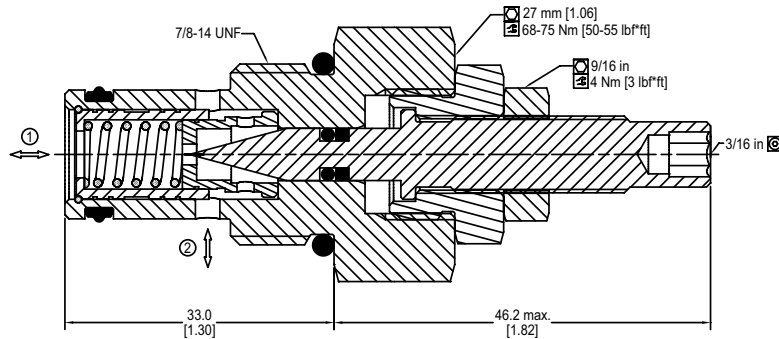
**SCHEMATIC**



**PERFORMANCE CURVES**

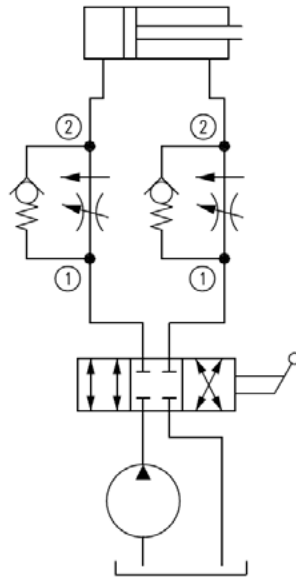


**DIMENSIONS**

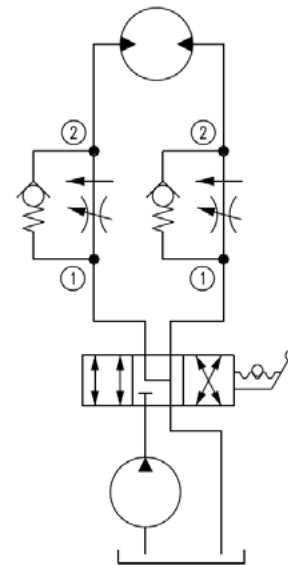


**EXAMPLE CIRCUITS**

Compensated Flow Control, Meter-In Cylinder



Compensated Flow Control, Meter-In Motor



**ORDERING INFORMATION**

High Pressure Flow Control,  
Pressure Compensated, Variable Orifice,  
10 Size, Restrictive Type

**HFCV10 - RT - P - E - 1.0 - 00**

Seal Option

Code	Seal Material	Seal kit
P	Polyurethane Single Seal	11132135
V	Viton	354000819

Adjustment Type

Code	Adjustment Type
E	External

Body	Ports & Material	Body Nomenclature
00	Cartridge Only	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
6S	#6 SAE, AL	CP10-2-6S
8S	#8 SAE, AL	CP10-2-8S
S8S	#8 SAE, Ductile	CP10-2-S8S

Regulated Flow Setting

L/min [US gal/min]  
0.38 [0.1]  
1.0-11.0 [0.26-2.9] increments of 1.0 L/min  
11.4 [3.0]