

Flow Control Valves

VRF 06

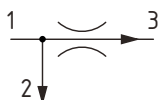
Flow Control, Fixed, Pressure Compensated, Priority Type

315 bar [4600 psi] • 25 l/min [7 US gpm]

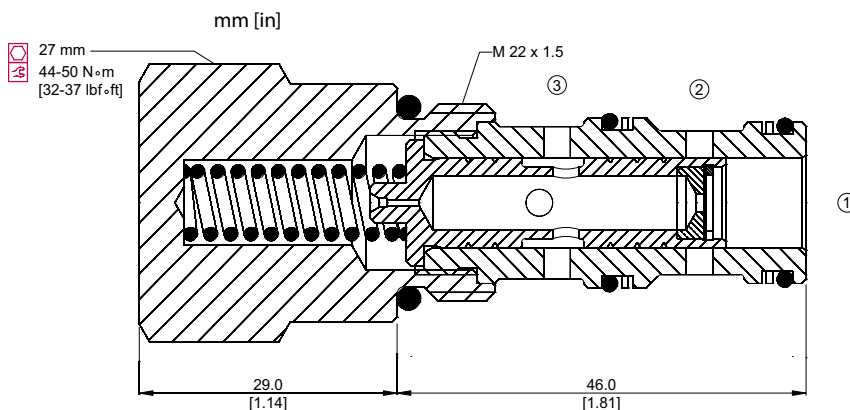
DESCRIPTION AND OPERATION

This is a fixed, priority type, pressure compensated flow control valve, where the flow from port 3 will remain constant regardless of the pressure difference across the valve, while excess flow passes from port 1 to 2. 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. Port 1 then opens to port 2 to allow excess flow to pass. The regulated flow will always take priority and remains constant if the working pressure is higher in either port 2 or port 3.

SCHEMATIC



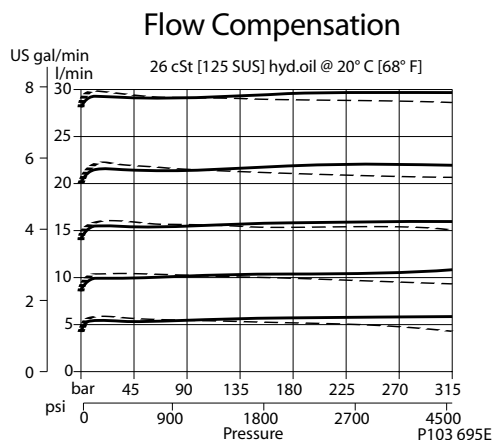
DIMENSIONS



PERFORMANCE DATA

Rated pressure	315 bar [4600 psi]
Rated flow	25 l/min [7 US gpm]
Max inlet flow	50 l/min [13 US gpm]
Flow range	1.5-25 l/min [0.4-7 US gpm]
Flow accuracy	+/- 10%
Weight	0.19 kg [0.42 lb]
Cavity	NCS06/3

PERFORMANCE CURVES



MODEL CODE

VRF 06 - 1.50 - SE3/8 - V

Orifice Size

Code - Orifice Size in mm

Code	Flow Setting	
	l/min	[US gpm]
0.75	1.5	[0.4]
1.00	2.0	[0.53]
1.25	3.5	[0.92]
1.50	4.5	[1.19]
1.75	6	[1.58]
2.00	9.0	[1.38]
2.25	10	[2.64]
2.50	12	[3.30]
2.75	15	[3.96]
3.00	18	[4.75]
3.25	21.5	[5.68]
3.50	25	[6.73]

Seal Option

Code	Seal Kit
V-Viton	230000110
Omit-Buna-N	230000070

Housing

Code	Ports & Material	Housing Model Code
00	No Housing	No Housing
SE3/8	AL, 3/8 BSP	NCS06/3-SE-3/8
SE1/2	AL, 1/2 BSP	NCS06/3-SE-1/2
SE65	AL, #6 SAE	NCS06/3-SE-65
SE85	AL, #8 SAE	NCS06/3-SE-85

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

* Additional housings available