Flow Control Valves

NV1-8

Needle Valve, Fully Adjustable

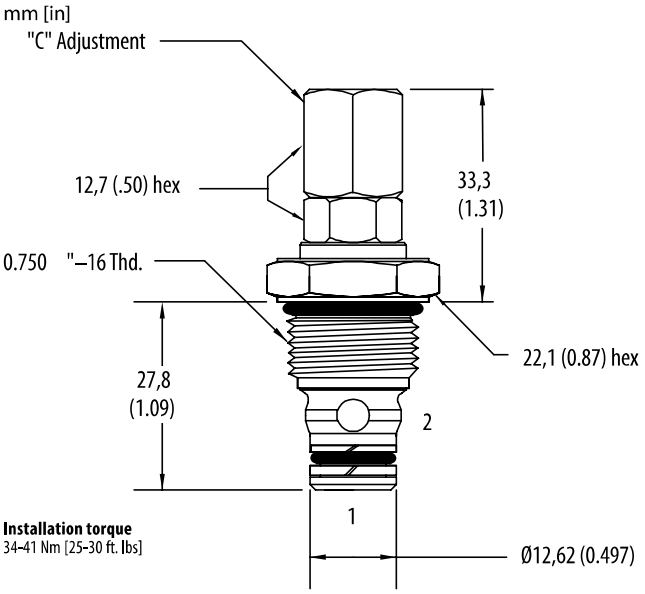
350 bar [5000 psi] • 45 l/min [12 US gpm]

DESCRIPTION AND OPERATION

This needle valve is a variable orifice used to create a pressure drop when flow passes from port 1 to 2 or port 2 to 1. Clockwise rotation of the adjustment screw decreases the flow setting until it is completely closed. The setting can be locked by tightening lock nut or knob on the adjustment screw.

SCHEMATIC

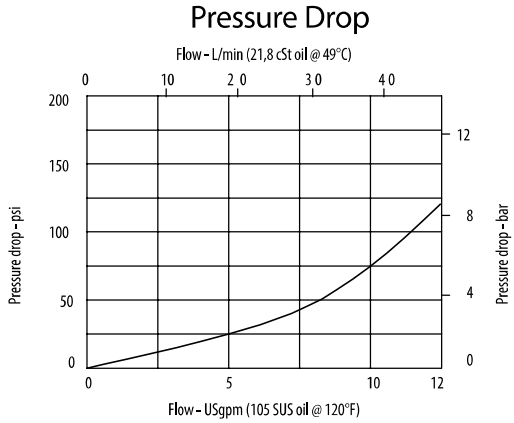
DIMENSIONS



PERFORMANCE DATA

Rated pressure	**350 bar [5000 psi]**
Rated flow	**45 l/min [12 US gpm]**
Leakage	5 drops/min @ 350 bar [5000 psi]
Weight	0.07 kg [0.15 lb]
Cavity	SDC08-2

PERFORMANCE CURVES



MODEL CODE

NV1 - 8 - V - S - S - 4T

Seal Option

Code	Seal Kit
Omit-Buna - N	02-165875
V-Viton	02-165877

Adjustment Option

S - External
C - Tamper Resistant
K - Knob

Housing Material

Omit - No housing
S - Steel
A - Aluminium

Housing

Code	Ports	Aluminium Heavy duty	Steel
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