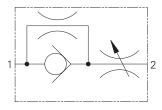
NV1-16 - Flow Restrictor Valve

Needle

151 L/min (40 USgpm) • 210 bar (3000 psi)



Sectional View

Description

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This is a manually adjusted cartridge type needle valve. With fine control it is ideal for none compensated speed control of actuators or as a control orifice in conjunction with a pressure compensator Total shut off can be achieved allowing the valve to be used as a shut of valve.

Operation

This needle valve is nonpressure compensated. Flow is controlled in the direction from port 2 to port 1, from full flow to tight shut-off, by turning the adjustment feature clockwise. The flow from port 1 to port 2 will be restricted.

Features

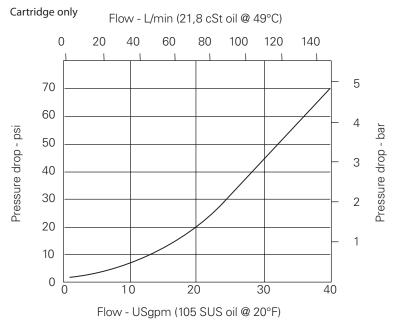
Hardened and ground working components. Cartridge construction for maximum mounting flexibility.

Performance Data

Ratings and Specifications	
Performance data is typical with fluid at 21,8 cSt (105	SUS) and 49°C (120°F)
Typical application pressure (all ports)	210 bar (3000 psi)
Cartridge fatigue pressure (infinite life)	210 bar (3000 psi)
Rated flow	151 L/min (40 USgpm)
Internal leakage	5 drops/min maximum @ 210 bar (3000 psi)
Temperature range	-40° to 120°C (-40° to 248°F)
Cavity	C-16-2
Fluids	All general purpose hydraulic fluids such as: MIL-H-5606, SAE 10, SAE 20 etc.
Filtration	Cleanliness code 18/16/13
Standard housing material	Aluminum
Weight cartridge only	0,34 kg. (0.76 lbs)
Seal kit	565810 (Buna-N), 889609 (Viton*)
Vitan is a registered trademark of EL DuPont	

Viton is a registered trademark of E.I. DuPont

Pressure Drop Curves



Full open port 2 to port 1

Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.

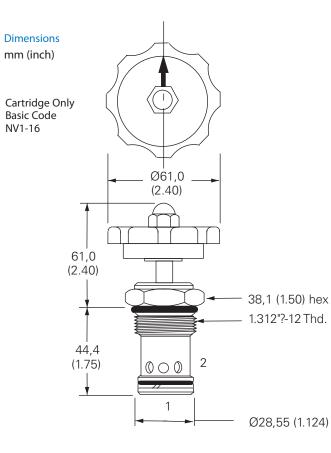


NV1-16 - Flow Restrictor Valve

Needle

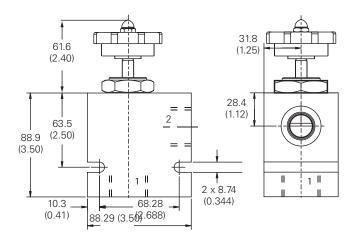
151 L/min (40 USgpm) • 210 bar (3000 psi)

Model Code	NV1 –		* - ** - 00 4 5 6	l	
1 Function NV1 - Needle valve	5 Port	Size Port Size	Housing Number		6 Special Features
2 Size 16 - 16 size		TOTUSIZE	Aluminium Light duty	Aluminium Fatigue rated	00 - None (Only required if valve has special features, omit if ("00")
	0	Cartridge only			
	6B	3/4" BSPP	02–175463	-	
3 Seal Material	12T	SAE 12	566149	_	
Blank - Buna-N	4G	1/2" BSPP	-	876716	
V - Viton [®]	6G	3/4" BSPP	-	876718	
	10H	SAE 10	-	876717	
4 Adjustment	12G	SAE 12	-	566113	
K - Knob (black) R - Knob (red)	See section	n J for housing details.			



Torque cartridge in aluminum housing 108-122 Nm (80-90 ft lbs)

Installation Drawing





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