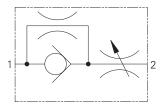
NV1-16 - Flow Restrictor Valve

Needle

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



Sectional View

Description

Η

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

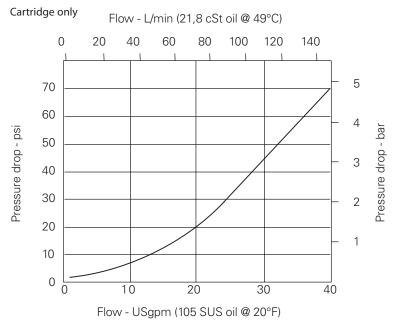
Hardened and ground working components. Cartridge construction for maximum mounting flexibility.

| 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.

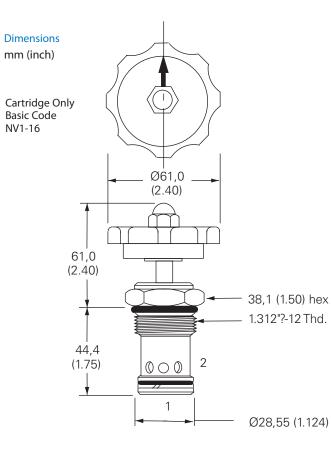


NV1-16 - Flow Restrictor Valve

Needle

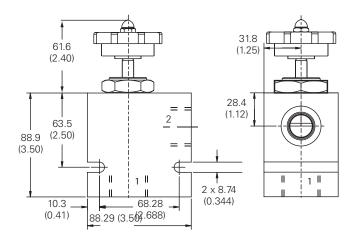
151 L/min (40 USgpm) • 210 bar (3000 psi)

| 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





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

Η