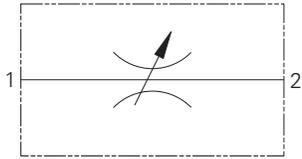


FCV6-16 - Flow Restrictor Valve

Needle

208 L/min (55 USgpm) • 210 bar (3000 psi)



Operation

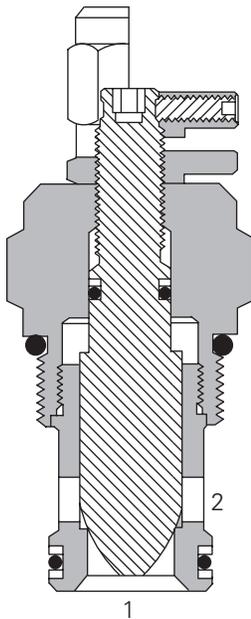
This needle valve is a variable orifice used to create a pressure drop when flow passes from port 1 to 2 or port 2 to 1.

Clockwise rotation of the adjust screw de-creases the orifice size to completely closed and anti-clockwise increases the orifice. The setting can be locked using the lock nut on the adjust screw.

Features

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

Sectional View



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	208 L/min (55 USgpm)
Internal leakage	Port 2 to 1; <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	0,37 kg (0.81 lbs)
Seal kit	889631 (Buna-N) 889635 (Viton)

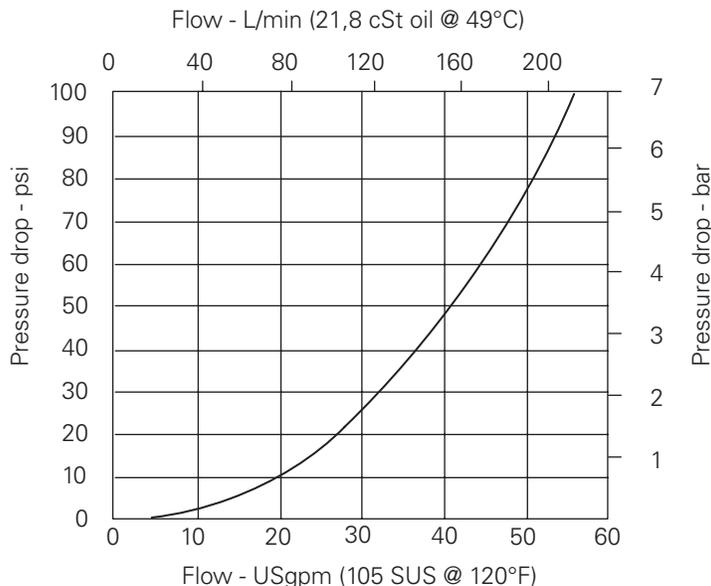
Viton is a registered trademark of E.I. DuPont

Description

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.

Pressure Drop

Cartridge only



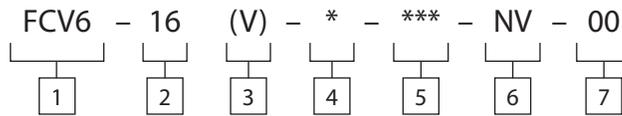
Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.

FCV6-16 - Flow Restrictor Valve

Needle

208 L/min (55 USgpm) • 210 bar (3000 psi)

Model Code



1 Function
FCV6 - Needle valve

2 Size
16 - 16 size

3 Seal Material
Blank - Buna-N
V - Viton®

4 Adjustment
C - Cap
K - Knob
S - Screw

5 Port Size

Code	Port Size	Housing Number	
		Aluminium Light duty	Aluminium Fatigue rated
0	Cartridge only		
6B	3/4" BSPP	02-175463	-
12T	SAE 12	566149	-
4G	1/2" BSPP	-	876716
6G	3/4" BSPP	-	876718
10H	SAE 10	-	876717
12H	SAE 12	-	566113
See section J for housing details.			

6 Controlled Flow Option
NV - Needle valve

7 Special Features

00 - None
(Only required if valve has special features, omit if ("00"))

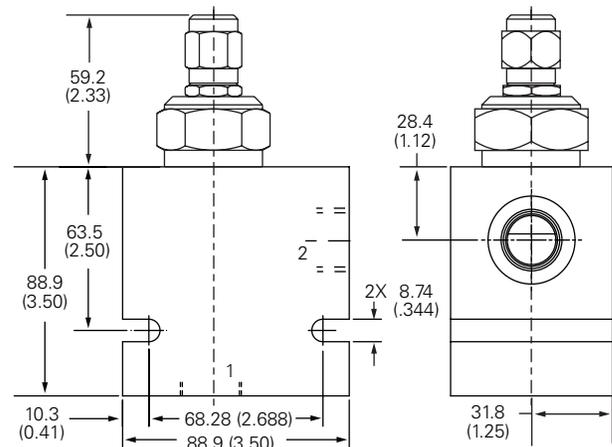
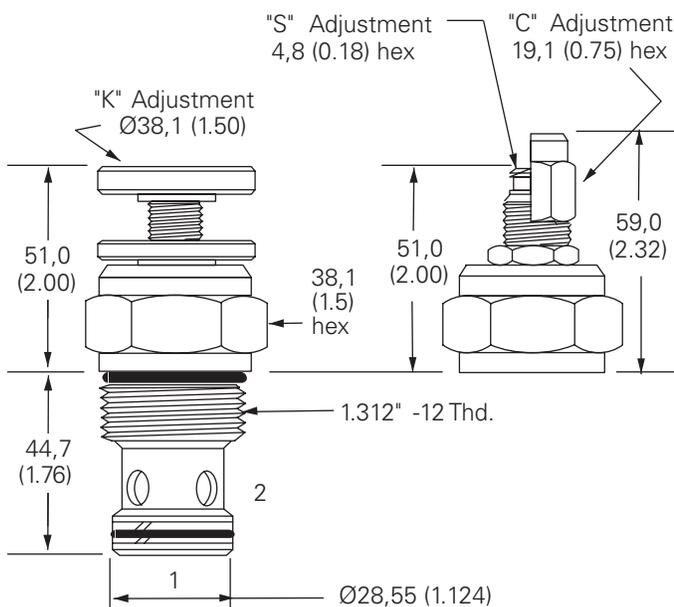
Dimensions

mm (inch)

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

Cartridge Only
Basic Code
FCV6-16

Installation Drawing



WARNING
Aluminum housings
can be used for
pressures up to 210
bar (3000 psi). Steel housings
must be used for operating
pressures above 210 bar
(3000 psi).