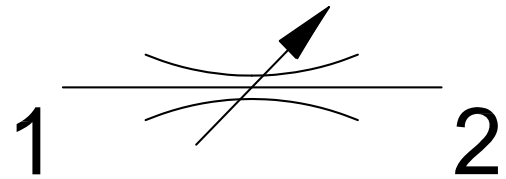
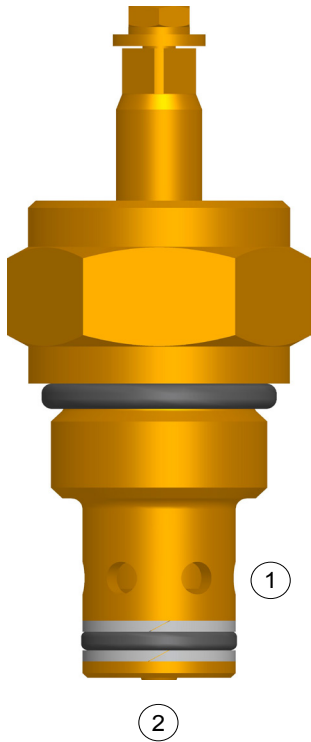


Flow Control Valve  
Needle Type, Bi-Directional



- $Q_{(max)}=80 \text{ lpm}$  ,  $P_{(max)}=350 \text{ bar}$
- Screw -in Cartridge,
- Bi-Directional , Needle-Type, Flow Control Valve



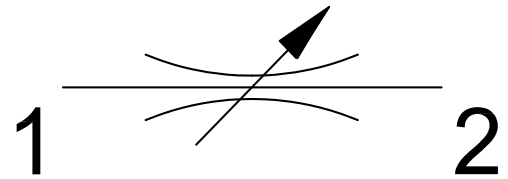
- It Increases Annular volume from fully close to fully open by anti-clockwise rotation.
- Minimal Leakage under Pressure.
- Available with **Hand-Knob**.
- Can be fitted in **line mounting bodies**.
- All external parts are **zinc plated ,chromated (CrVI-Free)**.
- Designed in accordance to **Industry common Cavities**.

## 1. Description -

SFNV series cartridge valves are **Screw-in Cartridge, Needle type Flow Control Valves**. These Cartridge increase its annular volume from fully close to fully open by rotating adjustable screw in anti-clockwise rotation. Flow setting is difficult when subjected directly against pressure.

All external parts of this cartridge are Zinc-plated and chromated (CrVI-free). All Valve parts are made up of high strength steel.

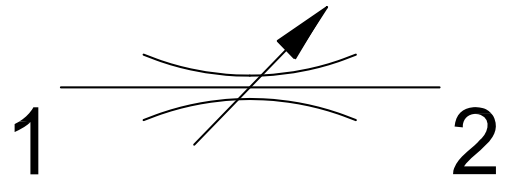
Flow Control Valve  
Needle Type, Bi-Directional



## 2. Technical Data :

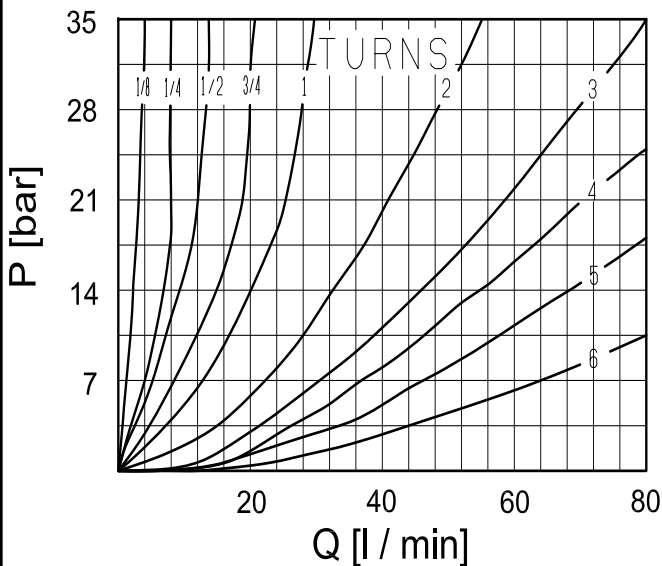
S.no.	General Specification	Values
1.	DESIGNATION	FLOW CONTROL VALVE, NEEDLE TYPE
2.	MOUNTING METHOD	SI0-2 CAVITY
3.	MAXIMUM OPERATING PRESSURE	350 BAR
4.	MAXIMUM FLOW	80 LPM
5.	INTERNAL LEAKAGE	ZERO DROPS AT 350 BAR
6.	OPERATING TEMPERATURE	-30° TO +110° C
7.	HYDRAULIC FLUID	MINERAL OILS WITH LUBRICATING PROPERTIES AT 15.....250 MM <sup>2</sup> /SEC
8.	MINIMUM FLUID CLEANINESS	ISO CLASS 20/18/15
9.	WEIGHT	0.15 KG
10.	INSTALLATION TORQUE	75-80 N/M

## Flow Control Valve Needle Type, Bi-Directional

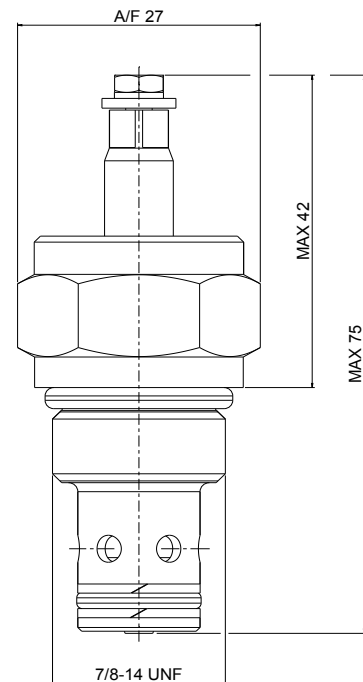


### 3. P-Q Characteristics :

**Note:** The Performance Chart shows Flow handling capacity at specific pressure setting P/Q Curve is recorded at Temp<sub>oil</sub> = 40° C at 46 cst.



### 4. Dimensioning :



### 5. Ordering Code :

**SFNV - 10 - X - X**

VALVE BASIC CODE

CAVITY TYPE = 7/8" -14 UNF  
METRIC CAVITY AVAILABLE ON

ADJUSTMENT :

K = KNOB  
W = WITHOUT KNOB

HOUSING & PORTS

C : Cartridge only  
XA3 : 3/8" BSP  
XA4 : 1/2" BSP  
XB8 : SAE #8  
XB10 : SAE #10

A : Aluminium Housing

S : Steel Housing