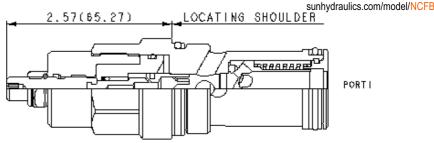




# CONFIGURATION

L Control		Standard Screw Adjustment		
С	Reverse Flow Check	30 psi (2 bar)		
Ν	Seal Material	Buna-N		
(nor	e) Material/Coating	Standard Material/Coating		



PORTZ

Needle valves with reverse-flow check are fully adjustable orifices used to regulate flow. They are infinitely adjustable from fully closed up to the maximum orifice diameter. An integral high-capacity check valve provides unrestricted flow from port 2 to port 1. They are not pressure compensated.

#### TECHNICAL DATA

NOTE: DATA MAY VARY BY CONFIGURATION. SEE CONFIGURATION SECTION.

Cavity	T-16A		
Series	3		
Capacity	120 L/min. (9,7 mm)		
Maximum Operating Pressure	350 bar		
Maximum Valve Leakage at 110 SUS (24 cSt)	0,7 cc/min.		
Adjustment - No. of CCW Turns from Fully Closed to Fully Open	5		
Valve Hex Size	31,8 mm		
Valve Installation Torque	203 - 217 Nm		
Adjustment Screw Internal Hex Size	4 mm		
Locknut Hex Size	15 mm		
Locknut Torque	9 - 10 Nm		
Seal kit - Cartridge	Buna: 990016007		
Seal kit - Cartridge	EPDM: 990016014		
Seal kit - Cartridge	Polyurethane: 990016002		
Seal kit - Cartridge	Viton: 990016006		
Model Weight	0.57 kg.		

### **CONFIGURATION OPTIONS**

# Model Code Example: NCFBLCN

	CONTROL (L)	REVERSE FLOW CHECK	(C)	SEAL MATERIAL	(N)	MATERIAL/COATING	
	L Standard Screw Adjustment	<b>C</b> 30 psi (2 bar)		N Buna-N		Standard Material/Coating	
H Calibrated Handknob with Detent Lock		<b>A</b> 4 psi (0,3 bar)		E EPDM		/AP Stainless Steel, Passivated	
K Handknob		E 75 psi (5 bar)		V Viton		/LH Mild Steel, Zinc-Nickel	

Y Tri-Grip Handknob

# **TECHNICAL FEATURES**

- All 2-port flow control cartridges are physically and functionally interchangeable (i.e. same flow path, same cavity for a given frame size). However, cartridge extension dimensions from the mounting surface may vary.
- Because needle valves are non-compensating devices, the fixed orifice size will regulate flow through the valve in proportion to the square root of the pressure differential across ports 1 and 2.
- A balanced adjustment mechanism allows for easy adjustment even at high pressures.
- The sharp-edged orifice design minimizes flow variations due to viscosity changes.
- Cartridges configured with EPDM seals are for use in systems with phosphate ester fluids. Exposure to petroleum based fluids, greases and lubricants will damage the seals.
- Incorporates the Sun floating style construction to minimize the possibility of internal parts binding due to excessive installation torque and/or cavity/cartridge
  machining variations.

### **PERFORMANCE CURVES**

