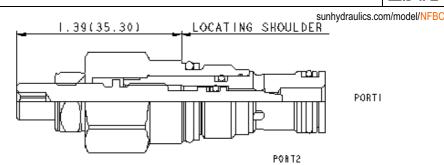




CONFIGURATION

L	Control	Standard Screw Adjustment	
C	Maximum Orifice Diameter	.16 in. (4 mm)	
۷	Seal Material	Viton	
(none) Material/Coating		Standard Material/Coating	



Needle valves are fully adjustable orifices used to regulate flow. They are infinitely adjustable from fully closed up to the maximum orifice diameter. They are not pressure compensated and may be used as flow controls or as shutoff valves.

TECHNICAL DATA

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

Cavity	T-162A		
Series	0		
Capacity	20 L/min. (4 mm)		
Maximum Operating Pressure	350 bar		
Adjustment - No. of CCW Turns from Fully Closed to Fully Open	5		
Valve Hex Size	19,1 mm		
Valve Installation Torque	27 - 33 Nm		
Adjustment Screw Internal Hex Size	4 mm		
Locknut Hex Size	12,7 mm		
Locknut Torque	9 - 10 Nm		
Seal kit - Cartridge	Buna: 990162007		
Seal kit - Cartridge	EPDM: 990162014		
Seal kit - Cartridge	Polyurethane: 990162002		
Seal kit - Cartridge	Viton: 990162006		
Model Weight	0.08 kg.		

CONFIGURATION OPTIONS

Model Code Example: NFBCLCV

CONTROL	(L)	MAXIMUM ORIFICE DIAMETER	(C)	SEAL MATERIAL	(V)	MATERIAL/COATING
L Standard Screw Adjustment		C .16 in. (4 mm)		V Viton		Standard Material/Coating
K Handknob				N Buna-N		/AP Stainless Steel, Passivated
W Hex Wrench Adjustment				E EPDM		/LH Mild Steel, Zinc-Nickel

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.
- The flow path through this valve is bi-directional. The preferred path is port 1 to 2, to allow interchangeability with other flow controls.
- There is no leakage when the adjustment mechanism is turned to the shut-off position.
- 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

