

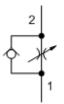


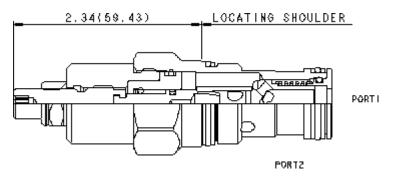
Fully adjustable needle valve with reverse flow check

CAPACITY: 12 gpm (.25 inch) / CAVITY: T-5A



sunhydraulics.com/model/NCEB





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-5A			
Series	2			
Capacity	12 gpm (.25 inch)			
Maximum Operating Pressure	5000 psi			
Adjustment - No. of CCW Turns from Fully Closed to Fully Open	5			
Maximum Valve Leakage at 110 SUS (24 cSt)	10 drops/min.			
Valve Hex Size	1 1/8 in.			
Valve Installation Torque	45 - 50 lbf ft 5/32 in. 9/16 in.			
Adjustment Screw Internal Hex Size				
Locknut Hex Size				
Locknut Torque	80 - 90 lbf in.			
Model Weight	0.60 lb.			
Seal kit - Cartridge	Buna: 990-203-007			
Seal kit - Cartridge	EPDM: 990-203-014			
Seal kit - Cartridge	Viton: 990-203-006			

NOTES: • For Series 1 cartridges configured with an O control (panel mount handknob), a .75 in. (19 mm) diameter hole is required in the panel.

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OPTION SELECTION EXAMPLE: NCEBLCN

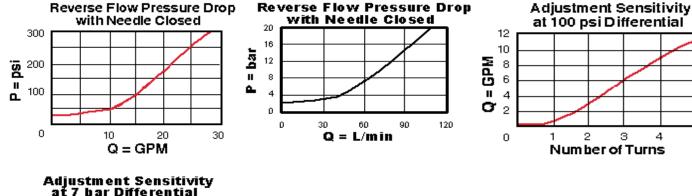
CONTROL		L)	REVERSE FLOW CHECK		(C)	SEAL MATERIAL		(N)	MATERIAL/COATING	
L	Standard Screw Adjustment		С	30 psi (2 bar)		N	Buna-N			Standard Material/Coating
Н	Calibrated Handknob with Detent		Α	4 psi (0,3 bar)		Е	EPDM		/AP	Stainless Steel, Passivated
	Lock		Е	75 psi (5 bar)		٧	Viton		/LH	Mild Steel, Zinc-Nickel
K	Handknob									
Υ	Tri-Grip Handknob									

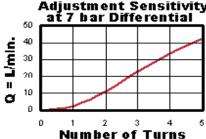
TECHNICAL FEATURES

- 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.

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PERFORMANCE CURVES





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