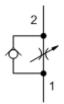
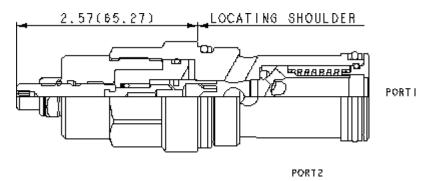
Fully adjustable needle valve with reverse flow check

CAPACITY: 30 gpm (.38 inch) / CAVITY: T-16A



sunhydraulics.com/model/NCFB





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	30 gpm (.38 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 1/4 in.			
Valve Installation Torque	150 - 160 lbf ft			
Adjustment Screw Internal Hex Size	5/32 in.			
Locknut Hex Size	9/16 in.			
Locknut Torque	80 - 90 lbf in.			
Model Weight	1.25 lb.			
Seal kit - Cartridge	Buna: 990-016-007			
Seal kit - Cartridge	EPDM: 990-016-014			
Seal kit - Cartridge	Polyurethane: 990-016-002			
Seal kit - Cartridge	Viton: 990-016-006			

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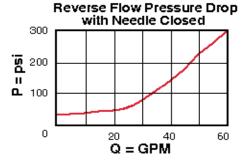
OPTION SELECTION EXAMPLE: NCFBLCN

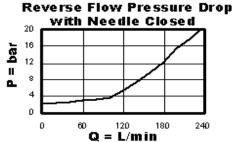
CONTROL		.)	REVERSE FLOW CHECK	(C)) SEAL MATERIAL (N)		MATERIAL/COATING		
L	Standard Screw Adjustment		C 30 psi (2 bar)		N	Buna-N			Standard Material/Coating
Н	Calibrated Handknob with Detent		A 4 psi (0,3 bar)		Е	EPDM		/AP	Stainless Steel, Passivated
	Lock		B 15 psi (1 bar)		٧	Viton		/LH	Mild Steel, Zinc-Nickel
Κ	Handknob		D 50 psi (3,5 bar)						
Υ	Tri-Grip Handknob		, , ,						

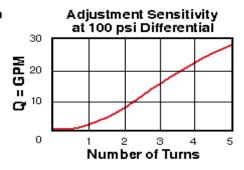
TECHNICAL FEATURES

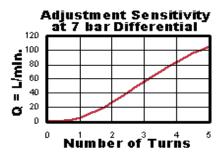
- All 2-port flow control cartridges are physically and functionally interchangeable (i.e. same flow path, same cavity for a given frame size). However, cartridge extension dimensions from the mounting surface may vary.
- Because needle valves are non-compensating devices, the fixed orifice size will 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.

PERFORMANCE CURVES









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