

## CONFIGURATION

к	Control	Handknob	Needle valves are fully adjustable orifices used to regulate flow. They are the maximum orifice diameter. They are not pressure compensated and m					
Α	Maximum Orifice Diameter	.25 in. (6,4 mm)	valves.					
Ν	Seal Material	Buna-N	TECHNICAL DATA NOTE: DATA MAY VARY BY CONFIGURATION. SEE CONFIGURATION SECTION.					
(none) Material/Coating		Standard Material/Coating	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				
			Valve Hex Size	1 1/8 in.				
			Valve Installation Torque	45 - 50 lbf ft				
			Adjustment Screw Internal Hex Size	5/32 in.				
			Locknut Hex Size	9/16 in.				
			Locknut Torque	80 - 90 lbf in.				
			Seal kit - Cartridge	Buna: 990203007				
			Seal kit - Cartridge	EPDM: 990203014				

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.

Seal kit - Cartridge

Model Weight

### **CONFIGURATION OPTIONS**

### Model Code Example: NFDCKAN

CONTROL	(K) MAXIMUM ORIFICE DIAMETER	(A)	SEAL MATERIAL	(N)	MATERIAL/COATING
K Handknob	<b>A</b> .25 in. (6,4 mm)		N Buna-N		Standard Material/Coating
L Standard Screw Adjustment	<b>B</b> .12 in. (3,0 mm)		E EPDM		/AP Stainless Steel, Passivated
H Calibrated Handknob with Detent Lo	ck		V Viton		/LH Mild Steel, Zinc-Nickel

Y Tri-Grip Handknob

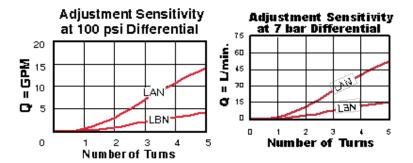
### **TECHNICAL FEATURES**

- 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.
- 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.

Viton: 990203006

0.69 lb.

# **PERFORMANCE CURVES**



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