



PATENT NO. 4,276,902

NLF

DESIGN FEATURES

The R-K NLF series no lube pressure regulator is ideal for protecting high purity applications from pressure changes where lubricants are not permitted.

The adjustable screw and lock nut makes it easy to convert varying upstream pressure into accurate pre-set downstream pressure.

Outlet pressure should be adjusted in a closed loop system within a range of 15-100 PSI.

Top entry and parallel inlet and outlet ports to facilitate installation and avoid piping problems.

This patented pressure reducing valve is designed to keep the stainless steel spring totally isolated from the fluid chamber insuring no metal contact with the fluid.

It is ideally suited for most harsh chemicals, DI water, and other high purity applications.

NO LUBE PRESSURE REGULATOR

SPECIFICATIONS

Upstream Pressure	Vacuum to 150 PSIG				KALREZ
Regulated Pressure	15 to 100 PSIG (1/4" to 1-1/2") 15 to 80 PSIG (2" to 3") Consult factory for higher regulated pressure requirements. 5-50 PSI pressure range also available.		Temperature Range		0 F to 140 F for PVC 0 F to 180 F for POLYPRO 0 F to 280 F for PVDF 0 F to 340 F for TEFLON
Material	Valve Body	PVC Type 1, Grade 1 Polypropylene PVDF Teflon	Valve ports		1/4" to 1" Valve FNPT 1.5" to 3" Valve MPT All valves are fully ported
	Seal	EPDM VITON	Mounting method		(4) 1/4" -20 tapped holes for standard machined valve body. (1/4" to 1.00") (2) cut-out slots on molded valve body (1/2" to 1.00")

ORDER INFORMATION

The chart below will specify R - K standard valves regarding valve size, valve material, and seal material. For special orders, please consult the factory for pricing and delivery information.

NLF - X X X - X X		
VALVE SIZE	MATERIAL	SEALS
25 = 1/4"	1 = PVC	E = EPDM
50 = 1/2"	2 = POLYPRO	V = VITON
75 = 3/4"	3 = PVDF	K = KALREZ
100 = 1.0"	4 = TEFLON	O = OTHER (Please specify)
150 = 1.5"	5 = OTHER (Please specify)	
200 = 2.0"		
300 = 3.0"		
		X = MOLDED BODY (1/2"-3/4"-1" ONLY)

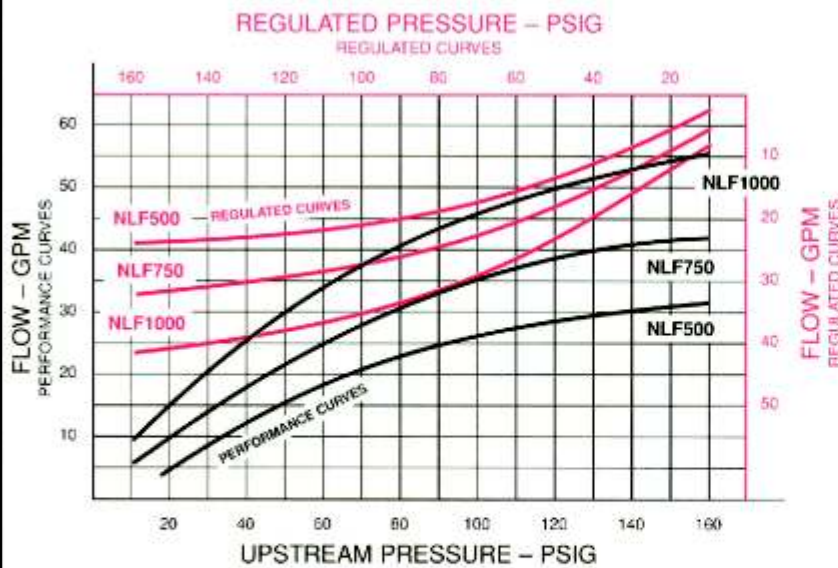
R-K INDUSTRIES



1120 E. LOCUST STREET
ONTARIO, CA 91761

(909) 947-6227 • FAX: (909) 947-9039 • <http://www.rkvalve.com>

ENGINEERING & PERFORMANCE DATA



NOTES

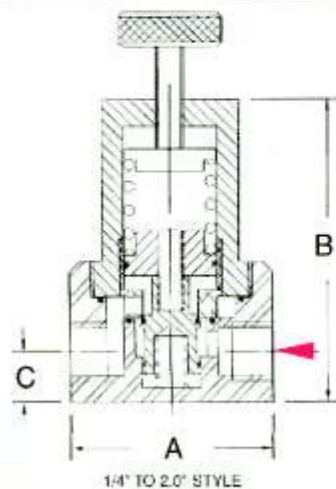
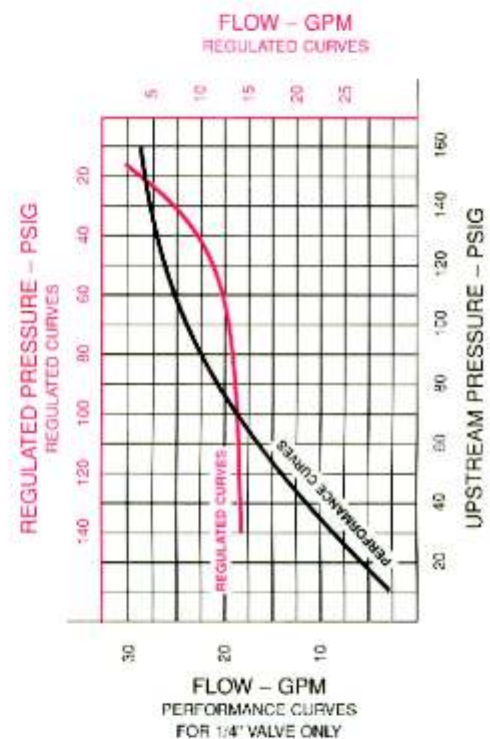
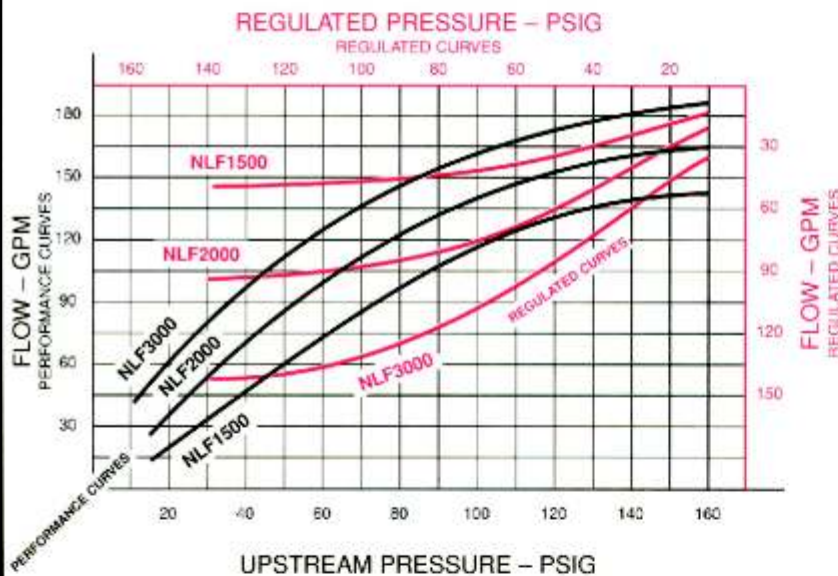
DURING THE ASSEMBLY PROCESS, A SMALL AMOUNT OF DUPONT KRYTOX IS APPLIED TO ASSIST IN THE BREAK-IN OF MOVING PARTS, THEN CAREFULLY WIPED OFF PRIOR TO FINAL ASSEMBLY AND TESTING.

TEST DATA WAS PERFORMED WITH 68 DEGREE F WATER, AND 160 PSIG MAXIMUM PRESSURE.

THESE PERFORMANCE CURVES WILL BE CHANGED WITH HIGHER VISCOSITY LIQUID AND/OR HIGHER TEMPERATURE.

CONSULT YOUR LOCAL SALES REP OR MANUFACTURER DIRECTLY FOR CUSTOM PRODUCTS OR SPECIAL APPLICATIONS.

The performance curves show the flow rate of NLF valves when piston seal is fully open.
The regulated curves show the flow rate of NLF valves at the points of pre-set downstream pressure.

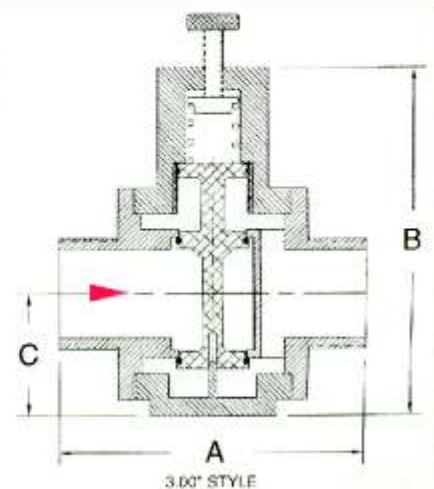


DIMENSIONAL DATA

DIMENSIONS IN INCHES () MOLDED BODY DIM

Valve size	Ports	A	B	C	Cv
1/4"	FNPT	2.00	3.12	.5	.58
1/2"	FNPT	3 (2.9)	4.2 (4.1)	.7 (.7)	2.35
3/4"	FNPT	3.5 (3.3)	4.9 (4.9)	.9 (.8)	2.72
1.0"	FNPT	4 (3.9)	5.4 (5.6)	1.1 (.9)	3.48
1.5"	MPT	5.0	8.0	1.5	15.8*
2.0"	MPT	6.0	9.0	1.7	21.1*
3.0"	MPT	9.7	10.9	3.8	31.7*

(*) Cv value @ 150 GPM



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