

NLR

DESIGN FEATURES

The R-K NLR series no lube pressure relief valve is a 2-port valve, ideal for high purity applications where lubricants are not permitted, to relieve excess pressure that may occur in the line or system. Adjust the threaded stem to obtain selected line or tank relief pressure. An outlet (tee) may be required on the inlet side of the valve. The valve starts to open as line pressure approaches set pressure until fully open. The valve can be set to relieve excess pressure between 10-80 P.S.I. The 1/4" valve is also available with a relief range of 60-125 P.S.I. It's designed so there is no metal contact with the fluid and top entry makes in-line maintenance easy. Suitable for harsh chemicals. Ideal for DI water and other high purity applications. Controlled pressure settings up to 100 P.S.I. available upon request.

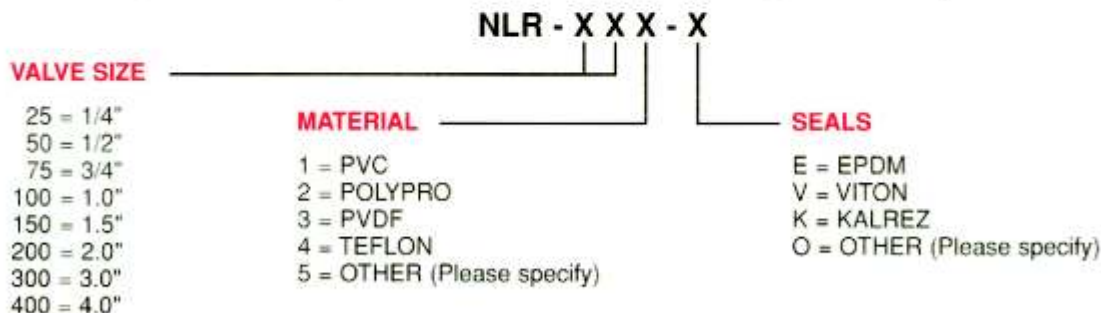
NO LUBE PRESSURE RELIEF VALVE

SPECIFICATIONS

Pressure Rating	Vacuum to 150 PSIG	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
Relief Pressure Range	10 to 80 PSIG Consult factory for higher relief requirements	Valve ports	1/4" to 1" Valve FNPT 1.5" to 4" Valve MPT All valves are fully ported
Pressure Differential	Plus or minus 5 PSIG from any pre-set pressure relief point	Mounting method	(4) 1/4" -20 tapped holes for standard machined valve body. (1/4" to 1.00")
Material	Valve Body PVC Type 1, Grade 1 Polypropylene PVDF Teflon		
Seal	EPDM VITON KALREZ		

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.



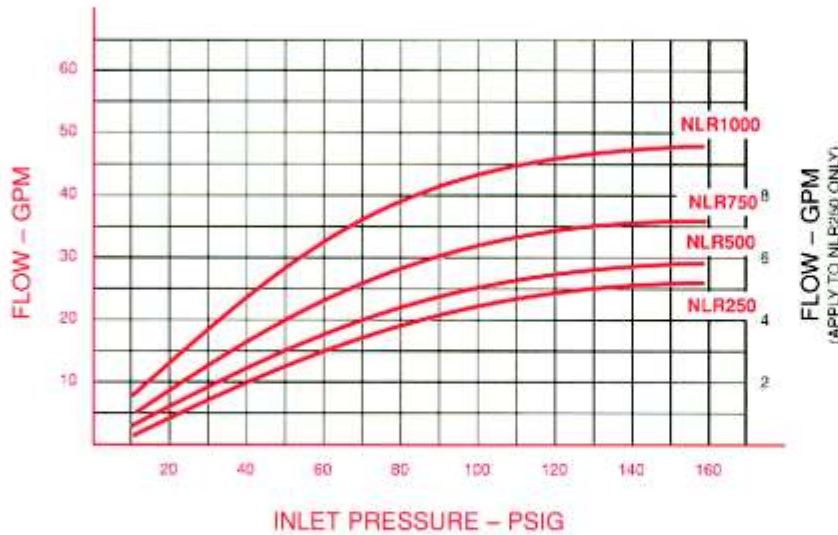
R-K INDUSTRIES



120 E. LOCUST STREET
ONTARIO, CA 91761

(909) 947-5227 • FAX: (909) 947-3039 • <http://www.rkvalve.com>

ENGINEERING & PERFORMANCE DATA



NOTES

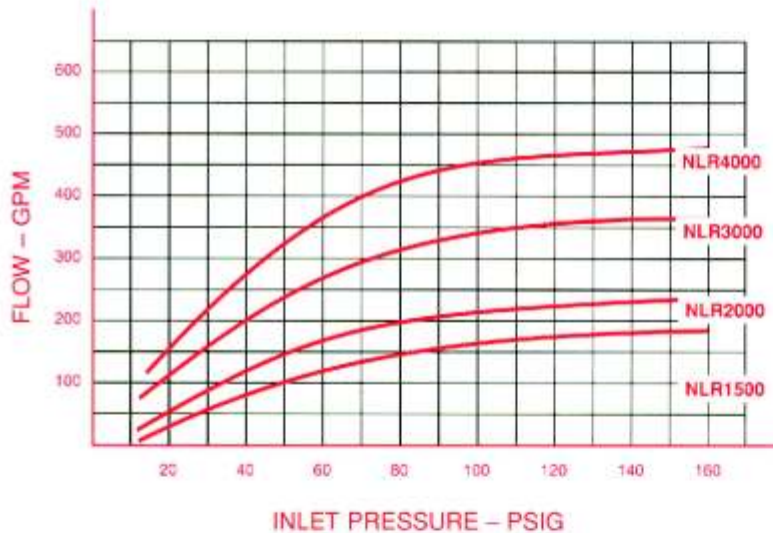
THE PERFORMANCE CURVES SHOW THE FLOW RATE OF NLR VALVES WITH THE VALVE FULLY OPEN AND 100% FLOW THRU THE VALVE. THESE CURVES WILL CHANGE DEPENDING ON THE FLOW THROUGH THE SYSTEM AT EACH DIFFERENT SET POINT.

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.

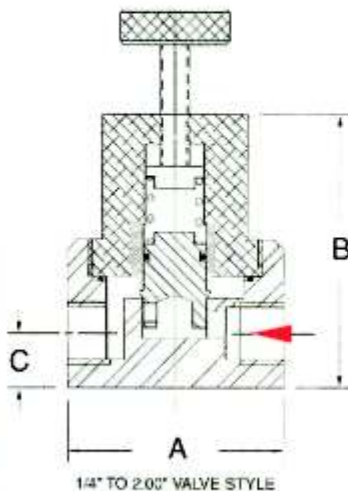
THESE PERFORMANCE CURVES WILL BE CHANGED WITH HIGHER VISCOSITY LIQUID AND/OR HIGHER TEMPERATURE.

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



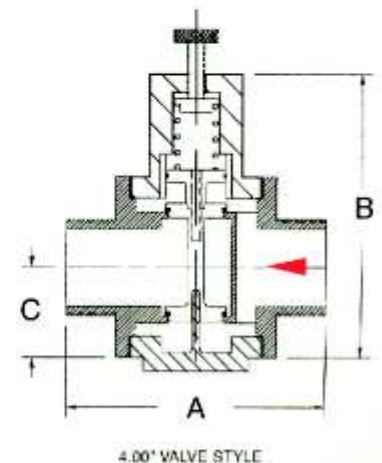
DIMENSIONAL DATA

DIMENSIONS IN INCHES



Valve size	Ports	A	B	C	Cv
1/4"	FNPT	2.00	1.80	.5	.58
1/2"	FNPT	3	2.5	.7	2.87
3/4"	FNPT	3.5	3	.9	3.31
1.0"	FNPT	4	3.5	1.1	4.32
1.5"	MPT	5.0	4.7	1.5	16.4*
2.0"	MPT	6.0	5.5	1.7	21.6*
3.0"	MPT	11.0	10.0	3.75	30.7*
4.0"	MPT	13.0	12.50	4.00	35.8*

(* Cv value @ 150 GPM)



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