

DESCRIPTION

The R-K LPR series low pressure fluid pressure regulator is designed to protect piping systems from pressure changes. This pressure reducing valve provides excellent flow at low range settings. 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 5-50 P.S.L

This patented valve is designed so there is no metal contact with the fluid. This compact valve features top entry for easy in-line maintenance. It's ideally suited for systems that require added pressure protection.

R-K LPR SERIES LOW PRESSURE FLUID PRESSURE REGULATOR



KEY FEATURES

- **Adjustable Pressure:** The adjustable screw and lock nut allow for easy conversion of varying upstream pressure into a pre-set downstream pressure. The outlet pressure can be adjusted in a closed-loop system to a range of 15-100 PSI.
- **Design:** It has top entry and parallel inlet and outlet ports to facilitate installation and prevent piping problems.
- **Applications:** It is suitable for most harsh chemicals, deionized (DI) water, and other high-purity applications

VALVE BODY MATERIALS:

- Type 1 – Grade 1 PVC
- Natural Polypropylene (PP)
- PVDF (Polyvinylidene Fluoride)
- Teflon

SEAL

- EPDM,
- VITON,
- KALREZ.

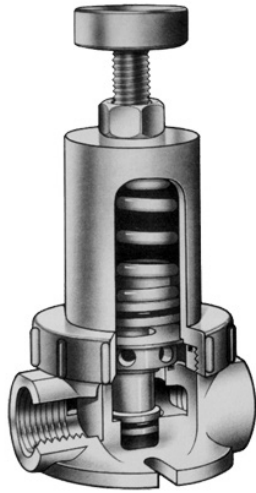
SIZES & PORTING

Valve Sizes: ¼", ½", ¾", 1.0", 1.5", 2.0", 3.0"

Port Types:

¼" to 1" FNPT,
1.5" to 3" MPT
(all fully ported).

Mounting: (4) ¼"-20 tapped holes for the standard machined valve body (¼" to 1.00") and two cut-out slots on the molded valve body (½" to 1.00")



PATENT NO: 4,276,902

PRESSURE & TEMPERATURE RATINGS:

Upstream Pressure: Vacuum to 150PSIG

Regulated Pressure:

■ 5 to 50 PSIG.

Temperature Range

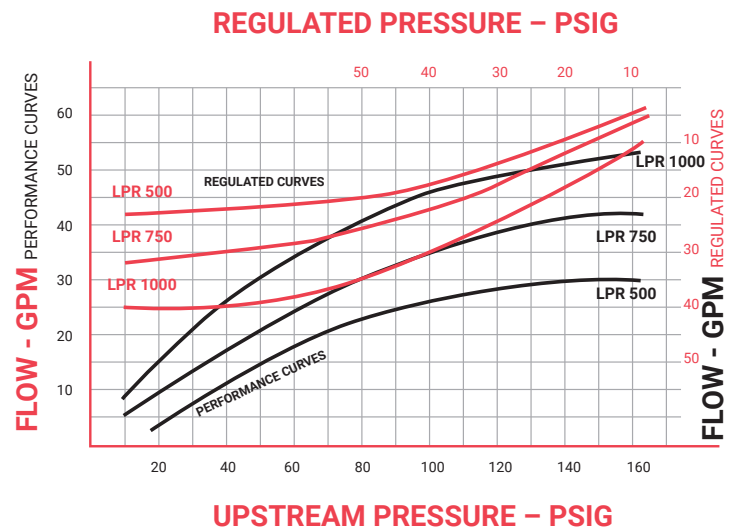
■ PVC: 0°F to 140°F.

■ Polypropylene: 0°F to 180°F.

■ PVDF: 0°F to 280°F.

■ Teflon: 0°F to 340°F.

ENGINEERING & PERFORMANCE DATA



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.

LPR - X X X - XX

VALVE SIZE

25 = 1/4"
50 = 1/2"
75 = 3/4"
100 = 1.0"
150 = 1.5"
200 = 2.0"
300 = 3.0"

MATERIAL

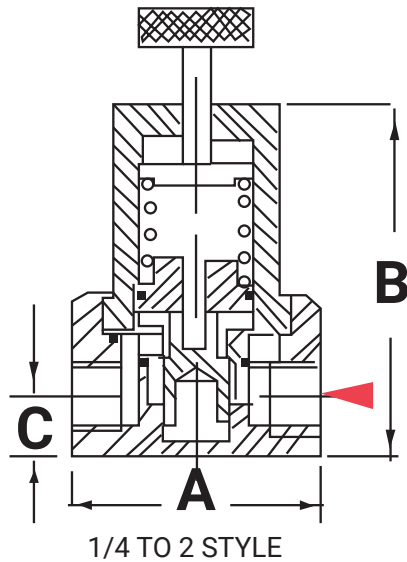
1 = PVC
2 = POLYPRO
3 = PVDF
4 = TEFLON
5 = OTHER (Please specify)

SEALS

E = EPDM
V = VITON
K = KALREZ
O = OTHER (Please specify)

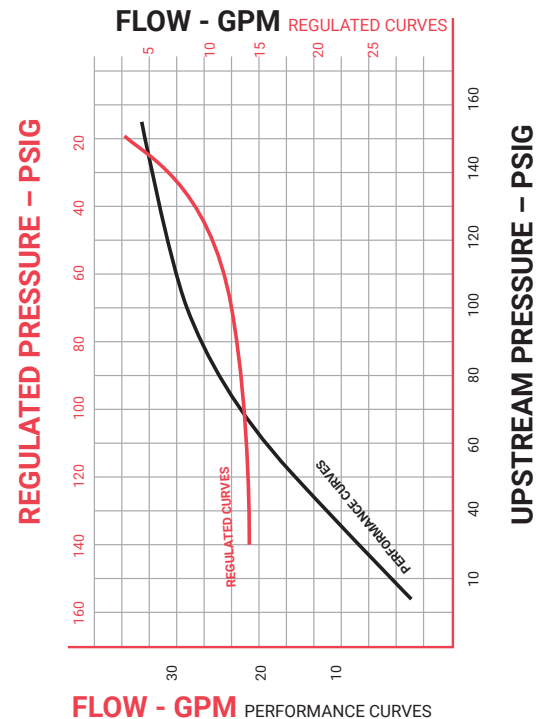
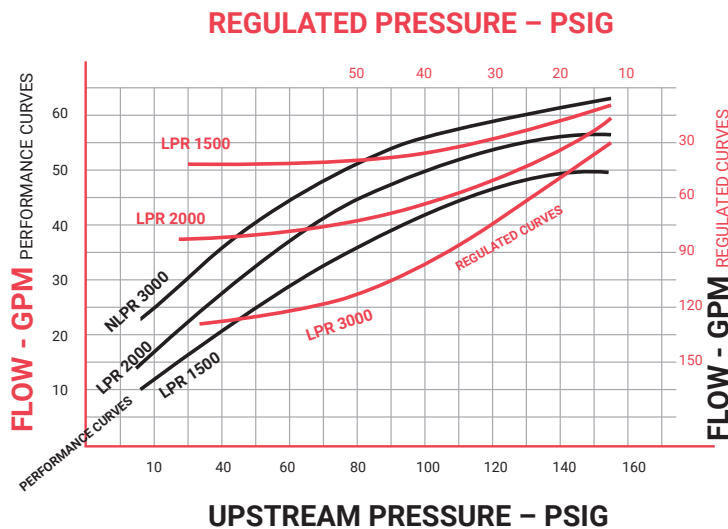
X = MOLDED BODY
1/2", 3/4", 1" only

ENGINEERING & PERFORMANCE DATA



NOTES

- Test data for the product was performed using 68°F water and a maximum pressure of 160 PSIG.
- The performance curves will change if a higher-viscosity liquid or a higher temperature is used.
- For custom products or special applications, you should consult a local sales representative or contact the manufacturer directly.



DIMENSIONAL DATA

DIMENSIONS IN INCHES

() MOLDED BODY DIM

Valve size	Ports	A	B	C	Cv
1/4"	FNPT	2	3.12	0.5	0.58
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	8	1.5	15.8*
2.0"	MPT	6	9	1.7	21.1*
3.0"	MPT	9.7	10.9	3.8	31.7*

(*) Cv value @ 150 GPM

FLOW - GPM PERFORMANCE CURVES

For 1/4 Valve only