DESCRIPTION

The R-K FPR series fluid pressure regulator valve is designed to protect piping systems from pressure changes. 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 to 100 PSI This patented pressure reducing 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 additional pressure protection.

R-K FPR SERIES
FLUID PRESSURE REGULATOR

KEY FEATURES

- Pressure protection: Designed to protect piping systems and equipment from pressure changes.
- Adjustable downstream pressure: Features an adjustable screw and lock nut for easy conversion of varying upstream pressure into accurate pre-set downstream pressure.
- Recommended adjustment range: Outlet pressure should be adjusted in a closed-loop system within a range of 15-100 PSI.
- Easy installation: Top entry and parallel inlet and outlet ports facilitate installation and avoid piping problems.
- Patented design: The patented pressure reducing valve keeps the stainless steel spring completely isolated from the fluid chamber, ensuring no metal contact with the fluid.
- Ideal for pressure protection: Suited for systems that require additional pressure protection.

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" Valve FNPT
1.5" to 3" Valve MPT
All valves are fully ported
Mounting:
For ¼" to 1.00" valve sizes: (4) ¼"-20 tapped holes for standard machined valve body.
For ½" to 1.00" valve sizes: (2) cut-out slots on molded valve body.

PATENT NO: 4,276,902

PRESSURE & TEMPERATURE RATINGS:

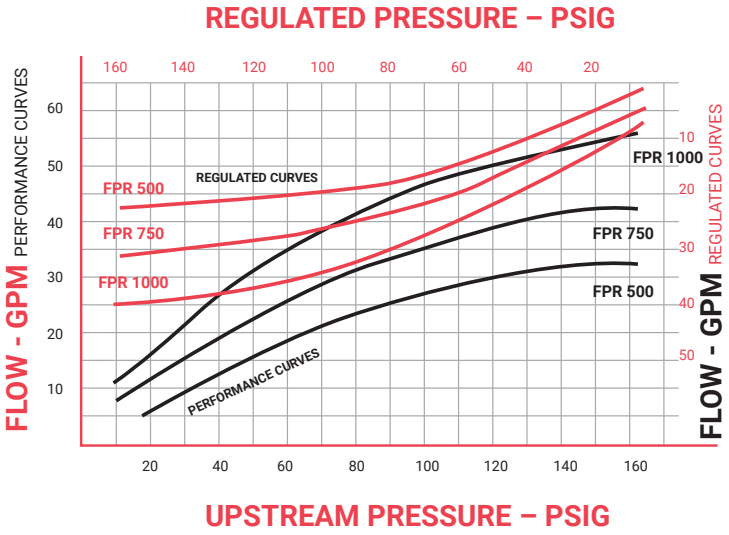
Regulated Pressure:

¼" to 1-½" valves: 15 to 100 PSIG
2" to 3" valves: 15 to 80 PSIG

Temperature Range

- PVC: 0°F to 140°F
- POLYPRO: 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.

FPR - X X X - XX

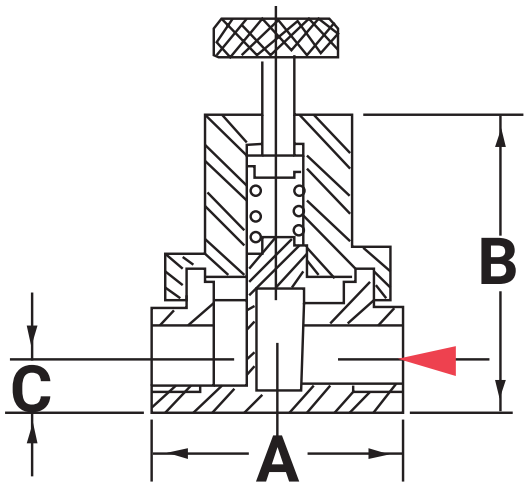
VALVE SIZE
25 = ¼"
50 = ½"
75 = ¾"
100 = 1.0"
150 = 1.5"
200 = 2.0"

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
½" , 3/4: , 1" only

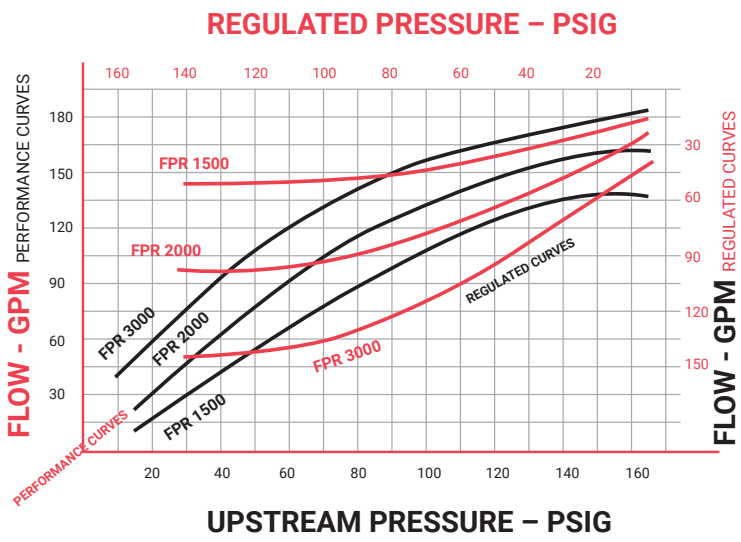
ENGINEERING & PERFORMANCE DATA

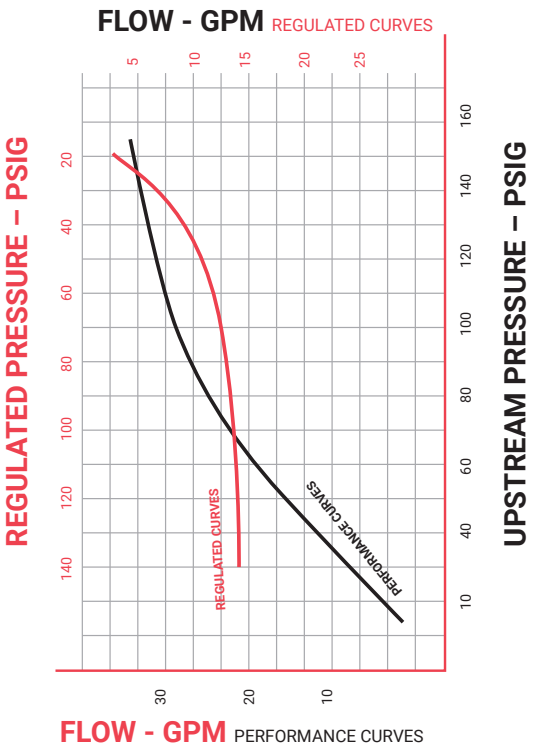


1/4“ TO 2” style

NOTES

- Test data was performed with 68°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





For 1/4” Valve only

DIMENSIONAL DATA

DIMENSIONS IN INCHES

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