DESCRIPTION

The R-K NPR series pilot operated (remote) pressure regulator is ideal for hard-to-reach places and for situations where instant fluid pressure changes are needed (such as rinsing applications). When the valve is installed, the pressure can be adjusted from 5-100 PSI with an air pressure regulator to protect the system from pressure changes. It will provide an accurate outlet flow if a series of pressure regulators are required for the system or operation. It can also be used as a normally closed air valve in systems where available air pressure is less than 20 PSI

This patented valve features no metal contact with the fluid and is designed for fail-safe operation, i.e., air-to-open, spring-to-close. Molded bodies are standard for 1z2", 3/ 4" and 1" valves. Other features include top entry for easy in-line maintenance and minimum water hammer.

R-K NPR SERIES

PILOT OPERATED "REMOTE" PRESSURE REGULATOR

KEY FEATURES

- Pilot operated (remote) pressure regulation
- Ideal for hard-to-reach places and high-pressure situations
- Instant fluid pressure change capability
- Air-to-open, spring-to-close operation
- Top entry for easy in-line maintenance with minimal water hammer

VALVE BODY MATERIALS:

- PVC Type 1, Grade 1
- Polypropylene
- PVDF
- Teflon

Seal Options

- EPDM,
- VITON,
- KALREZ

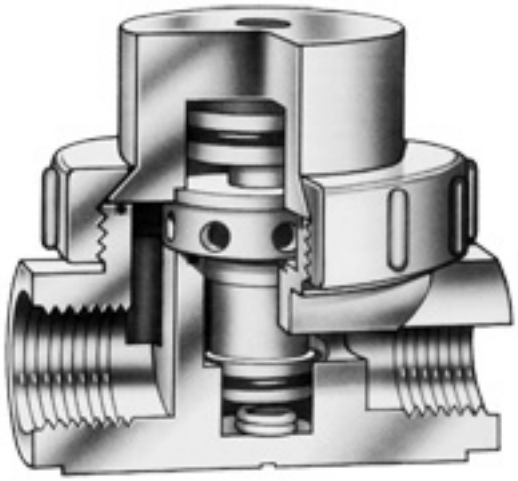
SIZES & PORTING

Valve Sizes: ¼", ½", ¾", 1", 1½", 2"

Port Types:

¼" to 2" valve FNPT
1.5" to 2" valve MPT
All valves are fully ported

Mounting: (4) ¼"-20 tapped holes for standard machined valve body (¼" to 1.0") (2) cut-out slots on molded valve body (1/2" to 1")



PATENT NO: 4,276,902

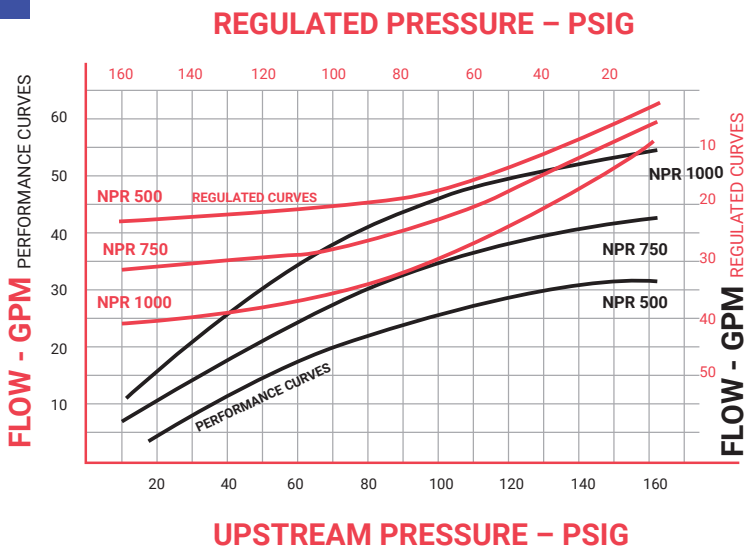
PRESSURE & TEMPERATURE RATINGS:

Upstream Pressure:
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

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.

NPR - X X X - XX

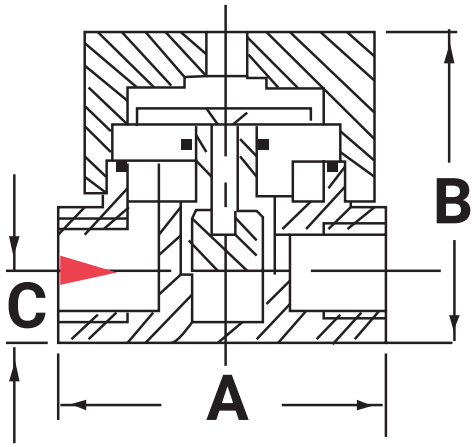
VALVE SIZE
25 = ¼"
50 = ½"
75 = ¾"
100 = 1.0"
150 = 1.5"
200 = 2.0"

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

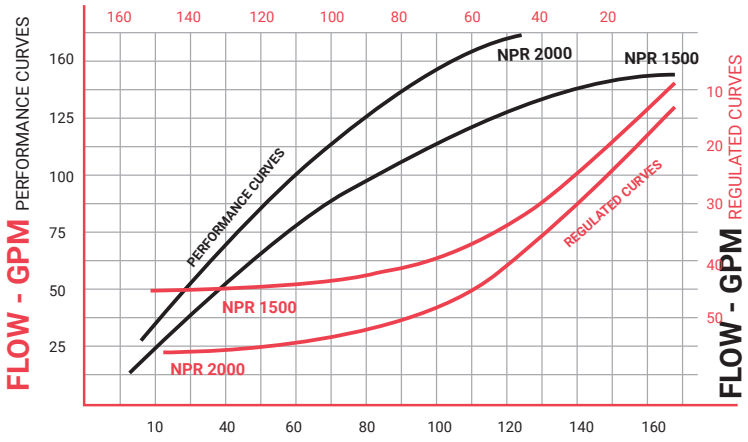


1/2" TO 1" VALVE STYLE

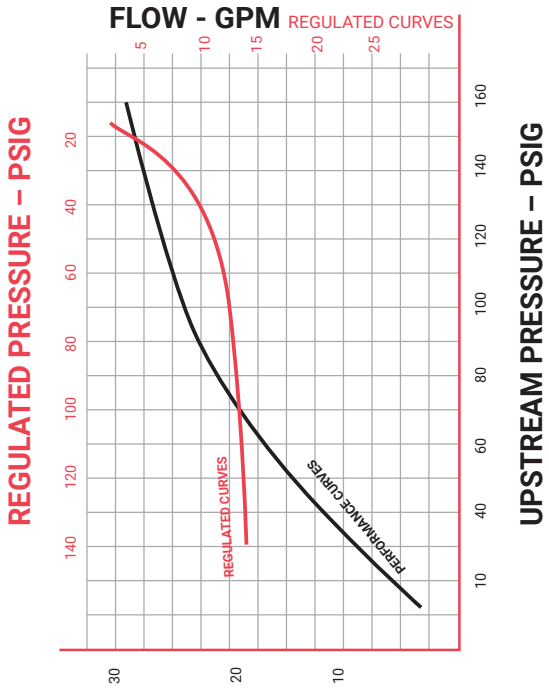
NOTES

- 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.

REGULATED PRESSURE – PSIG



UPSTREAM PRESSURE – PSIG



FLOW - GPM PERFORMANCE CURVES

For 1/4 Valve only

DIMENSIONAL DATA

DIMENSIONS IN INCHES ( ) MOLDED BODY DIM

Valve Size	Ports	A	B	C	Cv
1/4"	FNPT	2	1.9	0.5	0.58
1/2"	FNPT	(2.9)	(2.6)	(0.7)	2.85
3/4"	FNPT	(3.3)	(3.3)	(0.8)	3.12
1.0"	FNPT	(3.9)	(4)	(0.9)	4.28
1.5"	MPT	5.5	5.4	1.5	15.5*
2.0"	MPT	6	6	1.7	21.1*

(*) Cv value @ 150 GPM