



# BPR

## DESIGN FEATURES

The R-K BPR series back pressure regulator is designed to protect piping and equipment from pressure changes where a constant regulated pressure on the up stream side of the valve is required. Prevents pumps from dead heading, over pressurization, pressure surge conditions, and maintains back pressure in closed loop systems.

Adjustable screw and lock-nut makes it easy to accurately pre-set desired up-stream pressure.

Teflon (primary) and EPDM (back-up) diaphragms standard. No metal contact with fluid.

Wide adjustable pressure range (10-125 PSI)

Small pressure differential band from cracking point to fully open, and from fully open to close.

Top entry makes in-line maintenance quick and easy.

Ideally for DI water, harsh chemical, and other high purity applications.

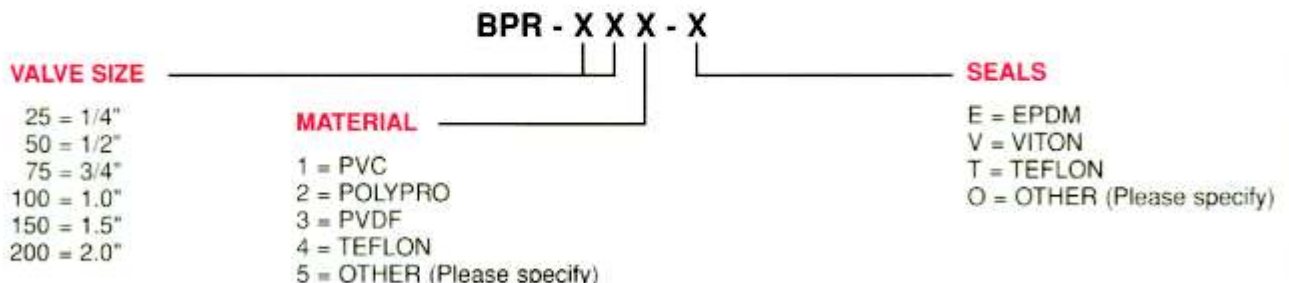
## BACK PRESSURE REGULATOR

### SPECIFICATIONS

Upstream Pressure	Vacuum to 150 PSIG		Pressure differential	Plus or Minus 3 PSIG from any pre-set pressure relief point.
Regulated Pressure	1/4" to 3/4" 10-125 PSIG 1" 10-100 PSIG 1-1/2" & 2" 10-60 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
Material	Valve Body	PVC Type 1, Grade 1 Polypropylene PVDF Teflon	Valve ports	1/4" to 1" Valve FNPT 1.5" to 2" Valve MPT All valves are fully ported
	Piston	Teflon	Mounting method	(4) 1/4" -20 tapped holes for standard machined valve body. (1/4" to 1.00")
	Diaphragm	Primary TEFLON Back-up EPDM		
	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**



1120 E. LOCUST STREET  
ONTARIO, CA 91761

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

# ENGINEERING & PERFORMANCE DATA

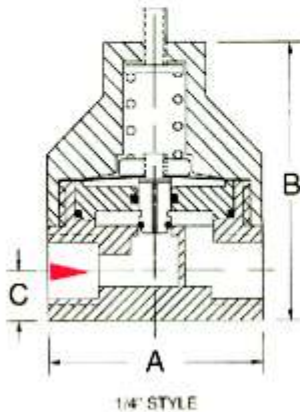
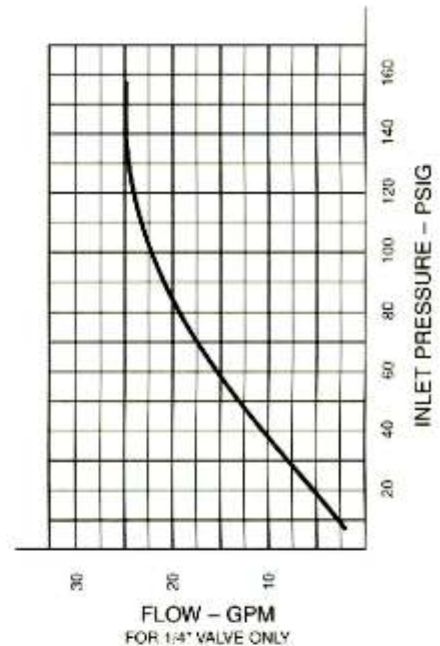
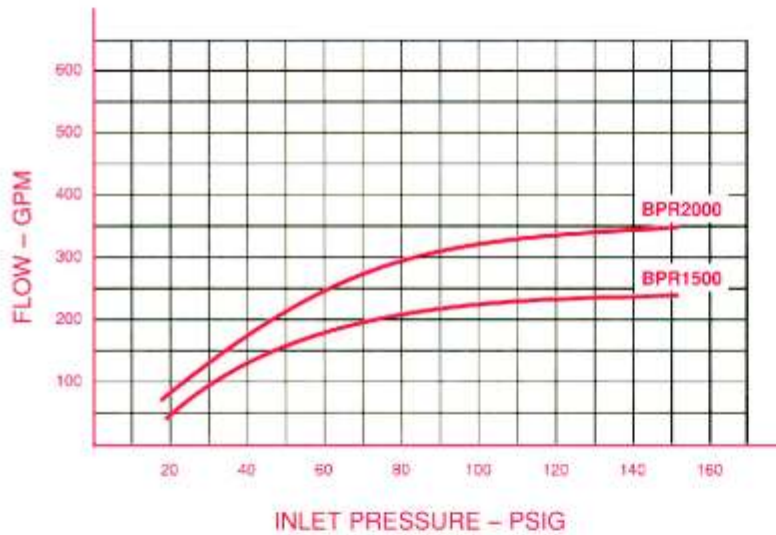
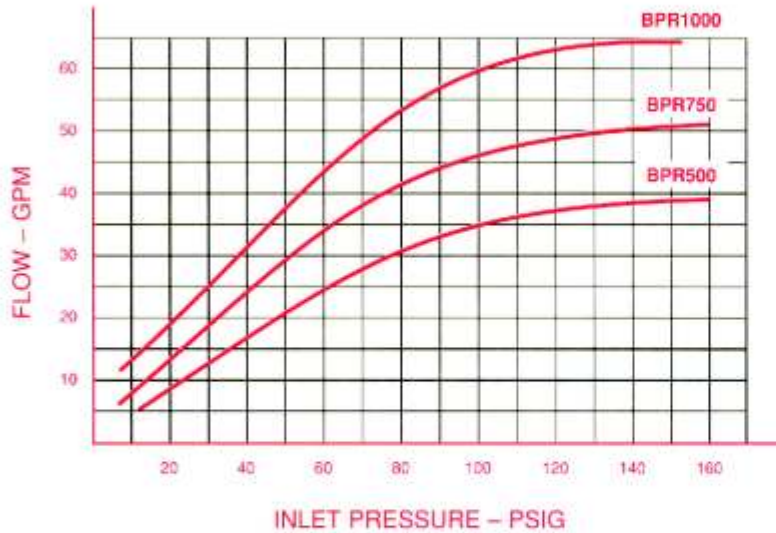
## NOTES

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

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.

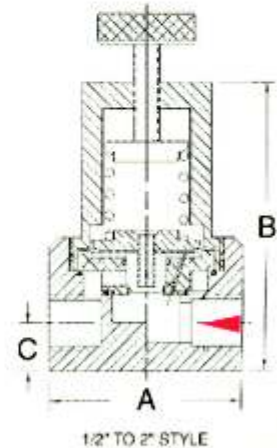


## DIMENSIONAL DATA

DIMENSIONS IN INCHES

Valve size	Ports	A	B	C	Cv
1/4"	FNPT	1.60	2.10	.39	.72
1/2"	FNPT	3.00	4.50	.93	3.67
3/4"	FNPT	3.50	4.80	.93	4.28
1.0"	FNPT	4.00	5.09	.93	5.42
1.5"	MPT	5.00	5.70	1.50	17.2*
2.0"	MPT	6.00	6.50	1.70	22.4*

(\* ) Cv value @ 150 GPM



R-K INDUSTRIES



1120 E. LOCUST STREET  
ONTARIO, CA 91761

(809) 947-8227 • FAX: (809) 947-3039 • <http://www.rkvalve.com>