SPF

DESIGN FEATURES

The R-K SPF (Super Low Diaphragm Pressure Regulator) features a compact molded and/ or machined thermoplastic valve especially designed to be used in critical low pressure and/or high purity fluid regulating applications.

Adjustable screw (Type 1) makes it easy to convert varying upstream pressure into accurate pre-set downstream pressure.

Type 2 (1:1 ratio) uses air pressure to control the regulating process. Downstream pressure will be equal to applied air pressure.

No metal or elastomer contact with the fluid.

One piece of TEFLON diaphragm and piston combination.

Self-draining to prevent contamination and bacteria growth.

Direct acting full flow and top entry for easy maintenance and minimum water hammer.

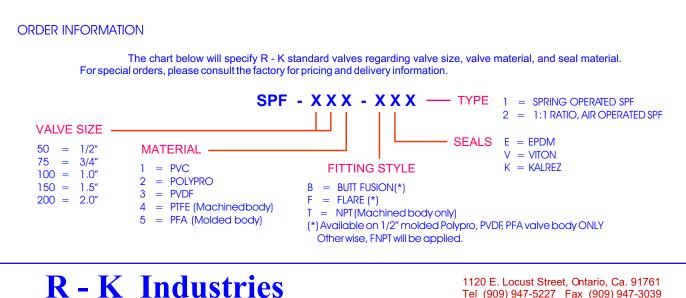
Available in Flare, Butt fusion, or NPT ends.

Ideal for most harsh chemicals, DI water, Bio-Medical, Pharmaceutical and other ultra-pure applications.

Type 1: spring operated pressure regulator.

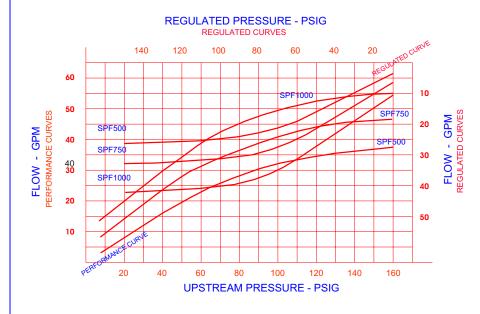
SUPER LOW DIAPHRAGM PRESSURE REGULATOR

SPECIFICATIO	ONS				
Inlet Pressure		0 to 150 PSIG	Diaphragm	Virgin Teflon	
Air actuating Pressure		1 to 20 PSIG (Type 2 only)	O-Ring	Viton (Standard)	
Regulating Pressure		1 to 20 PSIG (Regulated pressure must be specified when placing order)	Valve ports	Flare ends (Polypro, PVDF & PFA)* Butt fusion (Polypro, PVDF & PFA)* *Apply to 1/2" Molded valve ONLY FNPT (1/2" - 1.0" machined body) MNPT (1.5" - 2.0" machined body)	
Temperature Range		0F to 140 F for PVC 0F to 180 F for POLYPRO 0F to 280 F for PVDF 0F to 340 F for TEFLON	Mounting method	 (2) 3/16" Self tapping screws *1/2" Molded valve ONLY (4) 1/4"-20 tapped holes for standard machined valve body 	
Material	Valve Body	PVC Polypropylene PVDF TEFLON (PTFE and PFA)	Valve types	Type 1: Spring operated SPF Type 2: 1:1 ratio Air operated SPF	



Tel (909) 947-5227 Fax (909) 947-3039 Version 01-01

ENGINEERING & PERFORMANCE DATA



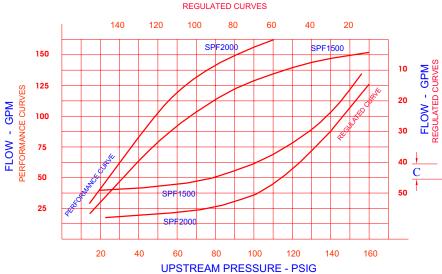
NOTES

PERFORMANCE CURVES SHOW THE FLOW RATE OF SPF VALVES WITH POPPET SEAL FULLY OPEN. REGULATED CURVES SHOW THE FLOW RATE OF SPF VALVES AT THE POINTS OF PRE-SET DOWNSTREAM PRESSURE

TEST DATA WAS PERFORMED WITH 68 DEGREE F WATER, AND 150 MAXIMUM PRESSURE.

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

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



REGULATED PRESSURE - PSIG

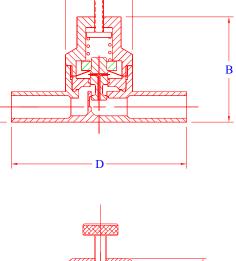
DIMENSIONAL DATA

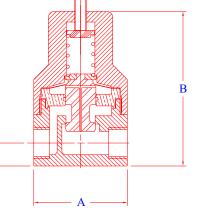
Dim Unit = Inches

Valve size	Ports type	А	В	С	Cv	D
1/2"Molded	Flare/Fuse	1.90	3.50	.43	2.64	4.90/4.27
1/2″	FNPT	2.50	3.85	.65	2.64	
3/4"	FNPT	3.00	4.65	.75	2.92	
1.0"	FNPT	3.50	6.30	.98	3.87	
1.5"	MPT	4.00	7.18	1.25	16.93*	
2.0"	MPT	5.00	7.75	1.62	22.41*	

(*) Cv value @ 150 GPM

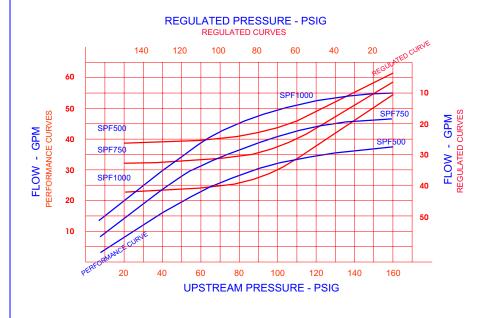
R-K Industries





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ENGINEERING & PERFORMANCE DATA



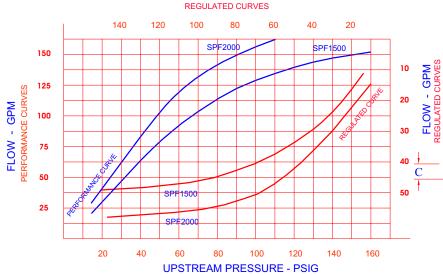
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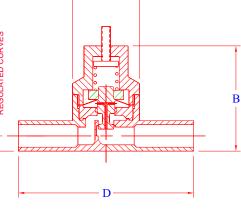
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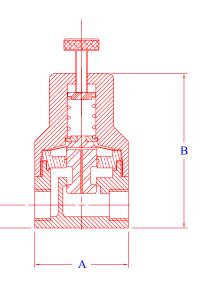
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