# Pneu-Trol<sup>®</sup>

#### **IN-LINE**





# **FLOW RATING**

Size		ommended pm (lpm)	Co-Efficient (Cv Factor)
1/8"	1.5 3.0	(5.7)	.23
1/4"		(11.4)	.54
3/8"	5.0 8.0 12.0	(18.9)	.83
SAE 6			
1/2"		(30.3)	1.47
3/4"		(45.4)	1.90

# DESCRIPTION

# A Variable Flow Restrictor with Positive Shut-Off and Free Reverse Flow

A wide range of flow adjustment in the controlled flow direction is possible because of the fine thread and tapered needle. A spring biased ball check or optional poppet check allows full flow in the opposite direction. Unwanted changes in adjustment are prevented by a lock nut.

- A wide range of flow adjustability
- Lock Nut to maintain flow setting
- Positive shut-off
- Leak-Tight Ball Check standard
- Bubble-Tight Poppet with O-Ring optional

# SPECIFICATIONS

- Maximum Operating Pressure (Non-Shock Service)
- Brass: 2,000 psi (138 bar) Carbon Steel: 5,000 psi (345 bar) Stainless Steel: 5,000 psi (345 bar)
- Maximum Operating Pressure (Flow Control Poppet) 60 psi (4 bar)

#### **Cracking Pressure**

1 to 2.5 psi (.07 to .17 bar)

Soft seat check valves if left seated for a period of time, will have the rubber adhere to the metal it is in contact with. This results in an initial high crack point due to sticking. The degree depends on many things (time seated, pressure, etc.).

#### **Operating Temperature Range**

-15° to +400° F (-26° to +204° C)

#### Threads

NPTF, BSPT, SAE

#### Materials

Body, Housing, Plug: Brass, Steel, Stainless Steel 303 Needle: Brass (Brass Valves) Stainless Steel 416 (Steel and Stainless Steel Valves) O-Ring: Viton Back-Up Washer: Teflon Ball: Stainless Steel 440 Spring: Stainless Steel 302 Lock Nut: Brass, Steel, Stainless Steel 303 Tamperproof Key: Steel Knob: Aluminum

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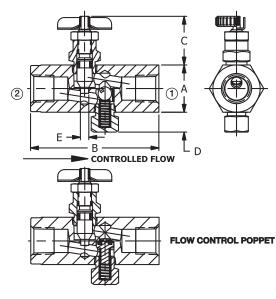
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(continued) F, FP Flow Control Female-to-Female

# **IN-LINE**

#### INSTALLATION DIMENSIONS



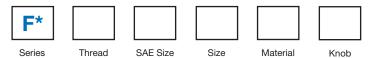
Pipe Size	A HEX	В	C Open	D	E Orifice
1/8"	11/16	1-3/4	7/8	13/64	.107
	(17.5)	(44.5)	(22.2)	(5.2)	(2.7)
1/4"	7/8	2-3/8	1-1/16	23/64	.156
	(22.2)	(60.3)	(27.0)	(9.1)	(4.0)
3/8"	1-1/16	2-3/4	1-3/16	11/32	.219
	(27.0)	(69.9)	(30.2)	(8.7)	(5.6)
1/2"	1-5/16	3-3/16	1-15/32	15/32	.281
	(33.4)	(81.0)	(37.3)	(11.9)	(7.1)
3/4"	1-5/8	3-9/16	1-11/16	17/32	.344
	(41.3)	(90.5)	(42.9)	(13.5)	(8.7)

() Parentheses = Millimeters

Size

4 /01

#### **HOW TO ORDER**



Code	Series	
F	Flow Control	
FP	Flow Control Poppet	

Code	Thread	
Omit	NPTF	
В	BSPT	
М	SAE	

#### Code SAE Size Code NPTF, BSPT Omit 9/16-18 UNF 6

10	1/8"
20	1/4"
25	3/8"
30	1/2"
35	3/4"

Code	Material	Code	
В	Brass	Omit	Tar Adju
S	Carbon Steel	к	Auju
SS	Stainless Steel	ĸ	

Code	Knob	
Omit	Tamperproof Adjustment Key	
к	Knob	

# **AVAILABLE MODEL CODES**

		NPTF Thread			ISO 7/1 - RS — BSP Taper Thread		SAE Thread
	Size	Brass	Steel	Stainless Steel	Brass	Steel	Steel
	1/8"	FP10BK F10B F10BK	F10S F10SK	- F10SSK	FB10BK	FB10SK	-
	1/4"	FP20BK F20B F20BK	F20S F20SK	F20SSK	FB20BK	FB20SK	FM620S FM620SK
	3/8"	FP25BK F25B F25BK	F25S F25SK	- F25SSK	FB25BK	FB25SK	-
	1/2"	F30B F30BK	F30S F30SK	- F30SSK	-	FB30SK	-
	3/4"	F35B -	F35SK		_	FB35SK	-

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