Pneu-Trol®

F, FP Flow Control

Female-to-Female



IN-LINE





FLOW RATING

Size		ommended pm (lpm)	Co-Efficient (Cv Factor)
1/8"	1.5	(5.7)	.23
1/4"	3.0	(11.4)	.54
3/8"	5.0	(18.9)	.83
SAE 6			.00
1/2"	8.0	(30.3)	1.47
3/4"	12.0	(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

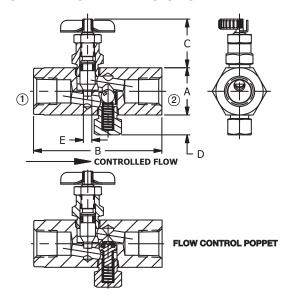
Lock Nut: Brass, Steel, Stainless Steel 303

Tamperproof Key: Steel Knob: Aluminum



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

HOW TO ORDER



FP



Thread



SAE Size



Size





Code Series F Flow Control

Flow Control Poppet

Code	Thread	
Omit	NPTF	
В	BSPT	
М	SAE	

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

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

Code	Material	
В	Brass	
S	Carbon Steel	
SS	Stainless Steel	

Code	Knob	
Omit	Tamperproof Adjustment Key	
K	Knob	

AVAILABLE MODEL CODES

Size	NPTF Thread			ISO 7/1 - RS — BSP Taper Thread		SAE Thread
	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	_