

SERIES F DIVERTER VALVE
AIR PRESSURE AND SPRING PRESSURE TO OPERATE

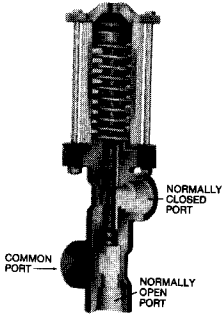
SERIES BFS DIVERTER VALVE
AIR PRESSURE AND SPRING PRESSURE TO OPERATE

SERIES F FEATURES

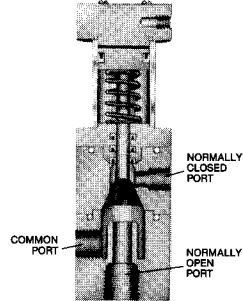
- Clear acrylic cylinder for visual indication of valve position
- Bubble tight shutoff
- Simple and inexpensive method for diverting liquids

SERIES BFS FEATURES

- Clear acrylic cylinder for visual indication of valve position
- Teflon® shaft for non-sticking
- Million cycle design with bubble tight shutoff



SERIES F
3/4 - 2



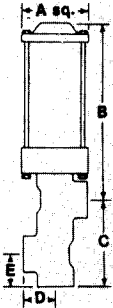
SERIES BFS
1/2 ONLY

Note: Series BFA and BFS in all Teflon is similar but not identical to picture shown.

SPECIFICATIONS

		SERIES F	SERIES BFS
BODIES		PVC	PVC
CYLINDER WALLS		ACRYLIC	
SEALS		BUNA-N, VITON & EPDM	
SHAFT		PVC SHAFT WITH "O" RING SEAL	TEFLON
FASTENERS		STAINLESS STEEL	
SERVICE		PRESSURE or VACUUM	
OPTIONS:	ENDS	FLANGED	SOCKET or FLANGED
	AIR SOLENOID	3-WAY	4-WAY/3-WAY
AIR INLET CONNECTION IS 1/8 NPT			

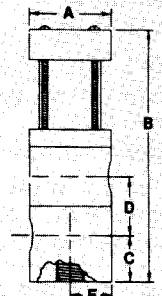
SERIES F DIMENSIONS



	3/4		1		1 1/4		1 1/2		2	
	in.	mm.	in.	mm.	in.	mm.	in.	mm.	in.	mm.
A	2 3/4	69.9	2 3/4	69.9	3 3/16	81.0	3 11/16	93.7	4 11/16	118.9
B	7 1/8	181.0	7 7/8	200.0	8	203.2	9 1/8	231.8	11 7/8	301.6
C	3 5/8	92.1	4 1/4	108.0	4 15/16	125.2	5 1/2	139.7	6 1/2	165.1
D	1 3/8	34.9	1 3/4	44.4	1 15/16	49.2	2	50.8	2 1/4	57.1
E	1 3/8	34.9	1 3/4	44.4	1 15/16	49.2	2	50.8	2 1/4	57.1

SERIES BFS DIMENSIONS

VALVE DIMENSIONS		"A"		"B"		"C"		"D"		"E"	
TYPE OF OPERATION	MATERIAL OF CONSTRUCTION	in.	mm.	in.	mm.	in.	mm.	in.	mm.	in.	mm.
Air By Spring	PVC	2 1/2	63.5	7 5/8	193.7	1 7/16	36.5	1 11/16	42.9	1 1/4	31.8



PRESSURE RATINGS

LIQUID: Maximum: 125 PSI (8.63 bars) **AIR:** Maximum: 100 PSI (6.90 bars)
Minimum: Not Required

RECOMMENDED MINIMUM AIR PRESSURE REQUIRED TO CLOSE VALVE AGAINST LINE BACKPRESSURE						
LINE BACK PRESSURES	psi		psi		psi	
	0	25	50	75	100	125
PIPE SIZE	bars	bars	bars	bars	bars	bars
3/4	45	3,11	45	3,11	50	3,45
1	45	3,11	45	3,11	50	3,45
1 1/4	45	3,11	40	2,76	45	3,11
1 1/2	40	2,76	40	2,76	45	3,11
2	40	2,76	40	2,76	45	3,11

CAUTION: If quick actuation of the valve causes water hammer, then air rate valves should be installed to slow down the movement of the air piston.

SERIES F PART NUMBERS				
VALVE SIZE	PORT Cv FACTORS		VALVE PART NUMBERS	
	NO	NC	BUNA-N SEALS	VITON SEALS
3/4	12.2	7.3	F075B	F075V
1	19.2	11.5	F100B	F100V
1 1/4	34.5	20.7	F125B	F125V
1 1/2	47.5	28.5	F150B	F150V
2	79.0	47.5	F200B	F200V

PRESSURE RATINGS

LIQUID: Maximum: 100 PSI (6.90 bars) **PORT Cv FACTORS**
Minimum: Not Required

NO	NC
3.6	2.5

AIR: Maximum: 100 PSI (6.90 bars)

RECOMMENDED MINIMUM AIR PRESSURE TO OPERATE				
GIVEN LIQUID LINE PRESSURES	psi		psi	
	0	25	50	100
	bars	bars	bars	bars
Air By Spring	45	3,11	45	3,11
	50	3,45	65	4,49

SERIES BFS PART NUMBERS				
TYPE OF OPERATION	MATERIAL OF CONSTRUCTION	VALVE PART NUMBERS		
		TEFLON SEALS	EPDM SEALS	VITON SEALS
Air by Spring	PVC	—	BFS050EP-PV	BFS050V-PV

NOTE: Buna-N seals remove "EP" or "V" and substitute "B" in the part number.