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Industrial Excess Flow Valves SEFV Series

Introduction _

Excess Flow Valves are designed to limit flow of fluid to a predetermined rate.

- When flow reaches the predetermined rate the poppet will trip, limiting or stopping flow.
- When pressure is equalized across the valve, the poppet will reset to open.

Features

- 2-piece body
 - Allows for simple spring and seal maintenance
- Spring-loaded actuation
- Automatic reset
 - The bleed vent allows the valve to automatically reset
- Variety of end connections
 - Can be assembled in any system or application
- Stainless steel construction



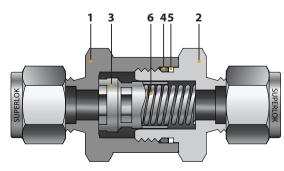
Specifications _____

Pressure rating	6000psig (413bar) @100°F(38°C)
Temperature rating	-10 to 400°F (-23 to 204 °C)
Body material	316 stainless steel
End connections	1/8" to 1/2" and 6mm to 12mm

Testing _____

• Every Valve is factory tested for proper functionality.

Materials of Construction _____



Ne	Component	Material Grade / ASTM Specification
No.	Component	Stainless Steel
*1	INLET BODY	SS316 / A479
*2	OUTLET BODY	SS316 / A479
*3	POPPET	SS316 / A479
*4	O-RING	VITON
5	BACK-UP RING	PTFE
*6	SPRING	SS304 / A313

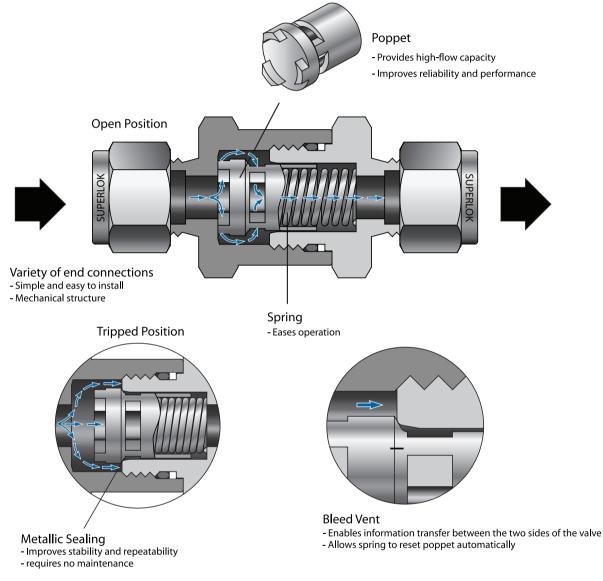
•Wetted components are marked "*"

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Operation

- The poppet is loaded by a spring in the open position during normal system operation.
- If the system becomes unbalanced, and the downstream pressure drops, the poppet rapidly moves to the tripped position.
- The poppet will remain in the tripped position until the system pressure becomes equal across the bleed vent in the poppet.
- The bleed vent in the poppet will allow the pressure to slowly equalize across the valve if the downstream line is closed or repaired.
- When the system pressure becomes equal, the spring will automatically reset the poppet to the open position.



Technical Data -

Pressure - Temperature Ratings

- Ratings based on Viton O-rings.
- 5000 psig (344 bar) for the SEFV series valves with end connections 3/8" female NPT.
- 4600 psig (316 bar) for the SEFV series valves with end connections 1/2" female NPT.

Body Material	316 Stainless Steel			
Temperature Rating °F (°C)	Working Pressure, psig (bar)			
-10 to 100 (-23 to 37)	6000 (413)			
200 (93)	5160 (355)			
250 (121)	4910 (338)			
300 (148)	4660 (321)			
400 (204)	4280 (294)			

O-ring Material	Temperature Rating °F (°C)
VITON	-10 to 400 (-23 to 204)
Buna-N	-40 to 250 (-40 to 121)
Ethylene propylene	-50 to 300 (-45 to 148)
Kalrez	-10 to 400 (-23 to 204)

• Viton O-ring is standard.



SEFV Series -

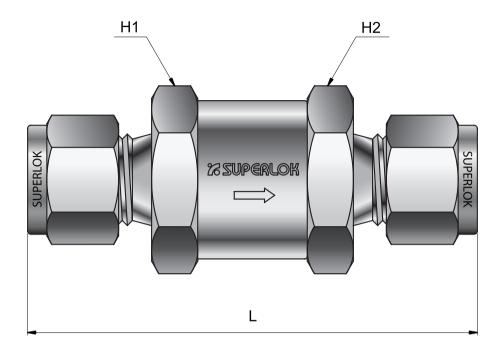


Table of dimensions ———

Order	Order Number End Connections		nections	Dime	ensions, Inch (mm)		
Series	Part No.	INLET	INLET OUTLET		H1	H2	
	S-4	1/4 [‴] SU	PERLOK	2.43 (61.7)			
F	S-6M	6mm SL	2.43 (61.7)	11/16 (17.4)			
	F-2N	1/8 [″] Fen	1.87 (47.5)				
	F-4N	1/4 [″] Fen	2.12 (53.8)				
SEFV1	M-2N	1/8 [″] Ma	1.79 (45.5)				
	M-4N	1/4 [″] Ma	ale NPT	2.17 (55.1)			
MS-4N-S MF-4N	MS-4N-S	1/4 [″] Male NPT	1/4 ^{°′} SUPERLOK	2.30 (58.4)			
	MF-4N	1/4 [″] Male NPT	1/4 ^{^{°′} Female NPT}	2.13 (54.1)			
S-6		3/8 [″] SU	PERLOK	2.75 (69.9)			
	S-8	1/2 [‴] SU	PERLOK	2.97 (75.4)	1 (25.4)		
	S-8M	8mm SL	JPERLOK	2.70 (68.6)			
	S-10M	10mm SUPERLOK		2.80 (71.1)	T (23.4)		
S-12M 12mm SUPERLOK		UPERLOK	2.96 (75.2)				
	F-6N	3/8 [″] Fen	nale NPT	2.55 (64.8)			
SEFV2	F-8N	1/2 [″] Fen	nale NPT	3.03 (77.0)	1-1/16	5 (27.0)	
	M-6N	3/8 [~] Ma	ale NPT	2.36 (59.9)			
	M-8N	1/2 [°] Male NPT		2.73 (69.3)	1 (25.4)		
	MS-6N-6	3/8 [°] Male NPT 3/8 [°] SUPERLOK		2.56 (65.0)			
	MS-8N-8	1/2 [″] Male NPT	1/2 ^[~] SUPERLOK	2.85 (72.4)			
	MF-6N	3/8 [″] Male NPT	3/8 [″] Female NPT	2.46 (62.5)			
	MF-8N	1/2 ^{^m Male NPT}	1/2 [°] Male NPT 1/2 [°] Female NPT		1 (25.4)	1-1/16 (27	

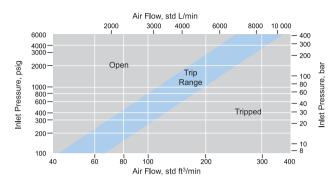
Dimensions based on SUPERLOK nuts finger-tight. Dimensions are reference only, subject to change.



Flow Data at 70°F(20°C)

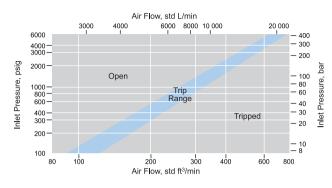
Air Flow - SEFV1 Series

Connection Sizes : 1/8[°], 1/4[°], 6mm



Air Flow - SEFV2 Series

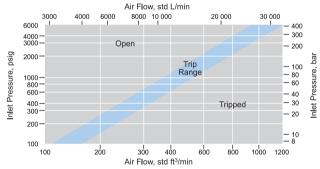
Connection Sizes: 3/8["], 8mm, 10mm



Water Flow - SEFV1, SEFV2 Series

Connection Sizes : 1/2["], 12mm

Air Flow - SEFV2 Series



Series	Connection Size	Cv	Trip Range U.S. gal/min (L/min)
SEFV1	1/8", 1/4", 6mm	0.5	3.9 to 5.8 (14.7 to 21.9)
	3/8", 8mm, 10mm	1 1	8.2 to 10.0 (31.0 to 37.9)
SEFV2	1/2", 12mm	1.1	11.2 to 14.9 (42.4 to 56.4)

Ordering Information

SEF	-V1	- M	S -	4N-	4 -	EP	- SS
-	1	2	2	3		4	5

1. Valve Series

- SEFV1
- SEFV2

2. Port Type (Inlet x Outlet)

- S : SUPERLOK Tube Fitting
- M : Male Pipe Thread
- F: Female Pipe Thread

5. Body Material

■ SS: 316 Stainless Steel

- MS : Male Pipe Thread x SUPERLOK Tube Fitting
- MF : Male Pipe Thread x Female Pipe Thread

3. Port Size

Pipe Thread Designation				_	■ Tube O.D Designation					
Size (inch)	1/8	1/4	3/8	1/2		Tube O.D (inch)	1/4	3/8	1/2	-
Screwed BSPT	2R	4R	6R	8R	-	Designation	4	6	8	-
Screwed NPT	2N	4N	6N	8N		Tube O.D (mm)	6	8	10	12
					-	Designation	6M	8M	10M	12M

4. O-ring Material

- Nil : Vtion (Standard)
- N: Buna N
- EP : Ethylene propylene (EPDM)
- KAL : Kalrez

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