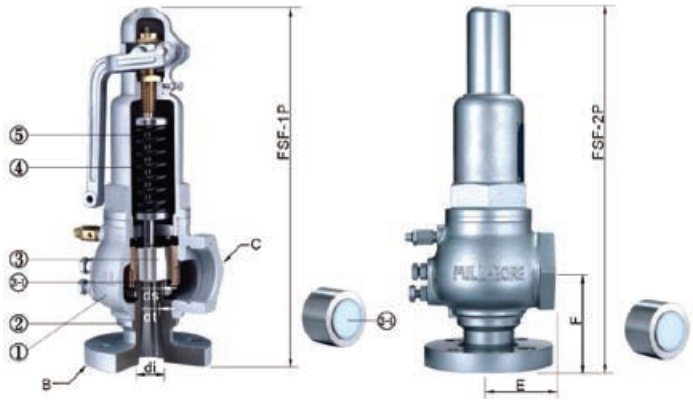
FULL BORE SAFETY VALVES
FSF-1P/FSF-2P

Technical Data

Low lift safety valves
Material: Body–FC; Valve Seat–CF8
Orifice size: 1"(25mm), 1½"(40mm), 2"(50mm)
Working pressure: 1~10 kgf/cm² (14~150 psig)
11~16 kgf/cm² (156~227 psig)
Working temp.: –5°C~196°C
Working fluid: Noncorrosive gas, air, steam
(FSF-2P sealing type is suitable for using in water system)



FSF-1P
Lever 1"~2"

FSF-2P
Sealing 1"~2"

General Material List

NO.	Type / Parts Name	FSF-1P Lever	FSF-2P Sealing
1.	Valve Body	FC	
2.	Valve Seat	CF8	
3.	Disc	SUS304	
3-1.	Soft Seal	Teflon (PTFE)	
4.	Spring	Steel	
5.	Stem	SUS304	
Working Pressure		1~10 kgf/cm² 11~16 kgf/cm²	
Working Temp.		-5°C~196°C	
Working Fluid		Noncorrosive gas, air, steam	

Dimensions

LEVER SERIES

ITEM \ SIZE	1"	1½"	2"
E	60	70	85
F	85	100	115
Lift	4.8	7.3	9.5
Wt. kg	6.5	12	17.5

SEALING SERIES

ITEM \ SIZE	1"	1½"	2"
FSF-1P FSF-2P	310	385	440
Inlet B	1"	1½"	2"
Outlet C (PT)	1¼"	2"	2½"
Inlet Orifice di	25	40	50
Throat Orifice dt	19	29	38
Valve Seat Orifice ds	22.5	34.0	44.0
Effective Discharge area mm²	283.5	660.5	1134.1

(unit:mm)

Blowout Capacity

Please refer the Blowout Capacity Table on next page.

Ordering Information

FSF-1P / FSF-2P	Code	Valve Seat
	0	CF8

Code	Pressure Rating		
1	1~10 kg/cm²	2	11~16 kg/cm²

Code	Size
	(A) 1" JIS 10K (B) 1½" JIS 10K (C) 2" JIS 10K

[ ] [ ] [ ] [ ] Complete Ordering Code

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Blowout Capavity Table

– Air

orifice / set press.	Air Blowout Capacity (kg/h)		
	1" (25)	1½" (40)	2" (50)
1 kgf/cm²	373	869	1493
2 kgf/cm²	569	1325	2275
3 kgf/cm²	764	1780	3056
4 kgf/cm²	960	2235	3838
5 kgf/cm²	1155	2691	4620
6 kgf/cm²	1351	3146	5402
7 kgf/cm²	1546	3602	6184
8 kgf/cm²	1741	4057	6966
9 kgf/cm²	1937	4512	7748
10 kgf/cm²	2132	4968	8530
11 kgf/cm²	2328	5423	9312
12 kgf/cm²	2523	5879	10093
13 kgf/cm²	2719	6334	10875
14 kgf/cm²	2914	6789	11657
15 kgf/cm²	3110	7245	12439
16 kgf/cm²	3305	7700	13221
17 kgf/cm²	3501	8155	14003
18 kgf/cm²	3696	8611	14785
19 kgf/cm²	3892	9066	15567
20 kgf/cm²	4087	9522	16349

– Water

orifice / set press.	Water Blowout Capacity (L/Min)		
	1" (25)	1½" (40)	2" (50)
1 kgf/cm²	110	256	439
2 kgf/cm²	155	362	621
3 kgf/cm²	190	443	760
4 kgf/cm²	219	511	878
5 kgf/cm²	245	572	981
6 kgf/cm²	269	626	1075
7 kgf/cm²	290	676	1161
8 kgf/cm²	310	723	1241
9 kgf/cm²	329	767	1317
10 kgf/cm²	347	808	1388
11 kgf/cm²	364	848	1456
12 kgf/cm²	380	886	1520
13 kgf/cm²	396	922	1583
14 kgf/cm²	411	956	1642
15 kgf/cm²	425	990	1700
16 kgf/cm²	439	1023	1756
17 kgf/cm²	452	1054	1810
18 kgf/cm²	466	1085	1862
19 kgf/cm²	478	1114	1913
20 kgf/cm²	491	1143	1963

– Steam

orifice / set press.	Steam Blowout Capacity (kg/h)		
	1" (25)	1½" (40)	2" (50)
1 kgf/cm²	230	536	921
2 kgf/cm²	347	809	1388
3 kgf/cm²	464	1081	1856
4 kgf/cm²	581	1353	2323
5 kgf/cm²	698	1625	2790
6 kgf/cm²	814	1897	3258
7 kgf/cm²	931	2170	3725
8 kgf/cm²	1048	2442	4192
9 kgf/cm²	1165	2714	4660
10 kgf/cm²	1282	2986	5127
11 kgf/cm²	1399	3258	5595
12 kgf/cm²	1515	3530	6062
13 kgf/cm²	1632	3803	6529
14 kgf/cm²	1749	4075	6997
15 kgf/cm²	1866	4347	7464
16 kgf/cm²	1983	4619	7931
17 kgf/cm²	2100	4891	8399
18 kgf/cm²	2216	5164	8866
19 kgf/cm²	2333	5436	9333
20 kgf/cm²	2450	5708	9801

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