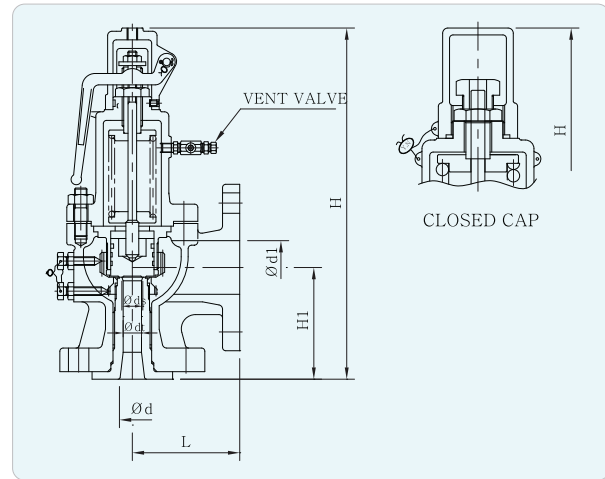


FSV-1F | Full Bore Safety Relief Valve

This is generally used for large-size steam boiler, various pressure vessels and tracing equipment as safety valve and relief valve in pump.

- Suitable for large capacity.
- The main parts are made of the good materials in accurate.
- Lever type could execute the discharge inspection manually at over 75% of discharge pressure.
- ANSI, DIN Flanges are available upon request.



► Specifications

Type	Working Fluid	Setting Pressure (kgf/cm ²)	Working Temperature	Materials		Connection
				Body	Trim	
Lever	Steam, Air	0.35~11	MAX. 220°C	Ductile Iron	Stainless Steel	JIS Flanged
No Lever	Water, Oil					

► Dimensions

Size	Part	d	dt	ds	L	H1	H	Lift	Inlet	Outlet
15A × 25A		15	11.5	14.5	95	85	282	3.0	JIS 10K RF Flanged	JIS 10K FF Flanged
20A × 25A		20	15	17.5	95	85	282	3.8		
25A × 40A		25	19	22	100	104	320	4.8		
32A × 65A		32	30	35	115	123	386	7.5		
40A × 65A		40	30	35	115	123	386	7.5		
50A × 80A		50	38	44	128	130	476	9.5		
65A × 100A		65	49	57	145	150	547	12.3		
80A × 125A		80	61	71	162	168	598	15.2		
100A × 150A		100	76	88	190	197	725	19.0		
125A × 200A		125	95	114	220	222	895	24.0		
150A × 200A		150	115	133	225	230	953	28.7		

※주문에 따라 입·출구플랜지 KS B6216, ANSI 규격으로도 제작할 수 있습니다.(온도 235°C 이상은 덮개 개방형으로 제작 - 산업안전관리공단 발체)

Discharge Capacities

S : Saturated Steam (kg/h with 3% accumulation)
 A : Air (kg/h at 20°C with 10% accumulation)
 W : Water (m³/h at G=1 with 15% accumulation)

► Model (LSV-1S)

Size	Effective Area(m²)	Fluid	Set Pressure kg/cm²																
			0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0
15A ~ 20A	62.83	S	35.78	38.17	40.56	42.94	45.33	47.71	50.10	52.48	76.34	100.20	124.05	147.91	171.77	195.62	219.48	243.34	267.19
		A	52.65	56.90	61.15	65.40	69.65	73.90	78.15	82.40	124.89	167.39	209.88	252.38	294.87	337.36	379.86	422.35	464.85
25A	133.52	W	0.72	0.83	0.93	1.02	1.10	1.18	1.25	1.32	1.86	2.28	2.63	2.94	3.23	3.48	3.73	3.95	4.16
		S	76.05	81.12	86.19	91.26	96.33	101.40	106.47	111.53	162.23	212.93	263.63	314.33	365.02	415.72	466.42	517.12	567.81
32A	221.17	A	111.89	120.93	129.96	138.99	148.02	157.05	166.08	175.11	265.41	355.72	446.02	536.32	626.63	716.93	807.24	897.54	987.84
		W	1.53	1.77	1.98	2.17	2.34	2.50	2.66	2.80	3.96	4.85	5.60	6.26	6.86	7.40	7.92	8.40	8.85
40A	289.03	S	125.97	134.37	142.76	151.16	159.56	167.96	176.35	184.75	268.73	352.71	436.69	520.67	604.64	688.62	772.60	856.58	940.56
		A	185.35	200.31	215.27	230.22	245.18	260.14	275.10	290.06	439.64	589.23	738.81	888.40	1037.99	1187.58	1337.17	1486.76	1636.35
50A	392.7	W	3.32	3.83	4.28	4.69	5.07	5.42	5.75	6.06	8.57	10.49	12.12	13.55	14.84	16.03	17.14	18.18	19.16
		S	164.62	175.59	186.57	197.54	208.52	219.49	230.46	241.44	351.18	460.93	570.67	680.42	790.16	899.91	1009.65	1119.40	1229.14
50A	392.7	A	242.22	261.77	281.31	300.86	320.41	339.96	359.51	379.05	574.53	770.02	965.50	1160.98	1356.46	1551.94	1747.42	1942.90	2138.38
		W	4.51	5.21	5.82	6.38	6.89	7.36	7.81	8.23	11.64	14.26	16.46	18.41	20.16	21.78	23.28	24.70	26.03

► Model (HSV-3S)

Size	Effective Area(m²)	Fluid	Set Pressure kg/cm²																
			11	12	13	14	15	16	17	18	19	20	21	22	24	26	28	30	32
15A~ 20A	408.4	S	189.19	204.69	220.20	235.71	251.21	266.72	282.23	297.73	313.24	328.75	344.26	359.76	375.27	390.78	406.29	421.79	437.30
		A	329.77	357.40	385.02	412.64	440.26	467.88	495.50	523.12	550.75	578.37	605.99	633.61	661.23	688.85	716.47	744.09	771.71
25A	96.13	W	2.84	2.97	3.09	3.20	3.32	3.42	3.53	3.63	3.73	3.83	3.92	4.02	4.19	4.37	4.53	4.69	4.84
		S	445.31	481.81	518.31	554.81	591.31	627.81	664.31	700.81	737.31	773.81	810.31	846.82	883.32	919.82	956.32	992.82	1029.32
32A	144.51	A	776.23	841.25	906.26	971.28	1036.29	1101.31	1166.33	1231.34	1296.36	1361.37	1426.39	1491.40	1556.42	1621.44	1686.45	1751.47	1816.48
		W	6.68	6.98	7.27	7.54	7.80	8.06	8.31	8.55	8.78	9.01	9.23	9.45	9.67	9.87	10.07	10.26	10.44
40A	179.7	S	669.42	724.29	779.16	834.03	888.90	943.77	998.64	1053.52	1108.39	1163.26	1218.13	1273.00	1327.87	1382.74	1437.61	1492.48	1547.35
		A	1166.89	1264.63	1362.36	1460.10	1557.84	1655.57	1753.31	1851.05	1948.78	2046.52	2144.26	2241.99	2339.73	2437.47	2535.20	2632.94	2730.68
50A	452.39	W	10.05	10.49	10.92	11.33	11.73	12.12	12.49	12.85	13.20	13.55	13.88	14.21	14.54	14.84	15.13	15.41	15.68
		S	832.43	900.67	968.90	1037.13	1105.36	1173.60	1241.83	1310.06	1378.29	1446.52	1514.76	1582.99	1651.23	1719.46	1787.70	1855.93	1924.17
50A	452.39	A	1451.04	1572.58	1694.12	1815.65	1937.19	2058.73	2180.26	2301.80	2423.34	2544.87	2666.41	2787.95	2909.48	3031.02	3152.56	3274.09	3395.63
		W	12.49	13.05	13.58	14.09	14.59	15.07	15.53	15.98	16.42	16.85	17.26	17.67	18.05	18.41	18.77	19.12	19.47
50A	452.39	S	2095.63	2267.40	2439.18	2610.95	2782.72	2954.49	3126.27	3298.04	3469.81	3641.59	3813.36	3985.13	4156.90	4328.68	4500.45	4672.22	4844.00
		A	3652.96	3958.92	4264.88	4570.84	4876.80	5182.76	5488.72	5794.68	6100.64	6406.60	6712.56	7018.52	7324.48	7630.44	7936.40	8242.36	8548.32
50A	452.39	W	31.45	32.85	34.19	35.48	36.73	37.93	39.10	40.23	41.34	42.41	43.46	44.48	45.46	46.41	47.34	48.26	49.17

► Model (FSV-1F / 2F)

Size	Effective Area(m²)	Fluid	Set Pressure kg/cm²																
			1	2	3	4	5	6	7	8	9	10	11	12	14	16	18	19	20
15A	108.87	S	91.42	132.98	174.53	216.08	257.63	299.18	340.73	382.28	423.83	465.38	506.93	548.48	590.03	631.58	673.13	714.68	756.23
		A	143.53	217.55	291.57	365.59	439.61	513.63	587.65	661.67	735.69	809.71	883.73	957.75	1031.77	1105.79	1179.81	1253.83	1327.85
20A	176.71	W	2.18	3.08	3.77	4.35	4.87	5.33	5.76	6.16	6.53	6.89	7.22	7.54	7.85	8.15	8.41	8.69	8.94
		S	155.53	226.23	296.93	367.63	438.33	509.03	579.73	650.43	721.13	791.83	862.53	933.23	1003.93	1074.63	1145.33	1216.03	1286.73
25A	283.53	A	244.19	370.11	496.04	621.97	747.90	873.82	999.75	1125.68	1251.61	1377.53	1503.46	1629.39	1755.32	1881.24	2007.17	2133.10	2259.03
		W	3.70	5.24	6.42	7.41	8.28	9.07	9.80	10.48	11.11	11.71	12.29	12.83	13.36	13.84	14.27	14.65	15.01
32A~ 40A	706.86	S	249.55	362.99	476.42	589.85	703.29	816.72	930.15	1043.59	1157.02	1270.45	1383.89	1497.32	1610.75	1724.19	1837.62	1951.05	2064.48
		A	391.79	588.84	785.89	982.94	1179.99	1377.04	1574.09	1771.14	1968.19	2165.24	2362.29	2559.34	2756.39	2953.44	3150.49	3347.54	3544.59
50A	1134.11	W	5.94	8.41	10.29	11.89	13.29	14.56	15.72	16.81	17.83	18.79	19.71	20.59	21.44	22.27	23.07	23.84	24.58
		S	622.15	904.95	1187.75	1470.55	1753.34	2036.14	2318.94	2601.73	2884.53	3167.33	3450.13	3732.92	4015.72	4298.52	4581.31	4864.11	5146.90
65A	1885.74	A	976.77	1480.49	1984.22	2487.94	2991.67	3495.39	3999.12	4502.85	5006.57	5510.30	6014.02	6517.75	7021.47	7525.20	8028.92	8532.65	9036.37
		W	14.82	20.95	25.66	29.63	33.13	36.29	39.20	41.91	44.45	46.86	49.14	51.33	53.44	55.49	57.48	59.41	61.28
80A	2922.47	S	998.20	1451.93	1905.66	2359.39	2813.12	3266.85	3720.58	4174.31	4628.04	5081.77	5535.50	5989.23	6442.96	6896.69	7350.42	7804.15	8257.88
		A	1567.16	2377.53	3187.90	3998.27	4808.64	5619.01	6429.38	7239.75	8050.12	8860.49	9670.86	10481.23	11291.60	12101.97	12912.34	13722.71	14533.08
100A	4536.46	W	23.77	33.62	41.18	47.55	53.16	58.23	62.90	67.24	71.32	75.18	78.85	82.35	85.70	88.91	92.00	94.98	97.85
		S	1639.76	2442.20	3244.64	4047.08	4849.52	5651.96	6454.40	7256.84	8059.28	8861.72	9664.16	10466.60	11269.04	12071.48	12873.92	13676.36	14478.80
125A	7088.22	A	2605.80	3949.62	5293.44	6637.26	7981.09	9324.91	10668.73	12012.55	13356.37	14700.20	16044.03	17387.85	18731.67	20075.50	21419.32	22763.14	24106.96
		W	39.53	55.90	68.47	79.08	88.39	96.82	104.58	111.89	118.59	124.68	130.17	135.16	139.65	143.64	147.13	150.12	152.61
150A	10886.89	S	2572.26	3741.46	4910.67	6079.88	7249.09	8418.29	9587.50	10756.71	11925.92	13095.13	14264.34	15433.54	16602.75	17771.96	18941.17	20110.38	21279.59
		A	4038.39	6121.01	8203.64	10286.26	12368.88	14451.50	16534.12	18616.74	20699.36	22781.98	24864.60	26947.22	29029.84	31112.47	33195.09	35277.71	37360.33
200A	17671.46	W	61.26	86.64	106.11	122.52	136.98	150.06	162.08	173.27	183.78	193.72	203.19	212.19	220.72	228.79	236.40	243.55	250.24
		S	3992.84	5807.76	7622.69	9437.61	11252.54	13067.46	14882.39	16697.31	18512.24	20327.16	22142.09	23957.01	25771.94	27586.86	29401.79	31216.71	33031.64
200A	17671.46	A	6288.67	9501.46	12734.25	15967.04	19199.83	22432.62	25665.41	28898.20	32131.00	35363.79	38596.58	41829.37	45062.16	48294.95	51527.74	54760.53	57993.32
		W	95.09	134.48	164.70	190.18	212.63	232.23	249.59	265.26	279.68	292.99	305.31	316.64	327.00	336.38	344.80	352.27	358.80
200A	17671.46	S	6238.81	9074.63	11910.45	14746.27	17582.09	20417.91	23253.73	26089.55	28925.37	31761.20	34597.02	37432.84	40268.66	43104.48	45940.30	48776.12	51611.94
		A	9784.80	14846.04	19907.27	24968.50													