

Full-lift safety valve from red brass component-tested Series SF01/SF05



Design type	Spring-loaded full-lift safety valves The valves can be manually vented by turning the knurled nut. These types are not back-pressure compensated, i.e. any back pressure occurring during blow-off affects the set pressure. The set pressure is secured against adjustment by the sealing cap.
Connection	Female thread G1/2"...G11/4"
Materials	Valve body Red brass, Internal parts Brass, Spring Stainless steel 1.4310
Medium temperature	see table
Adjustment range	see table
Mounting type	Installation in rigid piping system
Mounting position	only upright
Application range	see table
Ordering note	when ordering specify set pressure
Special versions	Set pressure 25,1...50bar, with venting lever instead of rotary venting, Inlet with male thread, Valve in ATEX version

Table:

Adjustment range	Seal	Application range	Medium temperature [°C]	Type
0,5 - 25	NBR	Air, non-toxic gases and vapors	-30...+130	SF01
0,5 - 25	PTFE	Air, non-toxic gases and vapors	-60...+225	SF01-...T
0,5 - 25	NBR	neutral fluids	-30...+130	SF05





G	G1	L	H	H1	h	h1	SW1	SW2	d ₀	Weight [approx. kg]	Type	Type	Type
G1/2"	G1"	40	77	91	30	45	30	40	15,8	0,4	SF01-12W-15.8-XX	SF01-12W-15.8-XX-T	SF05-12W-15.8-XX
G3/4"	G1 1/4"	43	138	158	39	55	36	50	18	1,0	SF01-34W-18-XX	SF01-34W-18-XX-T	SF05-34W-18-XX
G1"	G1 1/2"	50	178	192	45	63	46	58	23	1,8	SF01-10W-23-XX	SF01-10W-23-XX-T	SF05-10W-23-XX
G1 1/4"	G2"	61	241	264	55	75	55	70	30	4,0	SF01-114W-30-XX	SF01-114W-30-XX-T	SF05-114W-30-XX

XX - Set pressure

Blow-off capacity at 10% overpressure for Typ SF01 Air [Nm³/h]

Size	Set pressure [bar]														
	0,5	1	2	4	6	8	10	12	14	16	18	20	22	24	25
G1/2"	56	87	141	238	335	431	528	625	722	819	916	1013	1109	1206	1255
G3/4"	127	189	316	561	790	1018	1247	1475	1704	1932	2161	2390	2618	2847	2961
G1"	199	291	489	855	1203	1552	1900	2248	2596	2945	3293	3641	3990	4338	4512
G1 1/4"	353	515	832	1484	2088	2693	3297	3902	4506	5111	5715	6320	6924	7529	7831

Relief capacity at 10% overpressure for Typ SF01 Steam [kg/h]

Size	Set pressure [bar]														
	0,5	1	2	4	6	8	10	12	14	16	18	20	22	24	25
G1/2"	42	69	111	184	257	329	401	472	544	616	686	757	829	900	936
G3/4"	96	151	249	435	608	777	947	1115	1284	1453	1619	1787	1956	2125	2209
G1"	150	232	385	663	926	1184	1443	1699	1957	2214	2467	2723	2981	3238	3366
G1 1/4"	266	411	656	1151	1607	2056	2504	2948	3396	3842	4281	4726	5173	5619	5842

Relief capacity at 10% overpressure for Typ SF05 Water [m³/h]

Size	Set pressure [bar]														
	0,5	1	2	4	6	8	10	12	14	16	18	20	22	24	25
G1/2"	2,3	3,1	4,4	6,3	7,7	8,9	9,9	10,9	11,8	12,6	13,3	14,0	14,7	15,4	15,7
G3/4"	5,4	7,3	10,4	14,7	18,0	20,8	23,2	25,4	27,5	29,4	31,1	32,8	34,4	35,9	36,7
G1"	8,8	12,0	16,9	24,0	29,3	33,9	37,9	41,5	44,8	47,9	50,8	53,6	56,2	58,7	59,9
G1 1/4"	15,4	20,8	29,4	41,6	50,9	58,8	65,8	72,0	77,8	83,2	88,2	93,0	97,5	101,9	104,0

Illustrations non-binding

Design, dimensional and material changes reserved

Armatures / Pressure regulators, safety valves and accessories / Safety and relief valves / Safety valve, full stroke Series SF01

Version 9

140755 / Generated 2026/33 EN

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