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Full-lift safety valve made of red brass component-tested
Series SF03

Design type	Spring-loaded full-lift safety valves, gas-tight cap, without venting These types are not back-pressure compensated, i.e. any back pressure occurring during venting 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	upright only
Application range	see table
Ordering note	Specify the set pressure when ordering
Special versions	Inlet with male thread, Valve in ATEX version

Table:

Adjustment range	Seal	Application range	Medium temperature [°C]	Type
0,5 - 25	EPDM	Air, flammable and toxic gases and vapours	-40...+170	SF03
0,5 - 25	PTFE	Air, flammable and toxic gases and vapours	-60...+225	SF03-...T
25,1 - 50	PTFE filled with carbon	Air, flammable and toxic gases and vapours	-60...+225	SF03-...C

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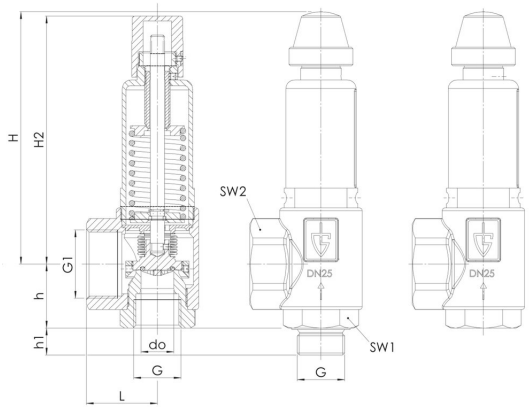

G	G1	L	H	H2	h	h1	SW1	SW2	d 0	Weight [approx. kg]	Type	Type	Type
G1/2"	G1"	40	77	77	30	45	30	40	15,8	0,4	SF03-12W-15.8-XX	SF03-12W-15.8-XX-T	SF03-12W-15.8-XX-C
G3/4"	G11/4"	43	137	138	39	55	36	50	18	1,0	SF03-34W-18-XX	SF03-34W-18-XX-T	SF03-34W-18-XX-C
G1"	G11/2"	50	178	175	45	63	46	58	23	1,8	SF03-10W-23-XX	SF03-10W-23-XX-T	SF03-10W-23-XX-C
G11/4"	G2"	61	241	241	55	75	55	70	30	4,0	SF03-114W-30-XX	SF03-114W-30-XX-T	SF03-114W-30-XX-C
XX - Set pressure													

Relieving capacity at 10% overpressure for Typ SF03 Air [N m 3 /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
G11/4"	353	515	832	1484	2088	2693	3297	3902	4506	5111	5715	6320	6924	7529	7831

Relieving capacity at 10% overpressure for Typ SF03 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
G11/4"	266	411	656	1151	1607	2056	2504	2948	3396	3842	4281	4726	5173	5619	5842

Relieving capacity at 10% overpressure for Typ SF03 Air [N m 3 /h]

Size	Set pressure [bar]														
	26	27	28	29	30	32	34	36	38	40	42	44	46	48	50
G1/2"	1303	1352	1400	1449	1497	1594	1691	1788	1884	1981	2078	2175	2272	2369	2466
G3/4"	3075	3190	3304	3418	3532	3761	3990	4218	4447	4675	4904	5132	5361	5589	5818
G1"	4686	4860	5035	5209	5383	5731	6080	6428	6776	7124	7473	7821	8169	8518	8866
G11/4"	8133	8435	8738	9040	9342	9947	10551	11156	11760	12365	12969	13574	14178	14783	15387

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