

Safety valve TYPE SV01 / SV02



Description:

Safety valves are used to protect a closed system, pressure tanks etc. against overpressure.

Features:

- for air and other neutral, non-poisonous and non-flammable gases which can be freely discharged into the environment
- with lifting mechanism
- TUV-type test approval letter D/G
- EC type examination Letter S/G
- Safety valves are set and sealed at the factory

Connection:

1/4", 3/8", 1/2", 3/4", 1", 1 1/4",
1 1/2", 2"

Temperature:

-60°C to +225°C – depending on
design

Set pressure:

0,2 bar – 50,0 bar– depending on
design

Materials:

Component

Body
Internal parts
Spring

Type SV01

brass CW617N
brass CW617N
Stainless steel

Type SV02

Stainless steel 1.4404
Stainless steel 1.4404
Stainless steel

seal:

FKM

Fluorocarbon

-20°C to +200°C

= 25 bar set pressure

PTFE

Polytetrafluoroethylene

-60°C to +225°C

+ 25 bar set pressure

Approvals:

AD 2000 sheet A2

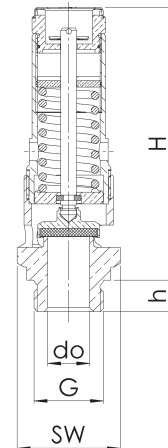
DIN EN ISO 4126-1

PED 2014/68/EU

Dimensions:

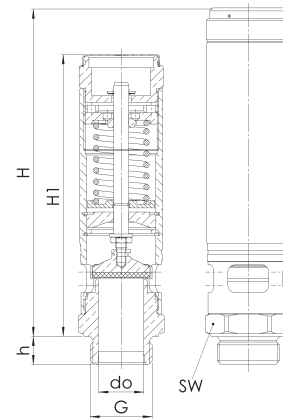
Diameter DN	8	10	15	20	25
G*	1/4"	3/8"	1/2"	3/4"	1"
H / (H1)	60	78	79	104	111
h	10	10	12	12	14
SW	19	24	27	34	41
do	7,5	10	11	16	20
Set pressure bar	0,2 - 50	0,2 - 50	0,2 - 50	0,2 - 50	0,2 - 50
weight kg	0,1	0,16	0,19	0,4	0,6

* connection acc. to DIN EN ISO 228-1



Diameter DN	32	40	50
G*	1 1/4"	1 1/2"	2"
H / (H1)	215	215 (177)	282
h	22,5	22,5	26
SW	55	55	80
do	31	31	48
Set pressure bar	0,2 - 45	0,2 - 45	0,2 - 30

* connection acc. to DIN EN ISO 228-1



Installation and Assembly:

Spring-loaded safety valves are to be installed with the spring bonnet pointing vertically upward. The safety function of the valves is also guaranteed and tested in a horizontal position. To ensure a satisfactory operation of the safety valves they must be installed in such a way that the safety valve is not exposed to any impermissible static, dynamic or thermal loads. During installation the max. torque value must not be exceeded (see chart). Appropriate protection devices (for example by fitting a blow-off/protective cover) must be applied if the medium that discharges upon actuation of the valve can lead to direct or indirect hazards to people or the environment. Always pay attention to possible fumes discharging from the relief bores in the spring bonnet.

Supply

Supply connection pieces for safety valves are to be kept as short as possible and are to be designed in such a way that there can be no pressure loss greater than max. 3 % of the response pressure.

Valve size	Max. torque value
DN 8	30 Nm
DN 10	40 Nm
DN 15	50 Nm
DN 20	60 Nm
DN 25	60 Nm
DN 32	80 Nm
DN 40	80 Nm
DN 50	90 Nm

Operation:

The operating pressure of the plant is to be at least 5 % lower than the closing pressure of the safety valve. In this way, the valve can satisfactorily close again after blowing off. In the event of minor leaks, which may be caused by contamination between the sealing surfaces, the valve can be made to blow off through lifting, for cleaning purposes. If this does not remove the leak the sealing surface is probably damaged and this can only be repaired at our factory or by authorized specialists.

Maintenance:

In the case of safety valves with a lifting device it is recommended, and in certain plant-specific cases even stipulated that the valves from time to time must be made to blow-off by lifting the seal off the seat, in order to assure the correct functioning of the safety valve. They can be made to open by hand at the latest when the working pressure is > 85% of the response pressure.

Lifting is carried out by turning the twist-type lifting mechanism above the bonnet in a counterclockwise direction. Turn the twist-type lifting mechanism back to the stop again afterwards.

Capacity table:

Blowing-off rates at 10% above set pressure

DN	8	10	15	20	25	32	40	50
Set pressure bar	Air Nm ³ /h	Air Nm ³ /h	Air Nm ³ /h	Air Nm ³ /h	Air Nm ³ /h	Air Nm ³ /h	Air Nm ³ /h	Air Nm ³ /h
0,2	20	35	46	100	133	401	401	768
0,3	25	45	54	119	144	453	453	827
0,4	29	52	67	137	167	493	493	887
0,5	32	58	74	158	185	534	534	946
0,6	35	64	82	172	211	576	576	1005
0,7	37	70	87	187	235	629	629	1064
0,8	41	74	95	200	260	673	673	1123
0,9	43	80	101	213	282	719	719	1182
1	46	85	107	227	305	766	766	1370
1,5	60	108	137	286	408	1007	1007	1827
2	73	132	166	346	506	1249	1249	2325
3	100	182	222	465	699	1723	1723	3177
4	125	228	279	584	889	2219	2219	4056
5	151	274	336	703	1070	2671	2671	4962
6	176	321	393	821	1251	3123	3123	5802
7	201	367	450	940	1432	3575	3575	6642
8	227	414	507	1059	1613	4027	4027	6034
9	252	460	564	1178	1794	4478	4478	6711
10	278	507	621	1297	1975	4930	4930	7388
11	303	553	678	1416	2156	5382	5382	8065
12	329	599	735	1535	2337	5834	5834	8742
13	354	646	791	1654	2518	6286	6286	9420
14	380	692	848	1773	2700	6738	6738	10097
15	405	739	905	1891	2881	7190	7190	10774
16	431	785	962	2010	3062	7642	7642	11451
17	456	832	1019	2129	3243	8094	8094	12129
18	482	878	1076	2248	3424	8546	8546	12806
19	507	925	1133	2367	3605	8998	8998	13483
20	533	971	1190	2486	3786	9450	9450	14160
21	558	1017	1247	2605	3967	9902	9902	14838

DN	8	10	15	20	25	32	40	50
Set pressure bar	Air Nm ³ /h	Air Nm ³ /h	Air Nm ³ /h	Air Nm ³ /h	Air Nm ³ /h	Air Nm ³ /h	Air Nm ³ /h	Air Nm ³ /h
22	584	1064	1304	2724	4148	10354	10354	15515
23	609	1110	1361	2843	4329	10806	10806	16192
24	635	1157	1417	2961	4510	11258	11258	16869
25	660	1203	1474	3080	4691	11710	11710	17546
26	685	1250	1531	3199	4872	12162	12162	18224
27	711	1296	1588	3318	5053	12614	12614	18901
28	736	1342	1645	3437	5234	13066	13066	19578
29	762	1389	1702	3556	5415	13518	13518	20255
30	787	1435	1759	3675	5597	13970	13970	20933
31	813	1482	1816	3794	5778	14422	14422	-
32	838	1528	1873	3913	5959	14874	14874	-
33	864	1575	1930	4031	6140	15325	15325	-
34	889	1621	1986	4150	6321	15777	15777	-
35	915	1667	2043	4269	6502	16229	16229	-
36	940	1714	2100	4388	6683	16681	16681	-
37	966	1760	2157	4507	6864	17133	17133	-
38	991	1807	2214	4626	7045	17585	17585	-
39	1017	1853	2271	4745	7226	18037	18037	-
40	1042	1900	2328	4864	7407	18489	18489	-
41	1068	1946	2385	4983	7588	18941	18941	-
42	1093	1993	2442	5101	7769	19393	19393	-
43	1119	2039	2499	5220	7950	19845	19845	-
44	1144	2085	2556	5339	8131	20297	20297	-
45	1170	2132	2612	5458	8313	20749	20749	-
46	1195	2178	2669	5577	8494	-	-	-
47	1220	2225	2726	5696	8675	-	-	-
48	1246	2271	2783	5815	8856	-	-	-
49	1271	2318	2840	5934	9037	-	-	-
50	1297	2364	2897	6053	9218	-	-	-

Article number:

Type	SV01	SV02
Body	Brass	Stainless steel
Interoir	Brass	Stainless steel
Seal	FKM (PTFE)	FKM (PTFE)

Type	Design	Seal	Size
SV01 - brass SV02 - stainless steel	00 – lifting mechanism	00 - FKM	01 – 1/4" 02 – 3/8" 03 – 1/2" 04 – 3/4" 05 – 1" 06 – 1 1/4" 07 – 1 1/2" 08 – 2"
SV01	00	00	04

Article no. SV01000004
 Safety valve made of brass
 Design: lifting mechanism
 Seal: FKM
 Size: Entry 3/4"

Image similar, subject change without notice.