

Safety Valves

Type 06127



Safety Valves, angle type, stainless steel
type tested, TÜV-SV.577. S/G/L

Standard safety valve
 metal to metal seated, with lifting device,
 closed bonnet
 Flanged connection acc. to DIN EN 1092-1 PN40

Part No. 06127.X.0000

Available options - on request only:

- Disc with soft sealing
- Extended pressure and temperature ranges

Applications:

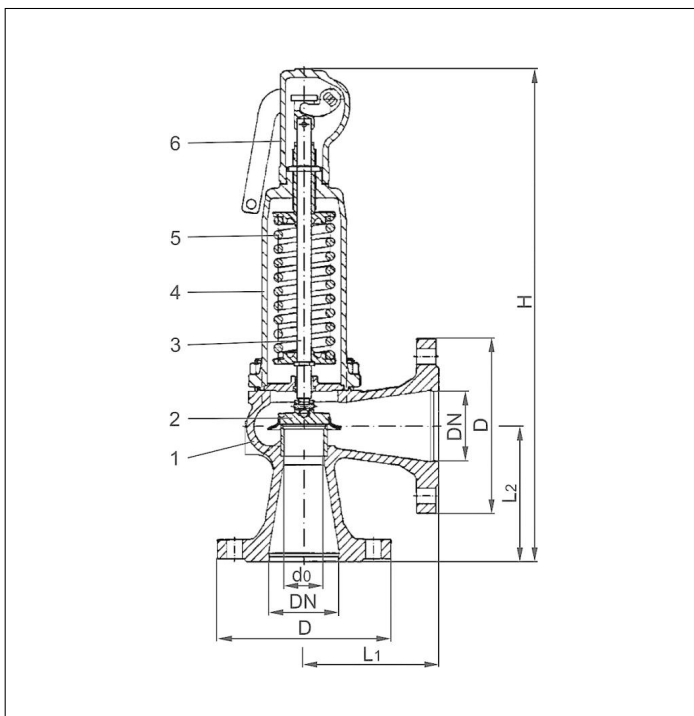
Provided as safety device for protection against excessive pressure in pressure vessels.

Approved for gases, vapours and fluids.

Working temperatures: -270°C / -454°F (3K) up to +450°C / +842°F (723K)



Materials	DIN EN	ASME/ASTM
1 Body	1.4408	A 351 CF 8M
2 Disc	1.4404	A 276 Grade 316L
3 Stem	1.4404	A 276 Grade 316L
4 Bonnet	1.4408	A 351 CF 8M
5 Spring	1.4310	A 313 Grade 301
6 Lifting device	1.4408	A 351 CF 8M



Type 06127	Technical data									
Nominal size	DN	15	20	25	32	40	50	65	80	100
Orifice	d ₀	12	18	18	18	23	29	37	46	60
Dimension code	.X.	0150	0200	0250	0320	0400	0500	0650	0800	1000
Set pressure	bar	0.2-40	0.2-40	0.2-40	0.2-40	0.2-40	0.2-40	0.2-26	0.2-25	0.2-22
Flange diameter	D	95	105	115	140	150	165	185	200	235
Height	H	310	315	320	325	335	360	475	530	605
Length	L ₁	90	95	100	105	115	125	145	155	175
Length	L ₂	90	95	100	105	115	125	145	155	175
Weight	ca. kg	5.0	6.0	6.0	8.0	9.0	12.0	15.0	20.0	33.0
Coeff. of discharge gases, vapours	α _w	0.29	0.29	0.38	0.38	0.38	0.38	0.38	0.38	0.38
Coeff. of discharge fluids	α _w	0.19	0.19	0.25	0.25	0.25	0.25	0.25	0.25	0.25

Dimensions in mm.



Discharge capacities

Calculation of flow rate acc. to AD2000-Merkblatt A2

Medium:

A = Saturated steam in kg/h

B = Air in m³/h at 0°C and 1013.25 mbar

C = Water in kg/h at 20°C

The capacity indicated below is for a fully opened valve.

d₀ - orifice

A₀ - flow area

Set pressure in bar (g)	DN	15			20			25 & 32			40			50		
	d ₀ (mm)	12			18			18			23			29		
	A ₀ (mm ²)	113.1			254.5			254.5			415.5			660.6		
	Medium	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
0.2		-	-	-	-	-	-	34	39	1770	55	63	2890	88	101	4600
0.5		15	18	846	30	35	1900	63	74	2510	102	120	4090	163	191	6510
1.0		31	37	1146	67	80	2580	101	121	3390	165	197	5540	263	313	8810
2.0		57	69	1621	129	156	3650	170	206	4800	278	336	7840	442	534	12500
3.0		77	95	1985	177	217	4470	232	284	5880	379	463	9600	603	737	15300
4.0		98	120	2292	221	272	5160	290	356	6790	473	582	11100	752	925	17600
5.0		117	145	2563	265	327	5770	347	429	7590	566	700	12400	900	1113	19700
6.0		136	170	2807	308	382	6320	404	501	8310	659	818	13600	1048	1301	21600
7.0		155	194	3032	350	438	6820	459	574	8980	750	936	14700	1192	1489	23300
8.0		175	219	3242	394	493	7300	516	646	9600	842	1055	15700	1339	1677	24900
9.0		194	243	3439	437	548	7740	572	718	10200	934	1173	16600	1485	1865	26400
10.0		213	268	3625	480	604	8160	629	791	10700	1026	1291	17500	1632	2053	27900
12.0		251	317	3971	566	714	8930	741	936	11800	1210	1528	19200	1924	2429	30500
16.0		327	415	4585	736	935	10300	964	1225	13600	1574	2001	22200	2503	3181	35200
20.0		403	513	5126	908	1156	11500	1190	1515	15200	1942	2474	24800	3088	3933	39400
24.0		479	612	5615	1078	1377	12600	1412	1805	16600	2306	2947	27100	3665	4685	43200
28.0		555	710	6065	1251	1599	13600	1639	2095	18000	2676	3420	29300	4254	5437	46600
32.0		632	808	6484	1425	1820	14600	1867	2384	19200	3049	3893	31300	4847	6189	49800
34.0		-	857	6684	-	1930	15000	-	2529	19800	-	4130	32300	-	6565	51400
36.0		-	906	6877	-	2041	15500	-	2674	20400	-	4366	33200	-	6941	52900
40.0		-	1005	7250	-	2262	16300	-	2964	21500	-	4839	35000	-	7693	55700

Set pressure in bar (g)	DN	65			80			100		
	d ₀ (mm)	37			46			60		
	A ₀ (mm ²)	1075.3			1662.1			2827.8		
	Medium	A	B	C	A	B	C	A	B	C
0.2		142	165	7500	220	255	11600	375	431	19700
0.5		265	311	10600	410	481	16400	697	819	27800
1.0		428	510	14300	661	788	22200	1125	1341	37700
2.0		720	870	20300	1113	1344	31300	1893	2287	53300
3.0		981	1199	24800	1517	1854	38400	2581	3153	65300
4.0		1224	1505	28700	1892	2327	44300	3218	3958	75400
5.0		1465	1811	32100	2265	2800	49600	3853	4763	84300
6.0		1706	2117	35100	2636	3273	54300	4485	5568	92400
7.0		1940	2423	37900	2999	3746	58600	5102	6373	99800
8.0		2179	2729	40600	3368	4219	62700	5730	7177	107000
9.0		2418	3035	43000	3737	4692	66500	6358	7982	113000
10.0		2656	3342	45300	4105	5165	70100	6984	8787	119000
12.0		3132	3954	49700	4842	6111	76800	8237	10397	131000
16.0		4074	5178	57400	6297	8003	88700	10714	13616	151000
20.0		5027	6402	64100	7770	9895	99100	13218	16835	169000
22.0		5489	7014	67300	8484	10842	104000	14434	18445	177000
24.0		5967	7626	70200	9222	11788	109000	-	-	-
26.0		6445	8238	73100	-	-	-	-	-	-