

High pressure safety valve TYPE SV15



Description:

High pressure safety valve are used to protect a closed system, pressure tanks etc. against overpressure.

Features:

- Suitable for gaseous media
- TUV-type test approval 2100 D/G (full lift)
- 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"

Temperature:

-60°C up to +200°C
depending on the version

Set pressure:

50,0 bar – 1500,00 bar
depending on the version

Materials: Component

Body
Internal parts
Spring

DIN EN

Stainless steel 1.4404
Stainless steel 1.4404
Spring steel 51 Cr V4

ASME

316 L
316 L

Seal:

For diameter DN6 / DN8

MD/PEEK

Flat seal

Metal-to-metal sealing / Polyetheretherketon

-60°C up to +180°C

For diameter DN10 / DN15

MD/PAI

Flat seal

Metal-to-metal sealing / Polyamidimid

-60°C up to +200°C

Approvals:

AD 2000 sheet A2

DIN ISO 4126-1

DGR 2014/68/EU

• Atmospheric discharge without lifting device

Cylindrical form for air and similar neutral, non-toxic and non-flammable gases that can be freely discharged into the atmosphere. Without lifting device.

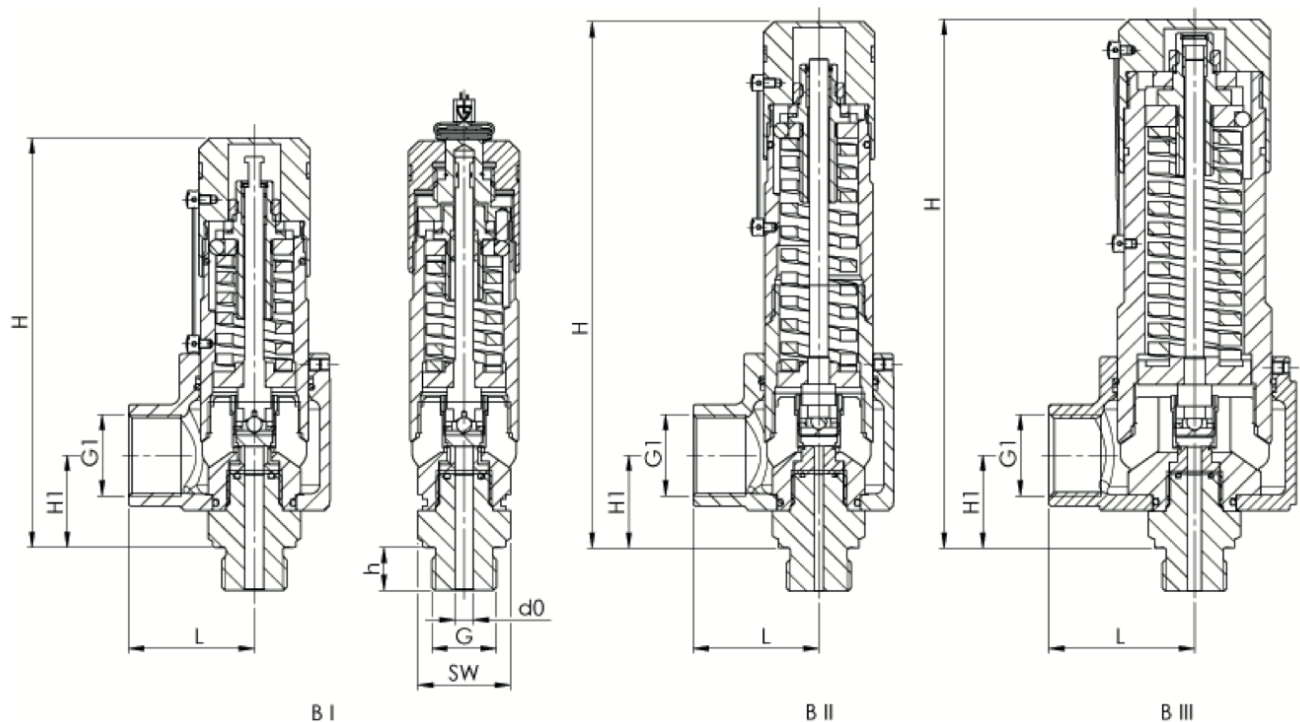
• Atmospheric discharge with lifting device (only for DN10 and DN15)

Zylindrische Bauform für Luft und ähnliche neutrale, ungiftige und nicht brennbare Gase, die frei in die Umgebung abgeblasen werden dürfen. With lifting device.

• Positionable angled body without lifting device

Gastight version of spring housing for neutral and non-neutral media., not counter pressure compensated. The environment is protected from being affected by the medium. Suitable for hydrogen.

Dimensions:



Diameter	DN6*			DN8*			D10		DN15
Entry G	1/4"	-	-	1/4"	1/4"	-	1/4"	-	-
	-	3/8"	-	3/8"	-	3/8"	-	3/8"	3/8"
	-	1/2"	-	1/2"	-	1/2"	-	1/2"	1/2"
	-	3/4"	-	3/4"	-	3/4"	-	3/4"	3/4"
	-	-	-	1"	-	1"	-	1"	1"
Outlet G1**	1/2" 3/4" 1"	1/2" 3/4" 1"	-	1/2" 3/4" 1"	-	-	1/2" 3/4" 1"	-	1/2" 3/4" 1"
Bauform	B II	B II	B III	B II	B III		B I		B I
H mm	172	172	174	172	174		133		134
H1 max mm	41,5	43	48	43	48		ca. 28		ca. 30
h	12/15/16	12/15/16	12/15/16	12/15/16	12/15/16		12/15/16		12/15/16
L max	43	43	50	43	50		43		45
SW	27	27	27	27	27		27		30
do*	3	3	3	4,5	4,5		6		9
Weight kg	1,4	1,4	2,2	1,4	2,2		0,70		0,90
Range of adjustment bar	150 - 1100	150 - 1150	1150 - 1500	100 - 600	600-900	600-1000	50 - 500***	50 - 630***	50 - 250***
Range of adjustment ASME psi	2175 - 15950	2175 - 16675	16675 - 21750	1450 - 8700	8700 - 13050	8700-14500	725 - 7250	725 - 9135	725 - 3625

*When using sizes DN6 and DN8 a shortened maintenance interval must be provided and a gas or gas mixture quality in accordance to ISO8573-1:2010 (4:1:1) must be maintained due to flow diameter falling below the permissible narrowest flow diameter of do= 6mm. If you have any further questions please contact our sales support.

**Outlet G1 only for version with positionable angled body

***Standard atmospheric discharge version has a maximum range of adjustment up to 180 bar

Thread acc. DIN EN ISO 228 BSP-P

Important: Outlet G1 at least same size like entry G

Pressure setting ranges:

Diameter (DN)	Pressure setting range number	Set pressure in bar	Set pressure ASME in psi
DN 6	1	150 - 500	2175 - 7250
	2	500 - 1150*	7250 - 16675
	3	1150 - 1500	16675 - 21750
DN 8	1	100 - 600	1450 - 8700
	2	600 - 1000*	8700 - 14500
DN 10	1	50 - 180	725 - 2610
	2	180 - 350	2610 - 5075
	3	350 - 630*	5075 - 9135
DN15	1	50 - 180	725 - 2610
	2	180 - 250	2610 - 3625

*Exception for 1/4" inch. It applies:

For DN6: For size of 1/4" inch pressure setting up to max. 1100 bar possible.

For DN8: For size of 1/4" inch pressure setting up to max. 900 bar possible.

For DN10: For size of 1/4" inch pressure setting up to max. 500 bar possible.

For DN15: For size of 1/4" inch not available

Article number:

type	Diameter	Version	Pressure setting range number	Thread	Entry	Outlet
SV15	0 – DN6* 1 – DN8 2 – DN10 3 – DN15**	0 – atmospheric discharge without lifting device*** 1 – atmospheric discharge with lifting device*** 2 – positionable angled body without lifting device (gastight)	1 – pressure setting range number. 1 2 – pressure setting range number. 2 3 – pressure setting range number. 3 (see table „pressure setting ranges“)	0 – BSP / ISO 228-1 1 – NPT / ANSI B1.20.1	01 – 1/4" 02 – 3/8" 03 – 1/2" 04 – 3/4" 05 – 1"	.0 – atmospheric discharge*** .3 – 1/2" .4 – 3/4" .5 – 1"
Beispiel Nr. SV15222002.4:						
SV15	2	2	2	0	02	.4

article number: SV15222002.4

safety valve made of stainless steel

diameter: DN10

version: positionable angled body without lifting device

pressure setting range number 2 (180 – 350 bar)

thread: BSP / ISO 228-1

entry: 3/8" inch

outlet: 3/4" inch

*) only up to entry size 3/4" inch

**) only from entry size 3/8" inch

***) only for DN10 and DN15 and for range of adjustment number 1 (till 180 bar)

****) see table "Pressure setting ranges"

ASME-approval, CRN-approval or DNV-approval available on request.

Image similar, subject change without notice.

Capacity table for DIN EN:

Media:

Air Nm³/h

Blowing-off rates at 10% above set pressure

DN	6	8	10	15
Set pressure in bar				
50			787	1867
60			941	2233
70			1095	2600
80			1250	2967
90			1404	3333
100		841	1559	3700
110		924	1713	4067
120		1008	1868	4433
130		1091	2022	4800
140		1174	2177	5167
150	495	1258	2331	5533
160	528	1341	2486	5900
170	561	1424	2640	6266
180	593	1508	2795	6633
190	626	1591	2949	7000
200	659	1674	3104	7366
210	692	1758	3258	7733
220	725	1841	3413	8100
230	757	1924	3567	8466
240	790	2008	3722	8833
250	823	2091	3876	9200
270	889	2258	4185	
290	954	2424	4494	
310	1020	2591	4803	
330	1085	2757	5112	
350	1151	2924	5421	
370	1217	3091	5730	
390	1282	3257	6039	
410	1348	3424	6348	
430	1414	3591	6657	
450	1479	3757	6966	
470	1545	3924	7275	
490	1610	4091	7584	
510	1676	4257	7893	
530	1742	4424	8202	
550	1807	4591	8511	
570	1873	4757	8820	
590	1938	4924	9129	
610	2004	5091	9438	
630	2070	5257	9747	
650	2135	5424		
700	2299	5841		
750	2463	6257		
800	2627	6674		
850	2791	7091		
900	2955	7507		
950	3119	7924		
1000	3283	8341		
1050	3447			
1100	3611			
1150	3775			
1200	3939			
1250	4103			
1300	4267			
1350	4431			
1400	4595			
1450	4759			
1500	4923			

Capacity table for ASME:

Media:

Air SCFM

Blowing-off rates at 10% above set pressure

DN	6	8	10	15
Set pressure in psi				
725			523	1176
750			540	1216
800			576	1295
900			647	1455
1000			717	1614
1100			788	1773
1200			859	1932
1300			930	2092
1400			1000	2251
1450		583	1036	2331
1500		603	1071	2410
1600		642	1142	2570
1700		682	1213	2729
1800		722	1284	2888
1900		762	1354	3047
2000		802	1425	3207
2100		841	1496	3366
2175	387	871	1549	3485
2200	392	881	1567	3525
2300	409	921	1637	3684
2400	427	961	1708	3844
2500	445	1001	1779	4003
2600	462	1041	1850	4162
2700	480	1080	1921	4321
2800	498	1120	1991	4481
2900	516	1160	2062	4640
3000	533	1200	2133	4799
3100	551	1240	2204	4958
3200	569	1279	2275	5118
3300	586	1319	2345	5277
3400	604	1359	2416	5436
3500	622	1399	2487	5596
3625	644	1449	2575	5795
4000	710	1598	2841	
5000	887	1996	3549	
6000	1064	2394	4257	
7000	1241	2792	4964	
8000	1418	3191	5672	
9000	1595	3589	6380	
9135	1619	3643	6476	
10000	1772	3987		
11000	1949	4385		
12000	2126	4783		
13000	2303	5181		
14000	2480	5580		
14500	2568	5779		
15000	2657			
16000	2834			
17000	3011			
18000	3188			
19000	3365			
20000	3542			
21000	3719			
21750	3851			