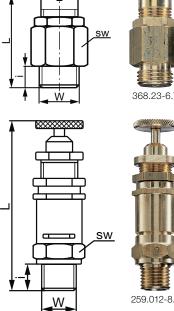
Non-component tested blow-off valves DN 3, DN 6



Non-toxic and non-flammable gases can be blown off into the atmosphere via the valve in order to ensure that pressure vessels are protected against excess pressure. The setting pressure can be specified in 0.1 bar steps when ordering. Adjustment and sealing are charged separately. The setting pressure must be specified when ordering! * Example: Order no. with individual setting pressure 6.7 bar 368.23-6.7.





Blow-off rates air

The specified blow-off quantities are reached at a pressure increase of 10 % over the setting pressure.

Setting pressure	Air blow-off rate (normal condition)		
(bar)**	m³/h	l/min	
Classic blow-off valve DN 6			
1.5	10	165	
2	13	215	
4	26	430	
6	42	700	
8	58	970	
10	74	1,230	
12	90	1,500	
Mini blow	Mini blow-off valve DN 3		
1	3	50	
4	12	200	
6	18	300	
10	30	500	
20	60	1,000	
30	90	1,500	
40	120	2,000	
50	150	2,500	
60	180	3,000	
** intermediate values can be interpolated			

Definition of terms

Setting pressure: = Response pressure: start of audible blow-off

Opening pressure:

Valve fully open, max. blow-off volume

Closing pressure: Valve closed and sealed

Opening pressure difference:

Difference between set pressure and opening pressure Closing pressure difference:

Difference between set pressure and closing pressure

Exa	amp	le:
Cot	proc	0.0

Set pressure	12 bar
Opening pressure (+10 %)	13.2 bar
Closing pressure (-10 %)	10.8 bar

Mini blow-off valves DN 3

Standard version with indication of individual setting pressure*. Adjustment protection is available on request.

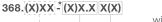
These ad M/	Cool turno	Dime	Dimensions (mm)		Setting pressure	Order Ne
Thread W	Seal type	L	i	SW(AF)		Order No.
G 1/8	NBR	27	7	16	0.2-1	368.10-*
G 1/8	NBR	27	7	16	1.1-3	368.11-*
G 1/8	NBR	27	7	16	3.1-6	368.12-*
G 1/8	NBR	27	7	16	6.1-12	368.13-*
G 1/8	NBR	27	7	16	12.1-18	368.14-*
G 1/8	NBR	27	7	16	18.1–32	368.15-*
G 1/8	NBR	27	7	16	32.1-60	368.16-*
G 1⁄4	NBR	27	7	16	0.2-1	368.20-*
G 1⁄4	NBR	27	7	16	1.1-3	368.21-*
G 1⁄4	NBR	27	7	16	3.1-6	368.22-*
G 1⁄4	NBR	27	7	16	6.1 – 12	368.23-*
G 1⁄4	NBR	27	7	16	12.1-18	368.24-*
G 1⁄4	NBR	27	7	16	18.1-32	368.25-*
G 1⁄4	NBR	27	7	16	32.1-60	368.26-*

Classic blow-off valves DN 6

Standard version with indication of individual setting pressure*. Setted valves are sealed with lead sealing. Metal-sealing valves may have a slight leakage.

Thread W	d W Seal type		Dimensions (mm)		Setting pressure	Order No.
Thread w	Seartype	L	i	SW(AF)	(bar)	Order No.
G 1⁄4	metal	78	10	17	1.5-4	259.007-*
G 1⁄4	metal	78	10	17	4-8	259.008-*
G 1⁄4	metal	78	10	17	8-12	259.009-*
G 1⁄4	NBR	78	10	17	1.5-4	259.010-*
G 1⁄4	NBR	78	10	17	4-8	259.011-*
G 1⁄4	NBR	78	10	17	8-12	259.012-*

Order key for all variants





259.XXX - (X)X.X X(X)

	 without test certificate (standard, without addition)) certificate of inspection 3.2 acc. to EN 10204:2004 production certificate 2.2 acc. to EN 10204:2004 production certificate and certificate of inspect. acc. to EN 10204:2004
	1.5-12.0 specific setting pressure (1.5-12.0 bar)
; L	Setting pressure range

Technical data

Size	DN 3		DN 6		
Thread	G 1/8	G 1⁄4	G 1/4		
Operating temperature		-10 °C up to +90 °C (NBR)/-10 °C up to +180 °C (metal) other temperature ranges available on request			
Adjustment range	1–60 bar		1.5–12 bar		
Opening pressure difference	~ 20 %		10%-15%		
Closing pressure difference	~ 20 %		15%-25%		
Mounting position		vertically			
Material housing/spring	brass/spring steel				
Material seal	NBR		metal, NBR		

Safety valves

02 | Compressed air accessories

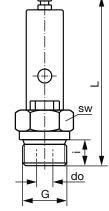
Component-tested safety valves DN 6

Safety valves are used to vent non-toxic and non-flammable gases into the atmosphere and to protect pressure vessels against excess pressure. **Notice:** Factory-set and secured safety valves are supplied with component identification. It is therefore essential that the setting pressure is indicated in bar/psi when ordering. The pressure can be specified in 0.1 bar steps. For functional testing, the safety valves can be released/vented by pulling the trigger bolt (safety valve DN 6) or by turning the knurled screw to the left (safety valves DN 8 and DN 10). On safety valves DN 8 and DN 10, the bearing surfaces and sealing cones can be cleaned by screwing off the entire upper part–without changing the pressure setting. Repairs may only be done by the manufacturer. Applied standards and regulations: DIN EN ISO 4126-1, AD 2000-Handout A2, DGR 2014/68/EU.

Standard version: with indication of the specific setting pressure*

Thread C	Dimensions (mm)				Setting pres-	Ouden Ne
Thread G	L	i	SW(AF)	do	sure range (bar)	Order No.
G 1⁄4	60	10	17	6	4.5-7	469.23-*
G 1⁄4	60	10	17	6	7.1 – 10	469.24-*
G 1⁄4	60	10	17	6	10.1 – 13	469.25-*
G 1⁄4	60	10	17	6	13.1 – 18	469.26-*
G 1⁄4	60	10	17	6	18.1-24	469.27-*
G 3⁄8	60	10	19	6	4.5-7	469.33-*
G 3⁄8	60	10	19	6	7.1 – 10	469.34-*
G 3/8	60	10	19	6	10.1 – 13	469.35-*
G 3/8	60	10	19	6	13.1 – 18	469.36-*
G 3/8	60	10	19	6	18.1-24	469.37-*





Order key for all variants

469.XX - (X)X.X X(X)

without test certificate (standard, without addition)
T certificate of inspection 3.2 acc. to EN 10204:2004
production certificate 2.2 acc. to EN 10204:2004
ET production certificate and certificate of inspect. acc. to EN 10204:2004

4.5-24.0 specific setting pressure (4.5-24.0 bar)

----- Setting pressure range

Technical data

Thread	G 1/4	G 3%
Operating temperature	-10 °C up	to +150 °C
Adjustment range	4.5 up to 24	bar (5 Levels)
Opening pressure difference	< 7	0%
Closing pressure difference	< 10 %	
Mounting position	vertically	
Material housing	brass	
Material seal	FKM (Viton)	
Material spring	spring steel	
Max. tightening torque (valve installation)	15 Nm	25 Nm

CE2266 SV 02 3 6 D/G 0.4 P CE2266 SV 02 3 6 D/G 0.4 P flow coefficient suitable for gases and vapours narrowest flow diameter (mm) component number year of approval safety valve designated (german) inspection agency

should not be < DN 6, the pressure drop in the supply line may not be > 3%. The setting pressure must be specified when ordering!

The supply line to the safety valve

*Sample order no. with specific setting pressure 4.7 bar 469.23-4.7 (see order key), with production certificate 469.23-4.7E, with certificate of inspection 469.23-4.7T

Blow-off rates air

Notice

The specified blow-off quantities are reached at a pressure increase of 10 % over the setting pressure.

Setting pressure	Air blow-off ra (normal condi	
(bar)**	m³/h	l/min
6	45.5	763
10	92	1,540
11	100	1,681
14	126	2,104
16	143	2,387
18	160	2,696
20	177	2,951
22	194	3,234
24	211	3,516

** intermediate values can be interpolated

Definition of terms

Setting pressure: = Response pressure: start of audible blow-off

Opening pressure:

Valve fully open, max. blow-off volume

Closing pressure: Valve closed and sealed

Opening pressure difference: Difference between set pressure and opening pressure.

Closing pressure difference: Difference between set pressure and closing pressure

Example:

Setting pressure	12 bar
Opening pressure (+10 %)	13.2 bar
Closing pressure (-10 %)	10.8 bar

Safety valves



Factory-set and secured safety valves are supplied with component identification. The pressure can be specified in 0.1 bar steps. Applied standards and regulations: DIN EN ISO 4126-1, AD 2000-Handout A2, DGR 2014/68/EU.



Notice

The supply line to the safety valve should not be < DN 8, the pressure drop in the supply line may not be > 3 %. The set pressure must be specified when ordering!

*Sample order no. with specific setting pressure 4.7 bar 351.224-4.7 (see order key), with production certificate 351.224-4.7E, with certificate of inspection 351.224-4.7T

Blow-off rates air

The specified blow-off quantities are reached at a pressure increase of 10 % over the setting pressure.

Setting pressure	Air blow-off rate (normal condition)		
(bar)**	m³/h	l/min	
1	23.5	394	
2	35.5	592	
4	59	985	
6	63	1,380	
8	106	1,773	
10	130	2,168	
12	154	2,562	
14	177	2,957	
16	201	3,350	
18	225	3,745	
20	248	4,138	
22	272	4,533	
25	307	5,124	
30	367	6,110	
35	426	7,095	
40	485	8,080	

** intermediate values can be interpolated

Definition of terms Setting pressure: = Response pressure: start of audible Opening pressure: Valve fully open, max. blow-off volume Closing pressure: Valve closed and sealed Opening pressure difference: Difference between set pressure and c Closing pressure difference: Difference between set pressure and c Example: Setting pressure 12 bar Opening pressure (+10%) 13.2 bar Closing pressure (-10 %) 10.8 bar

Thread G	Dimen	Dimensions (mm)				Order No.
Inread G	L	i	SW (AF)	do	Setting pres- sure range (ba	ir) Order No.
G 1⁄4	85	10	20	8	1-1.5	351.221-*
G 1⁄4	85	10	20	8	1.6-2	351.222-*
G 1⁄4	85	10	20	8	2.1-3	351.223-*
G 1⁄4	85	10	20	8	3.1-5	351.224-*
G 1⁄4	85	10	20	8	5.1-7	351.225-*
G 1⁄4	85	10	20	8	7.1-9	351.226-*
G 1⁄4	85	10	20	8	9.1-15	351.227-*
G 1⁄4	90	10	20	8	15.1-20	351.421-*
G 1⁄4	90	10	20	8	20.1-27	351.422-*
G 1⁄4	90	10	20	8	27.1-40	351.423-*
G 3/8	85	10	20	8	1-1.5	351.241-*
G 3/8	85	10	20	8	1.6-2	351.242-*
G 3/8	85	10	20	8	2.1-3	351.243-*
G 3/8	85	10	20	8	3.1-5	351.244-*
G 3/8	85	10	20	8	5.1-7	351.245-*
G 3/8	85	10	20	8	7.1–9	351.246-*
G 3/8	85	10	20	8	9.1-15	351.247-*
G 3/8	90	10	20	8	15.1-20	351.441-*
G 3/8	90	10	20	8	20.1-27	351.442-*
G 3/8	90	10	20	8	27.1-40	351.443-*
G 1/2	87	12	24	8	1-1.5	351.251-*
G 1/2	87	12	24	8	1.6-2	351.252-*
G 1/2	87	12	24	8	2.1-3	351.253-*
G 1/2	87	12	24	8	3.1-5	351.254-*
G 1/2	87	12	24	8	5.1-7	351.255-*
G 1/2	87	12	24	8	7.1-9	351.256-*
G 1/2	87	12	24	8	9.1 – 15	351.257-*
G 1/2	92	12	24	8	15.1-20	351.451-*
G 1/2	92	12	24	8	20.1-27	351.452-*
G 1/2	92	12	24	8	27.1-40	351.453-*

Standard version: with indication of the specific setting pressure*

Order key for all variants

351.XXX - (X)X.X X(X)

_ without test certificate (standard, without addition)

certificate of inspection 3.2 acc. to EN 10204:2004

E production certificate 2.2 acc. to EN 10204:2004

ET production certificate and certificate of inspect. acc. to EN 10204:2004

1.0–40.0 specific setting pressure (1.0–40.0 bar)

----- Setting pressure range

Т

Technical data

Г

Thread	G 1⁄4		G 3⁄8	G 1⁄2	
Operating temperature		-10 °C up to +180 °C			
Adjustment range		1-	40 bar (10 Lev	els)	
Opening pressure difference			< 10 %		
Closing pressure difference	<	: 10 %	(under 3 bar ≤	0.3 bar)	
Mounting position			vertically		
Material housing/seal/spring	bra	ass/FK	M (Viton)/stair	nless steel	
Max. tightening torque (valve installation)	15 N	m	25 Nm	35 Nm	

Component symbols

plow-off	CE2266 SV	02	2	8	D/G 0.32	Ρ	
510W-011							setting pressure (bar)
							flow coefficient
							suitable for gases and vapours
pening pressure							narrowest flow diameter (mm)
							component number
losing pressure							year of approval
							safety valve
							designated (german) inspection agency



Component-tested safety valves DN 10

Factory-set and secured safety valves are supplied with component identification. The pressure can be specified in 0.1 bar steps. Applied standards and regulations: DIN EN ISO 4126-1, AD 2000-Handout A2, DGR 2014/68/EU.

Standard version: with indication of the specific setting pressure*

	Dimonsi	ions (mm)			0.445.000.000	
Thread G	L		/	do	Setting pres- sure range (bar)	Order No.
G 1/2	120	12	27	10	2-3.6	351.261-*
G 1⁄2	120	12	27	10	3.7-5	351.262-*
G 1⁄2	120	12	27	10	5.1-7	351.263-*
G 1/2	120	12	27	10	7.1-8.5	351.264-*
G 1/2	120	12	27	10	8.6-11.5	351.265-*
G 1/2	120	12	27	10	11.6-16	351.266-*
G 1/2	120	12	27	10	16.1-22	351.267-*
G 3⁄4	120	12	30	10	2-3.6	351.271-*
G 3⁄4	120	12	30	10	3.7-5	351.272-*
G 3⁄4	120	12	30	10	5.1-7	351.273-*
G 3⁄4	120	12	30	10	7.1-8.5	351.274-*
G 3⁄4	120	12	30	10	8.6-11.5	351.275-*
G 3⁄4	120	12	30	10	11.6-16	351.276-*
G 3⁄4	120	12	30	10	16.1-22	351.277-*

Order key for all variants

351.XXX - (X)X.X X(X)

without test certificate (standard, without addition)

T certificate of inspection 3.2 acc. to EN 10204:2004

E production certificate 2.2 acc. to EN 10204:2004

ET production certificate and certificate of inspect. acc. to EN 10204:2004

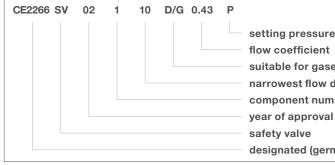
2.0–22.0 specific setting pressure (2.0–22.0 bar)

---- Setting pressure range

Technical data

Thread	G 1/2	G 3⁄4
Operating temperature	-10	°C up to +180 °C
Adjustment range	2 up 1	to 22 bar (7 Levels)
Opening pressure difference		< 10 %
Closing pressure difference	< 10 % ((under 3 bar ≤0.3 bar)
Mounting position		vertically
Material housing/seal/spring	brass/FKI	V (Viton)/ stainless steel
Max. tightening torque (valve installation)	35 Nm	50 Nm

— Component symbols –



setting pressure (bar)
 flow coefficient
 suitable for gases and vapours
 narrowest flow diameter (mm)
 component number
 year of approval
 safety valve
 designated (german) inspection agency



Notice

The supply line to the safety valve should not be < DN 10, the pressure drop in the supply line may not be > 3%. The set pressure must be specified when ordering!

* Sample order no. with specific setting pressure 2.7 bar 351.261-2.7 (see order key), with production certificate 351.261-2.7E, with certificate of inspection 351.261-2.7T

Blow-off rates air

The specified blow-off quantities are reached at a pressure increase of 10 % over the setting pressure.

Setting pressure	Air blow-off rate (normal condition)				
(bar)*	m³/h	l/min			
2	74.5	1,242			
4	124	2,068			
6	174	2,895			
8	223	3,722			
10	273	4,548			
12	323	5,377			
14	372	6,203			
16	422	7,032			
18	471	7,858			
20	521	8,685			
22	571	9,513			

*intermediate values can be interpolated

Definition of terms

Setting pressure: = Response pressure: start of audible blow-off Opening pressure: Valve fully open, max. blow-off volume Closing pressure: Valve closed and sealed Opening pressure difference: Difference between set pressure and opening pressure Closing pressure difference: Difference between set pressure and closing pressure Example: Setting pressure 12 bar Opening pressure (+10 %) 13.2 bar Closing pressure (-10 %) 10.8 bar

Component-tested high-performance safety valve G1-G2



Safety valves are used to vent non-toxic and non-flammable gases into the atmosphere to protect pressure vessels. The valves can only be supplied adjusted, therefore the set pressure must be specified when ordering. After adjustment, the valves are marked and sealed with a sealing cap. For functional testing, the safety valves can be vented by turning the knurled screw to the left. Bearing surfaces and sealing cones can be cleaned by screwing off the entire upper part (using a strap wrench)–without changing the pressure setting. Repairs may only be carried out by the manufacturer.

CE Safety valve D/G

The spring-loaded safety valves come with a very high blow-off capacity. They are used to protect pressure vessels and pressure systems for air and other neutral, non-toxic and non-flammable gases.

Thread W	Dimensio	ns (mm)		Setting pres-		
	L	i	SW(AF)	DN	Setting pres- sure range (bar)	Order No.
G1	177	15	41	24	0.2-50	352.00-*
G1¼	215	22.5	55	31	0.2-30	352.10-*
G11/2	215	22.5	55	31	0.2-30	352.20-*
G2	282	26	80	48	0.2-30	352.30-*

Safety valve F/K/S

The valves have a stainless steel protective cover. The spring chamber is separated from the medium. This design enables the protection of stationary pressure vessels for granular and powdery goods as well as for vehicle containers with liquid, granular and powdery goods.

Thread W	Dimensio	ns (mm)		Setting pres-		
Thread w	L	i	SW(AF)	DN	Setting pres- sure range (bar)	Order No.
G1	177	15	41	24	0.2-6	352.40-*
G 1 1⁄4	215	22.5	60	32	0.2-6	352.50-*
G 1 1/2	215	22.5	60	32	0.2-6	352.60-*
G2	282	26	80	48	0.2-6	352.70-*

Order key for all variants



Technical data

Thread	G1	G1¼	G1½	G2
Operating temperature		-10 °C up	o to +200 °C	
Adjustment range model D/G		0.2 up to	30 (50) bar	
Adjustment range model F/K/S		0.2 up	to 6 bar	
Opening pressure difference		<	10 %	
Closing pressure difference		<	10 %	
Mounting position	vertically, upright			
Material housing, top section, inner parts	b	rass (stainless	s steel on requ	iest)
Material seal	FKN	/I (Viton) (NBR	or PTFE on re	equest)
Material pressure spring, protective cover		stainle	ess steel	
Max. tightening torque (valve installation)	60 Nm	80 Nm	80 Nm	80 Nm

Compor	nent symbols ———	
	05 2003 DN D/G 0.xx F/K/S	P setting pressure (bar) flow coefficient (0.01–0.99) suitable for* narrowest flow diameter (mm) component number year of approval safety valve designated (german) inspection agency

*D/G for gases and vapours, F/K/S for blowing off air from containers for liquid, granular or dusty media TÜV–Component certification: 2003

top section SW housing

top section

Щ

DN W

352.60-2.2

352.00-18.0

Notice

Stainless steel versions or NBR or PTFE seals are also available on Request. The set pressure must be specified when ordering!

*Sample order no. with specific setting pressure 22.5 bar 352.10-22.5 (see order key), with production certificate 352.10-22.5E, with certificate of inspection 352.10-22.5T

Definition of terms
Setting pressure: = Response pressure: start of audible blow-off
Opening pressure: Valve fully open, max. blow-off volume
Closing pressure: Valve closed and sealed
o : ""

Opening pressure difference: Difference between set pressure and opening pressure

Closing pressure difference: Difference between set pressure and closing pressure

Example:

Setting pressure	12 bar
Opening pressure (+10 %)	13.2 bar
Closing pressure (-10 %)	10.8 bar