

# Safety Valves

## Type 50051.0011



**Safety Valves, angle type, brass, type tested TÜV-SV.1009. D/G**

Standard safety valve  
with EPDM valve seal for vapours and gases  
open bonnet, with lifting device  
Outlet: female thread M15x1 with installed hose nozzle  
Inlet: male thread type G (BSPP) acc. to ISO 228/1

**Part No. 50051.0011.0000**

Available options - on request only:

- hose nozzle acc. to customer specification
- body material CW509L

### Applications:

Provided as safety device for protection against excessive pressure in pressure vessels, especially for coffee machines.

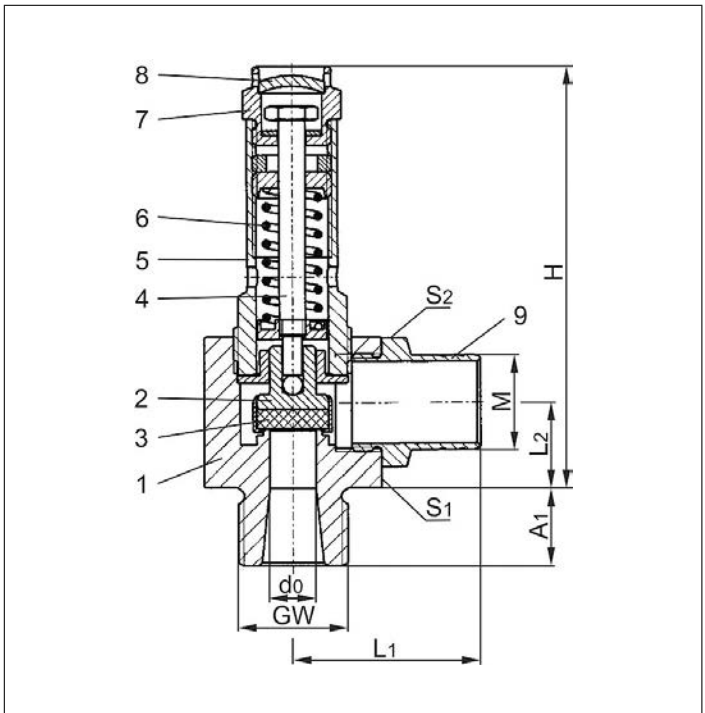
Approved for non-toxic gases and vapours.

Working temperature: -10°C / +14°F (263K) up to +160°C / +320°F (433K)

For saturated steam use only up to 4 bar and +150°C / +302°F (423K)



Materials	DIN EN	ASTM
1 Body	CW614N	B 249 UNS C38500
2 Disc	CW614N	B 249 UNS C38500
3 Valve seal	EPDM	
4 Stem	CW614N	B 249 UNS C38500
5 Bonnet	CW614N	B 249 UNS C38500
6 Spring	1.4571	A 313 Grade 316Ti
7 Lifting device	CW614N	B 249 UNS C38500
8 Closing cap	CC507L	B 36 UNS C26800
9 Hose nozzle	CW614N	B 249 UNS C38500



**Essential:** Valves are delivered at a set pressure, therefore when ordering please confirm set pressure, medium and temperature.

Standard marking acc. to Pressure Equipment Directive 97/23/EC (PED).



Type 50051.0011	Technical data	
<b>Nominal size</b>	<b>GW</b>	<b>3/8</b>
Orifice	d <sub>0</sub>	7
Set pressure range	bar	1.5-5.0
Hose nozzle-Ø	M	14.5
Height	H	64
Length	L <sub>1</sub>	28.5
Length	L <sub>2</sub>	13
Length	A <sub>1</sub>	12
Wrench size across flats	S <sub>1</sub>	27
Wrench size across flats	S <sub>2</sub>	17
Weight	ca. kg	0.16
Coeff. of discharge from 2.0 bar	α <sub>w</sub>	0.42

Dimensions in mm.

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### Discharge capacities

Calculation of mass flow acc. to AD2000-Merkblatt A2

Medium:

**Air** in m<sup>3</sup>/h at 0°C and 1013.25 mbar

**Saturated steam** in kg/h

**The capacity indicated below is for a fully opened valve.**

d<sub>0</sub> - orifice

A<sub>0</sub> - flow area

Set pressure in bar (g)	GW	3/8	3/8
	d <sub>0</sub> (mm)	7.0	7.0
	A <sub>0</sub> (mm <sup>2</sup> )	38.48	38.48
	Medium	Air	Saturated steam
1.5		28	22
2.0		35	27
2.5		41	32
3.0		47	37
3.5		53	41
4.0		59	46
4.5		65	51
5.0		72	55