

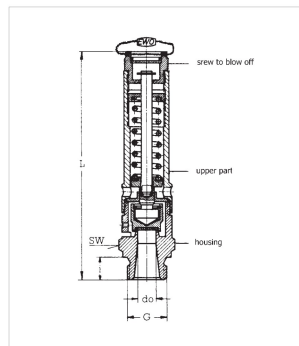
Component-tested safety valves DN 10



Safety valves serve to blow out non-poisonous and non-flammable gases into the atmosphere in order to protect pressure tanks against overpressure.

Please note: Only safety valves that have been set and sealed with lead (plumbed) by us can be delivered with the component symbols, it is thus absolutely necessary to indicate the setting pressure in bar. To test their proper functioning, safety valves can be relieved by turning the knurled (thumb) screw to the left. The bearing surfaces and conical seals can be cleaned of impurities by unscrewing the entire upper part - **without** changing the pressure setting. Repairs may only be carried out by the manufacturer.

Connection threads W	Dimensions [mm]				Set pressure [bar]	Order No.
L	i	SW	do			
G ^{1/2}	120	12	27	10	2,0 - 3,6	351.261
					3,6 - 5,0	351.262
					5,0 - 7,0	351.263
					7,0 - 8,5	351.264
					8,5 - 11,5	351.265
					11,5 - 16,0	351.266
G ^{3/4}	120	12	30	10	16,0 - 22,0	351.267
					2,0 - 3,6	351.271
					3,6 - 5,0	351.272
					5,0 - 7,0	351.273
					7,0 - 8,5	351.274
					8,5 - 11,5	351.275
					11,5 - 16,0	351.276
					16,0 - 22,0	351.277



Technical data

Connection thread	G ^{1/2} , G ^{3/4}
Operating temperature	-10 °C up to +180 °C
Setting range	2 up to 22 bar (7 steps)
Opening pressure difference	< 10 %
Closing pressure difference	< 10 % (under 3 bar ≤ 0,3 bar)
Built-in position	vertical
Material	brass
Seal	FKM (viton)
Leading	aluminum
Locking torque (valve installation)	13 Nm

Important: The supply connection to the safety valve should not be < DN6, the pressure drop in the supply connection not > 3%.

Definitions

Set pressure (start-to-leak):	beginning of <i>audible</i> leaking
Opening pressure:	valve completely open, max. blow-off / deflation
Closing pressure:	valve is closed and sealed (tight)
Opening pressure difference:	difference between start-to-leak pressure and opening pressure
Closing pressure difference:	difference between start-to-leak pressure and closing pressure

For example:	set pressure	12,0 bar
	opening pressure (+10 %)	13,2 bar
	closing pressure (-10 %)	10,8 bar

Component symbols

CE0685	SV	02	1	10	D/G	0,43	P	
								pressure setting (bar)
								flow factor
								suitable for gases and vapors
								narrowest flow diameter (mm)
								component number
								year of approval
								safety valve
								German technical inspection in this case: DEKRA

Exhaust capacity air

The exhaust capacities indicated in the table are the minimum values reached when air pressure is raised by 10 % above the set pressure.

Set pressure [bar]	Exhaust flow capacity (normal conditioning)	
	[m³/h]	[l/min]
2	74,5	1242
4	124	2068
6	174	2895
8	223	3722
10	273	4548
12	323	5377
14	372	6203
16	422	7032
18	471	7858
20	521	8685
22	571	9513

Intermediate values can be interpolated.

Locking torques

Connection threads	Max. locking torques
G ^{1/2}	35 Nm
G ^{3/4}	50 Nm