



Braukmann SM120

Diaphragm safety valve
for closed heating or solar systems

APPLICATION

The SM120 diaphragm safety valve provides the last line of security for heating systems if the prescribed safety controls fail. In an emergency they must therefore have the capacity to discharge the whole contents of a cylinder in the form of steam. In normal system use they do not come into operation.

SPECIAL FEATURES

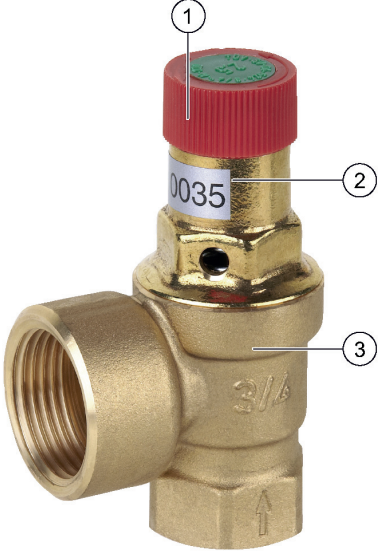
- Certified to Pressure Equipment Directive 2014/68/EU, reference no.: CE 0035
- For heating systems according to EN 12828, EN ISO 4126-1 and EN 2516-2
- For large output systems up to three valves can be fitted in parallel with separated discharges
- Protected against subsequent resetting
- Replacement insert makes servicing simple
- Easy venting
- Standardised discharge connection



TECHNICAL DATA

Media	
Medium:	Water
Connections/Sizes	
Connection sizes:	R 1/2" to R1 1/4"
Operating temperatures	
Flow temperature:	max. 120 °C (248 °F)
Specifications	
Capacity:	50 - 300 kW
The valve size is determined by the size of the inlet connection.	
Closed heating or solar systems. Not suitable for water storage heaters.	

CONSTRUCTION

Overview		Components	Materials
	1	Venting knob	High-quality synthetic material
	2	Spring bonnet	Brass
	3	Housing	Brass
	Not depicted components:		
		Diaphragm	Hot water resistant elastomer
		Seal disc	Hot water resistant elastomer

METHOD OF OPERATION

The diaphragm safety valve is normally closed. If the pressure in the boiler exceeds the set pressure of the safety valve, then the force against the valve disc exceeds the force exerted by the spring and the valve opens.

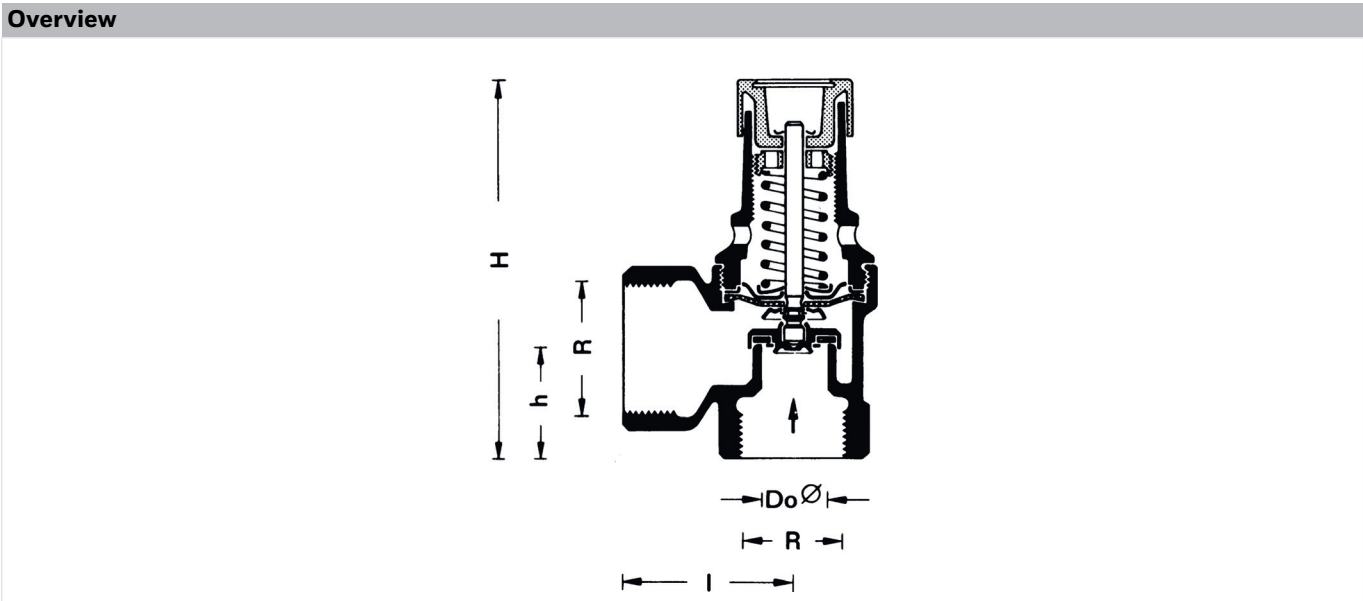
TRANSPORTATION AND STORAGE

Keep parts in their original packaging and unpack them shortly before use.
The following parameters apply during transportation and storage:

Parameter	Value
Environment:	clean, dry and dust free
Min. ambient temperature:	5 °C
Max. ambient temperature:	55 °C
Min. ambient relative humidity:	25 % *
Max. ambient relative humidity:	85 % *

*non condensing

DIMENSIONS



Parameter		Values			
Connection size Inlet:	R	1/2" IG	3/4" IG	1" IG	1 1/4" IG
Connection size Outlet:	R	3/4" IG	1" IG	1 1/4" IG	1 1/2" IG
Dimensions:	H	93	99	137	144
	h	28	34	41	47
	I	36	42	51	57
	Ø D _o	15	16	22	27
Weight:	Kg	0.3	0.4	0.9	1.1
Maximum permissible heat input:	kW	50	100	200	300
TÜV Approval Nos.	TÜV SV 14-524				

Note: All dimensions in mm unless stated otherwise.

ORDERING INFORMATION

The following tables contain all the information you need to make an order of an item of your choice. When ordering, please always state the type, the ordering or the part number.

Options

The valve is available in the following sizes: 1/2", 3/4", 1" and 1 1/4".

- standard
- not available

		SM120-... A	SM120-... B
Set pressure:	2.5 bar	•	–
	3.0 bar	–	•

Note: ... = space holder for connection size
Note: Ordering number example for 1" and type A valve: SM120-1A



Manufactured for
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