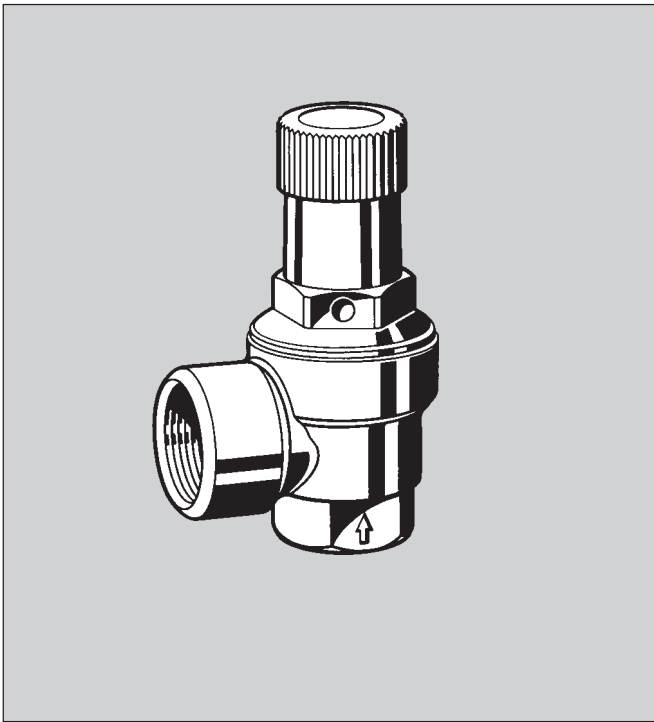


SM 120

Diaphragm safety valve for closed heating and solar installations

Product specification sheet



Construction

The safety valve comprises:

- Housing
- Spring bonnet
- Diaphragm
- Seal disc
- Venting knob

Materials

- Brass housing and spring bonnet
- Hot water resistant elastomer diaphragm and seal disc
- High quality synthetic material venting knob

Application

The SM 120 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

- For heating systems to DIN 4751
- Construction tested to TRD 721
- Protected against subsequent resetting
- For large output systems up to three valves can be fitted in parallel with separated discharges
- With venting facility

Range of Application

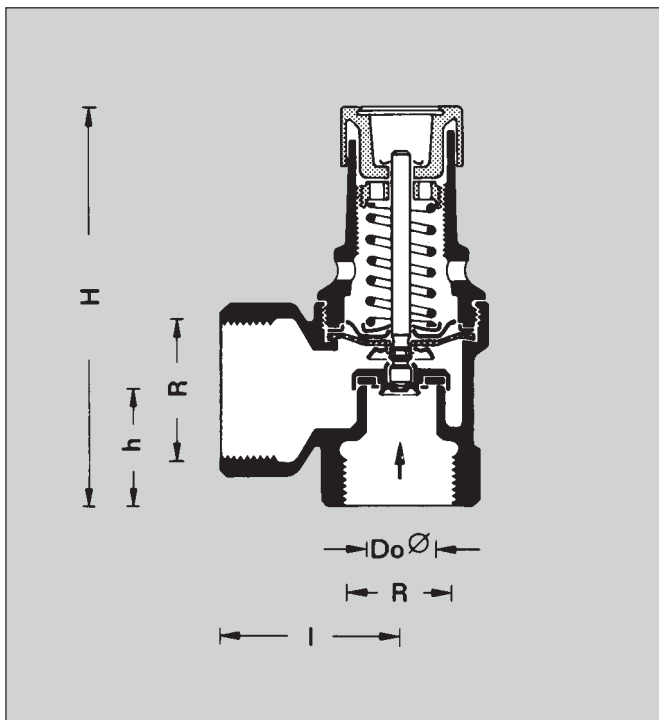
Closed heating or solar systems

Not suitable for water storage heaters

Technical Data

Flow temperature	max. 120 °C
Capacity	50 - 350 kW (45 000 - 300 000 kcal/h)
Connection sizes	R 1/2" to R 1 1/4"

The valve size is determined by the size of the inlet connection



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.


Versions

SM 120 - . . . A = Set pressure 2.5 bar, for closed heating systems

SM 120 - . . . B = Set pressure 3.0 bar, for closed heating systems

SM 120 - 1/2 C = Set pressure 6.0 bar, for closed solar systems

SM 120 - . . . Z = Set pressure 2.5 to 6.0 bar (Please state pressure required when ordering)

 Inlet connection size

Connections R Inlet Outlet	Dimensions (mm)					Weight kg	Set pressure 2.5 bar		Part No.
	H	h	l	Do	kW		kcal/h		
1/2" 3/4"	93	28	36	15	0.3	50	45 000	SM 120 - 1/2 A	
3/4" 1"	99	34	42	16	0.4	100	90 000	SM 120 - 3/4 A	
1" 1 1/4"	137	41	51	22	0.9	200	175 000	SM 120 - 1 A	
1 1/4" 1 1/2"	144	47	57	27	1.1	350	300 000	SM 120 - 1 1/4 A	
							Set pressure 3.0 bar		
1/2" 3/4"	93	28	36	15	0.3	50	45 000	SM 120 - 1/2 B	
3/4" 1"	99	34	42	16	0.4	100	90 000	SM 120 - 3/4 B	
1" 1 1/4"	137	41	51	22	0.9	200	175 000	SM 120 - 1 B	
1 1/4" 1 1/2"	144	47	57	27	1.1	350	300 000	SM 120 - 1 1/4 B	
							Set pressure 6.0 bar		
1/2" 3/4"	93	28	36	15	0.3	100	90 000	SM 120 - 1/2 C	
							Set pressure 2.5- 6.0 bar		
1/2" 3/4"	93	28	36	15	0.3	100	90 000	SM 120 - 1/2 Z	