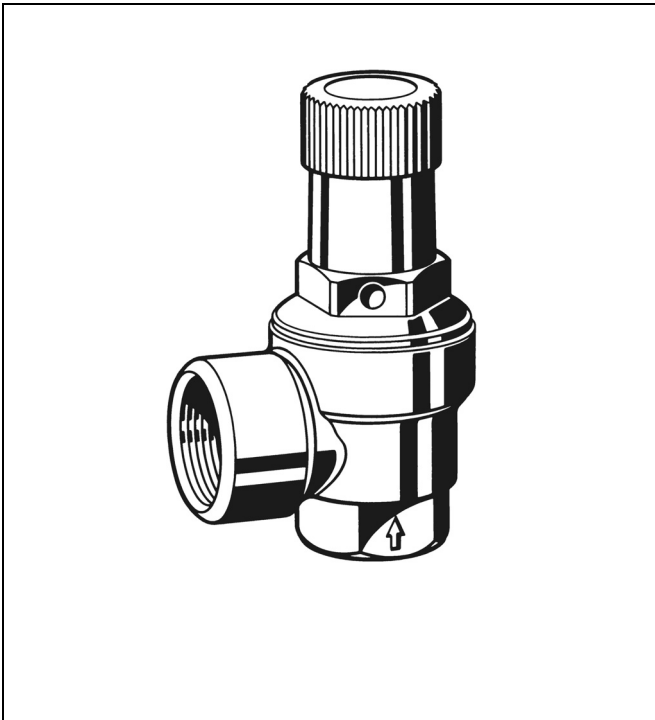


SM120

Diaphragm Safety Valve for closed heating or solar systems

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 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

- 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

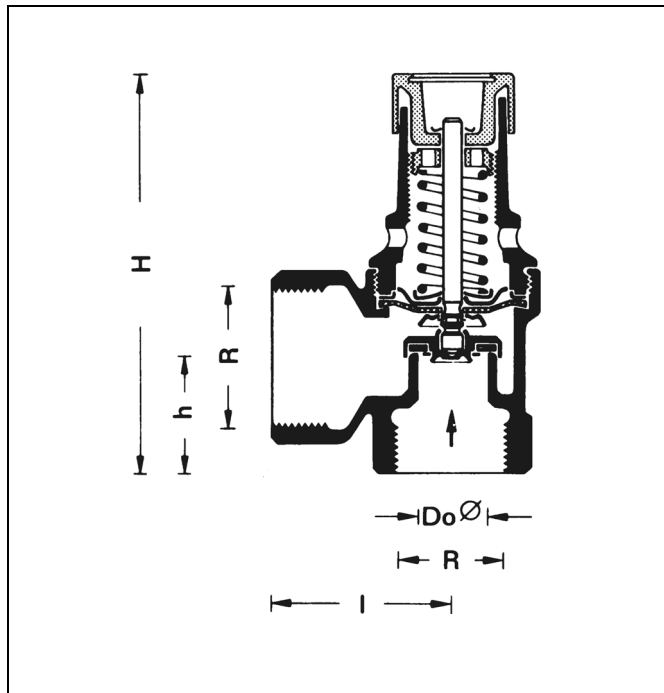
Range of Application

Closed heating or solar systems. Not suitable for water storage heaters.

Technical Data

Flow temperature	max. 120 °C (248 °F)
Capacity	50 - 350 kW (45 000 - 300 000 kcal/h)
Connection size	R 1/2" to R1 1/4"

NOTE: 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.

Options

SM120- ... A = Set pressure 2.5 bar,
for closed heating systems

SM120- ... B = Set pressure 3.0 bar,
for closed heating systems

└ Connection size

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	(mm)				
	H	93	99	137	144
	h	28	34	41	47
	l	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	350
	kcal/h	45 000	90 000	175 000	300 000