

成春機械私人有限公司

SENG CHOON ENGINEERING PTE LTD



Flexvent® automatic air vent



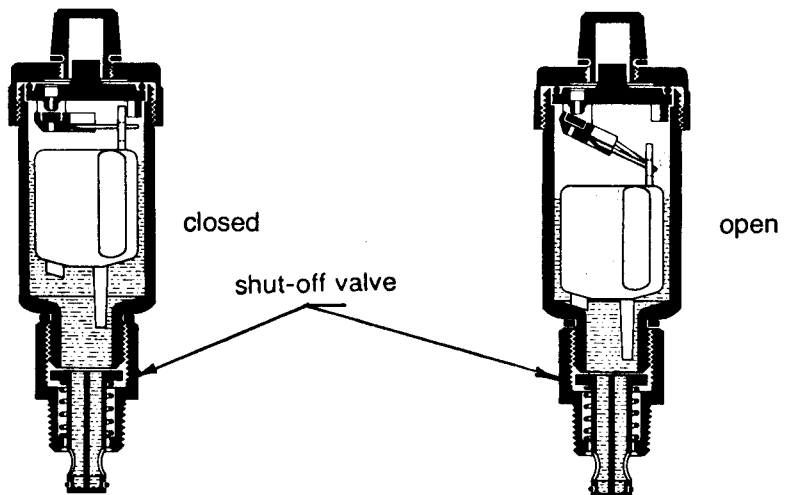
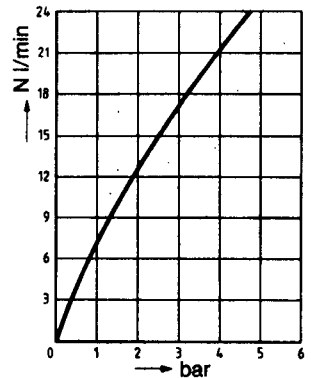
The Flexvent is an automatic air relieving device which has been developed through extensive research. It is extremely reliable in operation and easy to install.

Application

The Flexvent can be used in either a sealed or open system, whether hot or cold. The maximum operating temperature is 120°C and maximum operating pressure is 10 bar. Wherever air is likely to occur in a system, a Flexvent should be fitted thus eradicating the problem. This enables filling and venting a system to be carried out more efficiently. Effective venting means lower maintenance costs.

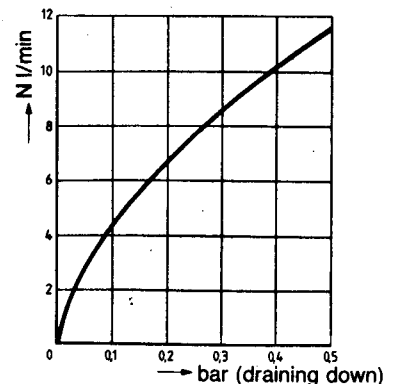
Operation

When air is present in the Flexvent, the float descends within the body of the Flexvent, thus opening the air valve, enabling the accumulated air to escape. The quantity of air which is released depends on the prevailing pressure. The adjacent graph shows the ratio of air released in N l/min to prevailing pressure in bar at 0°C.



When there is no more air present in the system, water will enter the Flexvent. The float becomes buoyant and shuts off the air release valve. A small quantity of air is retained within the body of the Flexvent providing an air cushion which protects the air release valve against water spray.

During the draining down of a system the Flexvent acts as a vent. The adjacent graph shows the ratio between the quantity of air entering, to the prevailing reduction of pressure.



Flexvent® automatic air vent



Construction

The body of the Flexvent is made of brass. It can be dismantled to enable cleaning to be carried out. Other parts of the Flexvent are made of plastic or corrosion resistant steel as appropriate to their function. The Flexvent is supplied complete with a brass shut-off valve threaded 3/8".

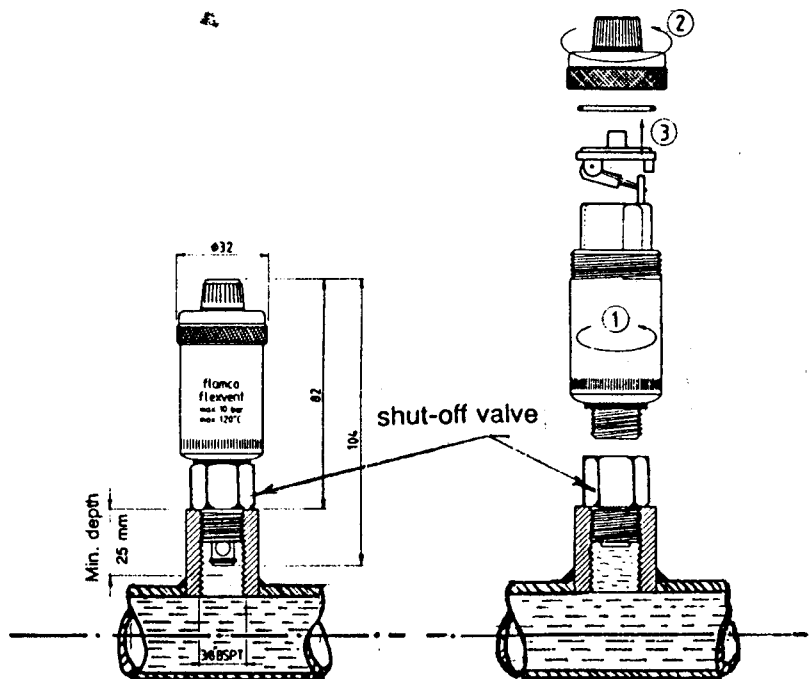
The Flexvent can be removed without having to drain the system. Unscrewing the Flexvent quickly ensures a rapid closure of the shut-off valve. Conversely rapid screwing in of the Flexvent opens the shut-off valve.

Installation

The Flexvent must always be fitted vertically. The Flexvent can be installed:

- on the Flexair air separator
- on the boiler
- as a tube venting device
- in the circuit of the hot water cylinder when it operates by gravity
- at any point where air is likely to collect.

The Flexvent is mounted on the shut-off valve when supplied. **Tools may only be used on the brass shut-off valve.** The Flexvent must only be turned by hand into the shut-off valve, and must be sufficient to ensure proper functioning of the shut-off valve (see drawing). To put the Flexvent into operation the dust cap on top of the valve has to be turned loose 1 turn. When the system has to be set at a pressure higher than the 10 bar allowed, this should take place before installation of the Flexvent with shut-off valve.



Maintenance

Due to its construction the Flexvent requires hardly any maintenance.

Leakages are mostly the result of pollution of the air valve.

To clean the Flexvent the body has to be unscrewed from the shut-off valve. (1)

The body can be opened by unscrewing the ring. (2)

The cover with mechanism and float are then removed. (3)

Subsequently the float is disconnected from the spring.

Valve and seat are then free to be cleaned.

Installation is carried out in reverse order.



Sole Agent:

Seng Choon Engineering Pte. Ltd.

30-32 Cavan Road, Singapore 0820, Tel: 2988633 (5 Lines)
Telex: RS 25828 SCHOON, Fax: 2971852.