



# VASASLETTE SERIES DEGASSERS

CT0037.1\_00  
UK  
July 2008



## PRODUCTION RANGE

### VASASLETTE DEGASSERS WITH HEAD PROTECTION CAP

Figure	Code	Component	Size A	Size B	Connection	Type
B	37.05.70	Degasser	3/4"	1/2"	FF UNI-EN-ISO 228	Vasaslette



## DESCRIPTION

*Vasaslette is an automatic float operated air relief valve.*

### **PURPOSE**

The pressure chamber has been designed to prevent contact between the impurities present on the free surface of the fluid and the seal device, especially at the pump start-up (pickup). It acts as a deaerator during the system filling phase, changing its function to a degasser during operation. Due to its guaranteed top level operation, this component should be considered as a safety device for systems.

### **THE PRODUCTION RANGE**

The Vasaslette air relief valve is produced in just one model with 3/4" connections on the system side and 1/2" connections on the air vent side.

### **USE**

The item has been designed for application on the service pipe of heating and air conditioning systems. For the high level mechanical resistance of the part, it is also used on mains water service pipes. It is an excellent replacement for "breakaway tanks" located on buildings for the purpose of disconnecting the mains supply from the service line, preventing the latter from returning to the mains system in the event of a drop in water pressure. When used on water service lines, it removes residual chlorine from the water preventing the start of galvanic processes and the perforation of pipes in the presence of modest stray currents (10 – 50 mA).

### **NOTES**

The air vent area is shaped in such a way that an elbow pipe can be inserted to enable the condensate to be expelled when it is carried with the air leaving the system. This condensate should be channelled into plastic polymer pipes that run into the drainage system.

## CONSTRUCTION CHARACTERISTICS

- Casing: Nickel-plated brass CW 617N UNI EN 12165
- Elastomers used: EPDM and NBR
- Float: lever type made of polypropylene resin
- Spring: stainless steel AISI 302
- Surface finish: Nickel-plated satin finish
- Threaded connection: FF UNI-EN-ISO-228

## TECHNICAL CHARACTERISTICS

- Usable fluid: Water  
Water + Glycol 30%
- Maximum temperature of the fluid: 100°C
- Maximum working pressure: 600 KPa (6 bar)
- Maximum pressure withstood: 1000 KPa (10 bar)

## AUXILIARY COMPONENTS

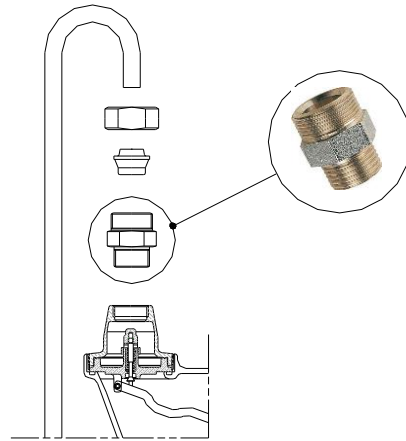
Example of the application of the device to transfer acid condensate in heating systems and chlorine gas for water systems.

Connection by means of a 1/2" (M) fitting – RBM (M)

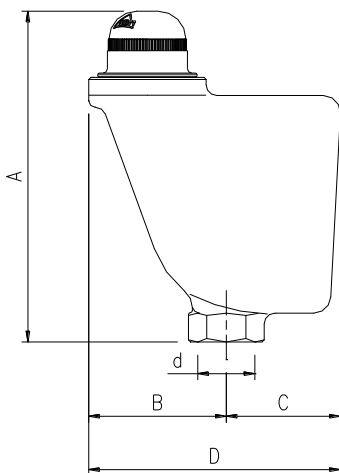
Art. code **83.04.00**

CHARACTERISTICS:

- Max. temperature: 110°C
- Max. working pressure: 1000 KPa (10 bar)

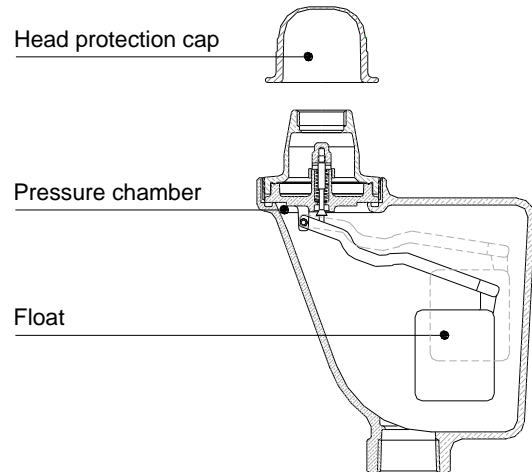


## SIZES



CODE	d	A	B	C	D
37.05.70	G 3/4"	156	64,5	53,5	118

*The sizes shown are in mm*

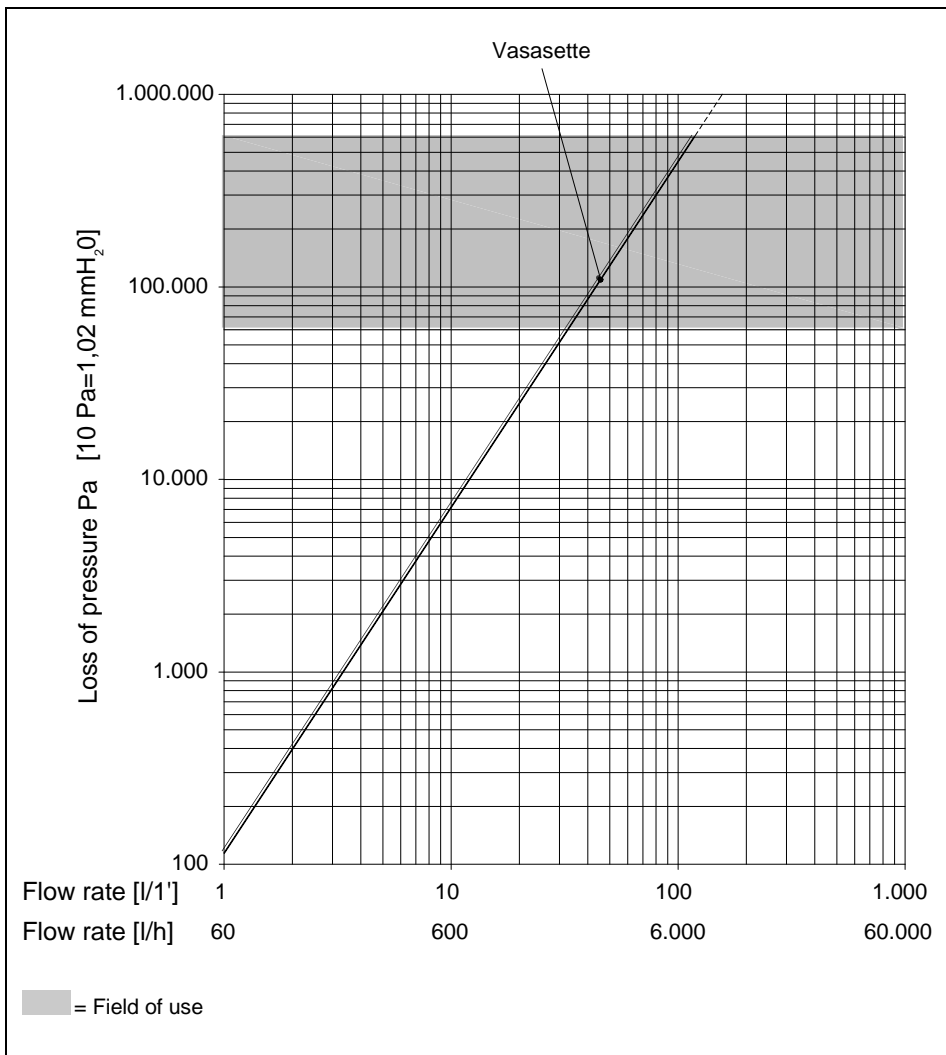


**Figure 1: Diagram of overall dimensions**

**Figure 2: Valve cross-section**

# CHARACTERISTICS OF FLUID MECHANICS

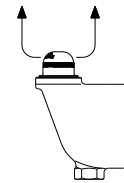
## Pressure loss diagram



Deaerator Vasasette.  
Gas discharge capacity during  
the filling phase of the system.



VASASETTE	
d	K L/1'
3/4"	170.00



Discharge of  
dissolved gasses  
such as:  
Air  
Oxygen  
Carbon dioxide  
Oxygen chlorine

$$Pa = (Q/K)^m \times 1.000.000$$

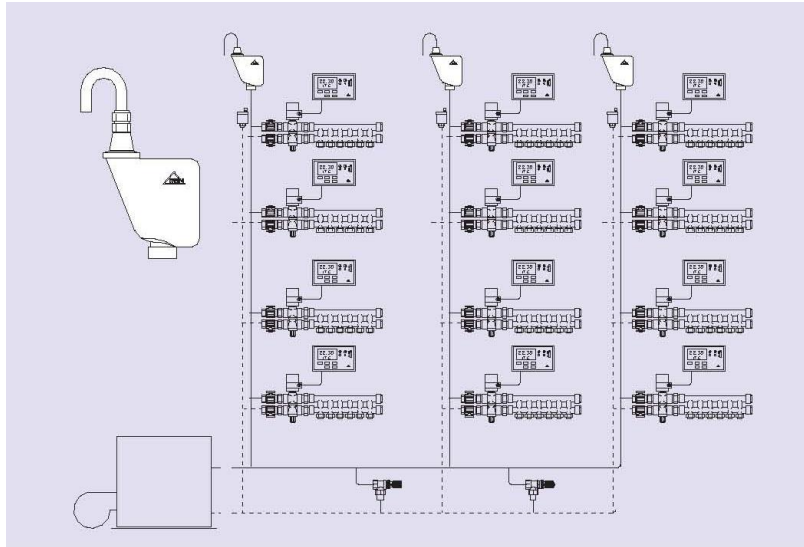
$$bar = (Q/K)^m \times 10$$

$$Q = (P/1.000.000)^{1/m} \times K = L/1'$$

$$Q = (bar/10)^{1/m} \times K = L/1'$$

$$m = 2,7$$

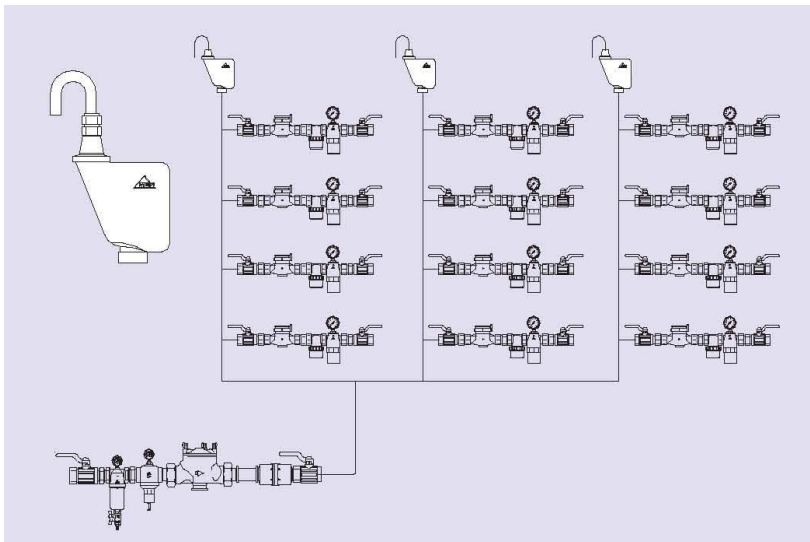
## EXAMPLE APPLICATIONS



**Fig. 1**  
Vasasette degassers fitted on the end of heating system service pipes in a block of flats.

It can be seen that the Vasa degassers are fitted on a lower level for easier access to open the pawl during the system emptying phase and to close it after the system has been filled.

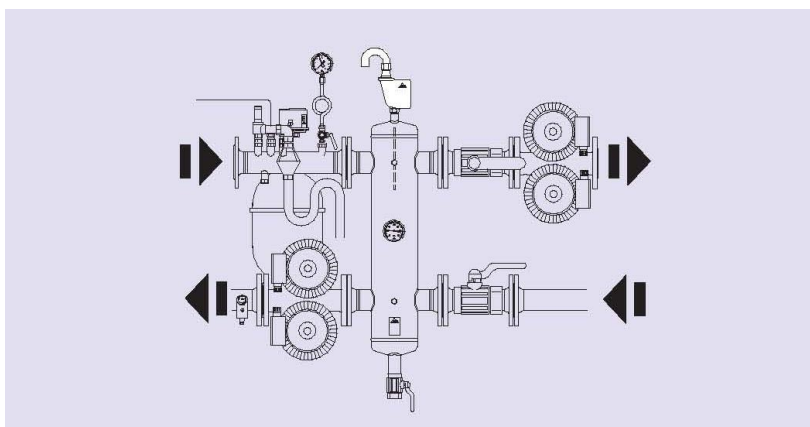
The Vasasette does not require any monitoring.



**Fig. 2**  
Vasasette degasser fitted on the end of the water distribution service pipes in a block of flats.

The function of the degasser is expressly for the residue chlorine present in the mains water system and sent indirectly to the service line.

The Vasasette also works as a deaerator for the high content of air present in the mains which is dissolved when the water goes through the filter, the reducer and the separator.



**Fig. 3**  
Typical example of the application of the Vasasette degasser on a hydraulic separator installed in a heating plant.



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