



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	Vasasette



DESCRIPTION

Vasasette 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 Vasasette 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

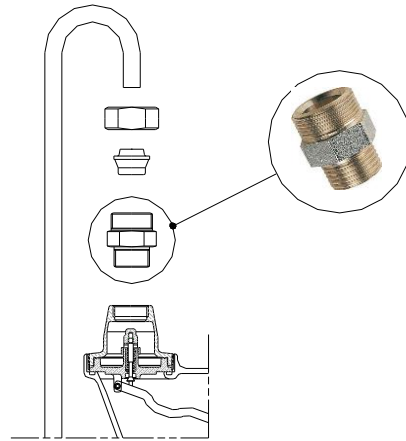
Example of the application of the device to transfer acid condensate in heating systems and chlorine gas for water systems.

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

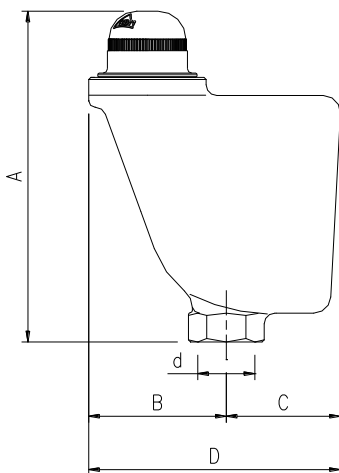
Art. code **83.04.00**

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

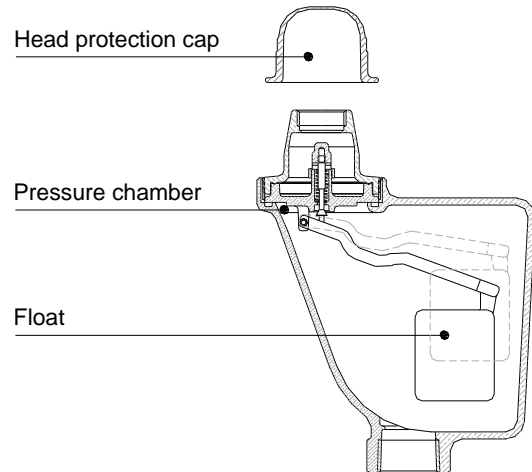
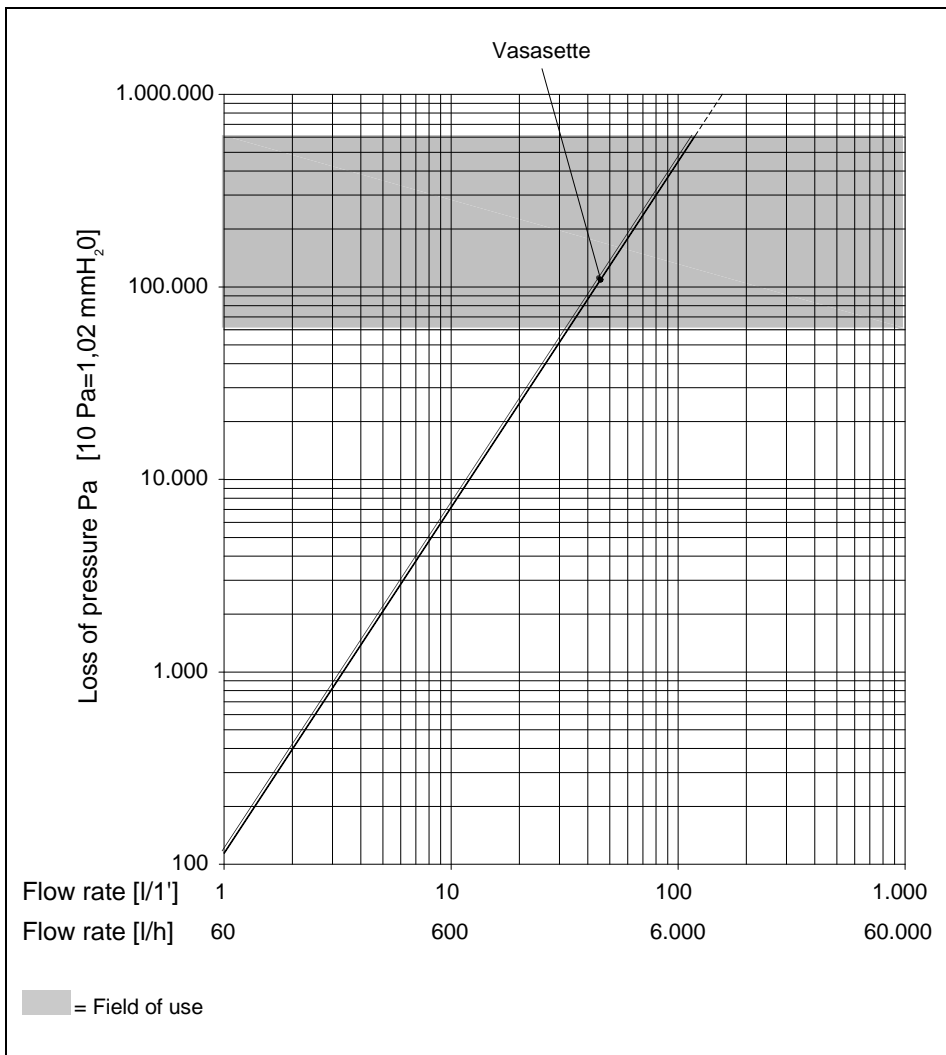


Figure 1: Diagram of overall dimensions

Figure 2: Valve cross-section

CHARACTERISTICS OF FLUID MECHANICS

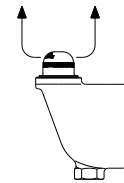
Pressure loss diagram



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

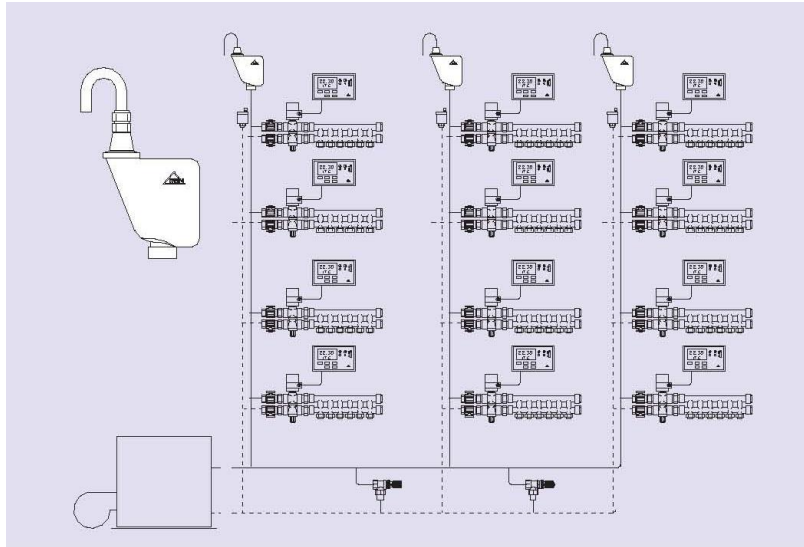


Fig. 1
Vasasette degassers fitted on the end of heating system service pipes in a block of flats.

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.

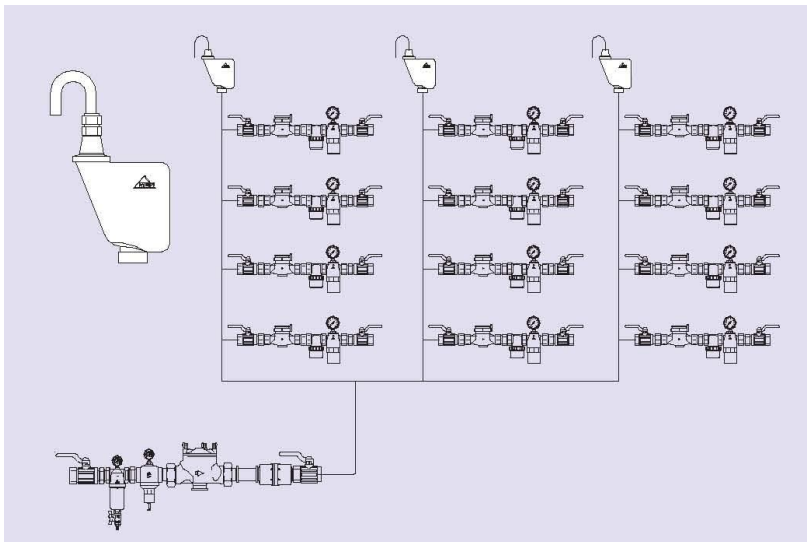


Fig. 2
Vasasette degasser fitted on the end of the water distribution service pipes in a block of flats.

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.

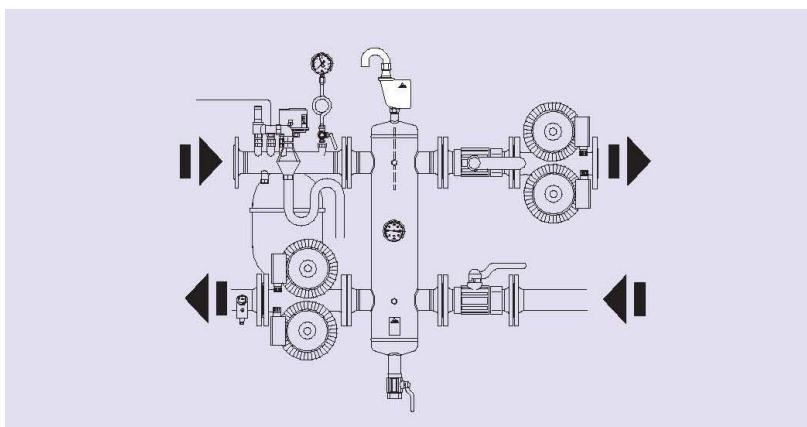


Fig. 3
Typical example of the application of the Vasasette degasser on a hydraulic separator installed in a heating plant.



RBM reserves the right to improve and change the products described as well as their relating technical information at any moment and without previous notice; for this purpose always refer to the instructions supplied with the components and use this technical sheet in case the information supplied are too concise. In case of doubt or for further information please call our engineering department that is always at the customer disposal.



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