



HELMUT  
**BREUER**  
G M B H

## **BREUER-BROMINATOR**

Dissolving tank for water chemicals.

Product information – English

Jan. 2012

Helmut Breuer GmbH – plastics processing

Apparatus and tank engineering

Piping • special engineering • Installation

CNC-machining

Injection moulding • Extrusion

## **BREUER – BROMINATOR**

The useful apparatus for dissolving of water chemicals tabs and feeding into bypass piping.





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### Description

The BREUER-Brominator is used to dissolve von chemicals tabs or granulate, like for example BCDMH (Bromo Chloro Dimethylhydantoin), for influencing of process water, which are feed into pressure piping bypass.

Basically the Brominator consists of a vessel to uptake the chemical product, with screwed lid and a funnel, an implemented water distribution and filter system plus the external fluid piping with control and safety valves on an installation plate. The connections are standardly with hose nozzles. The Brominator is standardly installed on a robust GRP-pallet, which offers stand safety and easy mobility. The vessel is made of GRP (with epoxid resin) and the piping is made of PVC. The smallest size GL20 is completely made of PVC and has a stand foot instead a pallet.

### Standard equipping:

- Tank with water distributor und filters, lid and Funnel.
- Connections: Inlet, outlet, bleed and drain.
- Non-return-valve.
- Flow indicator.
- Diaphragm-Control-Valve
- Bleed valve.
- Overpressure safety valve (opens at 6.5 bar)
- Size GL20 on stand foot, Size GL60 to GL140 on pallet.

**Additional equipment like strainer, manometer, ball valves and flow indicator with other ranges are optional available.**

BREUER-Brominators are standardly available in 4 Sizes, which are chosen by the customer depending of the wanted volume and flow rate. The required flow rate and the interval of refilling depend of the dissolving properties of the products. Please ask your chemicals supplier.

The maximal permissible operating temperature is 50°C. The maximal permissible operating pressure is 6.5 bar. All Brominators are end-tested under pressure of leakage. According to the european directive for pressure devices, BREUER-Brominators are not labelled with a CE-sign (97/23/EG – article 3 – §1.1b) dash 2 – PS<10bar) and is permitted only for that fluids.



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### Baugrößen



#### Size GL20

- 46 ltr. tank capacity
- Piping and valves DN20
- Connections with hose nozzles DN15
- Standard flow indicator 30-300 l/h
- Stand foot Dm 36cm

#### Size GL140-32

- 325 ltr. tank capacity
- Piping and valves DN25
- Connections with hose nozzles DN15
- Standard flow indicator 300-3000 l/h
- On pallet 120x80cm

#### Size GL60

- 155 ltr. tank capacity
- Piping and valves DN25
- Connections with hose nozzles DN15
- Standard flow indicator 300-3000 l/h
- On pallet 120x80cm

#### Size GL140-63

- 325 ltr. tank capacity
- Piping and valves DN50
- Connections with hose nozzles DN20
- Standard flow indicator 2500-25000 l/h
- On pallet 120x80cm

#### Size GL100

- 225 ltr. tank capacity
- Piping and valves DN25
- Connections with hose nozzles DN15
- Standard flow indicator 300-3000 l/h
- On pallet 120x80cm

#### Special-Size GL1000

- 1000 ltr. tank capacity
- Piping and valves DN25
- Connections with hose nozzles DN15
- Standard flow indicator 300-3000 l/h
- On pallet 120x80cm



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### Operation

The Brominator has to be installed in a bypass of the main water pipe. The recommended operation pressure is appr. 2 bar. At 6.5 bar the safety valve opens. The maximal temperature is 50°C.

#### **If the seal of the safety valve is broken or removed every claim expires!**

The Brominator should stand at a place without traffic and coldness. At first, please proof of outwardly recognizable damages.

Be sure that all nozzles are connected and operate at first after installation with water without product to be sure that the complete system is free from leakage.

The flow rate is controllable by the diaphragm-valve and can be read off at the flow indicator (rotameter).

How to open and refill the brominator:

- Close inlet valve.
- Close outlet valve.
- Open bleed valve and drain valve.
- Open lid with help of the key tool.
- Close drain.
- Fill the Brominator to the half with water by using the inlet valve.
- Use the funnel and fill in product tabs up to the upper filter. Do not overfill!
- Clean the thread at the opening.
- Fill in water up to the top.
- Close tank with the lid.
- Open first the inlet valve and then the outlet valve, but please slowly, to avoid pressure hits.
- Open the ball valve at the top to bleed the trapped air.



Pay attention to the safety warnings of the manufacturer of the chemical product!

We are recommending that you wear protective equipment, like gloves, protect glasses and breathing protection while the refilling process.

For a steady dosing a refill at the half of consumption is recommended.

The interval of refilling and the flow rate is depending of the product and the properties of the water. They have to be determined or you have to contact your supplier of chemicals.