

PRODUCTION RANGE

AUTOMATIC AIR VENT VALVE COMPLETE WITH MANUAL CLOSING PAWL - MEGALUFT HP

Code	Size	Connection
2836.04.00	1/2"	M UNI-EN-ISO 228

DESCRIPTION

THE PURPOSE:

Megaluft HP valves are automatic, **float-operated highperformance air vent valves with high discharge capacity**, whose function is removing air and gases from heating or cooling systems.

Used especially on vertical and horizontal pillars as well as for applications on various types of manifolds and in the boiler, they can be ideally installed in all system areas where the formation of bubbles is likely.

Without requiring any manual operation, *Megaluft HP valves* are intended to remove air both during loading and emptying, and have a high venting capacity that helps to keep the system areas where they are installed free of air.

By removing air from the system, unnecessary breakdowns and malfunctions can be reduced, helping to:

- Increase heating and cooling efficiency
- Reduce the formation of corrosion in all points of the system
- Reduce extraordinary maintenance work
- Reduce the effects causing system noise
- Lower the cost of system management

USE:

Megaluft HP valves are used in areas where the formation of air bubbles is likely.

They are particularly suitable for direct installation on manifolds, in horizontal and vertical pillars (horizontal and vertical risers).

CAUTIONS:

To be always installed in a vertical position.

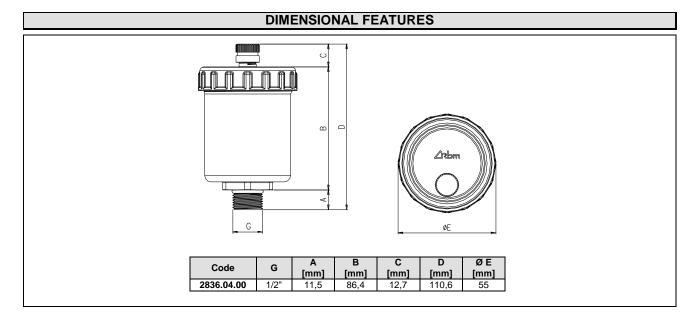
CONSTRUCTION FEATURES

- Body / cap: Brass CW 617N UNI EN 12165
 Elastomers used: EPDM and NBR
 Float: With levers, made of polypropylene resin
 Spring: AISI 302 stainless steel
- Threaded connection

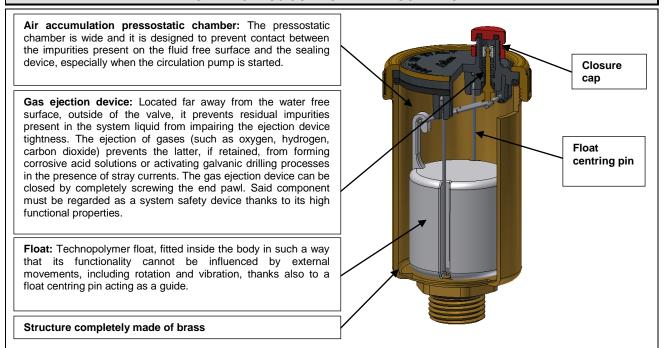
TECHNICAL FEATURES

M UNI-EN-ISO-228

•	Usable fluid:	Water Water + Glycol 30%
•	Maximum fluid temperature:	115°C
•	Maximum operating pressure:	10 bar (1000 kPa)
•	Maximum discharge pressure:	10 bar (1000 kPa)



STRENGTHS / COMPONENT DESCRIPTION



OPERATING PRINCIPLE

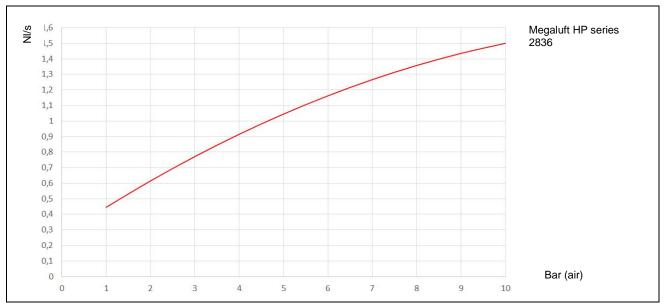
The accumulation of air bubbles in the upper part of the valve body (air accumulation pressostatic chamber) causes the float descent and, consequently, the gas ejection device opening. For the valve to properly operate, make sure that the water pressure remains lower than the maximum discharge pressure value (10 bar)





FLUID DYNAMICS FEATURES

Discharge capacity diagram



USE / INSTALLATION AND AUXILIARY COMPONENTS

Megaluft valves are used in areas where the formation of air bubbles is likely; they are particularly suitable for direct mounting on manifolds, in horizontal pillars. **To be always installed in a vertical position.**

Precautions:

- Use the air vent valve with an open pawl during the system loading / unloading.
- If it is installed on manifolds close to bypasses, make sure that the pawl is fully screwed, so as to avoid any air suction when the by-pass assembly is used the most (closed distribution ways).
- To be installed on circuits with positive pumping pressures. For circuits with negative pumping pressures, always provide for the component manual shut-off by interposing a suitable ball valve.
- To facilitate any maintenance work and inspection of the air vent device without stopping the system, it is recommended to shut off the device with ball or check valves.



MAINTENANCE INTERVENTIONS

Ring nut

Air discharge device

Sealing oring

Brass body

Megaluft HP valves are designed in such a way that they can be disassembled and serviced.

By simply unscrewing the upper ring nut, it is possible to access the air discharge device to check its functionality and perform any maintenance work.

To facilitate any maintenance work and inspection of the air vent device without stopping the system, it is recommended to shut off the device with ball or check valves (for accessories, please refer to the "USE / INSTALLATION AND AUXILIARY COMPONENTS" section of this data sheet).

SPECIFICATION ITEMS

SERIES 2836

Automatic high-performance air vent valve with high discharge capacity model *Megaluft HP*. 1/2" threaded connection. Brass body and cap. PP float. Brass float guide. Float lever and stainless steel spring. Brass poppet stem. Nitrile elastomer and ethylene-propylene elastomer seals. Usable fluid water - water+glycol 30%. Fluid maximum operating temperature 115°C. Maximum operating pressure 10 bar. Max. discharge pressure 10 bar.

