Operating principle

The accumulation of air bubbles in the valve body causes the float to drop and, as a result, the obturator to open.
This action, as well as correct valve operation, is ensured as long as the water pressure remains under the maximum discharge pressure.

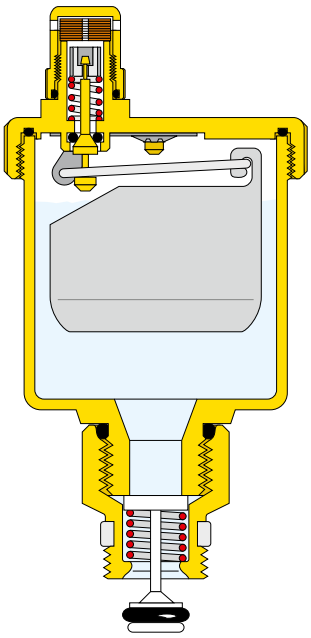
Construction details

Hygroscopic cap

The hygroscopic safety is available for all MINICAL® VALCAL® series.
The operating principle is base the properties of the cellulose disks forming the retaining cartr These discs increase in volum 50% when they come into co with water, thus closing the v This avoids any damage in the e of water leakage.

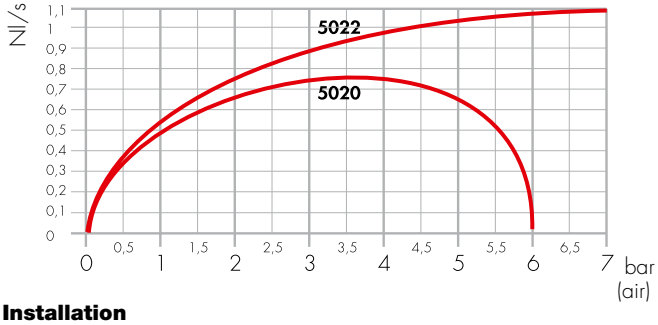
Versions with cock

The automatic shut-off cock, seal of which with the valve bo ensured by an EPDM O-ring facilitates servicing operati blocking the flow of water wher valve is deactivated, and the cc of the functionality of the ve device.



Hydraulic characteristics

Airflow (during system filling)



Installation

- The valve should be installed vertically on the separator, on the manifolds, on the riser columns and, more generally, at the points in the system where air pockets are likely to form.
- During operation, the top cap should be loosened in the normal version, while it should be fully tightened in the hygroscopic version.
- We advise against installing the valve in places that cannot be inspected.
- Installing the valve in places which may be at risk of freezing is prohibited; in this case, the Caleffi 501 series MAXCAL® automatic deaerator must be used.
- The **valve cap must be replaced with the** Caleffi 5620 AQUASTOP® **hygroscopic safety cap when installed in places that cannot be inspected**.

Accessories

- The 561 series shut-off cock is available for 5020 and 5022 series air vents. 3/8" and 1/2" connections. Yellow or chrome plated version. PTFE seal on thread.
- The 5620 series AQUASTOP hygroscopic safety cap is available for all MINICAL® and VALCAL® series in a chrome plated version and R59681 yellow version.
- The 5621 series anti-suction valve is available for the MINICAL® and VALCAL® series.

SPECIFICATION SUMMARY

5020 series
Automatic air vent. Threaded connections 3/8" M (or 1/2" M). Yellow or chrome plated. Brass body and cover, PP float, brass obturator stem, EPDM O-Ring seals. Medium: water and glycol solutions. Max. percentage of glycol 30 %. Maximum working pressure 10 bar, maximum discharge pressure 2,5 bar. Maximum working temperature 120 °C.

5020 series
Automatic air vent. Threaded connections 1/2" M (or 3/4" M). Yellow or chrome plated. Brass body and cover, PP float, brass obturator stem, EPDM O-Ring seals. Medium: water and glycol solutions. Max. percentage of glycol 30 %. Maximum working pressure 10 bar, maximum discharge pressure 2,5 bar. Maximum working temperature 120 °C. Complete with hygroscopic safety cap.

5021 series
Automatic air vent complete with automatic shut-off cock. Threaded connections 3/8" M (or 1/2"M). Yellow or Chrome plated. Brass body and cover, PP float, brass obturator stem, EPDM O-Ring seals. Medium: water and glycol solutions. Max. percentage of glycol 30 %. Maximum working pressure 10 bar, maximum discharge pressure 2,5 bar. Maximum working temperature 110 °C.

5022 series
Automatic air vent. Threaded connections 1/4" M (3/8", 1/2" M). Chrome plated with metal cap. Brass body and cover, PP float, brass obturator stem, EPDM O-Ring seals. Medium: water and glycol solutions. Max. percentage of glycol 30 %. Maximum working pressure 10 bar, maximum discharge pressure 4 bar. Maximum working temperature 120 °C.

We reserve the right to make changes and improvements to the products and related data in this publication, at any time and without prior notice.

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