



## Automatic air vents

501 - 551 - 502. - 250 - 251 series

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- Automatic air vents are designed to remove the air that accumulates in heating and air conditioning systems without the need of manual intervention.
- Maintenance operations are simplified thanks to the automatic shut-off valve by shutting the water flow off when the valve is removed and also allow easy inspection of the air vent device.
- They prevent harmful phenomena that may compromise the life and performance of heating/cooling systems.
- They are installed in vertical position, on air separators, on hydraulic separators, on manifolds, on risers and generally in parts of the system where a concentration of air pockets is expected.
- All MINICAL and VALCAL range can be equipped with a hygroscopic safety cap.
- ROBOCAL series is equipped with anti rotation and anti vibration system float.







**CALEFFI**  
Hydronic Solutions

# PRODUCT RANGE AND TECHNICAL SPECIFICATIONS

	Air vents with medium-high discharge pressure			Automatic air vents of traditional type					
	501	551	5022	5020	5020	5020	5020	5021	5021
	MAXCAL	DISCALAIR	VALCAL	MINICAL					
									
									
Body material	brass		chrome plated brass	brass	chrome plated brass	brass	chrome plated brass	brass	chrome plated brass
Max. working pressure	16 bar	10 bar		10 bar					
Max. discharge pressure	6 bar	10 bar	4 bar	2,5 bar					
Max. work. temp.	120 °C	110 °C	120 °C	120 °C				110 °C	
Automatic shut-off	-	-	optional	optional		-		✓	
Hygroscopic cap	-	optional		optional		✓		optional	
Connections	3/4"	1/2"	1/4" - 3/8" - 1/2"	3/8" - 1/2"	3/8" - 1/2"	3/4" - 1"	3/4" - 1"	3/8" - 1/2"	3/8" - 1/2"

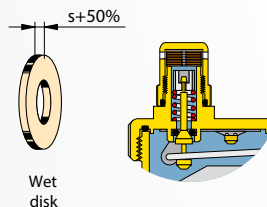
	Automatic air vents with float anti-vibration system			
	5024	5025	5026	5027
	ROBOCAL			
				
				
Body material	brass			
Max. working pressure	10 bar			
Max. discharge pressure	4 bar		6 bar	
Max. work. temp.	115 °C	110 °C	115 °C	110 °C
Automatic shut-off	-	✓	-	✓
Connections	1/4" - 3/8"	3/8"	3/8" - 1/2"	3/8"

	Automatic air vents for solar thermal systems		
	250	250	251
			DISCALAIR
			
			
Body material	chrome plated brass		
Max. working pressure	10 bar		
Max. discharge pressure	2,5 bar	5 bar	10 bar
Max. work. temp.	180 °C	180 °C	160 °C
Automatic shut-off	-	-	-
Connections	3/8"	3/8" - 1/2"	1/2"

## Hygroscopic cap

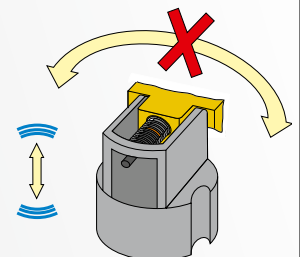
The operating principle is based on the properties of the cellulose fibre disks forming the retaining cartridge.

These discs increase their volume up to 50 % when they get wet, thus closing the valve. Instead, when air is present, the disks get dry and allow it to vent.



## Float with anti rotation and anti vibration system

When the float is in rest position the obturator is not affected by any external movement.



## REFERENCE DOCUMENTATION

501 series	- Technical broch. 01031
551 series	- Technical broch. 01124
5020-5021-5022 series	- Technical broch. 01054
5024-5025-5026-5027 series	- Technical broch. 01033
250 series	- Technical broch. 01133
251 series	- Technical broch. 01135

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