

ROBOCAL

Automatic air vents

5024 - 5025 - 5026 - 5027 series



Function

These automatic air vents eliminate residual air in heating and air conditioning systems without the need for manual intervention. This prevents undesired noise, wear of devices in the circuits and inefficient performance of heating units.

Product range

Series 5024	Automatic air vent with horizontal discharge	sizes 1/4" and 3/8" M
Series 5025	Automatic air vent with horizontal discharge and automatic shut-off cock	size 3/8" M
Series 5026	Automatic air vent with vertical discharge	sizes 3/8" and 1/2" M
Series 5027	Automatic air vent with vertical discharge and automatic shut-off cock	size 3/8" M

Technical specification

Materials:		Performance:	
Body and cover:	brass EN 12165 CW617N	Medium:	water, glycol solutions
Float:	PP	Max. percentage of glycol:	30 %
Obturator:	silicone rubber	Max. working pressure:	10 bar
Spring:	stainless steel EN 10270-3/1.4310 NS (AISI 302)	Max. discharge pressure:	5024, 5025: 4 bar
Seals:	EPDM		5026, 5027: 6 bar
Seals on shut-off cock:	PTFE	Max. working temperature:	5024, 5026: 115 °C
			5025, 5027: 110 °C

Dimensions

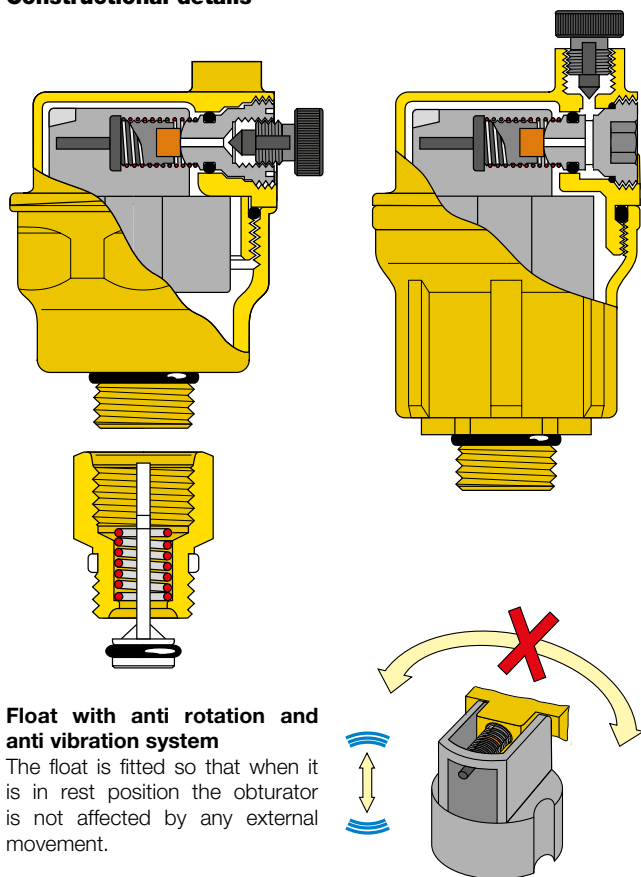
Code	A	B	C	D	E	F	Weight (kg)
502420	1/4"	55	Ø 40	25	45	10	0,140
502430	3/8"	55	Ø 40	25	45	10	0,147

Code	A	B	C	D	E	Weight (kg)
502530	3/8"	72	Ø 40	25	57	0,167

Code	A	B	C	D	E	Weight (kg)
502630	3/8"	77	Ø 40	10	67	0,155
502640	1/2"	77	Ø 40	10	67	0,160

Code	A	B	C	D	E	Weight (kg)
502730	3/8"	101	Ø 40	19	82	0,175

Constructional details



Float with anti rotation and anti vibration system

The float is fitted so that when it is in rest position the obturator is not affected by any external movement.

"Dry" obturator

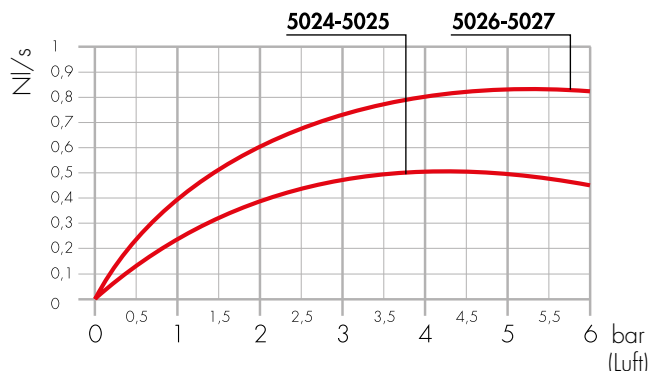
The positioning of the float and the internal parts is such that the water never reaches the obturator itself. This prevents faults caused by the infiltration of impurities present in the fluid.

Version with shut-off cock

The automatic shut-off cock makes maintenance and inspection of the air vent easier by shutting off the flow of water when the valve has been removed. O-Rings in EPDM ensure a good seal with the valve body.

Fluid dynamic characteristics

Air flow (when filling the system)

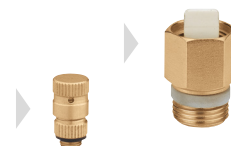


Installation

- Air is vented from the system by turning the plug on the air outlet anticlockwise by one complete turn from the fully closed position. Air is automatically vented if the cap is kept in this position.
- It is recommended that the air vents are not fitted in places difficult to inspect and at risk of freezing.

Accessories

- Shut-off valves 561 series are available for the 3/8" and 1/2" sizes.
- The anti-vacuum valve code 562200, is available for all air vents in the ROBOCAL series.



SPECIFICATION SUMMARIES

5024 series

Automatic air vent. 1/4" M (or 3/8" M) threaded connection. Body and cover in brass. Obturator in silicone rubber. Maximum working temperature 115 °C. Maximum working pressure 10 bar. Maximum discharge pressure 4 bar. Float with anti rotation and anti vibration system. Horizontal discharge.

5025 series

Automatic air vent complete with automatic shut-off cock. Threaded connection 3/8" M. Body and cover in brass. Obturator in silicone rubber. Maximum working temperature 110 °C. Maximum working pressure 10 bar. Maximum discharge pressure 4 bar. Float with anti rotation and anti vibration system. Horizontal discharge.

5026 series

Automatic air vent. Threaded connection 3/8" M (o 1/2" M). Body and cover in brass. Obturator in silicone rubber. Maximum working temperature 115 °C. Maximum working pressure 10 bar. Maximum discharge pressure 6 bar. Float with anti rotation and anti vibration system. Vertical discharge.

5027 series

Automatic air vent complete with automatic shut-off cock. Threaded connection 3/8" M. Body and cover in brass. Obturator in silicone rubber. Maximum working temperature 110 °C. Maximum working pressure 10 bar. Maximum discharge pressure 6 bar. Float with anti rotation and anti vibration system. Vertical discharge.