

/ Function

The automatic air vent valves perform the function of eliminating the need for manual intervention of the air that accumulates inside the system circuits. In this way the occurrence of negative phenomena such as corrosion, air pockets located in the heating bodies, cavitation in the circulation pumps is avoided.



/ Product Range

Articolo	Description
700	Automatic compact air vent valve
707	Medium automatic air vent valve
708	Large automatic air vent valve
709	Automatic air vent valve diameter reduced
715	Angled automatic air vent valve
719	Automatic air vent by side valve
710	Interception cap used with articles 700 - 707 - 708 - 709
716	Radiator cap with automatic air vent valve.

/ Technical Features

PERFORMANCE	
Max working pressure	10 bar
Ideal air vent pressure	6 bar
Max working temperature	110 °C (120 °C for art. 715)
Working fluids	water and glycol solutions (max 30% glycol)

tab 1

Physical Features FOR 700-707-708-709-715-719-716

Glass:	CB754S EN 1982
	CW617N (per art. 715 e 716)
Cap:	CB754S EN 1982
Float:	polyethylene
Plug:	Polypropilene
	CW614N (per art. 716)
Internal machanism:	CW614N; SILICONE; AISI 302 Stainless steel; acetal resin
Seals:	NBR
	EPDM + NBR (for art. 716)

tab 2

MATERIALS FOR ITEM 710

Body:	CW617N
Valve:	polyamide
Spring:	AISI 302 stainless steel
Seals:	EPDM

Working principle

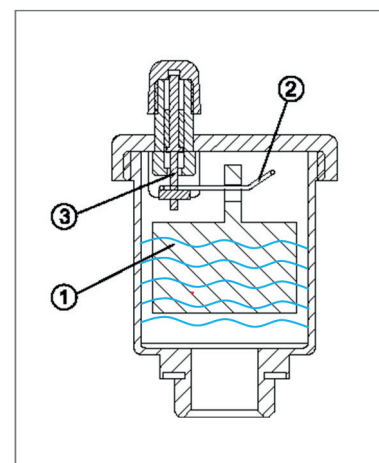
The build-up of air bubbles in the valve body causes the level of the liquid inside it to drop and, consequently, the float (1) to move downwards.

As the float descends, it pulls the lever (2) downwards; as this is directly connected to the valve disc (3), it causes the valve to open, thereby expelling the excess air. Air continues to be expelled until the liquid level returns to its steady state; at this point, the float rises and the valve closes again.

This operating system is fully automatic and is guaranteed to function correctly provided that the system pressure does not exceed the specified maximum discharge pressure of 6 bar.

Version with shut-off valve (item 710)

The automatic shut-off valve facilitates maintenance and functional checks on the venting device by blocking the water supply when the air vent valve is deactivated.



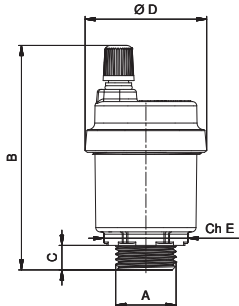
Installation

The valve is installed in a vertical position at points in the system where air pockets are likely to form. During operation, the top cap must be loosened. Installation of the valve in areas at risk of frost is not recommended. To ensure the joints are properly sealed, it is recommended that suitable sealing products (e.g. PTFE tape) be applied to the thread of the valve body.

/ Dimensions

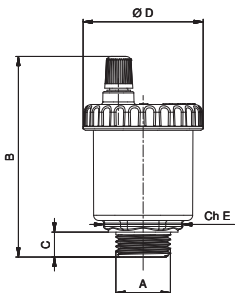
Art. 700 - Compact automatic float-type air vent valve

tab 1

	Code	Finish	Size	A	B	C	D	E
	82700AC05	YELLOW	G3/8"	G3/8"	76	8	42	CH 22
	82700AC06	NICKEL-PLATED						
	82700AD05	YELLOW	G1/2"	G1/2"	76	8	42	CH 27
	82700AD06	NICKEL-PLATED						

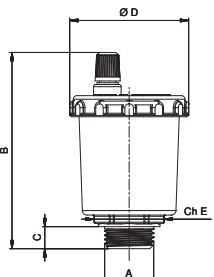
Art. 707 - Automatic float-operated air vent valve

tab 2

	Code	Finish	Size	A	B	C	D	E
	82707AC05	YELLOW	G3/8"	G3/8"	76	8	46	CH 22
	82707AC06	NICKEL-PLATED						
	82707AD05	YELLOW	G1/2"	G1/2"	76	9	46	CH 27
	82707AD06	NICKEL-PLATED						
	82707AE05	YELLOW	G3/4"	G3/4"	74	9	46	-
	82707AE06	NICKEL-PLATED						

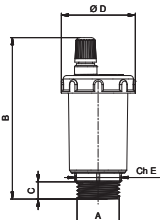
Art. 708 - Large-float automatic air vent valve

tab 3

	Code	Finish	Size	A	B	C	D	E
	82708AC05	YELLOW	G3/8"	G3/8"	83	9	51	CH 22
	82708AC06	NICKEL-PLATED						
	82708AD05	YELLOW	G1/2"	G1/2"	83	9	51	CH 27
	82708AD06	NICKEL-PLATED						

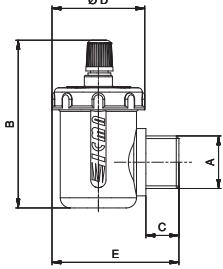
Art. 709 - Mini automatic float-type air vent valve

tab 4

	Code	Finish	Size	A	B	C	D	E
	82709AC05	YELLOW	G3/8"	G3/8"	82	8	37	CH 22
	82709AC06	NICKEL-PLATED						
	82709AD05	YELLOW	G1/2"	G1/2"	82	8	37	CH 23
	82709AD06	NICKEL-PLATED						

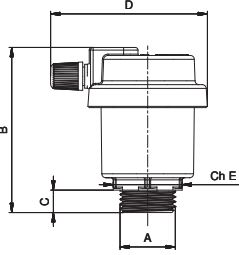
Art. 715 - Automatic angle-type float-operated air vent valve

tab 1

	Code	Finish	Size	A	B	C	D	E
	82715AC06	NICKEL-PLATED	G3/8"	G3/8"	66	13	37	50
	82715AD06	NICKEL-PLATED	G1/2"	G1/2"	66	13	37	50
	82715AE06	NICKEL-PLATED	G3/4"	G3/4"	66	10	37	50

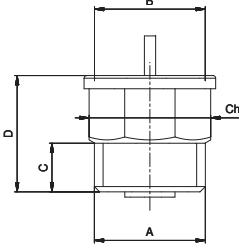
Art. 719 - Automatic float-operated air vent valve with side air outlet

tab 2

	Code	Finish	Size	A	B	C	D	E
	82719AC05	YELLOW	G3/8"	G3/8"	62	8	59	CH 22
	82719AC06	NICKEL-PLATED						
	82719AD05	YELLOW	G1/2"	G1/2"	62	8	59	CH 26
	82719AD06	NICKEL-PLATED						

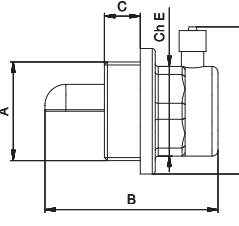
Art. 710 - Shut-off valve for items 700, 707, 708 and 709

tab 3

	Code	Finish	Size	A	B	C	D	E
	82710AC05	YELLOW	G3/8"	G3/8"	G3/8"	9	22	CH 19
	82710AC06	NICKEL-PLATED						
	82710AD05	YELLOW	G1/2"	G1/2"	G1/2"	9	22	CH 23
	82710AD06	NICKEL-PLATED						

Art. 716 - Radiator cap with automatic air vent valve

tab 2

	Code	Finish	Size	A	B	C	D	E
	82716AF06	NICKEL-PLATED	G1" DX	G1" DX	58	12	49	CH 30
	82716AT06	NICKEL-PLATED	G1" SX	G1"	58	12	49	CH 30