



Function

VS air vent valves boast an excellent air flow rate and are essential to release air bubbles from heating systems. Whilst providing a high air flow capacity, their compact size enables to install VS air vent valves on gas wall-hung boilers as well as on manifolds and wherever air needs to be released from piping.

The valve allows for full air evacuation automatically.

Technical data

Max. working pressure:	10 bar
Max. discharge pressure:	6 bar
Max. working temperature:	110 °C
Working fluids:	water in compliance with UNI 8065:2019

Materials

Valve body:	Brass OT BIESSE UNI 5035
Cap:	Polypropylene
Float:	Polyethylene
O-ring:	NBR70

Mechanism

Pin:	CW 614 N UNI-EN 12164-98
Spring:	AISI 302 stainless steel, polished
Sensor:	AISI 302 stainless steel, stearate
Cup:	Acetal resin
Rubber:	Red silicone 50
O-ring:	NBR70

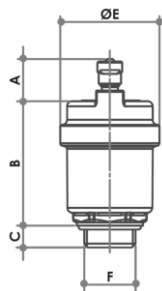
Surface treatment

Nickel-plating

Dimensional Drawings

VS 604/A

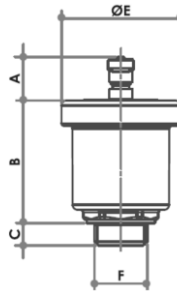
Automatic air vent valve.



Code	Size	A	B	C	E	F
67790300	G 3/8	17	50	9	40	G3/8
67790700	G 1/2	17	50	9	40	G1/2
67790300N	G 3/8	17	50	9	40	G3/8
67790700N	G 1/2	17	50	9	40	G1/2

VS 601

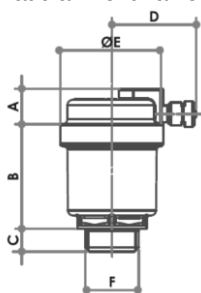
Automatic air vent valve medium type.



Code	Size	A	B	C	E	F
67790117	G 3/8	17	50	9	46	G3/8
67790121	G 1/2	17	50	9	46	G1/2
67790127	G 3/4	17	50	9	46	G3/4

VS 603

Automatic air vent valve with side discharge.

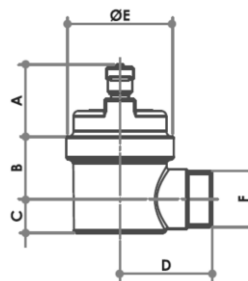


Code	Size	A	B	C	D	E
67790417	G 3/8	14	41	9	34	40
67790421	G 1/2	14	41	9	34	40

Code	Size	F	G	H	L	M
67790417	G 3/8	G3/8	-	-	-	-
67790421	G 1/2	G1/2	-	-	-	-

VS 606

Automatic air vent valve with lateral connection.

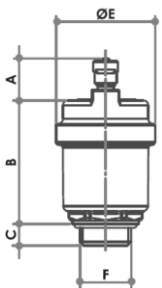


Code	Size	A	B	C	D	E
67790517	G 3/8	27	23	13	35	40
67790521	G 1/2	27	23	13	35	40

Code	Size	F	G	H	L	M
67790517	G 3/8	G3/8	-	-	-	-
67790521	G 1/2	G1/2	-	-	-	-

VS 604/S

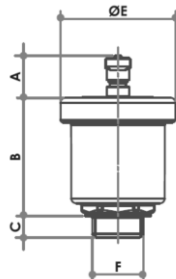
Automatic air vent valve.
200°C - 10 bar



Code	Size	A	B	C	E	F
67791017	G 3/8	17	50	9	40	G3/8
67791021	G 1/2	17	50	9	40	G1/2

VS 601/S

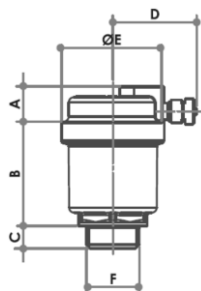
Automatic air vent valve medium type.
200°C - 10 bar



Code	Size	A	B	C	E	F
67790817	G 3/8	17	50	9	46	G3/8
67790821	G 1/2	17	50	9	46	G1/2
67790827	G 3/4	17	50	9	46	G3/4

VS 603/S

Automatic air vent valve with side discharge.
200°C - 10 bar

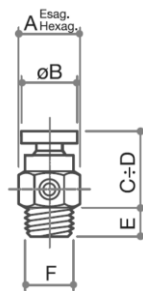


Code	Size	A	B	C	D	E
67790917	G 3/8	14	41	9	34	40
67790921	G 1/2	14	41	9	34	40

Code	Size	F	G	H	L	M
67790917	G 3/8	G3/8	-	-	-	-
67790921	G 1/2	G1/2	-	-	-	-

VS 610

Manual air vent valve with brass knob.

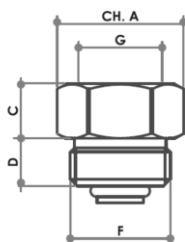


Code	Size	A	B	C	D	E
67793000	G 1/8	13	14	20	23	7
67793500	G 1/4	13	14	17	19	7

Code	Size	F	G	H	L	M
67793000	G 1/8	G1/8	-	-	-	-
67793500	G 1/4	G1/4	-	-	-	-
67794000	G 3/8	G3/8	-	-	-	-

VS 605

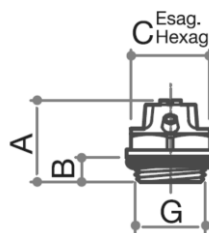
Check valve for automatic air vent valve.



Code	Size	A	C	D	F	G
67791200	G 3/8F x G 3/8M	19	12	9	G3/8	G3/8
67791400	G 3/8F x G 3/8M	23	12	-	G1/2	G3/8
67791600	G 1/2F x G 3/8M	23	12	9	G1/2	G1/2
67791200N	G 3/8F x G 3/8M	19	12	9	G3/8	G3/8
67791400N	G 3/8F x G 3/8M	23	12	-	G1/2	G3/8
67791600N	G 1/2F x G 3/8M	23	12	9	G1/2	G1/2

VS 620

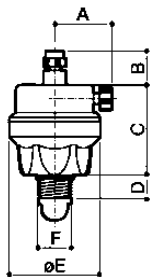
Manual air vent valve with white ABS upper part, O-ring on thread, rotating drain.



Code	Size	A	B	C	D	G
67795417	G 3/8	21	7	19	-	G3/8
67795421	G 1/2	21	8	22	-	G1/2

VS 602

Automatic and manual float air vent valve reduced type.



Code	Size	A	B	C	E	F
67790310N	G 3/8	25	15	40	40	G3/8

Working Instructions

The valve shall be installed in an upright position at all points in the heating system where air is likely to collect. In order for automatic valves to operate, the brass plug shall be loosened.

When combined with check valve VS 605, automatic air vent valves may be removed without draining the system.

Item Specifications

VS 604/A

Automatic brass air vent valve with obturator in siliconic rubber and plug. Connections G3/8-G1/2 male with NBR O-ring. Max. working pressure 10 bar. Max. fluid temperature 110°C.

VS 601

Automatic brass air vent valve with obturator in siliconic rubber and plug. Connections G3/8-G1/2-G3/4 male. Max. working pressure 10 bar. Max. fluid temperature 110°C.

VS 603

Automatic lateral brass air vent valve with obturator in siliconic rubber and plug. Connections G3/8-G1/2 male. Max. working pressure 10 bar. Max. fluid temperature 110°C.

VS 606

Automatic lateral brass air vent valve with obturator in siliconic rubber and plug. Connections G3/8-G1/2 male. Max. working pressure 10 bar. Max. fluid temperature 110°C.

VS 604/S

Automatic brass air vent valve for solar system with obturator in siliconic rubber and plug. Connections G3/8-G1/2 male. Max. working pressure 10 bar. Max. fluid temperature 200°C.

VS 601/S

Automatic brass air vent valve for solar system with obturator in siliconic rubber and plug. Connections G3/8-G1/2-G3/4 male. Max. working pressure 10 bar. Max. fluid temperature 200°C.

VS 603/S

Automatic lateral brass air vent valve for solar system with obturator in siliconic rubber and plug. Connections G3/8-G1/2 male. Max. working pressure 10 bar. Max. fluid temperature 200°C.

VS 610

Brass body and knob. EPDM gaskets. Obturator with sealing O-ring. Connections G1/8-G1/4-G3/8 male with O-ring. Max. working pressure 10 bar. Max. fluid temperature 120°C.

VS 605

Brass check valve with PA6 bubble breaker for automatic air vent valves. Max. working pressure 10 bar. Max. fluid temperature 120°C.

VS 620

Brass body. Gaskets in peroxide cured EPDM. Knob to orientate the drain. Obturator with sealing O-ring. Connection G1/2 male or G3/8 male with O-ring. Max. working pressure 10 bar. Max. fluid temperature 90°C.

VS 602

Automatic and manual air vent valve in brass material with silicone rubber obturator and cap. G3/8 male connection with EPDM o-ring. Max working pressure 10bar. Max fluid temperature 120°C.



Luxor S.p.A.

Sede amministrativa, stabilimento e uffici commerciali:

Administrative office, factory and commercial office:

Tel.: 030-9961161 – Fax: 030-9961165

info@luxor.it – www.luxor.it

via Madonnina, 94 – 25018 Montichiari - (BS) Italy

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