



## AUTOMATIC AIR AND GAS VENTS FOR LIQUID SYSTEMS AE47.2

(Stainless steel 11/2" x 1", 2" x 1", DN 40 x DN 25 and DN 50 x DN 25)

## **DESCRIPTION**

The AE47.2 range of high capacity automatic vents are designed to remove air or gases from water and other liquid systems, without requiring any external source of energy.

They are capable of handling significant loads during start-up while still being able to discharge smaller loads in continuous modulating operation with one single orifice.

These ball float type vents are manufactured in stainless steel, available with various soft sealing options, and can be used in combination with other air elimination and separation systems or directly applied at high points in the pipelines.



Suitable for start-up and continuous operation with one single orifice. Allow fast and easy inline maintenance.

Corrosion resistant internal parts.

No balancing pipe required.

OPTIONS: Various soft sealing options.

USE: Cold, hot and superheated water or other liquids

compatible with the construction.

**AVAILABLE** 

MODELS: AE47.2-10, 20 and 32 – stainless steel.

SIZES: 11/2" x 1" and 2" x 1"; DN 40 x DN 25 and

DN 50 x DN 25.

CONNECTIONS: Female threaded ISO 7 Rp or NPT.

Flanged EN 1092-1 PN 40.

Flanged ASME B16.5 Class 150 or 300.

Socket weld (SW) ASME 16.11.

INSTALLATION: Inline vertical installation.

It must be installed absolutely vertically at the points in the plant where the air tends to collect.

See IMI – Installation and maintenance

instructions.

MAX.  $\Delta P$ : AE47.2-10 - 10 bar

AE47.2-20 – 20 bar AE47.2-32 – 32 bar







CE MARKING – GROUP 2 (PED – European	Directive)
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PN 40	Category
All sizes	1 (CE marked)





300 °C

BODY LIMITING CONDITIONS									
FLANGED PN 40 *	FLANGED CLASS 150 **	FLANGED CLASS 300 **	RELATED						
ALLOWABLE PRESSURE	ALLOWABLE PRESSURE	ALLOWABLE PRESSURE	TEMPERATURE						
37,9 bar	13,3 bar	34,4 bar	100 °C						
31,8 bar	11,1 bar	28,8 bar	200 °C						
29,9 bar	10,2 bar	26,6 bar	250 °C						

25,2 bar

PMO – Maximum operating pressure: 32 bar.

TMO - Maximum operating temperature: EPDM valve sealing: 130 °C; FPM / Viton valve sealing: 200 °C.

9,7 bar

Min. liquid specific weight: 0,75 kg/dm<sup>3</sup>.

27,6 bar

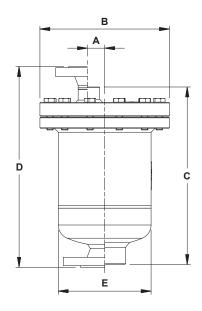
Body limiting conditions PN 40 or below, depending on the type of connection adopted. Rating PN 40 for threaded and SW versions.

FLOW RATE CAPACITY (NL/min)														
DIFFERENTIAL PRESSURE (bar)														
MODEL SIZE	SIZE	0,1	0,5	1	3	5	7	10	12	16	20	24	28	32
AE47.2-10	11/2" x 1" – DN 40 x 25 2" x 1" – DN 50 x 25	97	212	266	519	777	1036	1425	-	-	_	_	-	_
AE47.2-20	11/2" x 1" – DN 40 x 25 2" x 1" – DN 50 x 25	67	147	184	384	540	720	989	1169	1528	1887	_	-	_
AE47.2-32	11/2" x 1" – DN 40 x 25 2" x 1" – DN 50 x 25	43	94	118	230	345	460	633	747	978	1208	1438	1668	1898

Values shown refer to capacities of air discharge at 15 °C, under atmospheric pressure (1013 mbar).

If the air temperature differs from 15 °C, the discharge capacity can be corrected by multiplying it by 288, where T is the actual temperature in °C.

It may be assumed that the temperature of the air is equal to the temperature of the water.



DIMENSIONS (mm)													
INLET * THREADED SW PN 40 CLASS 150 CL								CLAS	ASS 300				
OUTLET *	THREADED		s	w	PN	1 40	CLAS	S 150	CLASS 300				
SIZE	Α	В	С	E	WGT. (kg)	С	WGT. (kg)	D	WGT. (kg)	D	WGT. (kg)	D	WGT. (kg)
11/2" x 1" – DN 40 x 25	31	235	314	168	20	330	20,2	357	22,8	362	22,1	375	24
2" x 1" – DN 50 x 25	31	235	316	168	20	341	20,5	359	23,4	363	23	376	24,5

<sup>\*</sup> For other combinations certified dimensions, consult the manufacturer.



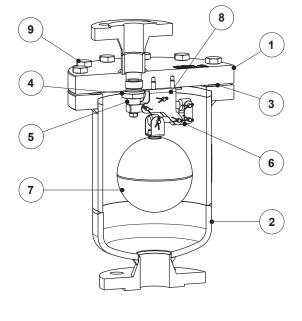
<sup>\*</sup> Acc. to EN 1092-1:2018; \*\* Acc. to EN 1759-1:2004.





	MATERIALS							
POS.	DESIGNATION	MATERIAL						
1	Body	AISI 316L / 1.4404						
2	Cover	AISI 316L / 1.4404						
3	* Gasket	Stainless steel / Graphite						
4	* Seat	AISI 316L / 1.4404						
5	Plug	FPM / Viton or EPDM						
6	* Levers	AISI 316 / 1.4401; AISI 316L / 1.4404						
7	* Float	AISI 304 / 1.4301						
8	* Mechanism support bracket	AISI 304 / 1.4301						
9	Bolts	Stainless steel A2-70						

<sup>\*</sup> Available spare parts.



## **FLOW DIRECTION**



VT - Vertical from bottom to top





ORDERING CODES	AE47.2									
Model	AE472	3	Е	ХХ	VT	Α	25	Α	40	Е
AE47.2 – stainless steel	AE472									
Differential pressure		1								
10 bar		3								
20 bar		5								
32 bar		6								
Valve sealing										
EPDM			Е							
FPM / Viton			V							
Cover connection										
None				XX						
Options										
If any, these have specific separate ordering codes, please refer to the appropri	ate docume	entatio	า.							
Flow direction										
Inline vertical from bottom to top					VT					
Outlet pipe connection										
Female threaded ISO 7 Rp						Α				
Female threaded NPT						С				
Socket weld (SW) ASME 16.11						Н				
Flanged EN 1092-1 PN 40						N				
Flanged ASME B16.5 Class 150						U				
Flanged ASME B16.5 Class 300						V				
Outlet size										
1" or DN 25							25			
Inlet pipe connection				_						
Female threaded ISO 7 Rp				-				Α		
Female threaded NPT								С		
Socket weld (SW) ASME 16.11								Н		
Flanged EN 1092-1 PN 40								N		
Flanged ASME B16.5 Class 150										
Flanged ASME B16.5 Class 300								V		
Inlet size										
11/2" or DN 40									40	
2" or DN 50									50	
Special valves / Extr										
Full description or additional codes have to be added in case of a non-standard	combinatio	n								Е