

**AUTOMATIC AIR AND GAS VENTS FOR LIQUID SYSTEMS**  
**AE31.2**  
**(Carbon steel 1" x 1/2"; DN 25 x 15)**

**DESCRIPTION**

The AE31.2 is a series of automatic vents 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 carbon steel, available with soft sealing, and can be used in combination with other air elimination and separation systems or directly applied at high points in the pipelines.

**MAIN FEATURES**

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:** Metal to metal sealing.  
Threaded connection on cover, closed with plug.  
HVV – Hand vent valve.

**USE:** Cold, hot and superheated water or other liquids compatible with the construction.

**AVAILABLE MODELS:** AE31.2-6, 14, 21 and 32 – carbon steel.

**SIZES:** 1" x 1/2"; DN 25 x 15.

**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 B16.11.

**INSTALLATION:** 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. ΔP:** AE31.2-6 – 6 bar  
AE31.2-14 – 14 bar  
AE31.2-21 – 21 bar  
AE31.2-32 – 32 bar

**CE MARKING – GROUP 2 (PED – European Directive)**

PN 40	Category
1" x 1/2" – DN 25 x 15	SEP

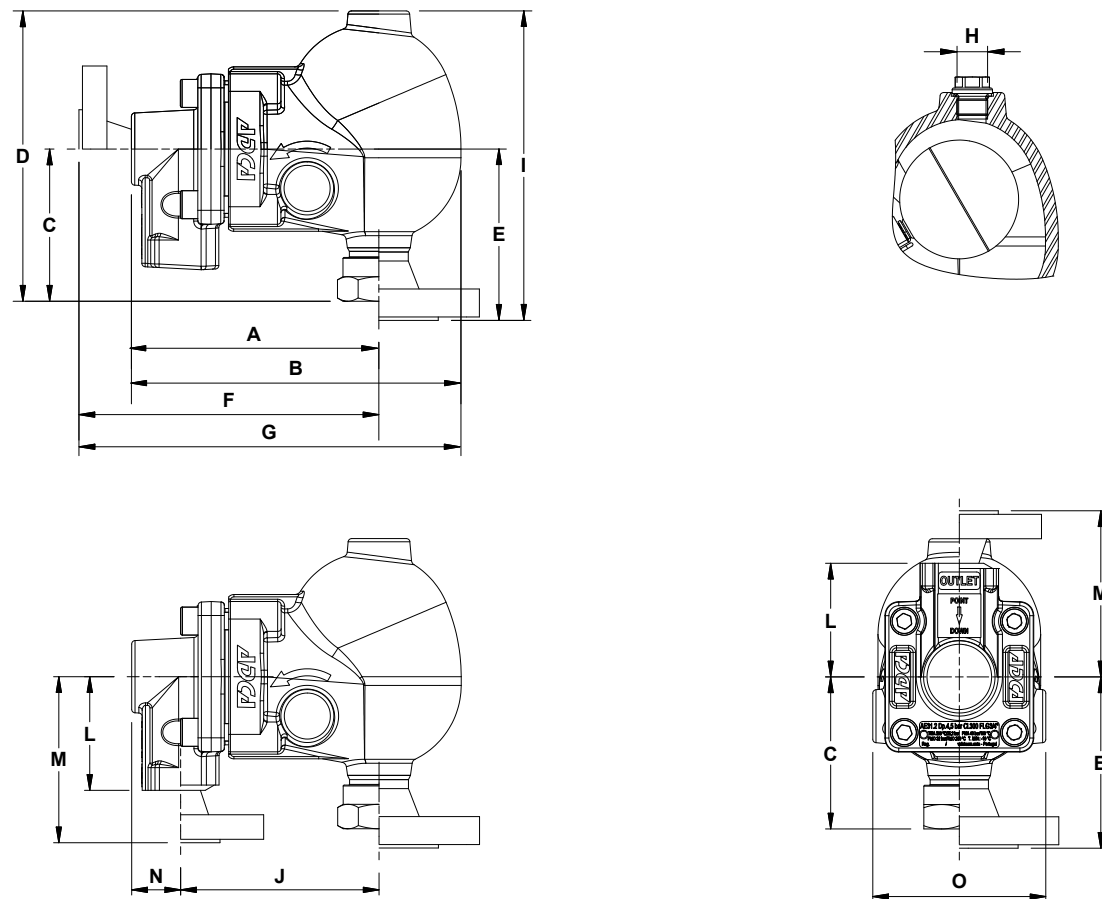


BODY LIMITING CONDITIONS		
FLANGED PN 40 / CLASS 300 *	FLANGED CLASS 150 **	RELATED TEMP.
ALLOWABLE PRESSURE	ALLOWABLE PRESSURE	
37,1 bar	17,7 bar	100 °C
33,3 bar	14 bar	200 °C
30,4 bar	12,1 bar	250 °C
27,6 bar	10,2 bar	300 °C

PMO – Maximum operating pressure: 32 bar.  
TMO – Maximum operating temperature:  
FPM / Viton valve sealing: 200 °C;  
Metal to metal sealing: 250 °C.  
Min. liquid specific weight: 0,75 kg/dm<sup>3</sup>.  
\* Acc. to EN 1092-1:2018; \*\* Acc. to EN 1759-1:2004.  
Body limiting conditions PN 40 or below, depending on the type of connection adopted. Rating PN 40 for threaded and SW versions.

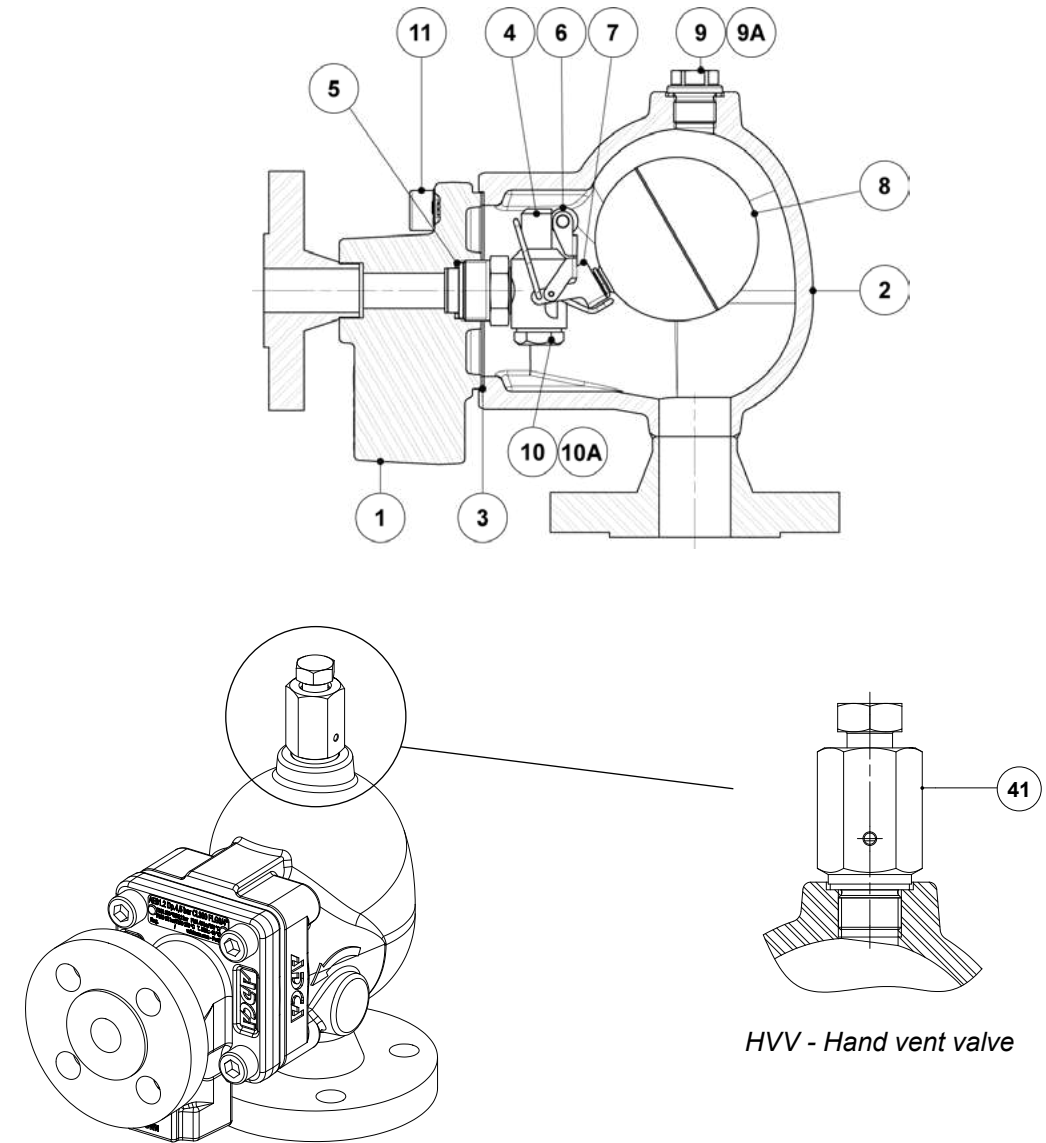
FLOW RATE CAPACITY (NL/min)																
MODEL	SIZE	DIFFERENTIAL PRESSURE (bar)														
		0,1	0,5	1	2	4	6	8	10	12	14	16	18	21	25	32
AE31.2-6	1" x 1/2" – DN 25 x 15	97	212	266	388	648	907	–	–	–	–	–	–	–	–	–
AE31.2-14	1" x 1/2" – DN 25 x 15	46	100	125	183	306	428	551	673	795	918	–	–	–	–	–
AE31.2-21	1" x 1/2" – DN 25 x 15	33	72	90	132	220	308	396	484	573	660	748	837	969	–	–
AE31.2-32	1" x 1/2" – DN 25 x 15	15	33	41	60	101	141	182	222	263	303	344	385	446	527	669

Values shown refer to capacities of air discharge at 15 °C, under average atmospheric pressure (1013 mbar).  
If the temperature of the air differs from 15 °C, the discharge capacity can be corrected by multiplying it by:  $\frac{288}{273 + T}$ , 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)																			
THREADED / SW										PN 40									
SIZE	A	B	C	D	H*	J	L	N	O	WGT. (kg)	E	F	G	H*	I	J	M	O	WGT. (kg)
1" x 1/2" DN 25 x 15	168	243	141	214	3/8"	137	65	31	130	9	154	198	273	3/8"	227	137	95	130	11,4
CLASS 150										CLASS 300									
SIZE	E	F	G	H*	I	J	M	O	WGT. (kg)	E	F	G	H*	I	J	M	O	WGT. (kg)	
1" x 1/2"	169	203	278	3/8"	242	137	100	130	10,9	176	213	288	3/8"	249	137	110	130	12,1	

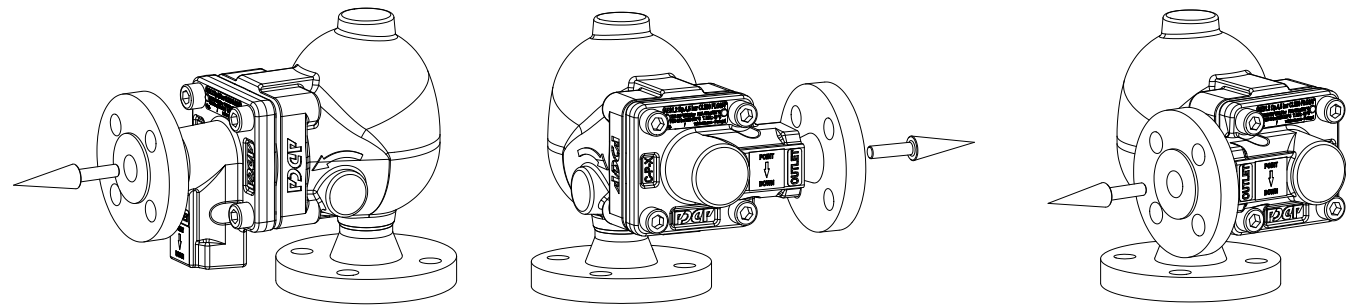
\* As standard, in versions with EN flanges or female ISO 7 Rp threads, these connections are female threaded ISO 228. In versions with ASME flanges, female NPT threads or SW, these connections are female threaded NPT.



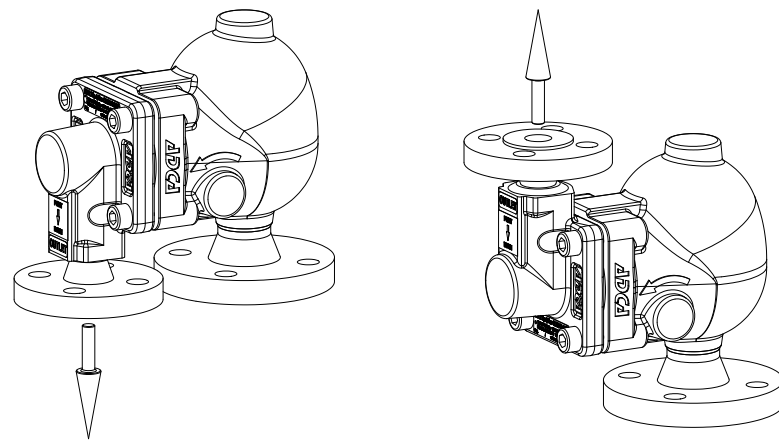
MATERIALS		
POS. N°	DESIGNATION	MATERIAL
1	Body	P250GH / 1.0460
2	Cover	A216 WCB / 1.0619
3	* Gasket	Stainless steel / Graphite
4	* Seat	AISI 303 / 1.4305
5	* Gasket	Copper
6	* Valve ball	AISI 316 / 1.4401; Viton
7	* Lever	AISI 304 / 1.4301
8	* Float	AISI 304 / 1.4301
9	Plug	AISI 316L / 1.4404
9A	** Gasket	Copper
10	Plug	AISI 304 / 1.4301
10A	Gasket	Copper
11	Bolts	Zinc plated steel
41	Hand vent valve	AISI 303 / 1.4305; AISI 316L / 1.4404

\* Available spare parts; \*\* Not applicable in NPT version.

**FLOW DIRECTION**



VF - Vertical inlet / straight front outlet    VR - Vertical inlet / right side outlet    VL - Vertical inlet / left side outlet



VB - Vertical inlet / top to bottom outlet    VT - Vertical from bottom to top

ORDERING CODES AE31.2										
Model	AE312	2	V	XX	VF	A	15	A	25	E
AE31.2 – carbon steel	AE312									
<b>Differential pressure</b>										
6 bar		2								
14 bar		4								
21 bar		5								
32 bar		7								
<b>Valve sealing</b>										
FPM / Viton (standard)			V							
Metal to metal			M							
<b>Cover connections</b>										
None				XX						
3/8" threaded connections on top, closed with plug (mandatory if any options are considered)				10						
<b>Options</b>										
If any, these have specific separate ordering codes, please refer to the appropriate documentation										
<b>Flow direction</b>										
Vertical inlet / straight front outlet					VF					
Vertical inlet / top to bottom outlet					VB					
Vertical inlet / right side outlet					VR					
Vertical inlet / left side outlet					VL					
Vertical from bottom to top					VT					
<b>Outlet pipe connection</b>										
Female threaded ISO 7 Rp						A				
Female threaded NPT						C				
Socket weld (SW) ASME 16.11						H				
Flanged EN 1092-1 PN 40						N				
Flanged ASME B16.5 Class 150						U				
Flanged ASME B16.5 Class 300						V				
<b>Outlet size</b>										
1/2" or DN 15							15			
<b>Inlet pipe connection</b>										
Female threaded ISO 7 Rp								A		
Female threaded NPT								C		
Socket weld (SW) ASME 16.11								H		
Flanged EN 1092-1 PN 40								N		
Flanged ASME B16.5 Class 150								U		
Flanged ASME B16.5 Class 300								V		
<b>Inlet size</b>										
1" or DN 25									25	
<b>Special valves / Extras</b>										
Full description or additional codes have to be added in case of a non-standard combination										E



## AUTOMATIC AIR AND GAS VENTS FOR LIQUID SYSTEMS AE35.2 (Carbon steel 1" x 1/2", 1" x 1"; DN 25 x 15, DN 25 x 25)

### DESCRIPTION

The AE35.2 range of 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 carbon steel, available with soft sealing, and can be used in combination with other air elimination and separation systems or directly applied at high points in the pipelines.

### MAIN FEATURES

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:** Metal to metal sealing.  
Threaded connection on cover, closed with plug.  
HVV – Hand vent valve.

**USE:** Cold, hot and superheated water or other liquids compatible with the construction.

**AVAILABLE MODELS:** AE35.2-6, 14, 21 and 32 – carbon steel.

**SIZES:** 1" x 1/2" and 1" x 1"; DN 25 x 15 and DN 25 x 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:** 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. ΔP:** AE35.2-6 – 6 bar  
AE35.2-14 – 14 bar  
AE35.2-21 – 21 bar  
AE35.2-32 – 32 bar



BODY LIMITING CONDITIONS		
FLANGED PN 40 / CLASS 300 *	FLANGED CLASS 150 **	RELATED TEMP.
ALLOWABLE PRESSURE	ALLOWABLE PRESSURE	
37,1 bar	17,7 bar	100 °C
33,3 bar	14 bar	200 °C
30,4 bar	12,1 bar	250 °C
27,6 bar	10,2 bar	300 °C

PMO – Maximum operating pressure: 32 bar.  
TMO – Maximum operating temperature:  
FPM / Viton valve sealing: 200 °C.  
Metal to metal sealing: 250 °C.  
Min. liquid specific weight: 0,75 kg/dm<sup>3</sup>.  
\* Acc. to EN 1092-1:2018; \*\* Acc. to EN 1759-1:2004.  
Body limiting conditions PN 40 or below, depending on the type of connection adopted. Rating PN 40 for threaded and SW versions.

CE MARKING – GROUP 2 (PED – European Directive)		
CLASS 150	PN 40	Category
All sizes	–	SEP
–	All sizes	1 (CE marked)

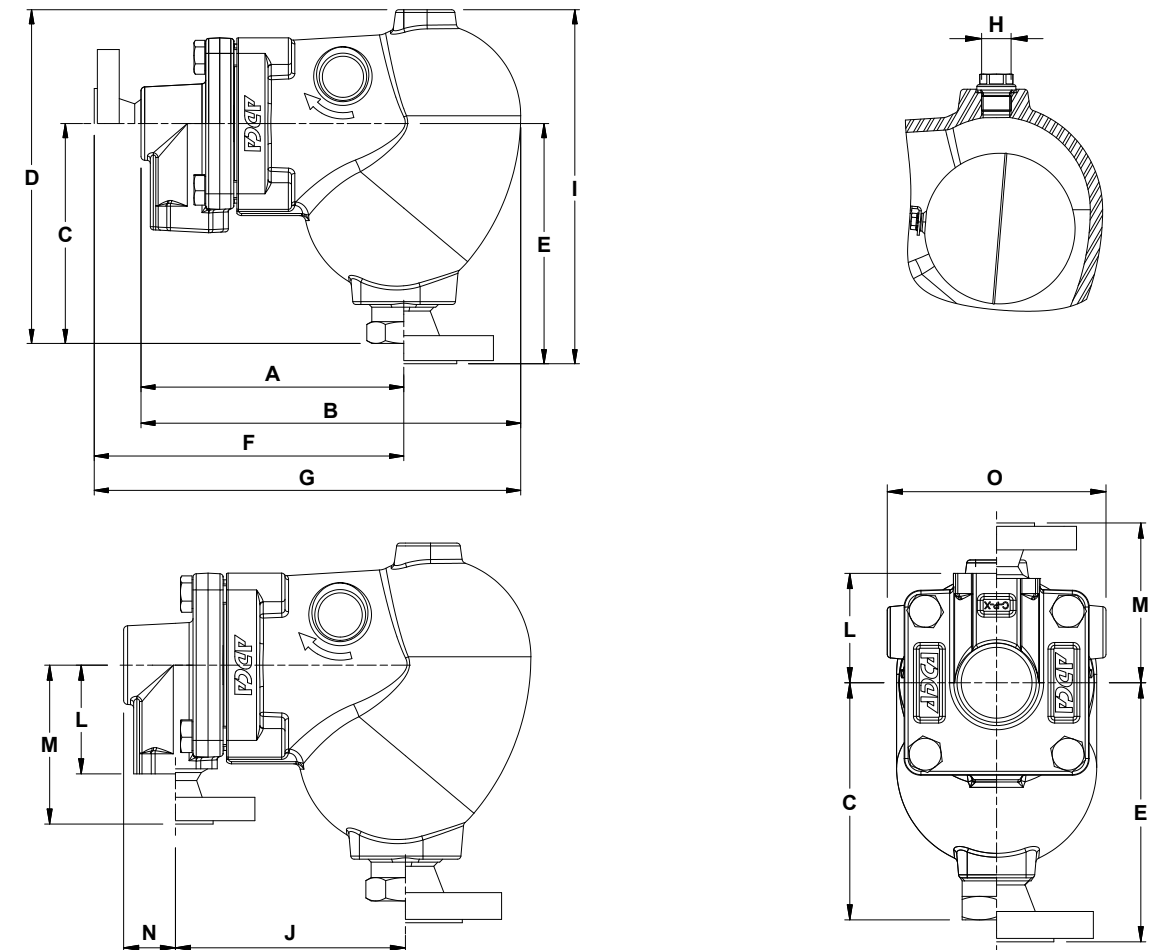


### FLOW RATE CAPACITY (NL/min)

MODEL	SIZE (INLET)	DIFFERENTIAL PRESSURE (bar)														
		0,1	0,5	1	2	4	6	8	10	12	14	16	18	21	25	32
AE35.2-6	1" – DN 25	201	440	550	803	1340	1875	–	–	–	–	–	–	–	–	–
AE35.2-14	1" – DN 25	127	279	349	510	851	1191	1530	1870	2210	2550	–	–	–	–	–
AE35.2-21	1" – DN 25	97	212	266	388	648	907	1166	1425	1683	1942	2201	2460	2848	–	–
AE35.2-32	1" – DN 25	38	82	104	151	252	354	455	556	657	758	859	960	1112	1314	1668

Values shown refer to capacities of air discharge at 15 °C, under average atmospheric pressure (1013 mbar).  
If the air temperature differs from 15 °C, the discharge capacity can be corrected by multiplying it by  $\frac{288}{273 + T}$ , 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.



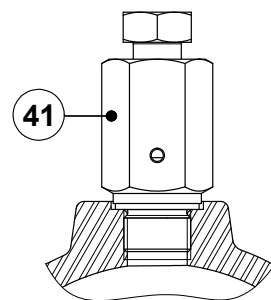
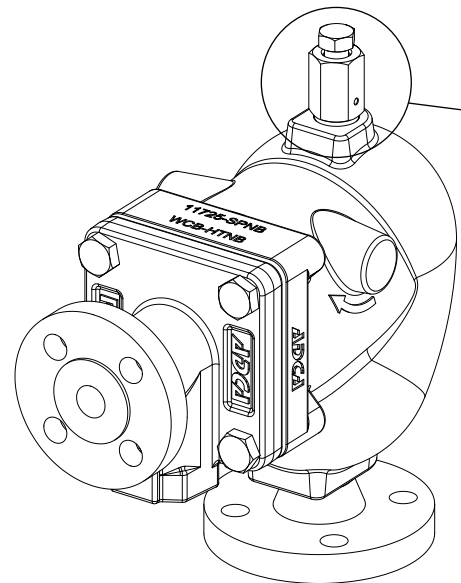
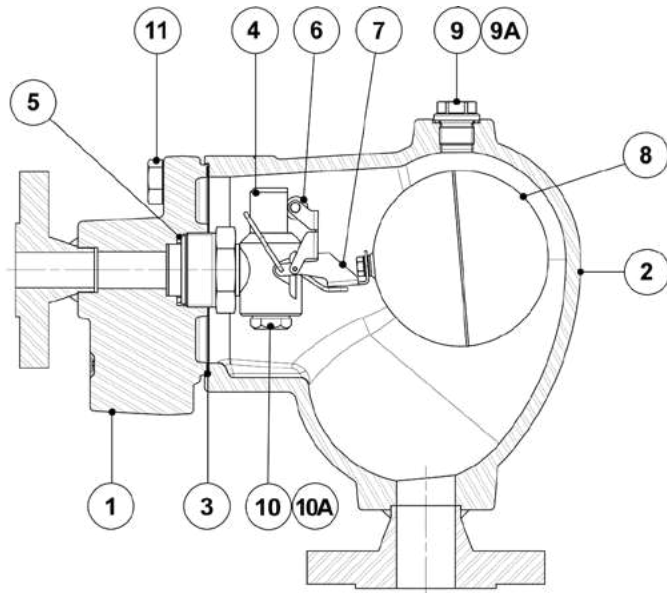
DIMENSIONS (mm)																			
SIZE	THREADED / SW									PN 40									
	A	B	C	D	H*	J	L	N	O	WGT. (kg)	E	F	G	H*	I	J	M	O	WGT. (kg)
1" x 1/2" – DN 25 x 15	168	243	141	214	3/8"	137	65	31	130	9	154	198	273	3/8"	227	137	95	130	10,9
1" x 1" – DN 25 x 25	168	243	141	214	3/8"	137	65	31	130	8,9	154	198	273	3/8"	227	137	95	130	11,2
SIZE	CLASS 150									CLASS 300									
	E	F	G	H*	I	J	M	O	WGT. (kg)	E	F	G	H*	I	J	M	O	WGT. (kg)	
1" x 1/2"	169	203	278	3/8"	242	137	100	130	10,2	176	213	288	3/8"	249	137	110	130	11,1	
1" x 1"	169	203	278	3/8"	242	137	100	130	10,7	176	213	288	3/8"	249	137	110	130	11,9	

\* As standard, in versions with EN flanges or female ISO 7 Rp threads, these connections are female threaded ISO 228. In versions with ASME flanges, female NPT threads or SW, these connections are female threaded NPT.



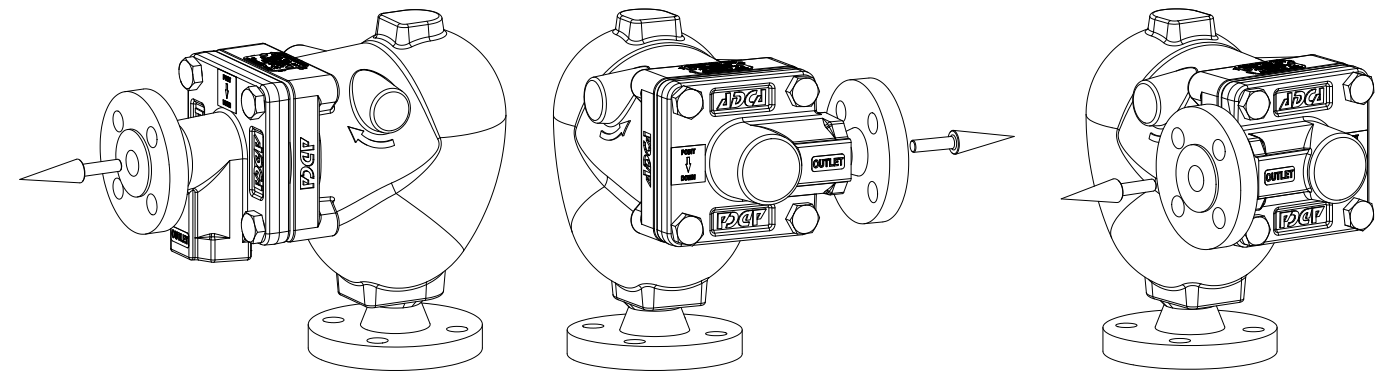
MATERIALS		
POS. N°	DESIGNATION	MATERIAL
1	Body	P250GH / 1.0460
2	Cover	A216 WCB / 1.0619
3	* Gasket	Stainless steel / Graphite
4	* Seat	AISI 303 / 1.4305
5	* Gasket	Copper
6	* Valve ball	AISI 316 / 1.4401; Viton
7	* Lever	AISI 304 / 1.4301
8	* Float	AISI 304 / 1.4301
9	Plug	AISI 316L / 1.4404
9A	** Gasket	Copper
10	Plug	AISI 304 / 1.4301
10A	Gasket	Copper
11	Bolts	Zinc plated steel
41	Hand vent valve	AISI 303 / 1.4305; AISI 316L / 1.4404

\* Available spare parts. \*\* Not applicable in NPT version.

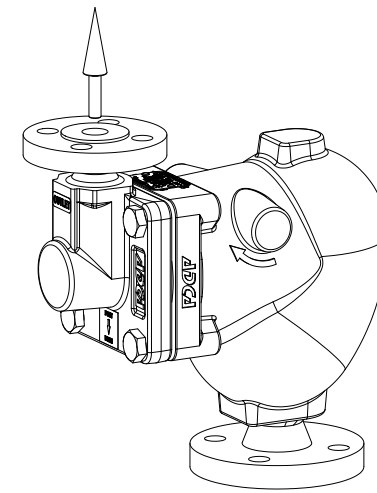


HVV - Hand vent valve

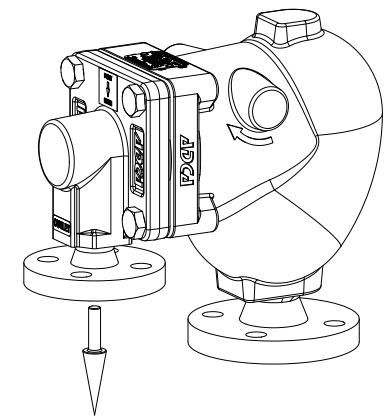
FLOW DIRECTION



VF - Vertical inlet / straight front outlet    VR - Vertical inlet / right side outlet    VL - Vertical inlet / left side outlet



VT - Vertical from bottom to top



VB - Vertical inlet / top to bottom outlet

ORDERING CODES AE35.2											
Model	AE352	2	V	XX	VF	A	15	A	25	E	
AE35.2 – carbon steel	AE352										
<b>Differential pressure</b>											
6 bar		2									
14 bar		4									
21 bar		5									
32 bar		7									
<b>Valve sealing</b>											
FPM / Viton (standard)			V								
Metal to metal			M								
<b>Cover connections</b>											
None				XX							
3/8" threaded connections on top, closed with plug (mandatory if any options are considered)				10							
<b>Options</b>											
If any, these have specific separate ordering codes, please refer to the appropriate documentation.											
<b>Flow direction</b>											
Vertical inlet / straight front outlet					VF						
Vertical inlet / top to bottom outlet					VB						
Vertical inlet / right side outlet					VR						
Vertical inlet / left side outlet					VL						
Vertical from bottom to top					VT						
<b>Outlet pipe connection</b>											
Female threaded ISO 7 Rp						A					
Female threaded NPT						C					
Socket weld (SW) ASME 16.11						H					
Flanged EN 1092-1 PN 40						N					
Flanged ASME B16.5 Class 150						U					
Flanged ASME B16.5 Class 300						V					
<b>Outlet size</b>											
1/2" or DN 15							15				
1" or DN 25							25				
<b>Inlet pipe connection</b>											
Female threaded ISO 7 Rp								A			
Female threaded NPT								C			
Socket weld (SW) ASME 16.11								H			
Flanged EN 1092-1 PN 40								N			
Flanged ASME B16.5 Class 150								U			
Flanged ASME B16.5 Class 300								V			
<b>Inlet size</b>											
1" or DN 25									25		
<b>Special valves / Extras</b>											
Full description or additional codes have to be added in case of a non-standard combination											E

## AUTOMATIC AIR AND GAS VENTS FOR LIQUID SYSTEMS AE37.2 (Carbon steel 1 1/2" x 1", 2" x 1", DN 40 x DN 25 and DN 50 x DN 25)

### DESCRIPTION

The AE37.2 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 carbon 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.

### MAIN FEATURES

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:** AE37.2-10, 20 and 32 – carbon steel.

**SIZES:** 1 1/2" 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. ΔP:**  
AE37.2-10 – 10 bar  
AE37.2-20 – 20 bar  
AE37.2-32 – 32 bar



#### CE MARKING – GROUP 2 (PED – European Directive)

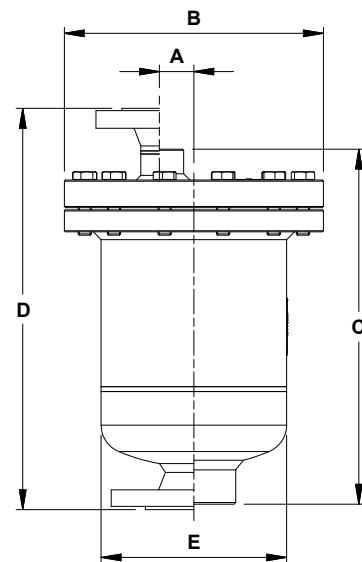
PN 40	Category
All sizes	1 (CE marked)

BODY LIMITING CONDITIONS		
FLANGED PN 40 / CLASS 300 *	FLANGED CLASS 150 **	RELATED TEMPERATURE
ALLOWABLE PRESSURE	ALLOWABLE PRESSURE	
37,1 bar	17,7 bar	100 °C
33,3 bar	14 bar	200 °C
30,4 bar	12,1 bar	250 °C
27,6 bar	10,2 bar	300 °C

PMO – Maximum operating pressure: 32 bar.  
 TMO – Maximum operating temperature: EPDM valve sealing: 130°C; FPM / Viton valve sealing: 200°C.  
 Min. liquid specific weight: 0,75 kg/dm<sup>3</sup>.  
 \* Acc. to EN 1092-1:2018; \*\* Acc. to EN 1759-1:2004.  
 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)														
MODEL	SIZE	DIFFERENTIAL PRESSURE (bar)												
		0,1	0,5	1	3	5	7	10	12	16	20	24	28	32
AE37.2-10	11/2" x 1" – DN 40 x 25 2" x 1" – DN 50 x 25	97	212	266	519	777	1036	1425	–	–	–	–	–	–
AE37.2-20	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	–	–	–
AE37.2-32	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 average atmospheric pressure (1013 mbar).  
 If the air temperature differs from 15 °C, the discharge capacity can be corrected by multiplying it by  $\frac{288}{273 + T}$ , 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.

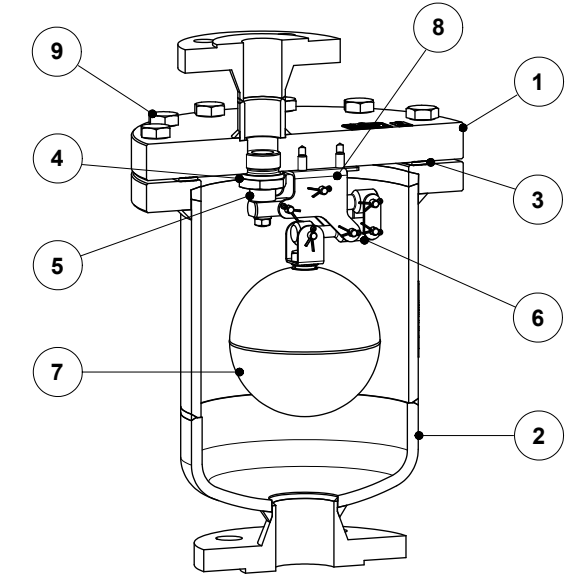


DIMENSIONS (mm)													
INLET *	THREADED				SW		PN 40		CLASS 150		CLASS 300		
	THREADED				SW		PN 40		CLASS 150		CLASS 300		
SIZE	A	B	C	E	WGT. (kg)	C	WGT. (kg)	D	WGT. (kg)	D	WGT. (kg)	D	WGT. (kg)
11/2" x 1" – DN 40 x 25	31	235	320	168	20,7	336	20,9	364	23,5	369	22,9	382	24,8
2" x 1" – DN 50 x 25	31	235	322	168	20,8	348	21,2	366	24,2	370	23,7	383	25,2

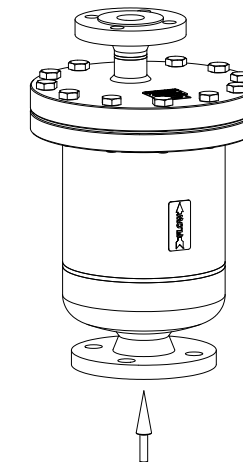
\* For other combinations certified dimensions, consult the manufacturer.

MATERIALS		
POS. N°	DESIGNATION	MATERIAL
1	Body	S355JR / 1.0045; P250GH / 1.0460; A105 / 1.0432
2	Cover	S355JR / 1.0045; P235GH / 1.0345; P265GH / 1.0425; P250GH / 1.0460; A105 / 1.0432
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	Steel 8.8

\* Available spare parts.



**FLOW DIRECTION**



VT - Vertical from bottom to top

ORDERING CODES AE37.2											
Model	AE372	3	E	XX	VT	A	25	A	40	E	
AE37.2 – carbon steel	AE372										
<b>Differential pressure</b>											
10 bar		3									
20 bar		5									
32 bar		7									
<b>Valve sealing</b>											
EPDM			E								
FPM / Viton			V								
<b>Cover connections</b>											
None				XX							
<b>Options</b>											
If any, these have specific separate ordering codes, please refer to the appropriate documentation.											
<b>Flow direction</b>											
Inline vertical from bottom to top					VT						
<b>Outlet pipe connection</b>											
Female threaded ISO 7 Rp						A					
Female threaded NPT						C					
Socket weld (SW) ASME 16.11						H					
Flanged EN 1092-1 PN 40						N					
Flanged ASME B16.5 Class 150						U					
Flanged ASME B16.5 Class 300						V					
<b>Outlet size</b>											
1" or DN 25							25				
<b>Inlet pipe connection</b>											
Female threaded ISO 7 Rp								A			
Female threaded NPT								C			
Socket weld (SW) ASME 16.11								H			
Flanged EN 1092-1 PN 40								N			
Flanged ASME B16.5 Class 150								U			
Flanged ASME B16.5 Class 300								V			
<b>Inlet size</b>											
1 1/2" or DN 40									40		
2" or DN 50									50		
<b>Special valves / Extras</b>											
Full description or additional codes have to be added in case of a non-standard combination											E

**AUTOMATIC AIR AND GAS VENTS FOR LIQUID SYSTEMS**  
**AE39.2**  
**(Carbon steel 2 1/2" x 1 1/2", 3" x 1 1/2", DN 65 x DN 40 and DN 80 x DN 40)**

**DESCRIPTION**

The AE39.2 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 high 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 carbon 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.

**MAIN FEATURES**

Suitable for start-up and continuous operation with one single orifice.  
High capacity.  
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:** AE39.2-5, 10, 20, 28 and 32 – carbon steel.

**SIZES:** 2 1/2" x 1 1/2" and 3" x 1 1/2"; DN 65 x DN 40 and DN 80 x DN 40.

**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. ΔP:**  
AE39.2-5 – 5 bar  
AE39.2-10 – 10 bar  
AE39.2-20 – 20 bar  
AE39.2-28 – 28 bar  
AE39.2-32 – 32 bar

**CE MARKING – GROUP 2 (PED – European Directive)**

PN 16	PN 40	Category
All sizes	–	1 (CE marked)
–	All sizes	2 (CE marked)



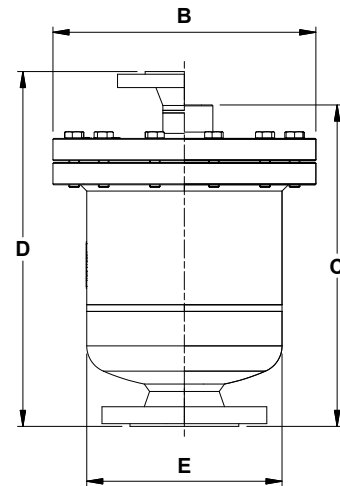


BODY LIMITING CONDITIONS			
FLANGED PN 16	FLANGED PN 40 / CLASS 300 *	FLANGED CLASS 150 **	RELATED TEMPERATURE
ALLOWABLE PRESSURE	ALLOWABLE PRESSURE	ALLOWABLE PRESSURE	
14,8 bar	37,1 bar	17,7 bar	100 °C
13,3 bar	33,3 bar	14 bar	200 °C
12,1 bar	30,4 bar	12,1 bar	250 °C
11 bar	27,6 bar	10,2 bar	300 °C

PMO – Maximum operating pressure: 32 bar.  
TMO – Maximum operating temperature: EPDM valve sealing: 130°C; FPM / Viton valve sealing: 200°C.  
Min. liquid specific weight: 0,75 kg/dm<sup>3</sup>.  
\* Acc. to EN 1092-1:2018; \*\* Acc. to EN 1759-1:2004.  
Body limiting conditions PN 40 or below, depending on the type of connection adopted.

FLOW RATE CAPACITY (NL/min)														
MODEL	SIZE	DIFFERENTIAL PRESSURE (bar)												
		0,1	0,5	1	3	5	7	10	12	16	20	24	28	32
AE39.2-5	21/2"x 11/2" – DN 65 x 40 3"x 11/2" – DN 80 x 40	661	1446	1806	3522	5277	–	–	–	–	–	–	–	–
AE39.2-10	21/2"x 11/2" – DN 65 x 40 3"x 11/2" – DN 80 x 40	342	749	936	1825	2735	3645	5010	–	–	–	–	–	–
AE39.2-20	21/2"x 11/2" – DN 65 x 40 3"x 11/2" – DN 80 x 40	132	289	362	706	1059	1410	1939	2292	2996	3700	–	–	–
AE39.2-28	21/2"x 11/2" – DN 65 x 40 3"x 11/2" – DN 80 x 40	67	155	231	480	720	960	1319	1559	2038	2517	2247	2607	–
AE39.2-32	21/2"x 11/2" – DN 65 x 40 3"x 11/2" – DN 80 x 40	51	113	141	276	413	551	757	894	1170	1445	1720	1995	2271

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  $\frac{288}{273 + T}$ , 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.

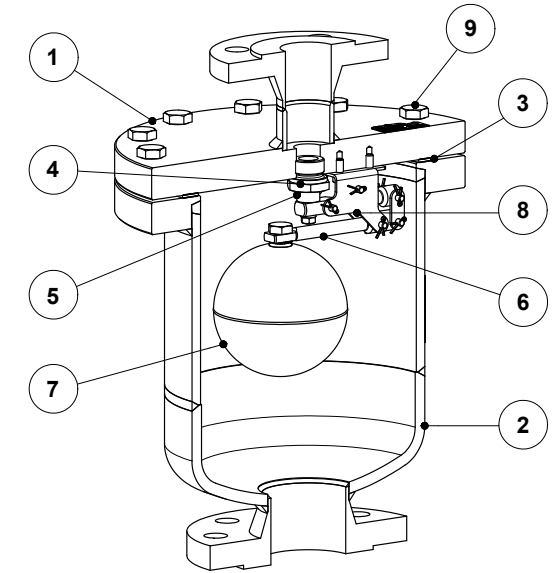


DIMENSIONS (mm)																
INLET *	PN 16				PN 40		PN 40		PN 16		PN 40		CLASS 150		CLASS 300	
OUTLET *	THREADED				THREADED		SW		PN 16		PN 40		CLASS 150		CLASS 300	
SIZE	B	C	E	WGT. (kg)	C	WGT. (kg)	C	WGT. (kg)	D	WGT. (kg)	D	WGT. (kg)	D	WGT. (kg)	D	WGT. (kg)
21/2"x 11/2" DN 65 x 40	295	358	219	35,8	360	36,3	365	36,4	391	37,4	398	38	401	38,1	413	40,5
3"x 11/2" DN 80 x 40	295	350	219	35,5	353	36,2	358	36,4	383	37,1	391	37,9	388	37,8	403	41,3

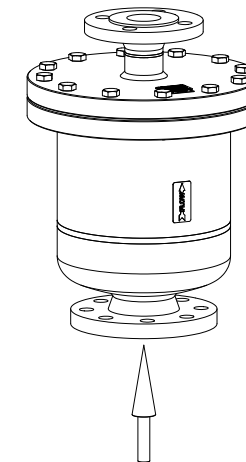
\* For other combinations certified dimensions, consult the manufacturer.

MATERIALS		
POS. N°	DESIGNATION	MATERIAL
1	Body	S355JR / 1.0045; P250GH / 1.0460; A105 / 1.0432
2	Cover	S355JR / 1.0045; P235GH / 1.0345; P265GH / 1.0425; P250GH / 1.0460; A105 / 1.0432
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	Steel 8.8

\* Available spare parts.



**FLOW DIRECTION**



VT - Vertical from bottom to top

ORDERING CODES AE39.2										
Model	AE392	2	E	XX	VT	A	40	L	65	
AE39.2 – carbon steel	AE392									
<b>Differential pressure</b>										
5 bar		2								
10 bar		3								
20 bar		5								
28 bar		6								
32 bar		7								
<b>Valve sealing</b>										
EPDM			E							
FPM / Viton			V							
<b>Cover connection</b>										
None				XX						
<b>Options</b>										
If any, these have specific separate ordering codes, please refer to the appropriate documentation.										
<b>Flow direction</b>										
Inline vertical from bottom to top					VT					
<b>Outlet pipe connection</b>										
Female threaded ISO 7 Rp						A				
Female threaded NPT						C				
Socket weld (SW) ASME 16.11						H				
Flanged EN 1092-1 PN 16						L				
Flanged EN 1092-1 PN 40						N				
Flanged ASME B16.5 Class 150						U				
Flanged ASME B16.5 Class 300						V				
<b>Outlet size</b>										
1 1/2" or DN 40							40			
<b>Inlet pipe connection</b>										
Flanged EN 1092-1 PN 16								L		
Flanged EN 1092-1 PN 40								N		
Flanged ASME B16.5 Class 150								U		
Flanged ASME B16.5 Class 300								V		
<b>Inlet size</b>										
2 1/2" or DN 65									65	
3" or DN 80										80
<b>Special valves / Extras</b>										
Full description or additional codes have to be added in case of a non-standard combination										E

## AUTOMATIC AIR AND GAS VENTS FOR LIQUID SYSTEMS AE50S (Carbon steel 1/2" x 1/2" to 1" x 1/2"; DN 15 x 1/2" to DN 25 x 1/2")

### DESCRIPTION

The AE50 range of 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 carbon steel, available with soft sealing, and can be used in combination with other air elimination and separation systems or directly applied at high points in the pipelines.

### MAIN FEATURES

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:** Different soft sealing options.  
Metal to metal sealing.

**USE:** Cold, hot and superheated water or other liquids compatible with the construction.

**AVAILABLE MODELS:** AE50S – carbon steel.

**SIZES:** 1/2" x 1/2", 3/4" x 1/2" and 1" x 1/2";  
DN 15 x 1/2", DN 20 x 1/2" and DN 25 x 1/2".

**CONNECTIONS:** Female threaded ISO 7 Rp or NPT.  
Flanged EN 1092-1 PN 40.  
Flanged ASME B16.5 Class 150 or 300.

**INSTALLATION:** Vertical installation.  
It must be installed absolutely vertically at the points in the plant where the air tends to collect. The drain should be piped to a safe position. See IMI – Installation and maintenance instructions.



### CE MARKING – GROUP 2 (PED – European Directive)

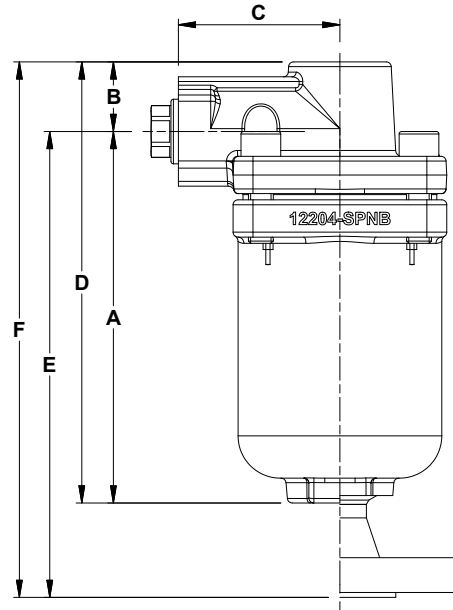
PN 40	Category
All sizes	SEP

BODY LIMITING CONDITIONS		
FLANGED PN 40 / CLASS 300 *	FLANGED CLASS 150 **	RELATED TEMP.
ALLOWABLE PRESSURE	ALLOWABLE PRESSURE	
37,1 bar	17,7 bar	100 °C
33,3 bar	14 bar	200 °C
30,4 bar	12,1 bar	250 °C
27,6 bar	10,2 bar	300 °C

PMO – Maximum operating pressure: 30 bar.  
TMO – Maximum operating temperature:  
Metal to metal sealing: 250 °C.  
EPDM valve sealing: 130 °C.  
FPM / Viton valve sealing: 200 °C.  
Min. liquid specific weight: 0,75 kg/dm³.  
\* According to EN 1092-1:2018.  
\*\* According to EN 1759-1:2004.  
Body limiting conditions PN 40 or below, depending on the type of connection adopted.  
Rating PN 40 for threaded versions.

FLOW RATE CAPACITY (NL/min)																		
MODEL	DIFFERENTIAL PRESSURE (bar)																	
	0,5	1	2	3	4	5	6	7	8	9	10	12	15	18	20	22	25	30
AE50S	31	46	72	96	120	144	168	192	216	241	265	313	385	457	505	553	626	746

Values shown refer to capacities of air discharge at 15 °C, under average atmospheric pressure (1013 mbar).  
If the temperature of the air differs from 15 °C, the discharge capacity can be corrected by multiplying it by:  $\frac{288}{273 + T}$ , 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.

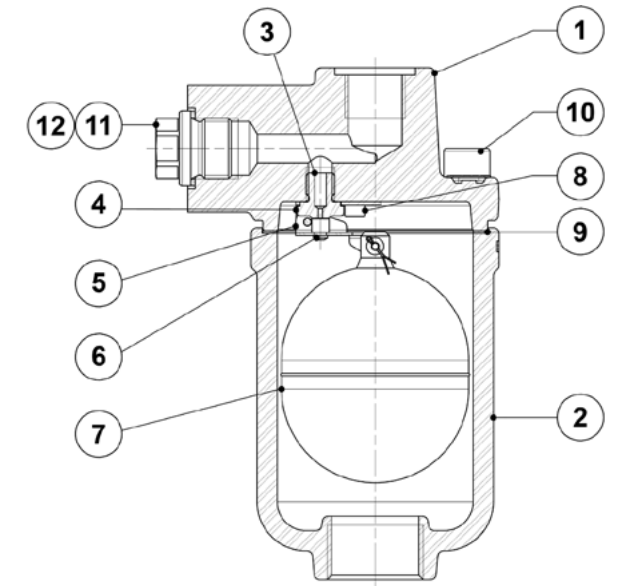


DIMENSIONS (mm)															
INLET SIZE	THREADED				WGT. (kg)	PN 40		WGT. (kg)	CLASS 150			WGT. (kg)	CLASS 300		WGT. (kg)
	A	B	C	D		E	F		E	F	E		F		
1/2" x 1/2" – DN 15 x G 1/2"	149	28	65	177	3,6	187	215	4,4	197	225	4,1	202	230	4,4	
3/4" x 1/2" – DN 20 x G 1/2"	149	28	65	177	3,6	189	217	4,7	202	230	4,3	207	235	4,9	
1" x 1/2" – DN 25 x G 1/2"	149	28	65	177	3,6	189	217	4,8	205	233	4,6	211	239	5,2	

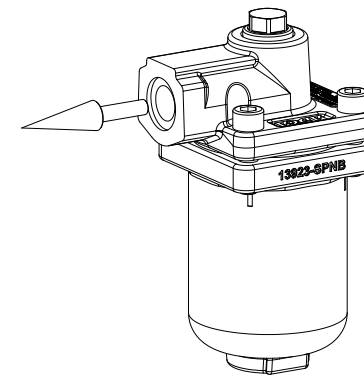
Remarks: As standard, in versions with EN flanged or female Rp threaded inlets, the outlet is female threaded ISO 228. In versions with ASME flanged or female NPT threaded inlets, the outlet is female threaded NPT.

MATERIALS		
POS. N°	DESIGNATION	MATERIAL
1	Body	P250GH / 1.0460
2	Cover	A216 WCB / 1.0619
3	* Seat	AISI 316L / 1.4404
4	Mechanism support	AISI 304 / 1.4301
5	* Lever	AISI 304 / 1.4301
6	* Valve	AISI 316 / 1.4401; EPDM; Viton
7	* Float	AISI 316Ti / 1.4571
8	Bolt	Stainless steel A2-70
9	* Gasket	Stainless steel / Graphite
10	Bolts	Steel 8.8
11	Plug	AISI 316L / 1.4404
12	** Washer	Copper

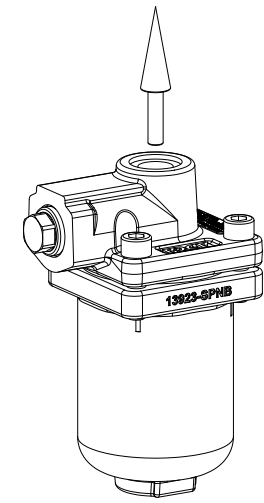
\* Available spare parts; \*\* Not applicable in NPT version.



**FLOW DIRECTION**



VF - Vertical inlet / straight front outlet



VT - Vertical from bottom to top

ORDERING CODES AE50S										
Model	AE50S	6	M	XX	VF	A	15	A	15	E
AE50S – carbon steel	AE50S									
<b>Differential pressure</b>										
30 bar		6								
<b>Valve sealing</b>										
Metal to metal			M							
EPDM			E							
FPM / Viton			V							
<b>Options</b>										
None				XX						
<b>Flow direction</b>										
Vertical inlet / straight front outlet					VF					
Vertical from bottom to top					VT					
<b>Outlet pipe connection</b>										
Female threaded ISO 228						B				
Female threaded NPT						C				
<b>Outlet size</b>										
1/2"							15			
<b>Inlet pipe connection</b>										
Female threaded ISO 7 Rp								A		
Female threaded NPT								C		
Flanged EN 1092-1 PN 40								N		
Flanged ASME B16.5 Class 150								U		
Flanged ASME B16.5 Class 300								V		
<b>Inlet size</b>										
1/2" or DN 15									15	
3/4" or DN 20									20	
1" or DN 25									25	
<b>Special valves / Extras</b>										
Full description or additional codes have to be added in case of a non-standard combination										E

**AUTOMATIC AIR AND GAS VENTS FOR LIQUID SYSTEMS  
AE16SS**

**DESCRIPTION**

The AE16SS all stainless steel air eliminator removes air from HVAC systems and are also suitable for non corrosive and/or dangerous liquids compatible with the construction, providing that their specific weight is no less than 0,75 kg/dm<sup>3</sup>. This ball float type automatic air eliminator can be used in combination with other air elimination and separation systems or directly applied at high points in the piping.

**MAIN FEATURES**

Corrosion resistant working parts.  
Replaceable internal parts.

**OPTIONS:** Integrated check valve.

**USE:** Cold and hot water systems.

**AVAILABLE MODELS:** AE16SSE – EPDM valve.  
AE16SSV – Viton valve.  
Suffix "CK": Version with integrated check valve.

**SIZES:** 1/2" and 3/4".

**CONNECTIONS:** Female threaded ISO 7 Rp or NPT.  
1/2" or 3/4" vertical inlet.  
1/2" vertical outlet.

**INSTALLATION:** Vertical installation. It must be installed absolutely vertically at points in the plant where the air tends to collect. The drain should be piped to a safe position.  
See IMI – Installation and maintenance instructions.



**BODY LIMITING CONDITIONS**

THREADED PN 16 ALLOWABLE PRESSURE	RELATED TEMPERATURE
16 bar	100 °C
14,5 bar	150 °C
13,4 bar	200 °C
12,7 bar	250 °C

PMO – Maximum operating pressure: 14 bar.  
TMO – Maximum operating temperature:  
EPDM valve: 130 °C;  
Viton valve: 150 °C.  
Min. liquid specific weight: 0,75 kg/dm<sup>3</sup>.  
Maximum working diff. pressure: 12 bar.

**CE MARKING – GROUP 2 (PED – European Directive)**

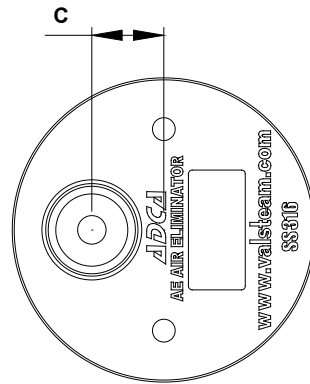
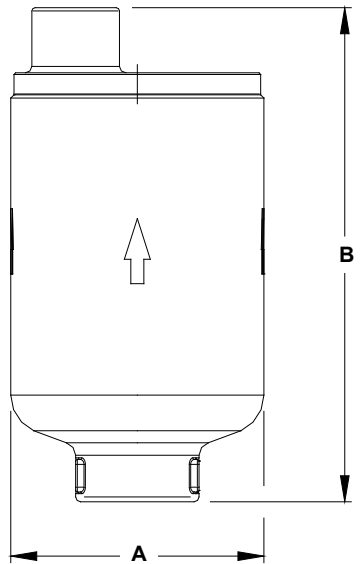
PN 16	Category
1/2" and 3/4"	SEP

**FLOW RATE CAPACITY (NL/min)**

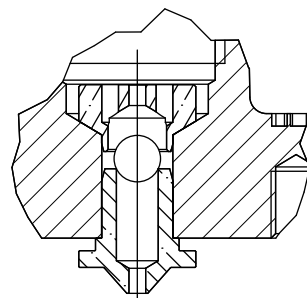
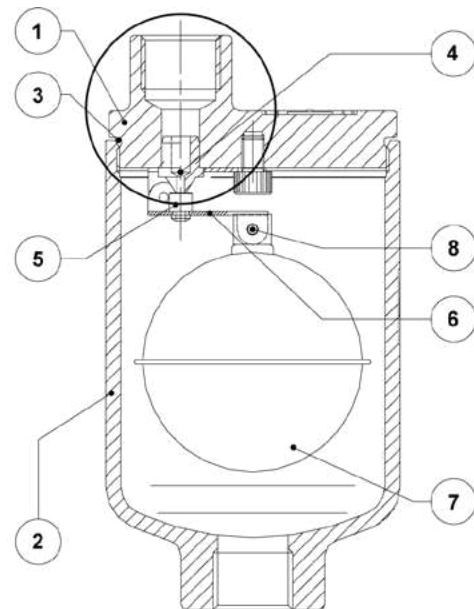
MODEL	SIZE	DIFFERENTIAL PRESSURE (bar)										
		0,5	1	2	3	4	5	6	7	8	10	12
AE16SS	1/2" – 3/4"	47	70	109	145	182	218	255	291	327	400	473

Values shown refer to capacities of air discharge at 15 °C, under average atmospheric pressure (1013 mbar).  
If the temperature of the air differs from 15 °C, the discharge capacity can be corrected by multiplying it by:  $\frac{288}{273 + T}$ , 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)				
SIZE	A	B	C	WEIGHT (kg)
1/2"	78	152	19	1,5
3/4"	78	152	19	1,5



Optional check valve

MATERIALS		
POS. N°	DESIGNATION	MATERIAL
1	Body	A351 CF8M / 1.4408
2	Cover	A351 CF8M / 1.4408
3	* O-ring	EPDM
4	* Seat	AISI 316 / 1.4401
5	* Valve	Viton; EPDM
6, 8	* Lever	AISI 304 / 1.4301
7	* Float	AISI 304 / 1.4301

\* Available spare parts.

**AUTOMATIC AIR AND GAS VENTS FOR LIQUID SYSTEMS  
AE30SS**

**DESCRIPTION**

The AE30SS all stainless steel sealed body air eliminator removes air from hot and superheated water systems and is also suitable for all liquids compatible with the construction, providing that their specific weight is not less than 0,75 kg/dm<sup>3</sup>. This ball float type automatic air eliminator can be used in combination with other air elimination and separation systems or directly applied at high points in the piping.

**MAIN FEATURES**

Corrosion resistant.

USE: Cold, hot and superheated water systems.

**AVAILABLE MODELS:**

AE30SS – stainless steel.

**SIZES:**

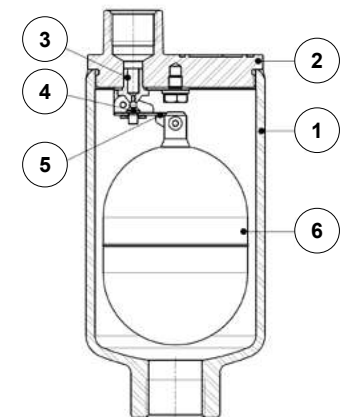
1/2" and 3/4".

**CONNECTIONS:**

Female threaded ISO 7 Rp or NPT.  
1/2" or 3/4" vertical Inlet.  
1/2" vertical outlet.

**INSTALLATION:**

Vertical installation. It must be installed absolutely vertically at the points in the plant where the air tends to collect. The drain should be piped to a safe position. See IMI – Installation and maintenance instructions.



APPLICATION LIMITS	
Min. liquid specific weight	0,75 kg/dm <sup>3</sup>
Maximum working diff. pressure	30 bar

DIMENSIONS (mm)			
SIZE	ØA	B	WEIGHT (kg)
1/2"	80,5	187	2
3/4"	80,5	187	2

BODY LIMITING CONDITIONS	
THREADED PN 40 ALLOW. PRESS.	RELATED TEMPERATURE
40 bar	100 °C
33,7 bar	200 °C
31,8 bar	250 °C
29,7 bar	300 °C

MATERIALS		
POS.	DESIGNATION	MATERIAL
1	Body	A351 CF8M / 1.4408
2	Cover	A351 CF8M / 1.4408
3	Seat	AISI 316 / 1.4401
4	Valve	AISI 316 / 1.4401
5	Lever	AISI 304 / 1.4301
6	Float	AISI 316 / 1.4401

PMO – Max. operating pressure: 30 bar.  
TMO – Max. operating temperature: 300 °C.

		FLOW RATE CAPACITY (NL/min)																	
MODEL	SIZE	DIFFERENTIAL PRESSURE (bar)																	
		0,5	1	2	3	4	5	6	7	8	9	10	12	15	18	20	22	25	30
AE30SS	1/2" – 3/4"	31	46	72	96	120	144	168	192	216	241	265	313	385	457	505	553	626	746

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

If the temperature of the air differs from 15 °C, the discharge capacity can be corrected by multiplying it by:  $\frac{288}{273 + T}$ , 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.

## AUTOMATIC AIR AND GAS VENTS FOR LIQUID SYSTEMS AE41.2 (Stainless steel 1" x 1/2"; DN 25 x 15)

### DESCRIPTION

The AE41.2 is a series of automatic vents 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 soft sealing, and can be used in combination with other air elimination and separation systems or directly applied at high points in the pipelines.

### MAIN FEATURES

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:** Metal to metal sealing.  
Threaded connection on cover, closed with plug.  
HVV – Hand vent valve.

**USE:** Cold, hot and superheated water or other liquids compatible with the construction.

**AVAILABLE MODELS:** AE41.2-6, 14, 21 and 32 – stainless steel.

**SIZES:** 1" x 1/2"; DN 25 x 15.

**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:** 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. ΔP:** AE41.2-6 – 6 bar  
AE41.2-14 – 14 bar  
AE41.2-21 – 21 bar  
AE41.2-32 – 32 bar



BODY LIMITING CONDITIONS			
FLANGED PN 40 *	FLANGED CLASS 150 **	FLANGED CLASS 300 **	RELAT. TEMP.
ALLOW. PRESS.	ALLOW. PRESS.	ALLOW. PRESS.	
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
27,6 bar	9,7 bar	25,2 bar	300 °C

PMO – Maximum operating pressure: 32 bar.  
TMO – Maximum operating temperature:  
FPM / Viton valve sealing: 200 °C.  
Metal to metal sealing: 250 °C.  
Min. liquid specific weight: 0,75 kg/dm³.  
\* Acc. to EN 1092-1:2018; \*\* Acc. to EN 1759-1:2004.  
Body limiting conditions PN 40 or below, depending on the type of connection adopted. Rating PN 40 for threaded and SW versions.

### CE MARKING – GROUP 2 (PED – European Directive)

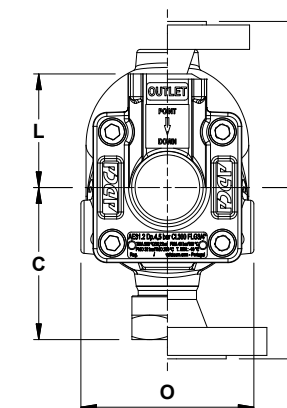
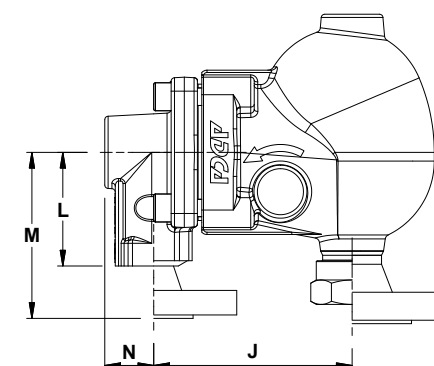
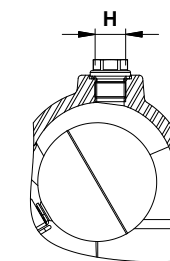
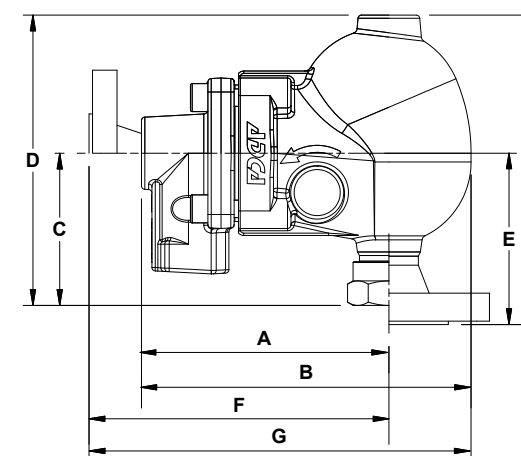
PN 40	Category
1" x 1/2" – DN 25 x 15	SEP

### FLOW RATE CAPACITY (NL/min)

MODEL	SIZE	DIFFERENTIAL PRESSURE (bar)															
		0,1	0,5	1	2	4	6	8	10	12	14	16	18	21	25	32	
AE41.2-6	1" x 1/2" – DN 25 x 15	97	212	266	388	648	907	–	–	–	–	–	–	–	–	–	
AE41.2-14	1" x 1/2" – DN 25 x 15	46	100	125	183	306	428	551	673	795	918	–	–	–	–	–	
AE41.2-21	1" x 1/2" – DN 25 x 15	33	72	90	132	220	308	396	484	573	660	748	837	969	–	–	
AE41.2-32	1" x 1/2" – DN 25 x 15	15	33	41	60	101	141	182	222	263	303	344	385	446	527	669	

Values shown refer to capacities of air discharge at 15 °C, under average atmospheric pressure (1013 mbar).  
If the temperature of the air differs from 15 °C, the discharge capacity can be corrected by multiplying it by:  $\frac{288}{273 + T}$ , 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.

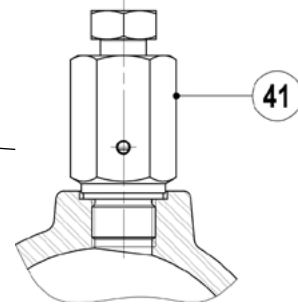
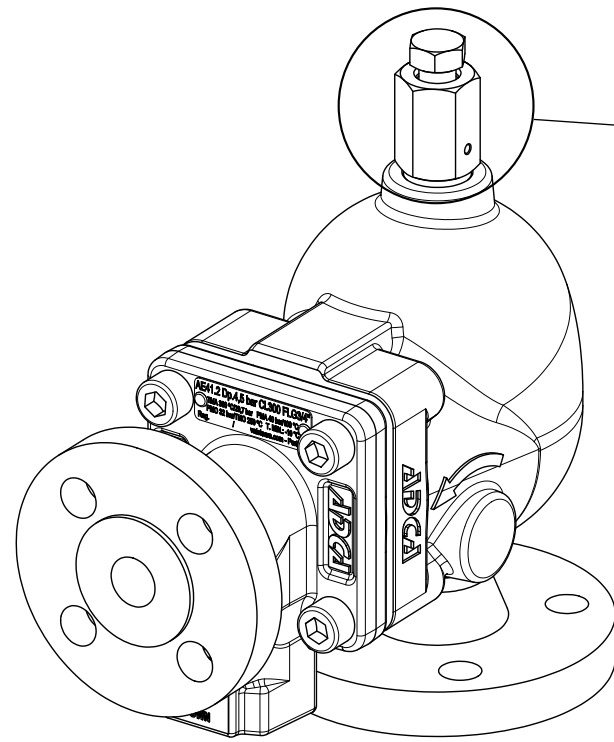
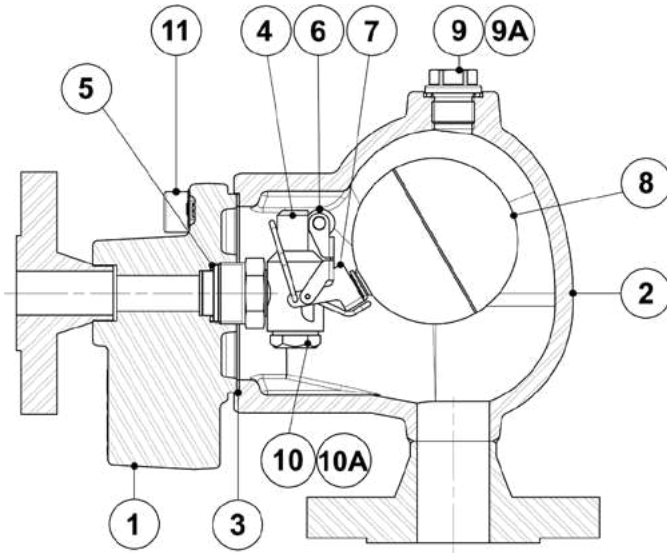


DIMENSIONS (mm)																			
SIZE	THREADED / SW									PN 40									
	A	B	C	D	H*	J	L	N	O	WGT. (kg)	E	F	G	H*	I	J	M	O	WGT. (kg)
1" x 1/2" – DN 25 x 15	168	243	141	214	3/8"	137	65	31	130	9	154	198	273	3/8"	227	137	95	130	11,4
SIZE	CLASS 150									CLASS 300									
	E	F	G	H*	I	J	M	O	WGT. (kg)	E	F	G	H*	I	J	M	O	WGT. (kg)	
1" x 1/2"	169	203	278	3/8"	242	137	100	130	10,9	176	213	288	3/8"	249	137	110	130	12,1	

\* As standard, in versions with EN flanges or female ISO 7 Rp threads, these connections are female threaded ISO 228. In versions with ASME flanges, female NPT threads or SW, these connections are female threaded NPT.

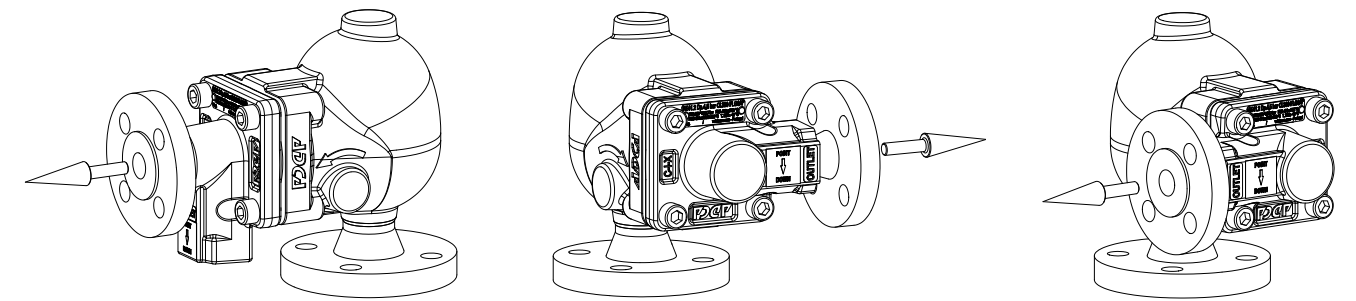
MATERIALS		
POS. N°	DESIGNATION	MATERIAL
1	Body	AISI 316L / 1.4404
2	Cover	A351 CF8M / 1.4408 AISI 316L / 1.4404
3	* Gasket	Stainless steel / Graphite
4	* Seat	AISI 303 / 1.4305
5	* Gasket	Copper
6	* Valve ball	AISI 316 / 1.4401; Viton
7	* Lever	AISI 304 / 1.4301
8	* Float	AISI 304 / 1.4301
9	Plug	AISI 316L / 1.4404
9A	** Gasket	Copper
10	Plug	AISI 304 / 1.4301
10A	Gasket	Copper
11	Bolts	Stainless steel A2-70
41	Hand vent valve	AISI 303 / 1.4305; AISI 316L / 1.4404

\* Available spare parts. \*\* Not applicable in NPT version.



HVV - Hand vent valve

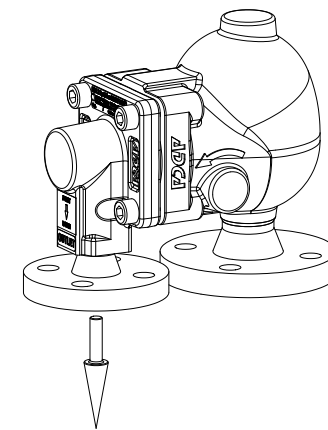
FLOW DIRECTION



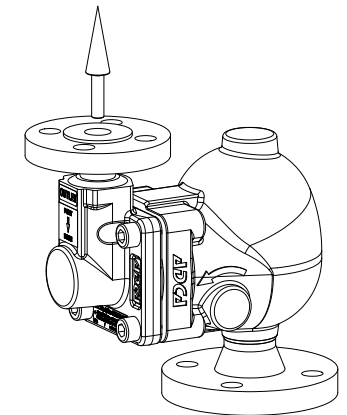
VF - Vertical inlet / straight front outlet

VR - Vertical inlet / right side outlet

VL - Vertical inlet / left side outlet



VB - Vertical inlet / top to bottom outlet



VT - Vertical from bottom to top



ORDERING CODES AE41.2										
Model	AE412	2	V	XX	VF	A	15	A	25	E
AE41.2 – AISI 316L / 1.4404 stainless steel	AE412									
<b>Differential pressure</b>										
6 bar		2								
14 bar		4								
21 bar		5								
32 bar		7								
<b>Valve sealing</b>										
FPM / Viton (standard)			V							
Metal to metal			M							
<b>Cover connections</b>										
None				XX						
3/8" threaded connections on top, closed with plug (mandatory if any options are considered)				10						
<b>Options</b>										
If any, these have specific separate ordering codes, please refer to the appropriate documentation										
<b>Flow direction</b>										
Vertical inlet / straight front outlet					VF					
Vertical inlet / top to bottom outlet					VB					
Vertical inlet / right side outlet					VR					
Vertical inlet / left side outlet					VL					
Vertical from bottom to top					VT					
<b>Outlet pipe connection</b>										
Female threaded ISO 7 Rp						A				
Female threaded NPT						C				
Socket weld (SW) ASME 16.11						H				
Flanged EN 1092-1 PN 40						N				
Flanged ASME B16.5 Class 150						U				
Flanged ASME B16.5 Class 300						V				
<b>Outlet size</b>										
1/2" or DN 15							15			
<b>Inlet pipe connection</b>										
Female threaded ISO 7 Rp								A		
Female threaded NPT								C		
Socket weld (SW) ASME 16.11								H		
Flanged EN 1092-1 PN 40								N		
Flanged ASME B16.5 Class 150								U		
Flanged ASME B16.5 Class 300								V		
<b>Inlet size</b>										
1" or DN 25									25	
<b>Special valves / Extras</b>										
Full description or additional codes have to be added in case of a non-standard combination										E

**AUTOMATIC AIR AND GAS VENTS FOR LIQUID SYSTEMS**  
**AE45.2**  
**(Stainless steel 1" x 1/2", 1" x 1"; DN 25 x 15, DN 25 x 25)**

**DESCRIPTION**

The AE45.2 range of 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 soft sealing, and can be used in combination with other air elimination and separation systems or directly applied at high points in the pipelines.

**MAIN FEATURES**

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:** Metal to metal sealing.  
Threaded connection on cover, closed with plug.  
HVV – Hand vent valve.

**USE:** Cold, hot and superheated water or other liquids compatible with the construction.

**AVAILABLE MODELS:** AE45.2-6, 14, 21 and 32 – stainless steel.

**SIZES:** 1" x 1/2" and 1" x 1"; DN 25 x 15 and DN 25 x 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:** 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. ΔP:** AE45.2-6 – 6 bar  
AE45.2-14 – 14 bar  
AE45.2-21 – 21 bar  
AE45.2-32 – 32 bar

**CE MARKING – GROUP 2 (PED – European Directive)**

CLASS 150	PN 40	Category
All sizes	–	SEP
–	All sizes	1 (CE marked)



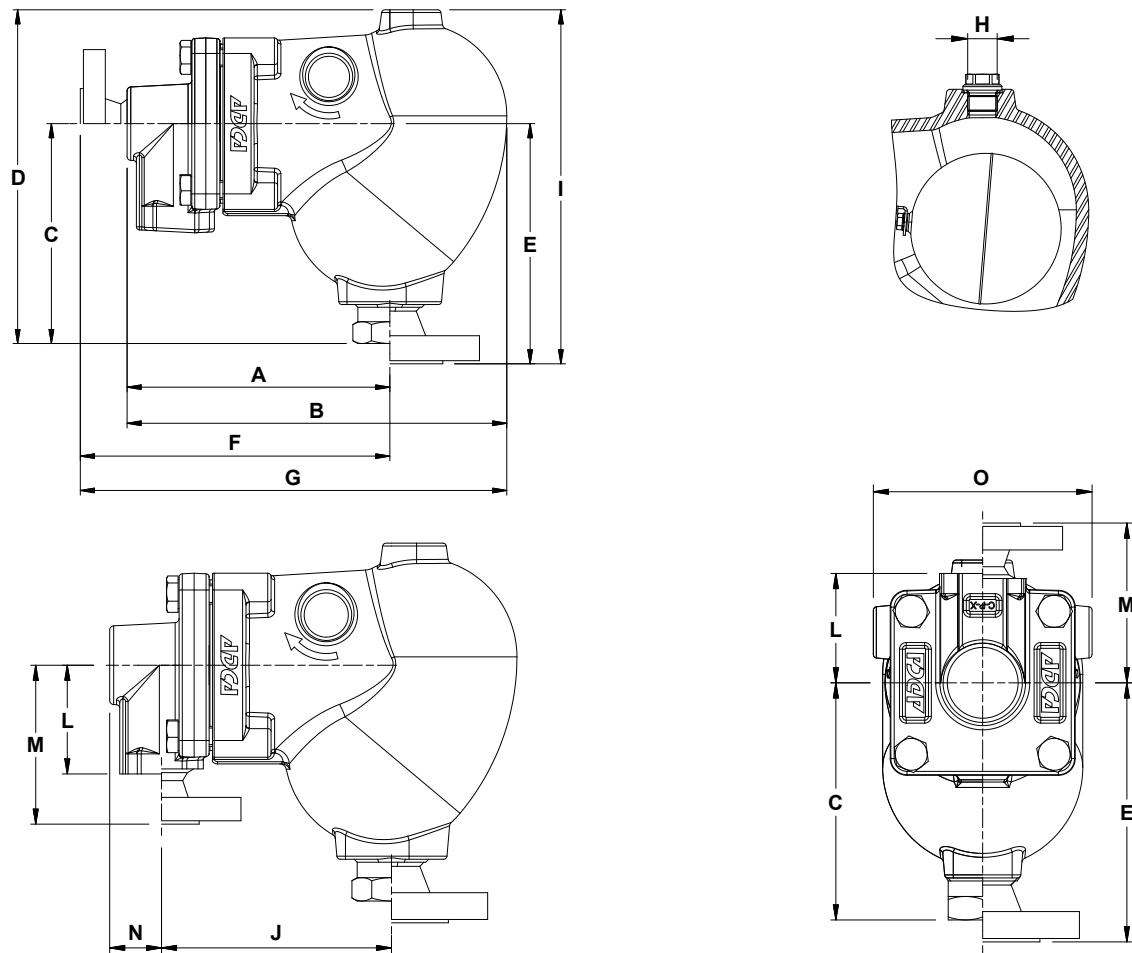
BODY LIMITING CONDITIONS			
FLANGED PN 40 *	FLANGED CLASS 150 **	FLANGED CLASS 300 **	RELAT. TEMP.
ALLOW. PRESS.	ALLOW. PRESS.	ALLOW. PRESS.	
37,9 bar	13,3 bar	34,4 bar	100 °C
31,8 bar	11,1 bar	28,8 bar	200 °C
29,9 bar	10,2 bar	26,6 bar	250 °C
27,6 bar	9,7 bar	25,2 bar	300 °C

PMO – Maximum operating pressure: 32 bar.  
TMO – Maximum operating temperature:  
FPM / Viton valve sealing: 200 °C.  
Metal to metal sealing: 250 °C.  
Min. liquid specific weight: 0,75 kg/dm³.  
\* Acc. to EN 1092-1:2018; \*\* Acc. to EN 1759-1:2004.  
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)																
MODEL	SIZE (INLET)	DIFFERENTIAL PRESSURE (bar)														
		0,1	0,5	1	2	4	6	8	10	12	14	16	18	21	25	32
AE45.2-6	1" – DN 25	201	440	550	803	1340	1875	–	–	–	–	–	–	–	–	–
AE45.2-14	1" – DN 25	127	279	349	510	851	1191	1530	1870	2210	2550	–	–	–	–	–
AE45.2-21	1" – DN 25	97	212	266	388	648	907	1166	1425	1683	1942	2201	2460	2848	–	–
AE45.2-32	1" – DN 25	38	82	104	151	252	354	455	556	657	758	859	960	1112	1314	1668

Values shown refer to capacities of air discharge at 15 °C, under average atmospheric pressure (1013 mbar).  
If the air temperature differs from 15 °C, the discharge capacity can be corrected by multiplying it by  $\frac{288}{273 + T}$ , 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.

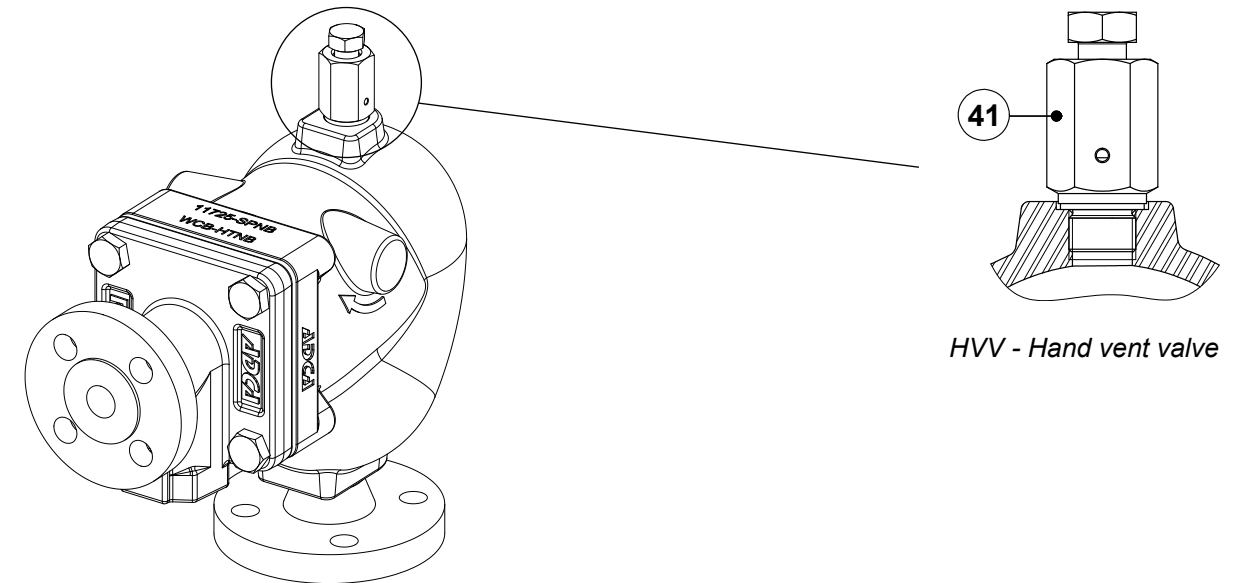
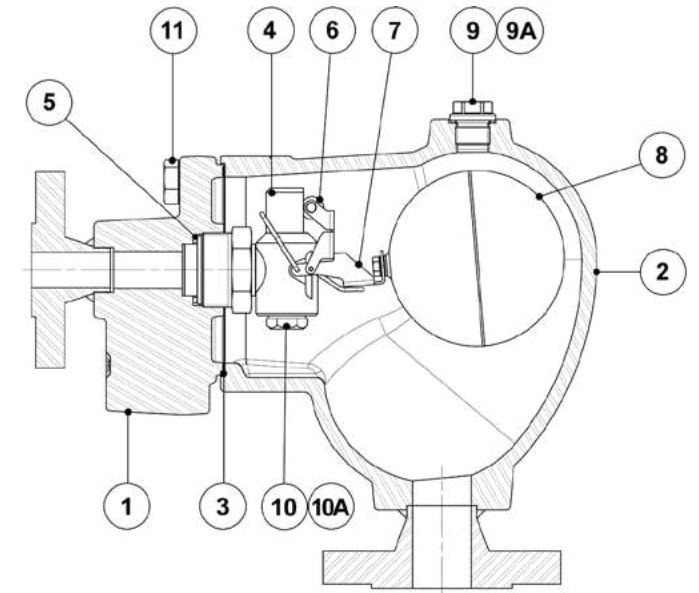


DIMENSIONS (mm)																			
THREADED / SW										PN 40									
SIZE	A	B	C	D	H*	J	L	N	O	WGT. (kg)	E	F	G	H*	I	J	M	O	WGT. (kg)
1" x 1/2" – DN 25 x 15	168	243	141	214	3/8"	137	65	31	130	9,2	154	198	273	3/8"	227	137	95	130	11,1
1" x 1" – DN 25 x 25	168	243	141	214	3/8"	137	65	31	130	9,1	154	198	273	3/8"	227	137	95	130	11,5
CLASS 150										CLASS 300									
SIZE	E	F	G	H*	I	J	M	O	WGT. (kg)	E	F	G	H*	I	J	M	O	WGT. (kg)	
1" x 1/2"	169	203	278	3/8"	242	137	100	130	10,4	176	213	288	3/8"	249	137	110	130	11,3	
1" x 1"	169	203	278	3/8"	242	137	100	130	11	176	213	288	3/8"	249	137	110	130	12,2	

\* As standard, in versions with EN flanges or female ISO 7 Rp threads, these connections are female threaded ISO 228. In versions with ASME flanges, female NPT threads or SW, these connections are female threaded NPT.

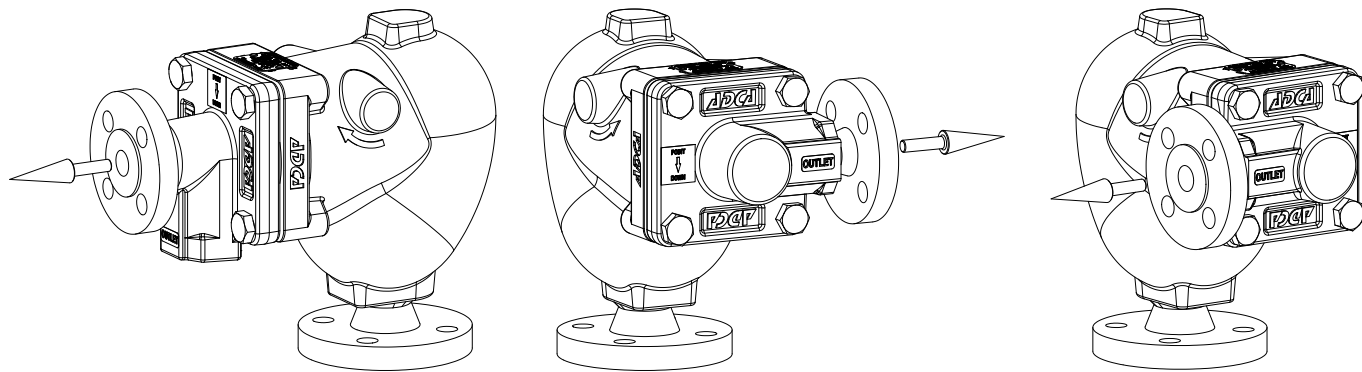
MATERIALS		
POS. N°	DESIGNATION	MATERIAL
1	Body	AISI 316L / 1.4404
2	Cover	A351 CF8M / 1.4408 AISI 316L / 1.4404
3	* Gasket	Stainless steel / Graphite
4	* Seat	AISI 303 / 1.4305
5	* Gasket	Copper
6	* Valve ball	AISI 316 / 1.4401; Viton
7	* Lever	AISI 304 / 1.4301
8	* Float	AISI 304 / 1.4301
9	Plug	AISI 316L / 1.4404
9A	** Gasket	Copper
10	Plug	AISI 304 / 1.4301
10A	Gasket	Copper
11	Bolts	Stainless steel A2-70
41	Hand vent valve	AISI 303 / 1.4305; AISI 316L / 1.4404

\* Available spare parts. \*\* Not applicable in NPT version.

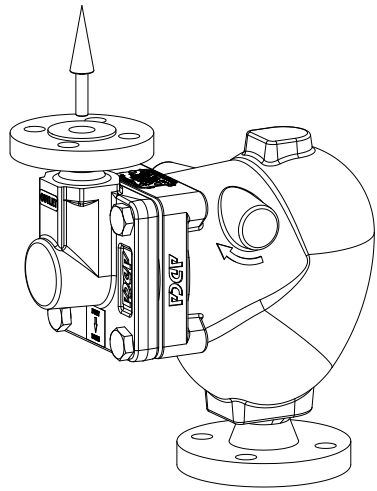


HVV - Hand vent valve

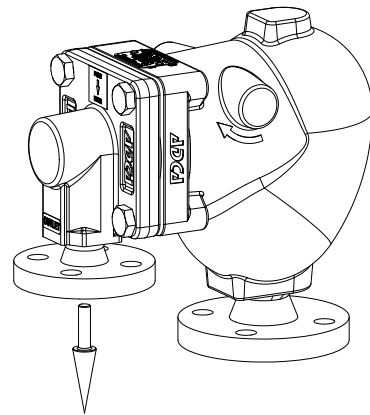
**FLOW DIRECTION**



VF - Vertical inlet / straight front outlet    VR - Vertical inlet / right side outlet    VL - Vertical inlet / left side outlet



VT - Vertical from bottom to top



VB - Vertical inlet / top to bottom outlet

ORDERING CODES AE45.2										
Model	AE452	2	V	XX	VF	A	15	A	25	E
AE45.2 – AISI 316L / 1.4404 stainless steel	AE452									
<b>Differential pressure</b>										
6 bar		2								
14 bar		4								
21 bar		5								
32 bar		7								
<b>Valve sealing</b>										
FPM / Viton (standard)			V							
Metal to metal			M							
<b>Cover connections</b>										
None				XX						
3/8" threaded connections on top, closed with plug (mandatory if any options are considered)				10						
<b>Options</b>										
If any, these have specific separate ordering codes, please refer to the appropriate documentation.										
<b>Flow direction</b>										
Vertical inlet / straight front outlet					VF					
Vertical inlet / top to bottom outlet					VB					
Vertical inlet / right side outlet					VR					
Vertical inlet / left side outlet					VL					
Vertical from bottom to top					VT					
<b>Outlet pipe connection</b>										
Female threaded ISO 7 Rp						A				
Female threaded NPT						C				
Socket weld (SW) ASME 16.11						H				
Flanged EN 1092-1 PN 40						N				
Flanged ASME B16.5 Class 150						U				
Flanged ASME B16.5 Class 300						V				
<b>Outlet size</b>										
1/2" or DN 15							15			
1" or DN 25							25			
<b>Inlet pipe connection</b>										
Female threaded ISO 7 Rp								A		
Female threaded NPT								C		
Socket weld (SW) ASME 16.11								H		
Flanged EN 1092-1 PN 40								N		
Flanged ASME B16.5 Class 150								U		
Flanged ASME B16.5 Class 300								V		
<b>Inlet size</b>										
1" or DN 25									25	
<b>Special valves / Extras</b>										
Full description or additional codes have to be added in case of a non-standard combination										E

## 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.

#### MAIN FEATURES

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. ΔP: AE47.2-10 – 10 bar  
AE47.2-20 – 20 bar  
AE47.2-32 – 32 bar



#### CE MARKING – GROUP 2 (PED – European Directive)

PN 40	Category
All sizes	1 (CE marked)

#### BODY LIMITING CONDITIONS

FLANGED PN 40 *	FLANGED CLASS 150 **	FLANGED CLASS 300 **	RELATED TEMPERATURE
ALLOWABLE PRESSURE	ALLOWABLE PRESSURE	ALLOWABLE PRESSURE	
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
27,6 bar	9,7 bar	25,2 bar	300 °C

PMO – Maximum operating pressure: 32 bar.

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

Min. liquid specific weight: 0,75 kg/dm³.

\* Acc. to EN 1092-1:2018; \*\* Acc. to EN 1759-1:2004.

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

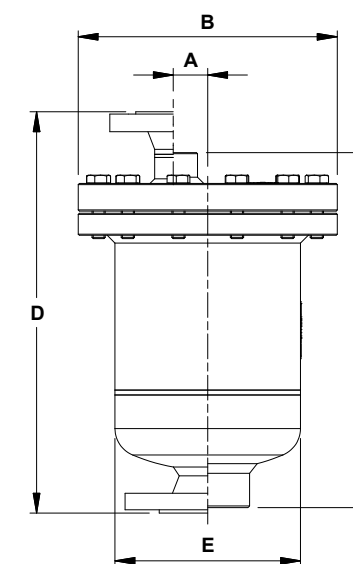
#### FLOW RATE CAPACITY (NL/min)

MODEL	SIZE	DIFFERENTIAL PRESSURE (bar)												
		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  $\frac{288}{273 + T}$ , 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.



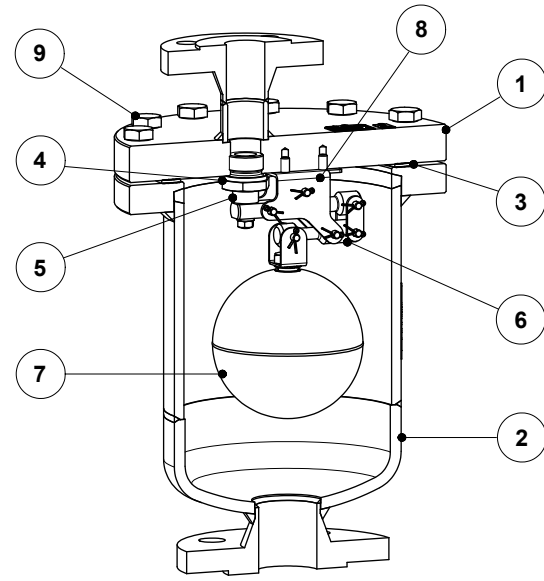
#### DIMENSIONS (mm)

INLET *	THREADED					SW		PN 40		CLASS 150		CLASS 300	
	THREADED					SW		PN 40		CLASS 150		CLASS 300	
OUTLET *	A	B	C	E	WGT. (kg)	C	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

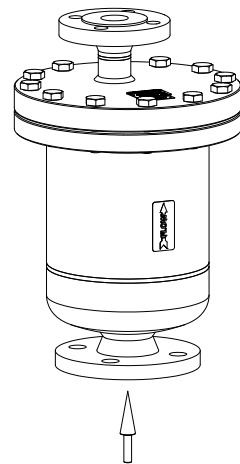
\* For other combinations certified dimensions, consult the manufacturer.

MATERIALS		
POS. N°	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

\* Available spare parts.



**FLOW DIRECTION**



VT - Vertical from bottom to top

ORDERING CODES AE47.2										
Model	AE472	3	E	XX	VT	A	25	A	40	E
AE47.2 – stainless steel	AE472									
<b>Differential pressure</b>										
10 bar		3								
20 bar		5								
32 bar		7								
<b>Valve sealing</b>										
EPDM			E							
FPM / Viton			V							
<b>Cover connection</b>										
None				XX						
<b>Options</b>										
If any, these have specific separate ordering codes, please refer to the appropriate documentation.										
<b>Flow direction</b>										
Inline vertical from bottom to top					VT					
<b>Outlet pipe connection</b>										
Female threaded ISO 7 Rp						A				
Female threaded NPT						C				
Socket weld (SW) ASME 16.11						H				
Flanged EN 1092-1 PN 40						N				
Flanged ASME B16.5 Class 150						U				
Flanged ASME B16.5 Class 300						V				
<b>Outlet size</b>										
1" or DN 25							25			
<b>Inlet pipe connection</b>										
Female threaded ISO 7 Rp								A		
Female threaded NPT								C		
Socket weld (SW) ASME 16.11								H		
Flanged EN 1092-1 PN 40								N		
Flanged ASME B16.5 Class 150								U		
Flanged ASME B16.5 Class 300								V		
<b>Inlet size</b>										
1 1/2" or DN 40									40	
2" or DN 50									50	
<b>Special valves / Extras</b>										
Full description or additional codes have to be added in case of a non-standard combination										E



## AUTOMATIC AIR AND GAS VENTS FOR LIQUID SYSTEMS

### AE49.2

(Stainless steel 21/2" x 11/2", 3" x 11/2", DN 65 x DN 40 and DN 80 x DN 40)

#### DESCRIPTION

The AE49.2 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 high 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.

#### MAIN FEATURES

Suitable for start-up and continuous operation with one single orifice.

High capacity.

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: AE49.2-5, 10, 20, 28 and 32 – stainless steel.

SIZES: 21/2" x 11/2" and 3" x 11/2"; DN 65 x DN 40 and DN 80 x DN 40.

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. ΔP:

AE49.2-5	–	5 bar
AE49.2-10	–	10 bar
AE49.2-20	–	20 bar
AE49.2-28	–	28 bar
AE49.2-32	–	32 bar



#### CE MARKING – GROUP 2 (PED – European Directive)

PN 16	PN 40	Category
All sizes	–	1 (CE marked)
–	All sizes	2 (CE marked)

#### BODY LIMITING CONDITIONS

FLANGED PN 16 *	FLANGED PN 40 *	FLANGED CLASS 150 **	FLANGED CLASS 300 **	RELATED TEMPERATURE
ALLOWABLE PRESSURE	ALLOWABLE PRESSURE	ALLOWABLE PRESSURE	ALLOWABLE PRESSURE	
15,1 bar	37,9 bar	13,3 bar	34,4 bar	100 °C
12,7 bar	31,8 bar	11,1 bar	28,8 bar	200 °C
11,9 bar	29,9 bar	10,2 bar	26,6 bar	250 °C
11 bar	27,6 bar	9,7 bar	25,2 bar	300 °C

PMO – Maximum operating pressure: 32 bar.

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

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

\* Acc. to EN 1092-1:2018; \*\* Acc. to EN 1759-1:2004.

Body limiting conditions PN 40 or below, depending on the type of connection adopted.

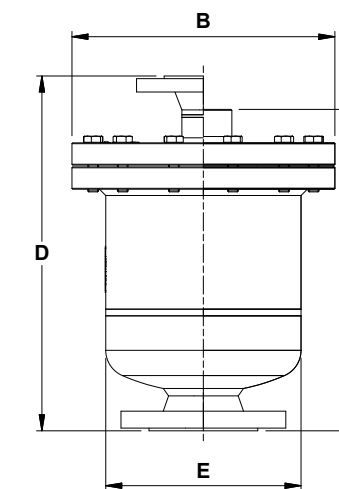
#### FLOW RATE CAPACITY (NL/min)

MODEL	SIZE	DIFFERENTIAL PRESSURE (bar)												
		0,1	0,5	1	3	5	7	10	12	16	20	24	28	32
AE49.2-5	21/2" x 11/2" – DN 65 x 40 3" x 11/2" – DN 80 x 40	661	1446	1806	3522	5277	–	–	–	–	–	–	–	–
AE49.2-10	21/2" x 11/2" – DN 65 x 40 3" x 11/2" – DN 80 x 40	342	749	936	1825	2735	3645	5010	–	–	–	–	–	–
AE49.2-20	21/2" x 11/2" – DN 65 x 40 3" x 11/2" – DN 80 x 40	132	289	362	706	1059	1410	1939	2292	2996	3700	–	–	–
AE49.2-28	21/2" x 11/2" – DN 65 x 40 3" x 11/2" – DN 80 x 40	67	155	231	480	720	960	1319	1559	2038	2517	2247	2607	–
AE49.2-32	21/2" x 11/2" – DN 65 x 40 3" x 11/2" – DN 80 x 40	51	113	141	276	413	551	757	894	1170	1445	1720	1995	2271

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  $\frac{288}{273 + T}$ , 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.



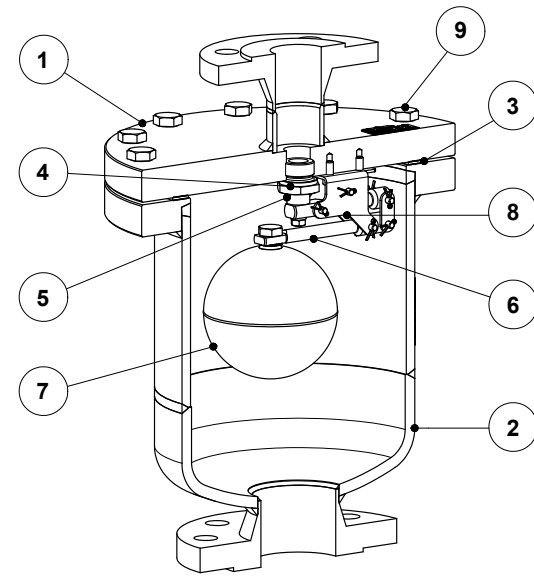
#### DIMENSIONS (mm)

INLET *	PN 16				PN 40		PN 40		PN 16		PN 40		CLASS 150		CLASS 300	
	THREADED				THREADED		SW		PN 16		PN 40		CLASS 150		CLASS 300	
SIZE	B	C	E	WGT. (kg)	C	WGT. (kg)	C	WGT. (kg)	D	WGT. (kg)	D	WGT. (kg)	D	WGT. (kg)	D	WGT. (kg)
21/2" x 11/2" DN 65 x 40	295	346	219	35,2	353	35,8	358	36	384	36,9	391	37,5	394	37,7	406	40
3" x 11/2" DN 80 x 40	295	350	219	36	358	36,8	363	36,9	388	37,7	396	38,5	393	38,4	408	41,8

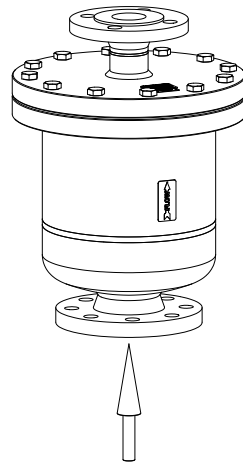
\* For other combinations certified dimensions, consult the manufacturer.

MATERIALS		
POS. N°	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

\* Available spare parts.



**FLOW DIRECTION**



VT - Vertical from bottom to top

ORDERING CODES AE49.2										
Model	AE492	2	E	XX	VT	A	40	L	65	
AE49.2 – stainless steel	AE492									
<b>Differential pressure</b>										
5 bar		2								
10 bar		3								
20 bar		5								
28 bar		6								
32 bar		7								
<b>Valve sealing</b>										
EPDM			E							
FPM / Viton			V							
<b>Cover connection</b>										
None				XX						
<b>Options</b>										
If any, these have specific separate ordering codes, please refer to the appropriate documentation.										
<b>Flow direction</b>										
Inline vertical from bottom to top					VT					
<b>Outlet pipe connection</b>										
Female threaded ISO 7 Rp						A				
Female threaded NPT						C				
Socket weld (SW) ASME 16.11						H				
Flanged EN 1092-1 PN 16						L				
Flanged EN 1092-1 PN 40						N				
Flanged ASME B16.5 Class 150						U				
Flanged ASME B16.5 Class 300						V				
<b>Outlet size</b>										
1 1/2" or DN 40							40			
<b>Inlet pipe connection</b>										
Flanged EN 1092-1 PN 16								L		
Flanged EN 1092-1 PN 40								N		
Flanged ASME B16.5 Class 150								U		
Flanged ASME B16.5 Class 300								V		
<b>Inlet size</b>										
2 1/2" or DN 65									65	
3" or DN 80									80	
<b>Special valves / Extras</b>										
Full description or additional codes have to be added in case of a non-standard combination										E

**AUTOMATIC AIR AND GAS VENTS FOR LIQUID SYSTEMS**

**AE50i**

**(Stainless steel 1/2" x 1/2" to 1" x 1/2"; DN 15 x 1/2" to DN 25 x 1/2")**

**DESCRIPTION**

The AE50 range of 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 soft sealing, and can be used in combination with other air elimination and separation systems or directly applied at high points in the pipelines.

**MAIN FEATURES**

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:** Different soft sealing options.  
Metal to metal sealing.

**USE:** Cold, hot and superheated water or other liquids compatible with the construction.

**AVAILABLE MODELS:** AE50i – stainless steel.

**SIZES:** 1/2" x 1/2", 3/4" x 1/2" and 1" x 1/2";  
DN 15 x 1/2", DN 20 x 1/2" and DN 25 x 1/2".

**CONNECTIONS:** Female threaded ISO 7 Rp or NPT.  
Flanged EN 1092-1 PN 40.  
Flanged ASME B16.5 Class 150 or 300.

**INSTALLATION:** Vertical installation.  
It must be installed absolutely vertically at the points in the plant where the air tends to collect.  
The drain should be piped to a safe location.  
See IMI – Installation and maintenance instructions.



BODY LIMITING CONDITIONS		
FLANGED PN 40 / CLASS 300	FLANGED CLASS 150 *	RELATED TEMP.
ALLOW. PRESS.	ALLOW. PRESS.	
30 bar	13,3 bar	100 °C
28,8 bar	11,1 bar	200 °C
26,6 bar	10,2 bar	250 °C
25,2 bar	9,7 bar	300 °C

PMO – Maximum operating pressure: 30 bar.  
TMO – Maximum operating temperature:  
Metal to metal sealing: 250 °C;  
EPDM valve sealing: 130 °C;  
FPM / Viton valve sealing: 200 °C.  
Min. liquid specific weight: 0,75 kg/dm³.  
\* According to EN 1759-1:2004.  
Body limiting conditions PN 40 or below, depending on the type of connection adopted. Rating PN 40 for threaded versions.

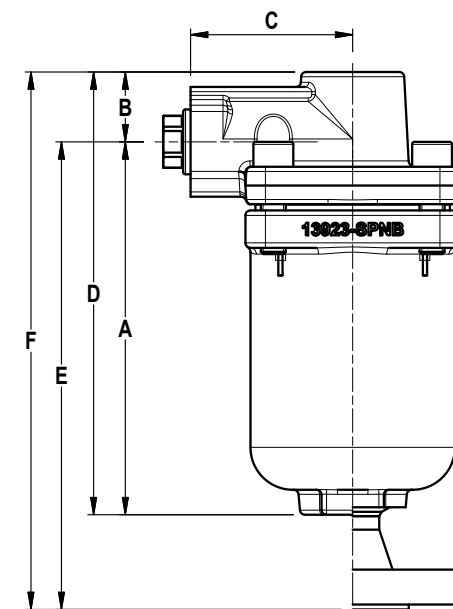
CE MARKING – GROUP 2 (PED – European Directive)	
PN 40	Category
All sizes	SEP

**FLOW RATE CAPACITY (NL/min)**

MODEL	DIFFERENTIAL PRESSURE (bar)																	
	0,5	1	2	3	4	5	6	7	8	9	10	12	15	18	20	22	25	30
AE50i	31	46	72	96	120	144	168	192	216	241	265	313	385	457	505	553	626	746

Values shown refer to capacities of air discharge at 15 °C, under average atmospheric pressure (1013 mbar).  
If the temperature of the air differs from 15 °C, the discharge capacity can be corrected by multiplying it by:  $\frac{288}{273 + T}$ , 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.



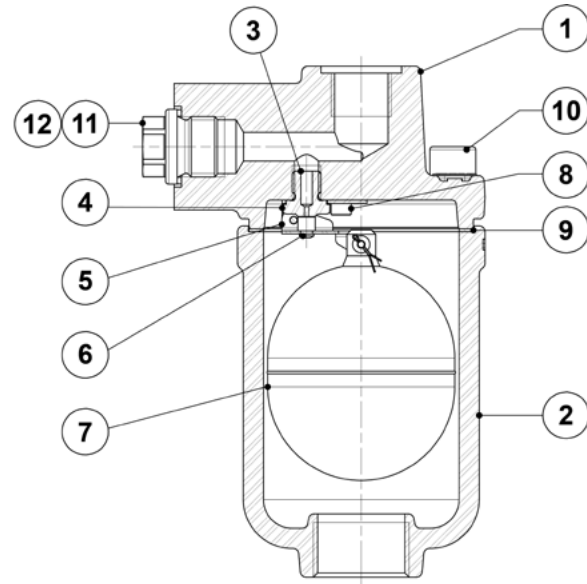
**DIMENSIONS (mm)**

INLET	THREADED				PN 40				CLASS 150			CLASS 300		
	SIZE	A	B	C	D	WGT. (kg)	E	F	WGT. (kg)	E	F	WGT. (kg)	E	F
1/2" x 1/2" – DN 15 x G 1/2"	149	28	65	177	3,6	187	215	4,4	197	225	4,1	202	230	4,4
3/4" x 1/2" – DN 20 x G 1/2"	149	28	65	177	3,6	189	217	4,7	202	230	4,3	207	235	4,9
1" x 1/2" – DN 25 x G 1/2"	149	28	65	177	3,6	189	217	4,8	205	233	4,6	211	239	5,2

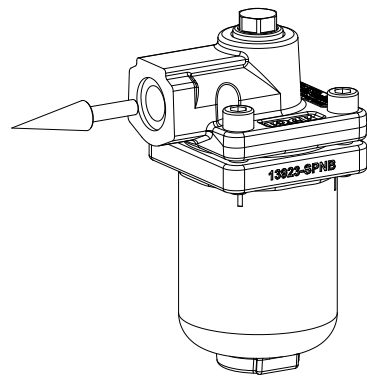
Remarks: As standard, in versions with EN flanged or female Rp threaded inlets, the outlet is female threaded ISO 228. In versions with ASME flanged or female NPT threaded inlets, the outlet is female threaded NPT.

MATERIALS		
POS. N°	DESIGNATION	MATERIAL
1	Body	AISI 316L / 1.4404
2	Cover	A351 CF8M / 1.4408
3	* Seat	AISI 316L / 1.4404
4	Mechanism support	AISI 304 / 1.4301
5	* Lever	AISI 304 / 1.4301
6	* Valve	AISI 316 / 1.4401; EPDM; Viton
7	* Float	AISI 316Ti / 1.4571
8	Bolt	Stainless steel A2-70
9	* Gasket	Stainless steel / Graphite
10	Bolts	Stainless steel A2-70
11	Plug	AISI 316L / 1.4404
12	** Washer	Copper

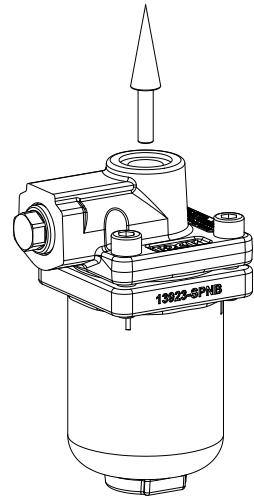
\* Available spare parts; \*\* Not applicable in NPT version.



**FLOW DIRECTION**



VF - Vertical inlet / straight front outlet



VT - Vertical from bottom to top

ORDERING CODES AE50i										
Model	AE50i	6	M	XX	VF	A	15	A	15	E
AE50i – stainless steel	AE50i									
<b>Differential pressure</b>										
30 bar		6								
<b>Valve sealing</b>										
Metal to metal			M							
EPDM				E						
FPM / Viton				V						
<b>Options</b>										
None				XX						
<b>Flow direction</b>										
Vertical inlet / straight front outlet					VF					
Vertical from bottom to top						VT				
<b>Outlet pipe connection</b>										
Female threaded ISO 228						B				
Female threaded NPT							C			
<b>Outlet size</b>										
1/2"							15			
<b>Inlet pipe connection</b>										
Female threaded ISO 7 Rp								A		
Female threaded NPT									C	
Flanged EN 1092-1 PN 40									N	
Flanged ASME B16.5 Class 150									U	
Flanged ASME B16.5 Class 300									V	
<b>Inlet size</b>										
1/2" or DN 15										15
3/4" or DN 20										20
1" or DN 25										25
<b>Special valves / Extras</b>										
Full description or additional codes have to be added in case of a non-standard combination										E