



AUTOMATIC AIR AND GAS VENTS FOR LIQUID SYSTEMS AE45.2

(Stainless steel; 1" x 1/2", 1" x 1" - DN 25 x DN 15 and DN 25 x DN 25)

DESCRIPTION

The ADCA AE45.2 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.



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 DN 15 and DN 25 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 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.

 Δ PMX: AE45.2-6 – 6 bar

AE45.2-14 – 14 bar AE45.2-21 – 21 bar AE45.2-32 – 32 bar





	MARKING – GROL – European Direc	·· =
CLASS 150	PN 40	Category
All sizes	_	SEP
_	All sizes	1 (CE marked)

В	DDY LIMITING	CONDITIONS	
FLANGED PN 40 *	FLANGED CLASS 150 **	FLANGED CLASS 300 **	RELATED
ALLOWABLE PRESSURE	ALLOWABLE PRESSURE	ALLOWABLE PRESSURE	TEMP.
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.

Minimum 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.





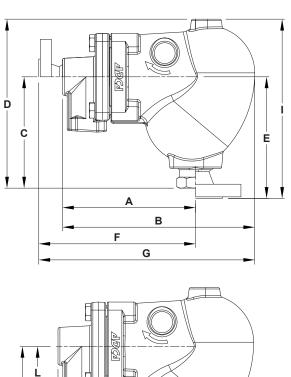


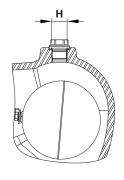
FLOW RATE	CAPACITY	(NL/min)
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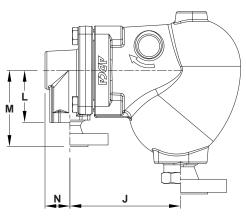
MODEL	SIZE		DIFFERENTIAL PRESSURE (bar)													
WIODEL	(INLET)	0,1	0,5	1	2	4	6	8	10	12	14	16	18	21	25	32
AE45.2-6	1" – DN 25	201	440	550	803	1340	1875	_	_	_	_	_	_	_	_	_
AE45.2-14	1" – DN 25	127	279	349	510	851	1191	1530	1870	2210	2550	_	_	_	_	_
AE45.2-21	1" – DN 25	97	212	266	388	648	907	1166	1425	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

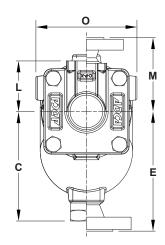
Values shown refer to capacities of air discharge at 15 °C, under average atmospheric pressure (1013 mbar).

If the air temperature differs from 15 °C, the discharge capacity can be corrected by multiplying it by: 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.









							DIME	NSION	IS (mn	n)									
				TH	IREAD	ED / S	W								PN 40				
SIZE	Α	В	С	D	H *	J	L	N	0	WGT. (kg)	E	F	G	H *	-1	J	М	0	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" v 1" _ DN 25 v 25	168	2/13	1/11	21/	3/2"	137	65	21	130	0.1	15/	108	273	3/8"	227	127	05	130	11 5

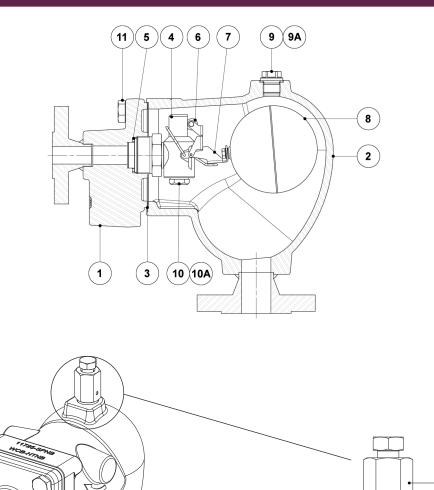
^{1&}quot; x 1" – DN 25 x 25 | 168 | 243 | 141 | 214 | 3/8" | 137 | 65 | 31 | 130 | 9,1 | 154 | 198 | 273 | 3/8" | 227 | 137 | 95 | 130 | 11,5 * As standard, in versions with EN flanges or female ISO 7 Rp threads, these connections are female threaded ISO 228. In versions with ASME flanges, female NPT threads or SW, these connections are female threaded NPT.

							DIN	IENSIC	NS (mı	n)								
				CI	ASS 1	50							CI	ASS 3	00			
SIZE	E	F	G	H *	I	J	М	0	WGT. (kg)	E	F	G	H *	I	J	М	0	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.







	MATERIAL	s
POS. Nº	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	Bolt	Stainless steel A2-70
41	Hand vent valve	AISI 303 / 1.4305; AISI 316L / 1.4404

^{*} Available spare parts. ** Not applicable in NPT version.

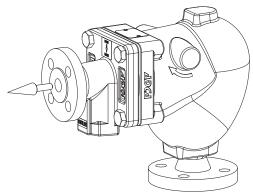


Optional hand vent valve (HVV)

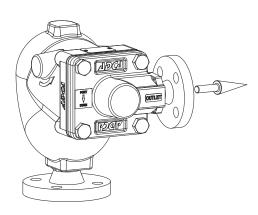




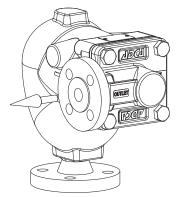
FLOW DIRECTION



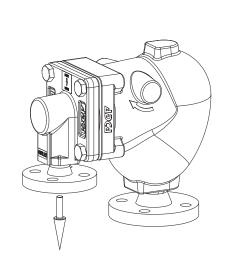




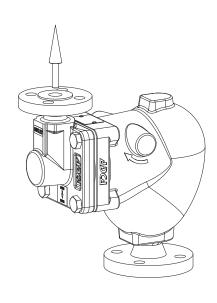
VR - Vertical inlet / right side outlet



VL - Vertical inlet / left side outlet



VB - Vertical inlet / top to bottom outlet



VT - Vertical from bottom to top





ORDERING CODE	S AE45.2								
Model	AE452	2	V	XX	VF	Α	15	Α	25
AE45.2 – AISI 316L / 1.4404 stainless steel	AE452								
Maximum allowable differential pressure (ΔPMX)									
6 bar		2							
14 bar		4							
21 bar		5							
32 bar		7							
Valve sealing		•							
FPM / Viton (standard)			V						
Metal to metal			М						
Cover connections			•						
None				ХХ					
3/8" threaded connections on top, closed with plug (mandatory if any options	are considere	ed)		10					
Options									
If any, these have specific separate ordering codes, please refer to the appropriate ordering codes.	oriate docume	entatio	n						
Flow direction									
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				
Outlet pipe connection									
Female threaded ISO 7 Rp						Α			
Female threaded NPT						С			
Socket weld (SW) ASME B16.11						Н			
Flanged EN 1092-1 PN 40						N			
Flanged ASME B16.5 Class 150						U			
Flanged ASME B16.5 Class 300						٧			
Outlet size									
1/2" or DN 15							15		
1" or DN 25							25		
Inlet pipe connection									
Female threaded ISO 7 Rp								Α	
Female threaded NPT								С	
Socket weld (SW) ASME B16.11								Н	
Flanged EN 1092-1 PN 40								N	
Flanged ASME B16.5 Class 150								U	
Flanged ASME B16.5 Class 300								V	
Inlet size									
1" or DN 25									25
Special construction / Addi	tional antion	_							