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AIR ELIMINATORS FOR WATER SYSTEMS

VALVOIND Srl Via Pascoli, 5 - 24060 Bagnatica (Bergamo) Tel. 035.681919-Fax. 035.684461



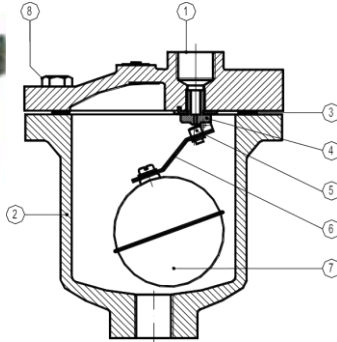
AE16

AIR ELIMINATORS FOR WATER SYSTEMS (Cast Iron)

PN16

Ø 1/2" - Ø 3/4" - Ø 1
DN15 - DN20 - DN25

- USE**
Cold and hot water systems.
- MODELS**
AE16-6E; AE16-14E (EPDM Valve)
AE16-6V; AE16-14V (VITON Valve)
- CONNECTIONS**
Inlet 1/2" to 1" vertical.
Outlet 1/2" vertical.
Female screwed ISO 7/1Rp(BS21)
- 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.



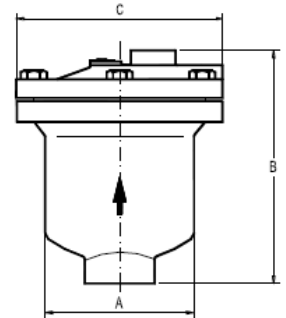
MATERIALS		
POS.Nr.	DESIGNATION	MATERIAL
1	Body	GJS-400-15 / 0.7040
2	Cover	GJS-400-15 / 0.7040
3	* Gasket	St.Steel / Graphite
4	* Seat	AI SI 304 / 1.4301
5	* Valve	VITON or EPDM
6	* Lever	AI SI 304 / 1.4301
7	* Float	AI SI 304 / 1.4301
8	Bolts	Steel 8.8

*Available spare parts

BODY LIMITING CONDITIONS	
Threaded PN16	RELATED TEMP.
ALLOW. PRES.	
16 bar	100 °C
15,5 bar	150 °C
14,7 bar	200 °C
13,9 bar	250 °C
PMO - Max. operating pressure	14 bar
TMO - Max. operating temperature (EPDM valve)	130 °C
TMO - Max. operating temperature (VITON valve)	180 °C

APPLICATION LIMITS	
Min.Liquid specific weight	0,75 Kg/dm ³
Maximum working dif.pressure-AE16/6	6 bar
Maximum working dif.pressure-AE16/14	14 bar

DIMENSIONS (mm)				
SIZE DN	A	B	C	WGT. Kgs
1/2"	100	150	140	4
3/4"	100	150	140	4
1"	100	150	140	4



FLOW RATE CAPACITY IN Kgs/h														
MODEL	SIZE	DIFFERENTIAL PRESSURE (bar)												
		0,5	1	2	3	4	5	6	7	8	10	12	13	14
AE16-6	1/2"-1"	75	95	140	185	245	265	330						
AE16-14	1/2"-1"	45	65	95	125	165	185	225	263	290	365	425	445	475

Capacities at a standard atmospheric pressure of 1bar and 20°C.
If the 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.

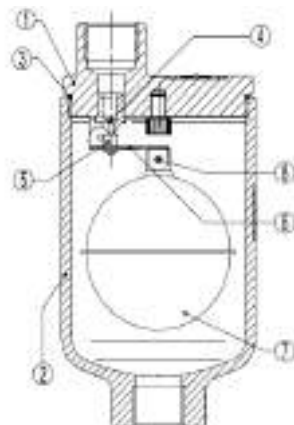
AE16SS

AIR ELIMINATORS FOR WATER SYSTEMS (Stainless steel)

PN16

Ø 1/2" - Ø 3/4"
DN15 - DN20

- USE**
Cold and hot water systems.
- MODELS**
AE16SSE (EPDM valve)
AE16SSV (VITON valve)
- CONNECTIONS**
Inlet 1/2" or 3/4" vertical.
Outlet 1/2" vertical.
Female screwed ISO 7/1Rp(BS21)
- 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.



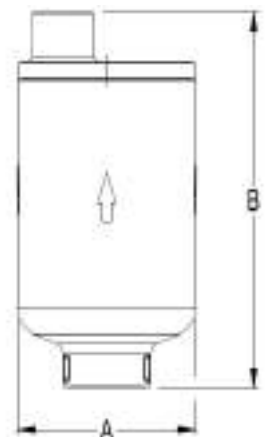
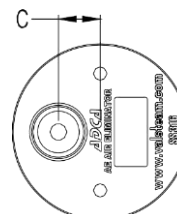
MATERIALS		
POS.Nr.	DESIGNATION	MATERIAL
1	Body	CF8M / 1.4408
2	Cover	CF8M / 1.4408
3	* O-ring	NBR
4	* Seat	AI SI 316 / 1.4401
5	* Valve	VITON or EPDM
6,8	* Lever	AI SI 304 / 1.4301
7	* Float	AI SI 304 / 1.4301

*Available spare parts

BODY LIMITING CONDITIONS	
Threaded PN16	RELATED TEMP.
ALLOW. PRES.	
16 bar	100 °C
14,5 bar	150 °C
13,4 bar	200 °C
12,7 bar	250 °C
PMO - Max. operating pressure	14 bar
TMO - Max. operating temperature (EPDM valve)	
TMO - Max. operating temperature (VITON valve)	

APPLICATION LIMITS	
Min.Liquid specific weight	0,75 Kg/dm ³
Maximum working dif.pressure	12 bar

DIMENSIONS (mm)				
SIZE DN	A	B	C	WGT. Kgs
1/2"	78	152	19	1,5
3/4"	78	152	19	1,5



FLOW RATE CAPACITY IN Kgs/h												
MODEL	SIZE	DIFFERENTIAL PRESSURE (bar)										
		0,5	1	2	3	4	5	6	7	8	10	12
AE16SS	1/2"-3/4"	45	65	95	125	165	185	225	263	290	365	425

Capacities at a standard atmospheric pressure of 1bar and 20°C.
If the 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.

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AIR ELIMINATORS FOR WATER SYSTEMS



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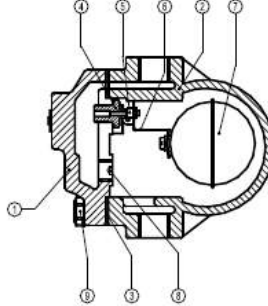
AE17/G

AIR ELIMINATORS FOR WATER SYSTEMS

PN16

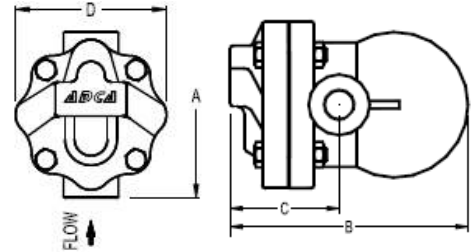
Ø 1/2" - Ø 3/4"
DN15 - DN20

- USE**
Cold and hot water systems.
- MODELS**
AE 17 G
- CONNECTIONS**
Female screwed ISO 7/1Rp(BS21)
- 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.



MATERIALS		
POS.Nr.	DESIGNATION	MATERIAL
1	Body	GJS-400-15 / 0.7040
2	Cover	GJS-400-15 / 0.7040
3	* Gasket	St. Steel / Graphite
4	* Seat	AISI 304 / 1.4301
5	* Valve	VITON or EPDM
6	* Lever	AISI 304 / 1.4301
7	* Float	AISI 304 / 1.4301
8	Plug	A105 / 1.0432
9	Bolts	Steel 8.8

*Available spare parts



BODY LIMITING CONDITIONS	
Threaded PN16	RELATED TEMP.
ALLOW. PRES.	
16 bar	100 °C
15,5 bar	150 °C
14,7 bar	200 °C
13,9 bar	250 °C
PMO - Max. operating pressure	14 bar
TMO - Max. operating temperature (EPDM valve)	130 °C
TMO - Max. operating temperature (VITON valve)	180 °C

APPLICATION LIMITS	
Min. Liquid specific weight	0,75 Kg/dm ³
Maximum working dif. pressure	14 bar

MODEL	SIZE	FLOW RATE CAPACITY IN Kgs/h												
		DIFFERENTIAL PRESSURE (bar)												
AE 17/G	1/2" - 3/4"	0,5	1	2	3	4	5	6	7	8	10	12	13	14
		45	65	95	125	165	185	225	263	290	365	425	445	475

Capacities at a standard atmospheric pressure of 1bar and 20°C.
If the 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.

SIZE DN	DIMENSIONS (mm)				
	A	B	C	D	WGT. Kgs
1/2"	122	150	68	108	3,5
3/4"	122	150	68	108	3,5

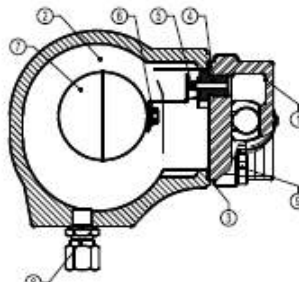
AE20-21

AIR ELIMINATORS FOR WATER SYSTEMS (Carbon Steel)

PN40 - ANSI

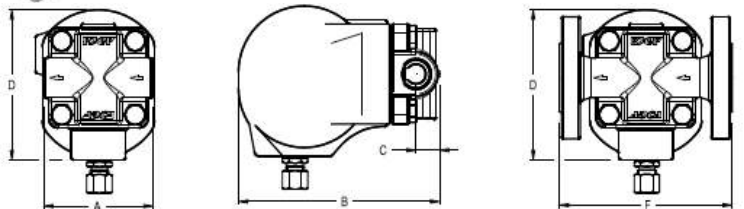
Ø 1/2" - Ø 1"
DN15 - DN25

- OPTIONAL**
Internal strainer (only on horizontal models).
- USE**
Cold, hot and superheated water systems.
- MODELS**
AE 20-21
- CONNECTIONS**
Female screwed ISO 7/1Rp(BS21). Flanged EN 1092-1 PN40 or ANSI. Special flanges upon request.
- INSTALLATION**
Horizontal or vertical installation (on request). It must be installed with the float lever in horizontal plane, so that it rises and falls vertically. It should be installed 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.



MATERIALS		
POS.Nr.	DESIGNATION	MATERIAL
1	Body	GP240GH / 1.0619
2	Cover	GP240GH / 1.0619
3	*Gasket	Stainless st. / Graphite
4	*Seat	AISI 410 / 1.4006
5	*Valve	VITON **AISI 410 / 1.4006
6	*Lever	AISI 304 / 1.4301
7	*Float	AISI 304 / 1.4301
8	Compression fitting	Fe / Zn 12 - ISO 2081
9	Bolts	Steel 8.8

*Available spare parts ** Optional



BODY LIMITING CONDITIONS		
FLANGED PN40 / ANSI 300*	FLANGED ANSI 150 **	RELATED TEMP.
ALLOW. PRES.	ALLOW. PRES.	
37,1 bar	15,4 bar	100 °C
33,3 bar	13,8 bar	200 °C
30,4 bar	12,1 bar	250 °C
27,6 bar	10,2 bar	300 °C
PMO - Max. operating pressure	32 bar	
TMO - Max. operating temperature	200 °C	

* Secondo EN1092-1: 2007; ** Acc. a EN1759-1: 2004
Condizioni limite del corpo PN40 o inferiore, a seconda del tipo di connessione adottata. Valutazione PN40 per filettatura, SW e BW.

SIZE DN	DIMENSIONS (mm)										
	Screwed					EN PN16/40		ANSI 150		ANSI 300	
	A	B	C	D	WGT. Kgs	F	WGT. Kgs	F	WGT. Kgs	F	WGT. Kgs
15-1/2"	95	178	23	128	5,2	150	6,7	150	6,2	150	7
20-3/4"	95	178	23	128	5,2	150	7,4	150	6,6	150	8,2
25-1"	95	178	23	128	5,2	160	7,8	160	7,4	160	9

MODEL	SIZE	FLOW RATE CAPACITY IN Kgs/h										
		DIFFERENTIAL PRESSURE (bar)										
AE 20-21	15 - 25	0,5	1	1,5	2	3	4	6	8	10	15	21
		18	32	45	55	75	90	130	180	210	300	430

Capacities at a standard atmospheric pressure of 1bar and 20°C.
If the 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.

APPLICATION LIMITS	
Min. Liquid specific weight	0,75 Kg/dm ³
Maximum working dif. pressure-AE20-21	21 bar

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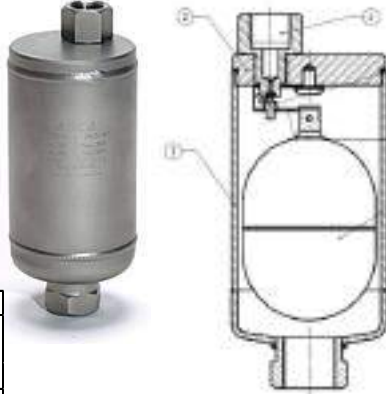
AE30SS

**AIR ELIMINATORS FOR WATER SYSTEMS
(Stainless steel)**

PN40

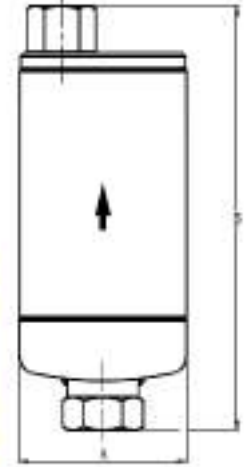
**Ø 1/2" - Ø 3/4"
DN15 - DN20**

- OPTION**
Inner Filter.
- USE**
Cold, hot and superheated water systems.
- MODELS**
AE30SS
- CONNECTIONS**
Inlet 1/2" or 3/4" vertical. Outlet 1/2" vertical.
Female screwed ISO 7/1Rp(BS21) ANSI B2.1 on request
- 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.



MATERIALS		
POS.Nr.	DESIGNATION	MATERIAL
1	Body	AISI316 / 1.4401
2	Cover	AISI316 / 1.4401
4	Seat	AISI316 / 1.4401
5	Valve	AISI316 / 1.4401
6	Lever	AISI304 / 1.4301
7	Float	AISI316 / 1.4401

DIMENSIONS (mm)			
SIZE DN	A	B	WGT. Kgs
1/2"	75	187	1,3
3/4"	75	187	1,3



BODY LIMITING CONDITIONS	
THREADED PN40	RELATED TEMP.
ALLOW. PRES.	
40 bar	100 °C
33,7 bar	200 °C
31,8 bar	250 °C
29,7 bar	300 °C
PVO - Max. operating pressure	30 bar
TMO - Max. operating temperature	300 °C

APPLICATION LIMITS	
Min.Liquid specific weight	0,75 Kg/dm3
Maximum working dif.pressure-AE32-17	30 bar

MODEL		SIZE	FLOW RATE CAPACITY IN Kgs/h																	
			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"		50	70	90	100	135	150	175	180	185	200	220	240	255	285	300	330	370	400

Capacities at a standard atmospheric pressure of 1bar and 20°C.
If the 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.

AE32

**AIR ELIMINATORS FOR WATER SYSTEMS
(Carbon Steel)**

PN40 - ANSI

**Ø 1"
DN25**

- OPTIONAL**
Internal strainer (only on horizontal models).
- USE**
Cold, hot and superheated water systems.
- MODELS**
AE 32-17
- CONNECTIONS**
Female screwed ISO 7/1Rp(BS21).
Flanged EN 1092-1 or ANSI.
Special flanges upon request.
- INSTALLATION**
Horizontal or vertical installation (on request).
It must be installed with the float lever in horizontal plane, so that it rises and falls vertically. It should be installed at the points in the plant where the air tends to collect.
The drain should be piped to a safe position.



MATERIALS		
POS.Nr.	DESIGNATION	MATERIAL
1	Body	GP240GH / 1.0619
2	Cover	GP240GH / 1.0619
3	*Gasket	Stainless st. / Graphite
4	*Seat	AISI 410 / 1.4006
5	*Valve	AISI 410 / 1.4006
6	*Lever	AISI 304 / 1.4301
7	*Float	AISI 304 / 1.4301
8	Compression fitting	Fe / Zn 12 - ISO 2081
9	Bolts	Steel 8.8

*Available spare parts

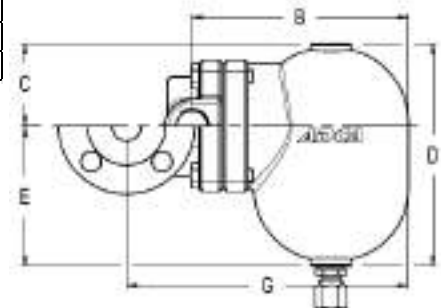
		DIMENSIONS (mm)																							
		Screwed				EN PN 16 / 40		EN PN 16 / 40 *		ANSI 150		ANSI 150 *		ANSI 300		ANSI 300 *									
SIZE DN		A	B	C	D	E	WT. Kgs	F	G	WT. Kgs	F	B	WT. Kgs	F	G	WT. Kgs	F	B	WT. Kgs						
25-1"		120	195	80	190	110	9	160	248	11,3	230	195	12	160	248	11	230	195	11,2	160	248	11,3	230	195	12,8

* Alternative

BODY LIMITING CONDITIONS		
FLANGED PN40 / ANSI 300*	FLANGED ANSI 150 **	RELATED TEMP.
ALLOW. PRES.	ALLOW. PRES.	
37,1 bar	15,4 bar	100 °C
33,3 bar	13,8 bar	200 °C
30,4 bar	12,1 bar	250 °C
27,6 bar	10,2 bar	300 °C
PVO - Max. operating pressure	32 bar	
TMO - Max. operating temperature	200 °C	
* Secondo EN1092-1: 2007; ** Acc. a EN1759-1: 2004		
Condizioni limite del corpo PN40 o inferiore, a seconda del tipo di connessione adottata. Valutazione PN40 per filettatura, SW e BW.		

APPLICATION LIMITS	
Min.Liquid specific weight	0,75 Kg/dm3
Maximum working dif.pressure-AE32-17	17 bar

CE MARKING (PED - European Directive 97/23/EC)	
PN 40	Category
DN25 - DN1"	1 (CE Marked)



MODEL		SIZE	FLOW RATE CAPACITY IN Kgs/h									
			DIFFERENTIAL PRESSURE (bar)									
			0,5	1	2	4	6	8	10	13	17	
A E32-17	1" - 25		75	120	240	420	535	720	870	1.200	1.380	

Capacities at a standard atmospheric pressure of 1bar and 20°C.
If the 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.