



### **COMPRESSED AIR BALL FLOAT TRAPS FA17/G**

#### **DESCRIPTION**

FA 17/G is a fully automatic ball float trap extremely compact in dimension and light in weight, specially designed for draining water from compressed air lines.

Applications on aftercoolers, separators and compressed air mains.

Connections are female screwed or flanged.



Modulating discharge.

Unaffected by sudden or wide load and pressure changes.

**OPTIONS:** Horizontal reversible inlet connections.

USE: Compressed air and non corrosive gas,

compatible with the construction.

**AVAILABLE** 

FA 17/G MODELS:

SIZES: DN ½" - 3/4"; DN 15 - DN 20.

CONNECTIONS: Female screwed ISO 7/1Rp(BS21)

Flanged EN 1092-2 PN16 or ANSI

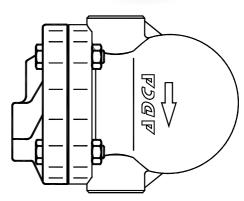
INSTALLATION: Vertical installation.

See IMI installation and maintenance

instructions.

APPLICATION LIMITS									
Min.Liquid specific weight	0,75 Kg/dm3								
Maximum working dif.pressure	14 bar								





BODY	BODY LIMITING CONDITIONS										
FLANGED PN16*	FLANGED ANSI 150 **	RELATED TEMP.									
ALLOW. PRES.	ALLOW. PRES.	I LIMF.									
16 bar	15,4 bar	100 ºC									
15,5 bar	14,6 bar	150 ºC									
14,7 bar	13,8 bar	200 ºC									
13,9 bar	12,1 bar	250 ºC									

PMO - Max. operating pressure 14 bar TMO - Max. operating temperature 200 °C

\* According to EN1092-2:2000; \*\* Acc. to EN1759-1:2004 Body limiting conditions PN16 or below, depending on the type of connection adopted. Rating PN16 for thread.

	FLOW RATE CAPACITY IN Kg /h													
MODEL SIZE		DIFFERENTIAL PRESSURE (bar)												
	SIZE	0,5	1	1,5	2	3	4	6	7	8	9	10	12	14
FA17G	1/2"-3/4"	120	145	180	190	230	250	300	330	340	360	380	430	430







## COMPRESSED AIR BALL FLOAT TRAPS FA17/G (DN40 – DN50)

#### **DESCRIPTION**

FA17/G is a fully automatic ball float trap extremely compact in dimension and light in weight, specially designed for draining water from compressed air lines.

Applications on aftercoolers, separators and compressed air mains.

Connections are screwed or flanged.



Modulating discharge.

Unaffected by sudden or wide load and pressure changes.



USE: Compressed air and non corrosive gas,

compatible with the construction.

**AVAILABLE** 

MODELS: FA 17 G

SIZES: DN 11/2" -2"; DN 40 – DN 50.

CONNECTIONS: Female screwed ISO 7/1 Rp (BS21)

Flanged EN 1092-2 PN16 or ANSI

INSTALLATION: Standard horizontal installation-flow

from right to left (R-L).

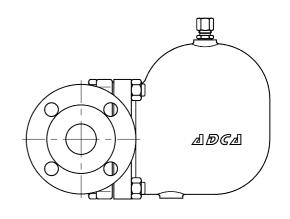
Vertical installation with the flow from

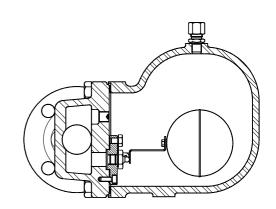
top to bottom (V).

See IMI installation and maintenance

instructions.

APPLICATION LIMITS									
Min.Liquid specific weight	0,75 Kg/dm3								
Maximum working dif.pressure	14 bar								





BODY LIMITING CONDITIONS										
FLANGED PN16*	FLANGED ANSI 150 **	RELATED TEMP.								
ALLOW. PRES.	ALLOW. PRES.	I EWIT .								
16 bar	15,4 bar	100 ºC								
15,5 bar	14,6 bar	150 ºC								
14,7 bar	13,8 bar	200 ºC								
13,9 bar	12,1 bar	250 ºC								

PMO - Max. operating pressure 14 bar TMO - Max. operating temperature 200 °C

\* According to EN1092-2:2000; \*\* Acc. to EN1759-1:2004 Body limiting conditions PN16 or below, depending on the type of connection adopted. Rating PN16 for thread.

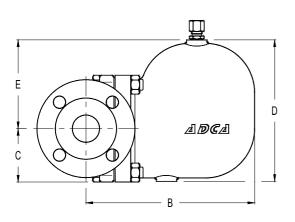
	FLOW RATE CAPACITY IN Kg /h													
MODEL	SIZE		DIFFERENTIAL PRESSURE (bar)											
WODEL	SIZE	0,5	1	1,5	2	3	4	6	7	8	9	10	12	14
FA17G	40 - 50	370	515	605	720	900	1005	1250	1340	1500	1560	1620	1750	1890

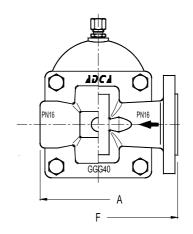






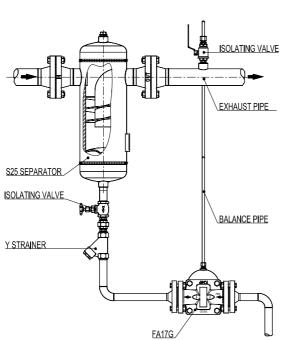
	DIMENSIONS (mm)												
Screwed								EN PI	<b>1</b> 16	ANSI 150			
SIZE DN	Α	В	С	D	E	WGT. Kgs	F	В	WGT. Kgs	FR		WGT. Kgs	
40-11/2"	210	248	79	208	131	16,9	230	248	20,3	230	248	19,1	
50-2"	210	248	79	208	131	17,5	230	248	20,7	230	248	20,5	

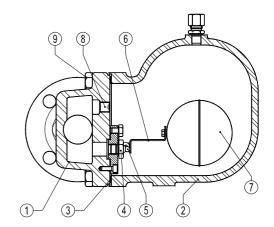


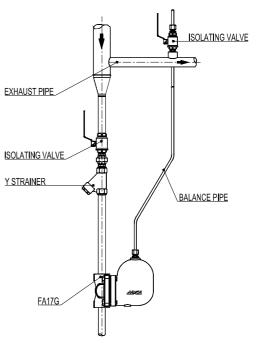


	MATERIALS	
POS.Nr.	DESIGNATION	MATERIAL
1	Body	GJS-400-15 / 0.7040
2	Cover	GJS-400-15 / 0.7040
3	* Gasket	St.Steel / Graphite
4	* Seat	AISI 304 / 1.4301
5	* Valve	AISI 304 / 1.4301
6	* Lever	AISI 304 / 1.4301
7	* Float	AISI 304 / 1.4301
8	Plug	St. Steel
9	Bolts	Steel 8.8

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













## COMPRESSED AIR BALL FLOAT TRAPS FA20 (Carbon Steel)

#### DESCRIPTION

FA20 series compressed air float traps are specially designed for draining water from high pressure compressed air and gas lines.

Applications on aftercoolers, separators and compressed air and gas mains.

An air balance pipe must be fitted allowing the air trapped in the trap body to escape, avoiding obstructing of condensate flow.

Connections are flanged or female screwed.



Modulating discharge.

Unaffected by sudden or wide load and pressure changes.



models).

Equalizing and drain plug on body.

Lifting lever.

USE: Compressed air and non corrosive

gas compatible with the construction.

**AVAILABLE** 

MODELS: FA 20-21.

SIZES: DN 1/2" - 1", DN 15 - DN 25.

CONNECTIONS: Female screwed ISO 7/1Rp(BS21)

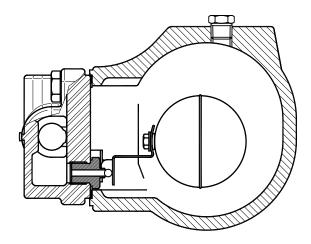
Flanged EN 1092-1 PN40 or ANSI.

Special flanges upon request.

INSTALLATION Horizontal or vertical installation.

APPLICATION LIMITS									
Min.Liquid specific weight	0,75 Kg/dm3								
Maximum working dif.pressure-FA20-21	21 bar								





BODY	BODY LIMITING CONDITIONS										
FLANGED PN25 / ANSI 300*	FLANGED ANSI 150 **	RELATED TEMP.									
ALLOW. PRES.	ALLOW. PRES.										
23,2 bar	15,4 bar	100 ºC									
22 bar	15,8 bar	150 °C									
20,8 bar	13,8 bar	200 °C									
19 bar	12,1 bar	250 °C									

PMO - Max. operating pressure 21 bar TMO - Max. operating temperature 200 °C

\* According to EN1092-1:2007; \*\* Acc. to EN1759-1:2004 Body limiting conditions PN25 or below, depending on the type of connection adopted. Rating PN25 for thread,SW and BW.

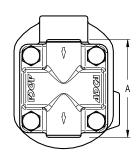
	FLOW RATE CAPACITY IN Kgs/h															
MODEL SIZE DIFFERENTIAL PRESSURE (bar)																
WODEL	SIZE	0,5	1	1,5	2	3	4,5	6	7	8	9	10	12	14	16	21
FA20	15 - 25	75	100	125	155	180	220	255	275	290	305	320	345	375	420	480

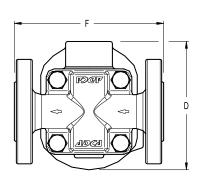


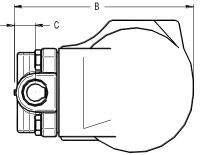


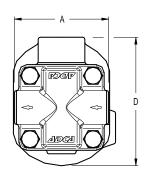


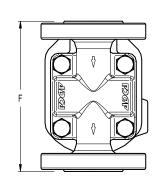
	DIMENSIONS (mm)												
Screwed						EN P	N16/40	ANS	SI 150	ANSI 300			
SIZE DN	A	В	С	D	WGT. Kgs	F	WGT. Kgs	F	WGT. Kgs	F	WGT. Kgs		
15-1/2"	95	178	23	128	5,2	150	6,7	150	6,2	150	7		
20-3/4"	95	178	23	128	5,2	150	7,4	150	6,6	150	8,2		
25-1"	95	178	23	128	5,2	160	7,8	160	7,4	160	9		



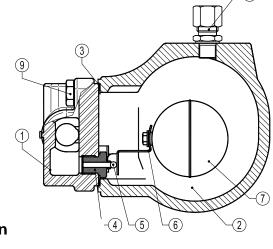




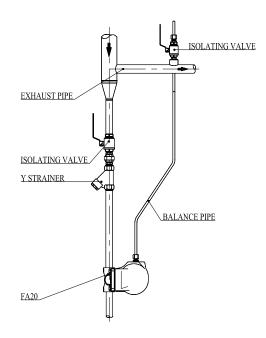


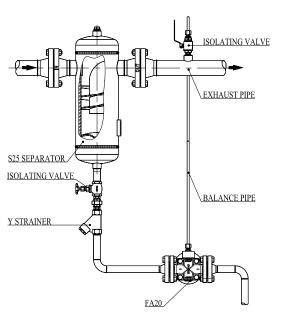


	MATERIALS										
POS.Nr.	DESIGNATION	MATERIAL									
1	Body	GP240GH / 1.0619									
2	Cover	GP240GH / 1.0619									
3	*Gasket	Stainless st. / Graphite									
4	*Seat	AISI 410 / 1.4006									
5	*Valve	VITON									
5	vaive	** AISI 410 / 1.4006									
6	*Lever	AISI 304 / 1.4301								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



# **Typical Installation**







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





## COMPRESSED AIR BALL FLOAT TRAPS FA32 (Carbon Steel)

#### DESCRIPTION

FA32 series compressed air float traps are specially designed for draining water from high pressure compressed air and gas lines.

Applications on aftercoolers, separators and compressed air and gas mains.

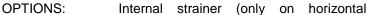
An air balance pipe must be fitted allowing the air trapped in the trap body to escape, avoiding obstructing of condensate flow.

Connections are flanged or female screwed.



Modulating discharge.

Unaffected by sudden or wide load and pressure changes.



models).

Equalizing and drain plug on body.

Lifting lever.

USE: Compressed air and non corrosive

gas compatible with the construction.

AVAILABLE

MODELS: FA 32-21, FA32-32.

SIZES: DN 1" - DN 25.

CONNECTIONS: Female screwed ISO 7/1Rp(BS21)

Flanged EN 1092-1 PN40 or ANSI. Special flanges upon request.

INSTALLATION Horizontal or vertical installation.

ADCAI WOB	

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								
DMO M	00.1									

PMO - Max. operating pressure 32 bar TMO - Max. operating temperature 200 °C

\* According to EN1092-1:2007; \*\* Acc. to EN1759-1:2004 Body limiting conditions PN40 or below, depending on the type of connection adopted. Rating PN40 for thread,SW and BW.

APPLICATION LIMITS									
Min.Liquid specific weight	0,75 Kg/dm3								
Maximum working dif.pressure-FA32-21	21 bar								
Maximum working dif.pressure-FA32-32	32 bar								

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

	FLOW RATE CAPACITY IN Kgs/h															
MODEL SIZE DIFFERENTIAL PRESSURE (bar)																
WIODEL	SIZE	1	1,5	2	3	4,5	6	7	8	9	10	12	14	16	21	32
FA32-21	1" - 25	410	500	600	710	900	1005	1100	1150	1200	1350	1550	1640	1700	1850	
FA32-32	1" - 25	240	280	335	400	500	590	610	690	700	745	850	900	920	1100	1380

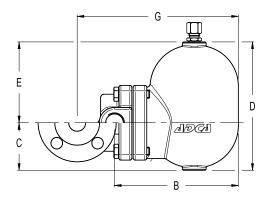


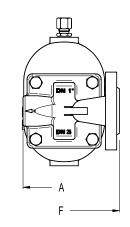




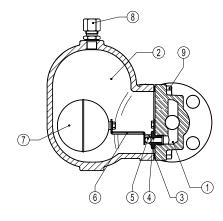
	DIMENSIONS (mm)																							
Screwed			EN PN 16 / 40 EN PN 16 / 40 *			ANSI 150		ΑN	ANSI 150 *		ANSI 300		ANSI 300 *											
SIZE DN	A	В	С	D	E	WT. Kgs	F	G	WT. Kgs	F	В	WT. Kgs	F	G	WT. Kgs	F	В	WT. Kgs	F	G	WT. Kgs	F	В	WT. Kgs
25-1"	120	195	80	190	110	9	160	248	11,3	230	195	12	160	248	11	230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

<sup>\*</sup> Alternative

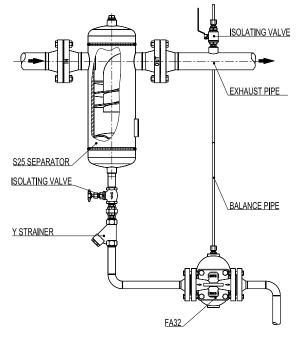


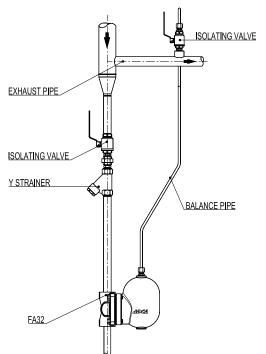


	MATERIALS										
POS.Nr.	DESIGNATION	MATERIAL									
1	Body	GP240GH / 1.0619									
2	Cover	GP240GH / 1.0619									
3	*Gasket	Stainless st. / Graphite									
4	*Seat	AISI 410 / 1.4006									
5	*Valve	AISI 410 / 1.4006									
6	*Lever	AISI 304 / 1.4301									
7	*Float	AISI 304 / 1.4301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



## **Typical Installation**







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





# COMPRESSED AIR BALL FLOAT TRAPS FA16SS (Stainless steel)

#### **DESCRIPTION**

FA16SS is a fully automatic ball float trap extremely compact in dimension and light in weight, specially designed for draining water from compressed air lines.

Applications on after coolers, separators and compressed air mains.

Connections are female screwed.

#### MAIN FEATURES

Corrosion-resistant. Replaceable internal parts. Modulating discharge

Unaffected by sudden or wide load and pressure changes.

OPTIONS: Compression fitting

Hand purging valve.

USE: Compressed air and non corrosive

gas compatible with the construction.

**AVAILABLE** 

MODELS: FA16SS

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

CONNECTIONS: Inlet ½" or ¾" vertical (top to bottom)

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 condensate 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/dm3									
Maximum working dif. pressure	14 bar									



BODY LIMITING CONDITIONS									
Threaded PN16	RELATED TEMP.								
ALLOW. PRES.	IZMP.								
16 bar	100 °C								
14,5 bar	150 °C								
13,4 bar	200 °C								
12,7 bar	250 °C								
PMO - Max operating r	ressure 1/ har								

PMO - Max. operating pressure 14 bar TMO - Max. operating temperature 180 °C

FLOW RATE CAPACITY IN Kg / h														
MODEL SIZE		DIFFERENTIAL PRESSURE (bar)												
WODEL	SIZE	0,5	1	1,5	2	3	4	6	7	8	9	10	12	14
FA 16SS	1/2"-3/4"	120	145	180	190	230	250	300	330	340	360	380	400	430





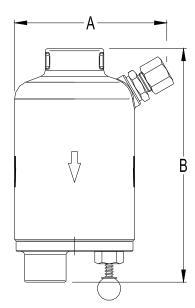


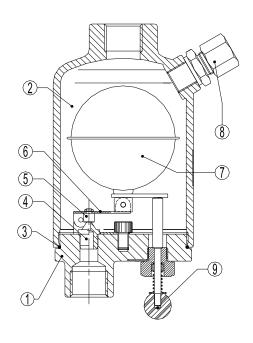
	MATERIALS											
POS.Nr.	DESIGNATION	MATERIAL										
1	Body	CF8M / 1.4408 ; AISI316 / 1.4401										
2	Cover	CF8M / 1.4408 ; AISI316 / 1.4401										
3	* O-ring	NBR										
4	* Seat	AISI 316 / 1.4401										
5	* Valve	VITON										
6	* Lever	AISI 304 / 1.4301										
7	* Float	AISI 304 / 1.4301										
8 a)	Compression fitting	Fe / Zn 12 - ISO 2081										
9 b)	Hand purging valve	AISI 304 / 1.4301										

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

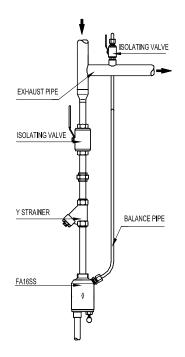
- a) 1/4" x 8 mm compression fitting
- b) Hand purging valve

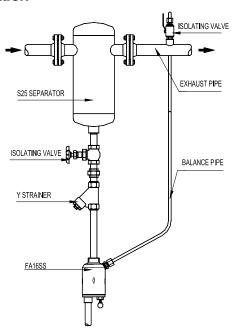
DIMENSIONS (mm)								
SIZE DN	WGT. Kgs							
1/2"	110	152	1,6					
3/4"	110	152	1,6					





# **Typical Installation**











# COMPRESSED AIR BALL FLOAT TRAPS FA21SS (Stainless Steel)

### **DESCRIPTION**

FA21SS series compressed air float traps are specially designed for draining water from high pressure compressed air and gas lines.

Applications on aftercoolers, separators and compressed air and gas mains.

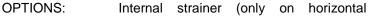
An air balance pipe must be fitted allowing the air trapped in the trap body to escape, avoiding obstructing of condensate flow.

Connections are flanged or female screwed.

#### MAIN FEATURES

Modulating discharge.

Unaffected by sudden or wide load and pressure changes.



models).

Equalizing and drain plug on body.

Lifting lever.

USE: Compressed air and non corrosive

gas compatible with the construction.

**AVAILABLE** 

MODELS: FA 21SS-21.

SIZES: DN 1/2" - 1", DN 15 - DN 25.

CONNECTIONS: Female screwed ISO 7/1Rp(BS21)

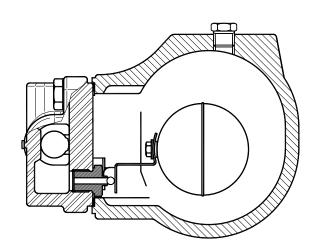
Flanged EN 1092-1 PN40 or ANSI.

INSTALLATION Horizontal or vertical installation.

BODY LIMITING CONDITIONS								
FLANGED PN25 / ANSI 300*	RELATED TEMP.							
ALLOW. PRES.	I LIVIT .							
25 bar	16 bar	100 °C						
22,7 bar	14,8 bar	150 °C						
21 bar	13,6 bar	200 °C						
19,8 bar	12 bar	250 °C						

PMO - Max. operating pressure 21 bar TMO - Max. operating temperature 200 °C





APPLICATION LIMITS								
Min.Liquid specific weight	0,75 Kg/dm3							
Maximum working dif.pressure-FA21-21	21 bar							

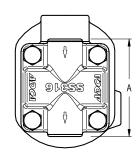
	FLOW RATE CAPACITY IN Kgs/h											
MODEL	SIZE		DIFFERENTIAL PRESSURE (bar)									
WODEL	SIZE	0,5	0,5 1 1,5 2 3 4,5 6 7 8 9 10 12 14 16 21									
FA21SS	15 - 25	75										

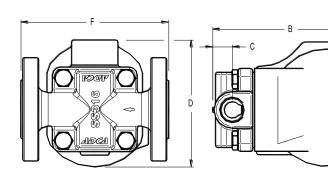
<sup>\*</sup> According to EN1092-1:2007; \*\* Acc. to EN1759-1:2004 Body limiting conditions PN25 or below, depending on the type of connection adopted. Rating PN25 for thread,SW and BW.

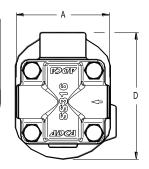


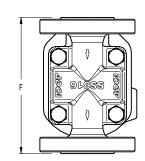


	DIMENSIONS (mm)										
Screwed						EN P	N16/40	ANS	SI 150	ANSI 300	
SIZE DN	Α	В	С	D	WGT. Kgs	F	WGT. Kgs	F	WGT. Kgs	F	WGT. Kgs
15-1/2"	95	178	23	128	5,2	150	6,7	150	6,2	150	7
20-3/4"	95	178	23	128	5,2	150	7,4	150	6,6	150	8,2
25-1"	95	178	23	128	5,2	160	7,8	160	7,4	160	9

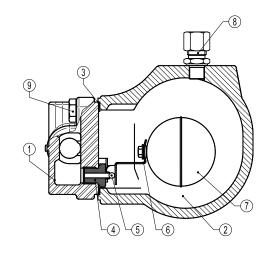




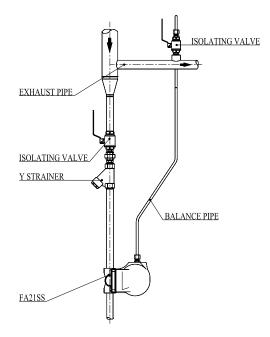


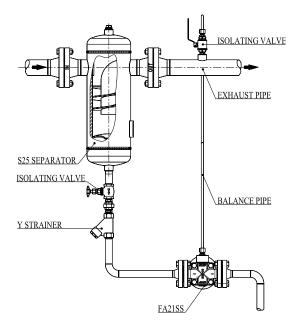


	MATERIALS									
POS.Nr.	DESIGNATION	MATERIAL								
1	Body	CF8M / 1.4408								
2	Cover	CF8M / 1.4408								
3	*Gasket	Stainless st./Graphite								
4	*Seat	AISI 410 / 1.4006								
5	*Valve	VITON								
3	vaive	** AISI 410 / 1.4006								
6	*Lever	AISI 304 / 1.4301								
7	*Float	AISI 304 / 1.4301								
8	**Compression fitting	St.Steel or Steel Fe / Zn								
9	Bolts	St.Steel A2-70								



# **Typical Installation**







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





# COMPRESSED AIR AUTOMATIC DRAIN VALVES CAD

#### **DESCRIPTION**

CAD - Compressed Air Automatic Drain Valve consists of a solid-state timer coupled to a solenoid valve.

The CAD is specially designed for automatic draining of filters, separators, aftercoolers, dryers, receivers, drip legs and other compressed air system components where condensate and contaminants collect.

The draining interval and discharge time can be adjusted according to the requirements.

Valve connections are female screwed.

#### MAIN FEATURES

Easy to read and set time for on/off periods. Adjustable interval and discharge times. Manual test switch. Simple to install.

OPTIONS: Stainless steel valve body

USE: Compressed air, oil, gases and liquids

compatible with the materials of

construction.

**AVAILABLE** 

MODELS: CAD

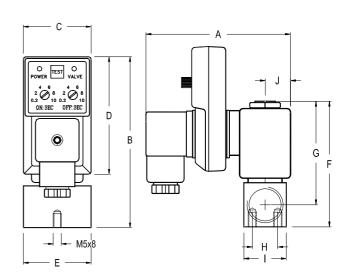
SIZES: DN 3/8" and 1/2"

CONNECTIONS: Female screwed ISO 7/1 Rp (BS21)

INSTALLATION: In any position.

DIMENSIONS (mm)										
SIZE DN	A	В	с	D	E	F	G	Н	ı	WGT. Kgs
3/8"	90	112	42	75	46	75	63	15	20	0,4
1/2"	90	112	42	75	40	75	63	15	20	0,4





	SPECIFICATIONS									
	TIMER	VALVE								
Interval time	0,5 - 45 minutes	Туре	2/2 Way direct acting valve							
Discharge time	0,5 - 10 seconds	In/Out ports	3/8" or 1/2" BSP female							
Supply voltage	240 V (24V on request)	Max. Working pressure	16bar (40 or 80 bar on request)							
Current consumption	4 mA Max.	Min./ Max. Temperature	2ºC / 55ºC ambient							
Operating temperature	-40ºC to +60ºC	Media temperature	Max. 90°C							
Environmental protection	IP 65	Valve Body	Forged brass (orifice 4,5mm)							
Housing material	ABS Plastic FR grade	Insulation	Thermal group H (200ºC)							
Connection	DIN 43650A ISO 4400/6952	Environmental protection	IP 65							
Indicators	1LED (yellow) to indicate on phase	Supply voltage	240 V (24V on request)							
	1LED (yellow) to indicate off phase	Voltage tolerance	+-10%							







### AIR ELIMINATORS FOR WATER SYSTEMS AE16 (Cast Iron)

#### **DESCRIPTION**

The AE16 air eliminator removes air from HVAC systems and is also suitable for non corrosive and/or dangerous liquids providing that their specific weight is not less than 0,75Kg/dm3.

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.

Connections are female screwed.

#### MAIN FEATURES

Corrosion-resistant working parts. Replaceable internal parts.



USE: Cold and hot water systems.

**AVAILABLE** 

MODELS: AE16-6E; AE16-14E (EPDM Valve)

AE16-6V; AE16-14V (VITON Valve)

DN 1/2", 3/4" and 1" SIZES: CONNECTIONS: Inlet ½" 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.

APPLICATION LIMITS								
Min.Liquid specific weight	0,75 Kg/dm3							
Maximum working dif.pressure-AE16/6	6 bar							
Maximum working dif.pressure-AE16/14	14 bar							

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

	FLOW RATE CAPACITY IN N I/min													
MODEL	SIZE	DIFFERENTIAL PRESSURE (bar)												
WODEL	SIZE	0,5	0,5 1 2 3 4 5 6 7 8 10 12 13 14								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

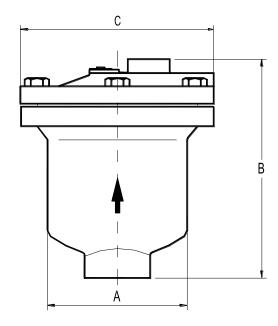
Capacities at a standard atmospheric pressure of 1bar and 20°C.

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





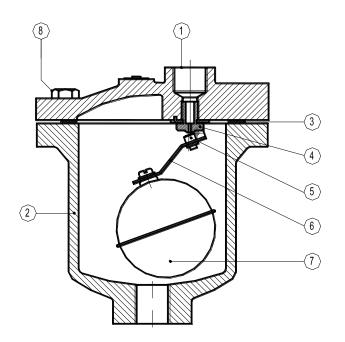




DIMENSIONS (mm)									
SIZE DN	A	В	С	WGT. Kgs					
1/2"	100	150	140	4					
3/4"	100	150	140	4					
1"	100	150	140	4					

	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	Bolts	Steel 8.8						

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









# AIR ELIMINATORS FOR WATER SYSTEMS AE16SS (Stainless steel)

#### **DESCRIPTION**

The AE16SS stainless steel air eliminator removes air from HVAC systems and is also suitable for non corrosive and/or dangerous liquids providing that their specific weight is not less than 0,75Kg/dm3.

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.

Connections are female screwed.

#### MAIN FEATURES

Corrosion-resistant.

Replaceable internal parts.

USE: Cold and hot water systems.

**AVAILABLE** 

MODELS: AE16SSE (EPDM valve)

AE16SSV (VITON valve)

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

APPLICATION LIMITS							
Min.Liquid specific weight	0,75 Kg/dm3						
Maximum working dif. pressure	12 bar						



BODY LIMITING CONDITIONS					
Threaded PN16	RELATED TEMP.				
ALLOW. PRES.	. 2				
16 bar	100 ºC				
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) 130 °C TMO - Max. operating temperature (VITON valve)180 °C

FLOW RATE CAPACITY IN N I/min												
MODEL	SIZE		DIFFERENTIAL PRESSURE (bar)									
MODEL	OIZE	0,5	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

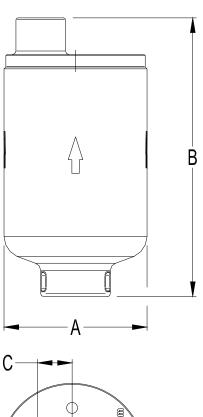
Capacities at a standard atmospheric pressure of 1bar and 20°C.

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





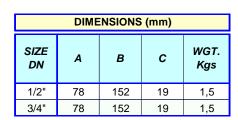




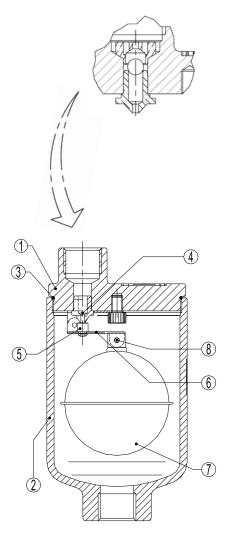
C-	<b>→</b>	
	AlbCal Als air summarior www.vo.valisteem.com SSSUE	

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

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



# AE16SS-CK with check valve







# AIR ELIMINATORS FOR WATER SYSTEMS AE17/G

#### **DESCRIPTION**

The AE17 air eliminator removes air from HVAC systems and is also suitable for non corrosive and/or dangerous liquids providing that their specific weight is not less than 0,75Kg/dm3.

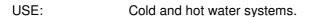
This ball float type automatic air eliminator can be used in combination with other air elimination and separation systems or directly applied at high points in the piping.

Connections are female screwed.



Corrosion-resistant working parts.

Replaceable internal parts.



**AVAILABLE** 

MODELS: AE 17 G

SIZES: DN ½" and 3/4".

CONNECTIONS: Female screwed ISO 7/1Rp(BS21)

INSTALLATION: Vertical installation. It must be installed

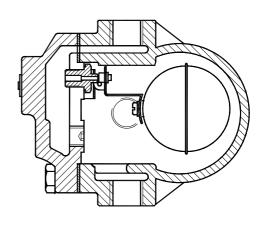
absolutely vertically at the points in the plant where the air tends to collect. The drain should be piped to a safe

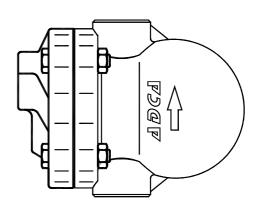
position.

See IMI installation and maintenance

instructions.

APPLICATION LIMITS						
Min.Liquid specific weight 0,75 Kg/dm3						
Maximum working dif.pressure 14 bar						





BODY LIMITING CONDITIONS					
Threaded PN16	RELATED TEMP.				
ALLOW. PRES.	TEMT.				
16 bar	100 ºC				
15,5 bar	150 ºC				
14,7 bar	200 ºC				
13,9 bar	250 ºC				

PMO - Max. operating pressure 14 bar

TMO - Max. operating temperature (EPDM valve) 130 °C TMO - Max. operating temperature (VITON valve)180 °C

	FLOW RATE CAPACITY IN N I/min								
MODEL	SIZE		DIFFERENTIAL PRESSURE (bar)						
IVIODEL	SIZE	0,5	0,5 1 2 3 4 5 6 7 8 10 12 13 14						
AE17/G	1/2"-3/4"	45	45 65 95 125 165 185 225 263 290 365 425 445 475						

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

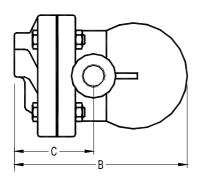
If the temperature differs from  $15^{\circ}$ C, the discharge capacity can be corrected by multiplying it by: where T is the actual temperature in  $^{\circ}$ C.

273 + T

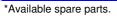


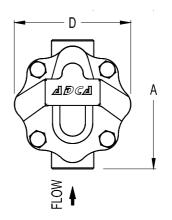


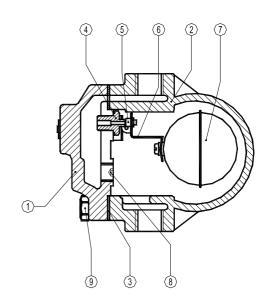
DIMENSIONS (mm)								
SIZE DN	A	В	С	D	WGT. Kgs			
1/2"	122	150	68	108	3,5			
3/4"	122	150	68	108	3,5			

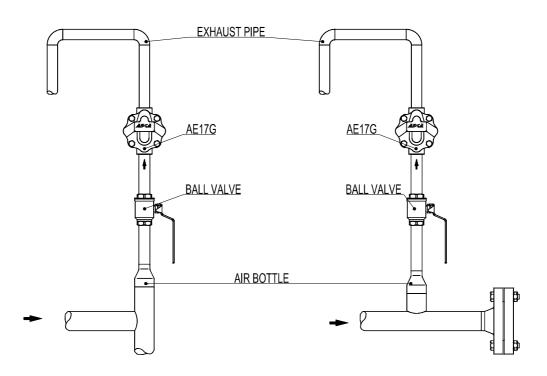


	MATERIALS						
POS.Nr.	DESIGNATION	MATERIAL					
1	Body	GJS-400-15 / 0.7040					
2	Cover	GJS-400-15 / 0.7040					
3	* Gasket	St.Steel / Graphite					
4	* Seat	AISI 304 / 1.4301					
5	* Valve	VITON or EPDM					
6	* Lever	AISI 304 / 1.4301					
7	* Float	AISI 304 / 1.4301					
8	Plug	A105 / 1.0432		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















# AIR ELIMINATORS FOR WATER SYSTEMS AE20 (Carbon Steel)

#### DESCRIPTION

The AE20 carbon steel 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 gravity is not less than 0,75Kg/dm3.

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.

Connections are female screwed or flanged for horizontal or vertical installation



Corrosion resistant working parts.

Replaceable internal parts.

OPTIONS: Internal strainer (only on horizontal

models).

USE: Cold, hot and superheated water

systems.

**AVAILABLE** 

MODELS: AE 20-21

SIZES: DN ½" – 1", DN 15 to DN25.

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.

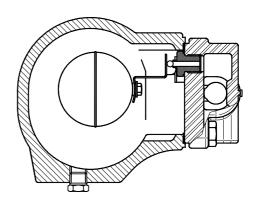
The drain should be piped to a safe

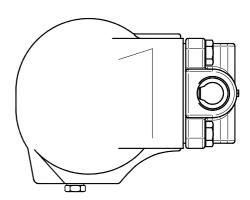
oosition.

See IMI installation and maintenance

instructions.

APPLICATION LIMITS						
Min.Liquid specific weight	0,75 Kg/dm3					
Maximum working dif.pressure-AE20-21	21 bar					





BODY LIMITING CONDITIONS								
FLANGED PN40 / ANSI 300*	FLANGED ANSI 150 **	RELATED TEMP.						
ALLOW. PRES.	ALLOW. PRES.	1.21/11 .						
37,1 bar	15,4 bar	100 ºC						
33,3 bar	13,8 bar	200 ºC						
30,4 bar	12,1 bar	250 ºC						
27,6 bar	10,2 bar	300 ºC						

PMO - Max. operating pressure 32 bar TMO - Max. operating temperature 200 °C

\* According to EN1092-1:2007; \*\* Acc. to EN1759-1:2004 Body limiting conditions PN40 or below, depending on the type of connection adopted. Rating PN40 for thread,SW and BW.

	FLOW RATE CAPACITY IN N I/min.											
MODEL	SIZE		DIFFERENTIAL PRESSURE (bar)									
WODEL	SIZE	0,5	1	1,5	2	3	4	6	8	10	15	21
AE20-21	15 - 25	18	18 32 45 55 75 90 130 180 210 3						300	430		

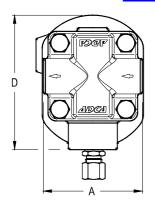
Capacities at a standard atmospheric pressure of 1bar and 20°C.

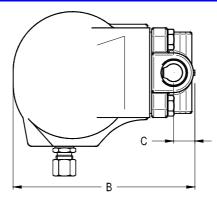
If the temperature differs from 15°C, the discharge capacity can be corrected by multiplying it by: 288 where T is the actual temperature in °C.

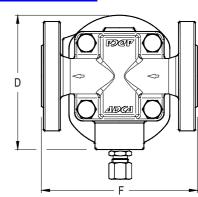




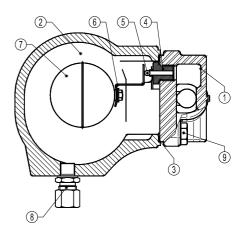
	DIMENSIONS (mm)											
Screwed						EN P	N16/40	ANS	SI 150	150 ANSI 300		
SIZE DN	Α	В	С	D	WGT. Kgs	F	WGT. Kgs	F	WGT. Kgs	F	WGT. Kgs	
15-1/2"	95	178	23	128	5,2	150	6,7	150	6,2	150	7	
20-3/4"	95	178	23	128	5,2	150	7,4	150	6,6	150	8,2	
25-1"	95	178	23	128	5,2	160	7,8	160	7,4	160	9	



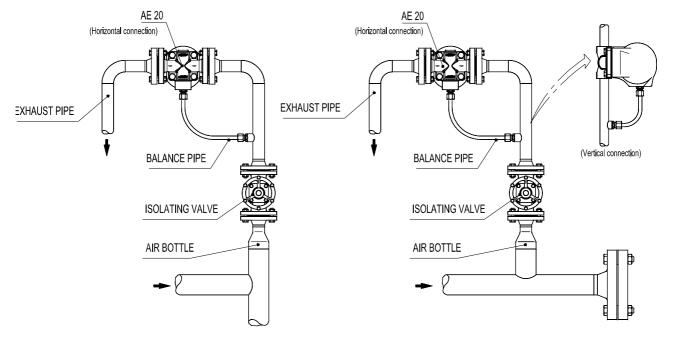




	MATERIALS								
POS.Nr.	DESIGNATION	MATERIAL							
1	Body	GP240GH / 1.0619							
2	Cover	GP240GH / 1.0619							
3	*Gasket	Stainless st. / Graphite							
4	*Seat	AISI 410 / 1.4006							
5	*Valve	AISI 410 / 1.4006							
6	*Lever	AISI 304 / 1.4301							
7	*Float	AISI 304 / 1.4301							
8	Compression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



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









# AIR ELIMINATORS FOR WATER SYSTEMS AE32 (Carbon Steel)

#### DESCRIPTION

The AE32 carbon steel 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 gravity is not less than 0,75Kg/dm3.

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.

Connections are female screwed or flanged for horizontal or vertical installation.



Corrosion-resistant working parts.

Replaceable internal parts.

OPTIONS: Internal strainer (only on horizontal

models).

USE: Cold, hot and superheated water

systems.

**AVAILABLE** 

MODELS: AE 32-17 SIZES: DN 1", DN 25.

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

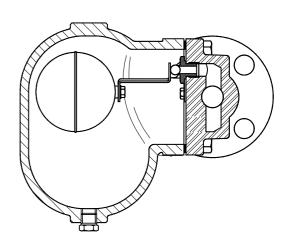
tends to collect.

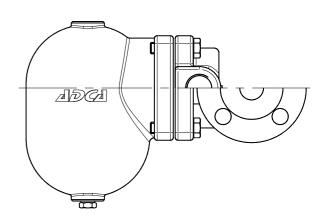
The drain should be piped to a safe

position.

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)				





BODY LIMITING CONDITIONS								
FLANGED PN40 / ANSI 300*	FLANGED ANSI 150 **	RELATED TEMP.						
ALLOW. PRES.	ALLOW. PRES.	I LIVIF.						
37,1 bar	15,4 bar	100 ºC						
33,3 bar	13,8 bar	200 ºC						
30,4 bar	12,1 bar	250 ºC						
27,6 bar	10,2 bar	300 ºC						

PMO - Max. operating pressure 32 bar TMO - Max. operating temperature 200  $^{\circ}$ C

\* According to EN1092-1:2007; \*\* Acc. to EN1759-1:2004 Body limiting conditions PN40 or below, depending on the type of connection adopted. Rating PN40 for thread,SW and BW.

FLOW RATE CAPACITY IN N I/min.										
MODEL	MODEL SIZE DIFFERENTIAL PRESSURE (bar)									
MODEL	SIZE	0,5	1	2	4	6	8	10	13	17
AE32-17	1" - 25	75	75   120   240   420   535   720   870   1200						1380	

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: 288 where T is the actual temperature in °C.

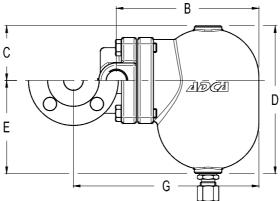






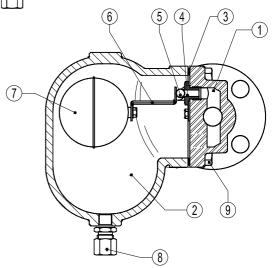
	DIMENSIONS (mm)																							
		Sc	rewe	d			EN	EN PN 16 / 40 EN PN 16 / 40		/ 40 *	Α	NSI 1	50	ANSI 150			* ANSI 300			ANSI 300 *				
SIZE DN	A	В	С	D	Ε	WT. Kgs	F	G	WT. Kgs	F	В	WT. Kgs	F	G	WT. Kgs	F	В	WT. Kgs	F	G	WT. Kgs	F	В	WT. Kgs
25-1"	120	195	80	190	110	9	160	248	11,3	230	195	12	160	248	11	230	195	11,2	160	248	11,3	230	195	12,8

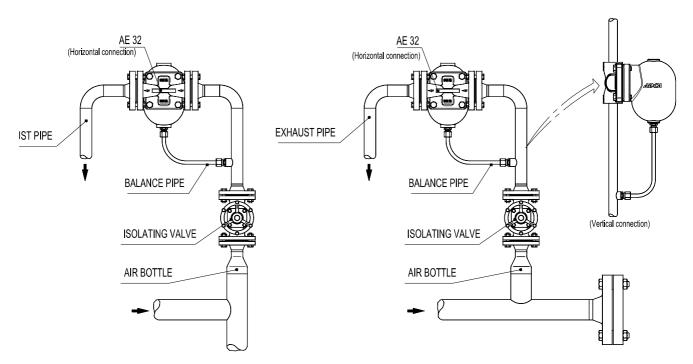
<sup>\*</sup> Alternative



	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							











## AIR ELIMINATORS FOR WATER SYSTEMS **AE30SS (Stainless steel)**

#### **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 gravity is not less than 0,75Kg/dm3.

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.

Connections are female screwed.

MAIN FEATURES: Corrosion-resistant.

USE: Cold, hot and superheated water

systems.

**AVAILABLE** 

MODELS: AE30SS

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

**CONNECTIONS:** Inlet 1/2" or 3/4" vertical. Outlet 1/2" vertical.

Female screwed ISO 7/1Rp(BS21)

ANSI B2.1 on request

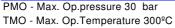
**INSTALLATION:** Vertical installation. It must be installed

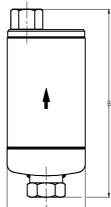
absolutely vertically at the points in the plant where the air tends to collect. The drain should be piped to a safe position. See IMI installation and maintenance

instructions.

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

BODY LIMITING CONDITIONS							
THREADED PN40	RELATED TEMP.						
ALLOW. PRES.	TEMP.						
40 bar	100 ºC						
33,7 bar	200 ºC						
31,8 bar	250 ºC						
29,7 bar	300 ºC						
DMO M O	00.1						





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

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

FLOW RATE CAPACITY IN N I/min																			
MODEL CIZE DIFFERENTIAL PRESSURE (b							(bar)	1											
MODEL SI	SIZE 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: where T is the actual temperature in °C.







### VACUUM BREAKER VB 16

#### **DESCRIPTION**

The VB16 vacuum breakers are simple and reliable devices that automatically relieve or "break" an unwanted vacuum condition, restoring the atmospheric pressure.

This device is particularly suitable for steam heated units of small and medium volume as heat exchangers, heating coils, calorifiers, jacketed kettles, steam boilers, etc. Connections are male screwed.

OPTIONS: Stainless steel inlet deflector

USE: Saturated steam and other gases

compatible with the construction

**AVAILABLE** 

MODELS: VB16

SIZES: ½" to 1"

CONNECTIONS: Screwed ISO 7/1 RP (BS21)

INSTALLATION: Vertical installation

See IMI, installation and maintenance

instructions.

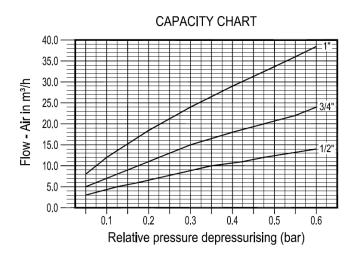
**LIMITING** 

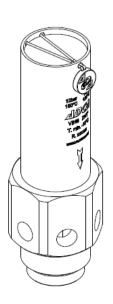
CONDITIONS: 12 bar at 150 °C

16 bar at 120 °C

How to order: i.e. VB16 DN 1/2" BSP (0,05-0,10bar)



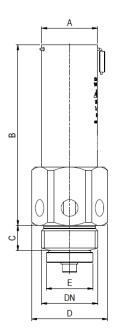






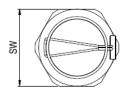


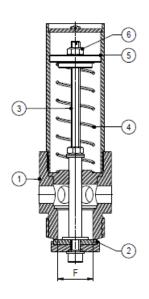




	DIMENSIONS (mm)									
SIZE DN	А	В	С	D	E	F	G	sw	WGT. Kgs	
1/2"	26	82	11	35	18	12,5	23	32	0,25	
3/4"	33	85	13	39	21	16,5	28	36	0,34	
1"	33	108	15	45	27,5	20	35	41	0,51	

Set depressurising bar: (0,05-0,10), (0,09-0,20), (0,19-0,30), (0,29-0,40), (0,39-0,50).

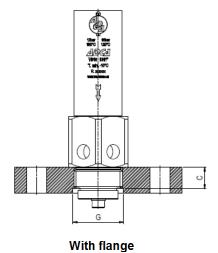


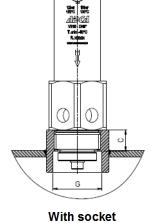


MATERIALS						
POS.Nr.	DESIGNATION	MATERIAL				
1	Body	AISI316 / 1.4401				
2	*Valve	AISI316 / 1.4401 and VITON				
3	Stem	AISI304 / 1.4301				
4	*Spring	AISI302 / 1.4300				
5	Spring guide	AISI304 / 1.4301				
6	Nut	A2-70				

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

# **Typical Installation**











### VACUUM BREAKER VB 21

#### **DESCRIPTION**

The VB21 vacuum breakers are simple and reliable devices that automatically relieve or "break" an unwanted vacuum condition, restoring the atmospheric pressure.

This device is particularly suitable for steam heated units of small and medium volume as heat exchangers, heating coils, calorifiers, jacketed kettles, steam boilers, etc. Connections are female screwed.

USE: Saturated and superheated steam

**AVAILABLE** 

MODELS: VB21; VB21M

SIZES: 1/2" x 1/8"

CONNECTIONS: Inlet 1/2" vertical

Outlet 1/8" horizontal

VB21-Female screwed ISO 7-1 Rp (BS21) VB21M-Male screwed ISO 7-1 R (BS21)

INSTALLATION: Vertical installation angled connection.

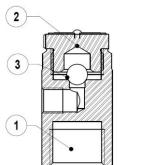
See IMI, installation and maintenance

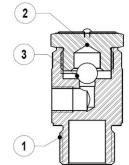
instructions.

**LIMITING** 

CONDITIONS: 13 bar at 400 °C

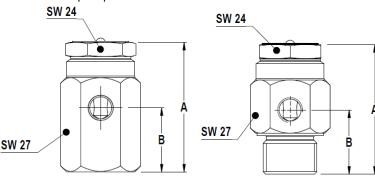
21 bar at 220 °C





MATERIALS						
POS.Nr. DESIGNATION MATERIAL						
1	Body	AISI304 / 1.4301				
2	Cover	AISI304 / 1.4301				
2	* Ball valve	Stainless steel				

\*Available spare parts.





**VB21** 



CAPACITY CHART

2

2

1

0.9

0.8

0.7

0.6

0.5

QP [mm/Hg]

 $\Delta P$  required to open vacuum breaker: 4,6mm/Hg.

DIMENSIONS (mm)							
MODEL	А	В	WGT. Kgs				
VB21	50	25	0,17				
VB21M	50	25	0,13				







# PIPELINE Y STRAINERS IS 140

#### **DESCRIPTION**

IS140 strainers are applicable to all types of steam, water, oil and air systems.

Their purpose is to protect traps, regulating valves, piping, etc. from dirt which are often times the cause of damage and consequently energy loss of fluid systems.

Connections are female screwed.

OPTIONS: Different screen aperture sizes

Drain plug or drain valve in strainer cap

USE: Saturated steam, water, oil, air and

other compatible fluids.

**AVAILABLE** 

MODELS: IS 140S – Cast steel

IS 140I - Stainless steel

SIZES: IS 140S – DN ½" to DN 2"

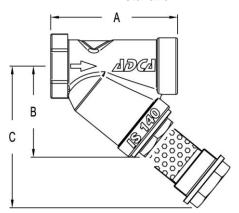
IS 140I - DN 1/2" to DN 1"

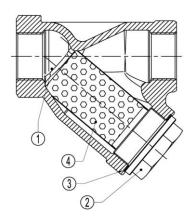
SCREENS: 0,8 mm aperture

CONNECTIONS: Female screwed ISO 7/1 Rp (BS21)

INSTALLATION: Horizontal or vertical downstream

installation.





CE MARKING (PED - European Directive 97/23/EC)						
PN 40	Category					
DN 15 to DN 32	SEP - art. 3, paragraph3					
DN 40 and DN 50	1 (CE Marked)					

LIMITING CONDITIONS							
IS14	IOS *	IS140I *					
ALLOWABLE PRESSURES	RELATED TEMP.	ALLOWABLE PRESSURES	RELATED TEMP.				
40 bar	-10 /50º C	40 bar	-10 /50º C				
33,3 bar	200 °C	33,7 bar	200 °C				
27,6 bar	300 °C	29,7 bar	300 °C				
25,7 bar	350 °C	28,5 bar	350 °C				
23,8 bar	400 °C	27,4 bar	400 °C				

*	Rating	according	to	EN1092-1:2007
---	--------	-----------	----	---------------

DIMENSIONS (mm)								
SIZE DN	Α	В	С	WGT. Kgs				
1/2"	85	63	107	0,6				
3/4"	100	80	139	1				
1"	115	87	155	1,5				
11/4"	143	107	192	2,5				
11/2"	160	125	215	3,6				
2"	198	142	242	5,7				

	MATERIALS					
POS. Nr.	DESIGNATION	IS140S	IS140I			
1	Body	ASTM A216WCB 1.0619	CF8M / 1.4408			
2	Cap	A105 / 1.0432	AISI316 / 1.4401			
3	* Gasket	St.Steel / Graphite	St.Steel / Graphite			
4	* Strainer screen	AISI304 / 1.4301	AISI304 / 1.4301			

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







# CAST IRON PIPELINE Y STRAINERS IS16F

#### **DESCRIPTION**

IS16F Y cast iron strainers are applicable to all types of steam, water, oil and air systems.

Their purpose is to protect traps, regulating valves, piping, etc. from dirt which are often times the cause of damage and consequently energy loss of fluid systems.

Connections are flanged.

OPTIONS: Different screen aperture sizes

Drain plug or drain valve in strainer cap

USE: Saturated steam, water, oil, air and

other compatible fluids.

**AVAILABLE** 

MODELS: IS16F

SIZES: DN 15 to DN 300

SCREENS: 0,5 mm aperture up to DN50

1,2 mm aperture from DN 65 to DN 300

CONNECTIONS: Flanged EN 1092-2 PN16

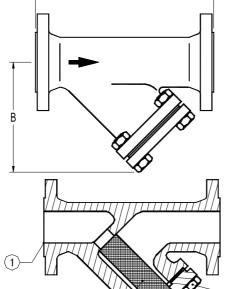
INSTALLATION: Horizontal or vertical downstream

installation.

See IMI, installation and maintenance

instructions.

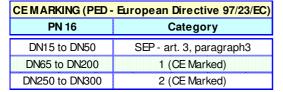
DIMENSIONS (mm)				
SIZE DN	A	В	WGT. Kgs	
15	130	75	2,4	
20	150	75	3	
25	160	90	3,8	
32	180	90	5,2	
40	200	110	6,8	
50	230	120	9	
65	290	140	11,8	
80	310	165	16,8	
100	350	220	25,2	
125	400	260	37	
150	480	300	58	
200	600	360	112	
250	730	470	162	
300	850	560	195	



LIMITING CONDITIONS IS16F				
ALLOWABLE RELATED PRESSURES TEMPERATURE				
16 bar	-10 /120º C			
12,8 bar	200 ºC			
11,2 bar	250 ºC			
9,6 bar	300 ºC			

MATERIALS				
POS. Nr.	DESIGNATION	MATERIAL		
1	Body	GJL-250 / 0.6025		
2	Cap	GJL-250 / 0.6025		
3	* Gasket	St.Steel / Graphite		
4	* Strainer screen	AISI304 / 1.4301		
5	Bolts	Steel 8.8		

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









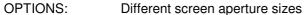
# FORGED STEEL PIPELINE Y STRAINERS IS116

#### **DESCRIPTION**

IS116 Y forged steel strainers are applicable to all types of steam, water, oil and air systems.

Their purpose is to protect traps, regulating valves, piping, etc. from dirt which are often times the cause of damage and consequently energy loss of fluid systems.

Connections are female screwed or flanged.



Drain plug or drain valve in strainer cap

USE: Saturated steam, water, oil, air and

other compatible fluids.

**AVAILABLE** 

MODELS: IS 116

SIZES: DN ½" to DN 2"; DN 15 to DN50

SCREENS: 0,8 mm aperture

CONNECTIONS: Female screwed ISO 7/1 Rp (BS21)

NPT (ANSI B1.20.1)

Flanged EN 1092-1 or ANSI

INSTALLATION: Horizontal or vertical downstream

installation.

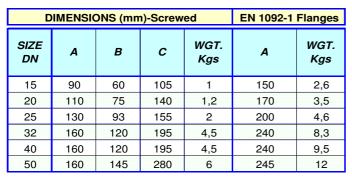
See IMI, installation and maintenance

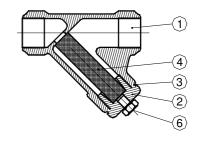
instructions.

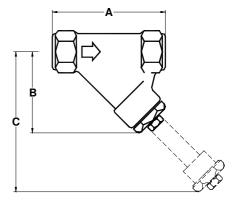
PMA – Max. allowable pressure 63 bar TMA – Max. allowable temperature 400 °C

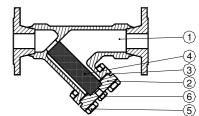
How to order: i.e. IS116 DN 11/2" NPT

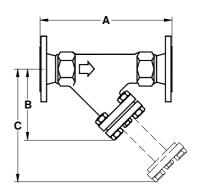
CEMARKING (PED - European Directive 97/23/EC)				
PN 63	Category			
DN 15 to DN 32	SEP - art. 3, paragraph3			
DN 40-50	1 (CE Marked)			











	MATERIALS				
POS. DESIGNATION MATE		MATERIAL			
1	Body	ASTM A105 / 1.0432			
2	Сар	ASTM A105 / 1.0432			
3	* Gasket	St.Steel / Graphite			
4	* Strainer screen	AISI304 / 1.4301			
5	Bolts	ASTM A193 B7 / A194 2H			
6	Drain plug	ASTM A105 / 1.0432			

<sup>\*</sup> Available spare parts (Bolted cover, DN2" only)







# CAST STEEL PIPELINE T STRAINERS IS40T DN15 to DN100 (EN)

#### **DESCRIPTION**

IS40T cast steel T strainers are applicable to all types of steam, water, oil and air systems.

Their purpose is to protect steam traps, regulating valves, pressure reducing valves, piping, etc. from dirt which are often times the cause of damage and consequently energy loss of fluid systems.

Connections are flanged.

OPTIONS: Different screen aperture sizes

Drain plug or drain valve in strainer cap

USE: Saturated steam, water, oil, air and

other compatible fluids.

**AVAILABLE** 

MODELS: IS40TS - Carbon steel

IS40TI - Stainless steel

SIZES: DN 15 to DN 100

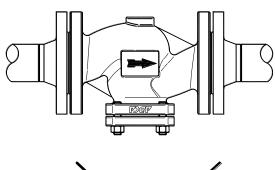
SCREENS: 0,5 mm aperture up to DN50

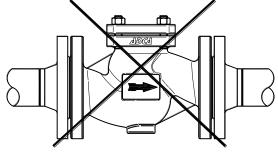
1,2 mm aperture from DN 65 to DN 100

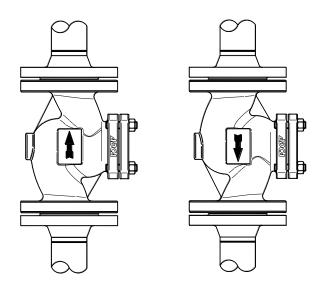
CONNECTIONS: Flanged EN 1092-1 PN40

INSTALLATION: Horizontal or vertical installation.









	CE MARKING (PED - European Directive 97/23/EC)					
PN 16 PN 25 PN 40 Category						
	DN15 to DN50	DN15 to DN40	DN15 to DN32	SEP - art. 3, paragraph3		
	DN65 to DN100	DN50 to DN100	DN40 to DN100	1 (CE Marked)		







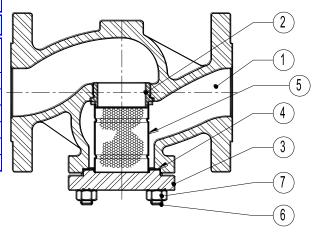
 - 4 11 11	EOUI		-NII
 7-114		1 IVI	

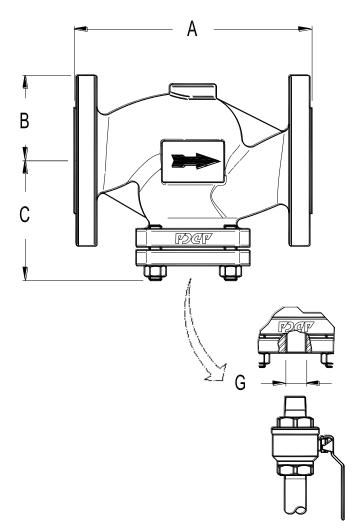
	VALVE BODY LIMITING CONDITIONS							
IS40TS - PN16 *		IS40TS - PN25 *		IS40TS - PN40 *		IS40TI - PN40 *		
ALLOWABLE PRESSURES	RELATED TEMP.	ALLOWABLE PRESSURES	RELATED TEMP.	ALLOWABLE PRESSURES	RELATED TEMP.	ALLOWABLE PRESSURES	RELATED TEMP.	
16 bar	-10 /120° C	25 bar	-10 /50° C	40 bar	-10 /50° C	40 bar	-10 /50º C	
13,3 bar	200 °C	20,8 bar	200 °C	33,3 bar	200 °C	33,7 bar	200 °C	
12,1 bar	250 °C	19 bar	250 °C	27,6 bar	300 °C	29,7 bar	300 °C	
11 bar	300 °C	17,2 bar	300 °C	25,7 bar	350 °C	28,5 bar	350 °C	
10,2 bar	350 °C	16 bar	350 °C	23,8 bar	400 °C	27,4 bar	400 °C	

Rating according to EN1092-1:2007

	MATERIALS					
POS.	DESIGNATION	MATERIAL IS40TS	MATERIAL IS40TI			
1	Body	ASTM A216WCB/1.0619; GP240GH / 1.0619	CF8M / 1.4408			
2	Centering ring	AISI304 / 1.4301	AISI304 / 1.4301			
3	Cover	AISI304 / 1.4301	AISI304 / 1.4301			
4	*Gasket	St.Steel / Graphite	St.Steel / Graphite			
5	*Screen	AISI304 / 1.4301	AISI304 / 1.4301			
6	Studs	Steel	A2 - 70			
7	Nuts	Steel	A2 - 70			

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





DIMENSIONS (mm)					
SIZE DN	Α	В	С	G *	WGT. Kgs
15	130	48	80	1/2"	3,7
20	150	53	80	1/2"	4,2
25	160	58	80	1/2"	5,3
32	180	70	100	1/2"	7,8
40	200	75	105	1/2"	9,6
50	230	83	115	1/2"	14
65	290	93	155	1/2"	23,5
80	310	100	155	1/2"	27,9
100	350	118	165	1/2"	34,6

<sup>\*</sup> Other on request





# CAST STEEL PIPELINE T STRAINERS IS40T DN 1" to DN 4" (ANSI)

#### **DESCRIPTION**

IS40T cast steel T strainers are applicable to all types of steam, water, oil and air systems.

Their purpose is to protect steam traps, regulating valves, pressure reducing valves, piping, etc. from dirt which are often times the cause of damage and consequently energy loss of fluid systems.

Connections are flanged.

OPTIONS: Different screen aperture sizes

Drain plug or drain valve in strainer cap

USE: Saturated steam, water, oil, air and

other compatible fluids.

AVAILABLE

MODELS: IS40TS – Carbon steel

IS40TI - Stainless steel

SIZES: 1" to DN 4"

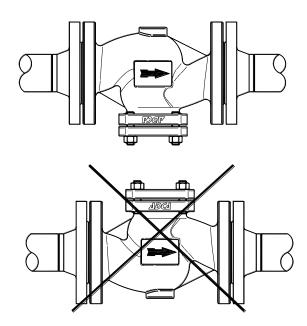
SCREENS: 0,5 mm aperture up to 2"

1,2 mm aperture from 3" to 4"

CONNECTIONS: Flanged ANSI B16.5 150# and 300#

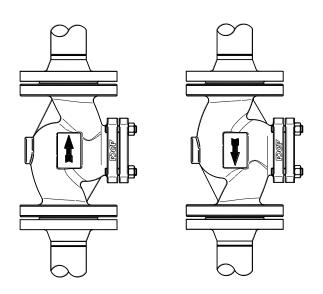
INSTALLATION: Horizontal or vertical installation.





CE MARKING (PED - European Directive 97/23/EC)					
ANSI 150 ANSI 300 Category					
1" - 2" (DN25-50)	1" (DN25)	SEP - art. 3, paragraph3			
3"-4" (DN80-100)	11/2"-4" (DN40-100)	1 (CE Marked)			

Note: classification for gases - Group 2, for others see IMI



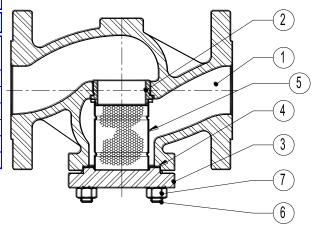


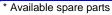


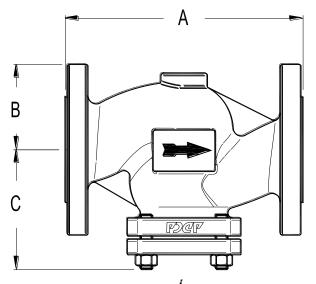


	VALVE BODY LIMITING CONDITIONS							
IS40TS - ANSI 150		IS40TS -	ANSI 300	IS40TI - ANSI 150		IS40TI - ANSI 300		
ALLOWABLE PRESSURES	RELATED TEMP.	ALLOWABLE PRESSURES	RELATED TEMP.	ALLOWABLE PRESSURES	RELATED TEMP.	ALLOWABLE PRESSURES	RELATED TEMP.	
PRESSURES	I EIVIP.	PRESSURES	I CIVIF.	PRESSURES	I CIVIF.	PRESSURES	I CIVIF.	
19,3 bar	-10 /50° C	50 bar	-10 /50° C	18,4 bar	-10 /50° C	48,1 bar	-10 /50° C	
15,8 bar	150 °C	43,9 bar	200 °C	14,8 bar	150 °C	35,8 bar	200 °C	
12,1 bar	250 °C	36,9 bar	350 °C	12 bar	250 °C	30,4 bar	350 °C	
8,4 bar	350 °C	34,6 bar	400 °C	8,4 bar	350 ℃	29,3 bar	400 °C	

MATERIALS						
POS.	DESIGNATION	MATERIAL IS40TS	MATERIAL IS40TI			
1	Body	ASTM A216WCB/1.0619; GP240GH / 1.0619	CF8M / 1.4408			
2	Centering ring	AISI304 / 1.4301	AISI304 / 1.4301			
3	Cover	AISI304 / 1.4301	AISI304 / 1.4301			
4	*Gasket	St.Steel / Graphite	St.Steel / Graphite			
5	*Screen	AISI304 / 1.4301	AISI304 / 1.4301			
6	Studs	Steel	A2 - 70			
7	Nuts	Steel	A2 - 70			



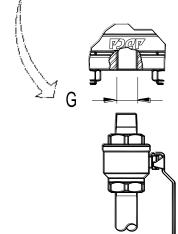




DIMENSIONS (mm)							
SIZE	A ** ANSI 300	B ANSI 150	B ANSI 300	С	G *	WGT. Kgs	
1"	197	54	62	80	1/2"	5,3	
11/2"	235	63,5	78	105	1/2"	9,6	
2"	267	76	82,5	115	1/2"	14	
3"	317	95	105	155	1/2"	27,9	
4"	368	114,5	127	165	1/2"	34,6	

<sup>\*</sup> Other on request

<sup>\*\*</sup> ANSI 150 is drilled with the same lenght







### SIGHT CHECKER SCK

#### **DESCRIPTION**

Being installed after the steam trap, the sight checker is a device to be used for visually checking the conditions and leakage of steam traps.

SCK sight checker functions as both sight glass and check valve.

Connections are female screwed.

USE: Condensate pipes downstream steam

traps.

**AVAILABLE** 

MODELS: SCK

SIZES: 1/2", 3/4" and DN 1"

CONNECTIONS: Female screwed ISO 7/1Rp(BS21). INSTALLATION: Horizontal or vertical (bottom to top)

installation.

See IMI, installation and maintenance

instructions.

CAUTION: SCK should be fitted at least 1m from

the trap in order to protect the glass

from thermal pressure or shock.

PMO – Max. operating pressure 10 bar TMO – Max. operating temperature 150 °C

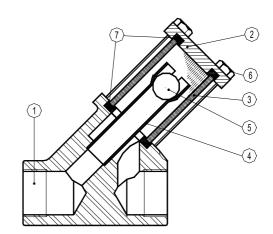
How to order: i.e. SCK DN 1/2" BSP.

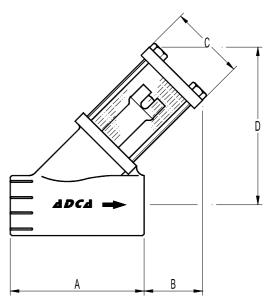
DIMENSIONS (mm)						
SIZE DN	A	В	С	D	WGT. Kgs	
1/2"	80	36	45	95	0,9	
3/4"	80	36	45	95	0,9	
1"	90	40	56	110	1.3	

	MATERIALS						
POS.Nr.	DESIGNATION	MATERIAL					
1	Body	Bronze B62 / ASTM B148-97					
2	Cover	Brass EN12165 / CuZn39Pb2					
3	* Sight tube	Borosilicate glass					
4	Discharge tube	Copper					
5	Ball check	Stainless steel					
6	Bolts	Seel 8.8					
7	* Gasket	Graphite					

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













### SINGLE WINDOW SIGHT GLASS SW12

#### **DESCRIPTION**

For monitoring the right operation of a steam trap to avoid leakage of live steam and consequently big energy losses, a sight glass is recommended to be installed downstream of the steam trap.

Single window SW sight glass, has been designed for this particular application.

Connections are female screwed.

USE: Condensate pipes downstream steam

traps.

**AVAILABLE** 

MODELS: SW 12 - 5 mm thick glass

SIZES: DN ½", 3/4" and DN 1"

CONNECTIONS: Female screwed ISO 7/1Rp(BS21).

INSTALLATION: Horizontal or vertical installation.

See IMI, installation and maintenance

12 bar

150 ºC

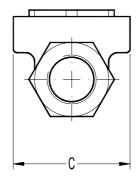
instructions.

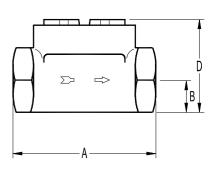
PMO – Max. operating pressure TMO – Max. operating temperature

How to order: i.e. SW12 DN 1/2" BSP.

0	
	TAN CA

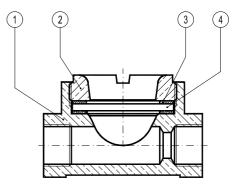
DIMENSIONS (mm)					
SIZE DN	A	В	С	D	WGT. Kgs
1/2"	80	16	62	52	0,6
3/4"	88	19	62	57	0,9
1"	88	23	62	60	0,85





MATERIALS					
POS.Nr.	DESIGNATION	MATERIAL			
1	Body	Brass EN12165 / CuZn39Pb2			
2	Glass nut	Brass EN12165 / CuZn39Pb2			
3	* Gasket	St.Steel / Graphite			
4	* Window glass	Borosilicate			

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









## DOUBLE WINDOW SIGHT GLASS DW40S (DN15 – DN25)

#### DESCRIPTION

For monitoring the right operation of a steam trap to avoid leakage of live steam and consequently big energy losses, a sight glass is recommended to be installed downstream of the steam trap.

Double window DW sight glass, has been designed for this particular application.

Connections are female screwed or flanged.

USE: Condensate pipes downstream steam

traps.

AVAILABLE

MODELS: DW 40 S

SIZES: DN ½" to DN 1"; DN 15 to DN 25

CONNECTIONS: Female screwed ISO 7/1Rp(BS21).

NPT (ANSI B1.20.1)

Flanged EN 1092-1 or ANSI

INSTALLATION: Horizontal or vertical installation.

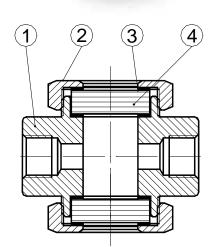
See IMI, installation and maintenance

instructions.

PMO – Max. operating pressure 40 bar TMO – Max. operating temperature 280 °C

How to order: i.e. DW40 DN ½" BSP.

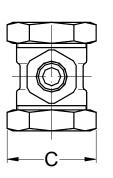


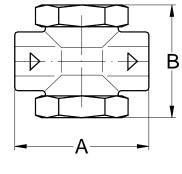


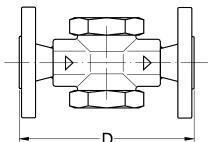
DIMENSIONS (mm)-Screwed					EN 1092-1	Flanges
SIZE DN	А	В	С	WGT. Kgs	D	WGT. Kgs
15	90	80	60	1,25	150	2,8
20	90	80	60	1,25	150	3,4
25	100	87	65	2,1	160	4,7

MATERIALS						
POS.Nr.	DESIGNATION	MATERIAL				
1	Body	P250GH / 1.0460				
2	Glass nut	P250GH / 1.0460				
3	* Gasket	St.Steel / Graphite				
4	* Window glass	Borosilicate				

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













## DOUBLE WINDOW SIGHT GLASS DW40S (DN 32 – DN 50)

### **DESCRIPTION**

For monitoring the right operation of a steam trap to avoid leakage of live steam and consequently big energy losses, a sight glass is recommended to be installed downstream of the steam trap.

Double window DW sight glass, has been designed for this particular application.

Connections are female screwed or flanged.

OPTIONS: Stainless steel construction

USE: Condensate pipes downstream steam

traps.

**AVAILABLE** 

MODELS: DW 40 S

SIZES: DN 11/4" to DN 2 "; DN 32 to DN 50

CONNECTIONS: Female screwed ISO 7/1Rp(BS21).

NPT (ANSI B1.20.1)

Flanged EN 1092-1 or ANSI

INSTALLATION: Horizontal or vertical installation.

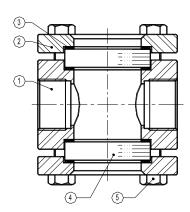
See IMI, installation and maintenance

instructions.

PMO – Max. operating pressure 25 bar TMO – Max. operating temperature 280 °C

How to order: i.e. DW40 DN 2" BSP.





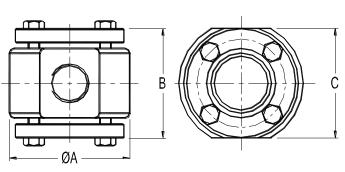
CE MARKING (PED - European Directive 97/23/EC)				
PN 40	Category			
DN 32	SEP - art. 3, paragraph3			
DN 40-50	1 (CF Marked)			

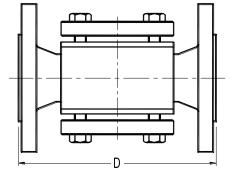
DIMENSIONS (mm)-Screwed					EN 1092-1	Flanges
SIZE DN	Α	В	С	WGT. Kgs	D	WGT. Kgs
32	130	115	114	6,2	180	9,5
40	130	115	114	6,5	200	10,5
50	130	125	114	7,5	230	12,5

**Bolts** 

50	130	125	114	7,5	230	12,5	
			M.	ATERIAL	.S		
POS	S.Nr.	DI	ESIGNAT	TION	ı	MATERIAL	_
	1		Body			5J2G3 / 1.0 50GH / 1.0	,
	2		Glass nut		S35	5J2G3 / 1.	0570
	3		* Gaske	et	St.S	Steel / Grap	hite
	4	* \	Nindow o	alass		Borosilicate	9

Steel 8.8







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





## DOUBLE WINDOW SIGHT GLASS DW12 (Bronze)

### **DESCRIPTION**

For monitoring the right operation of a steam trap to avoid leakage of live steam and consequently big energy losses, a sight glass is recommended to be installed downstream of the steam trap.

Double window DW sight glass, has been designed for this particular application.

Connections are female screwed.

OPTIONS: Borosilicate glass against extra price

USE: Condensate pipes downstream steam

traps.

**AVAILABLE** 

MODELS: DW 12

SIZES: DN 11/4" to DN 2"

CONNECTIONS: Female screwed ISO 7/1Rp(BS21).

INSTALLATION: Horizontal or vertical installation.

See IMI, installation and maintenance

instructions.

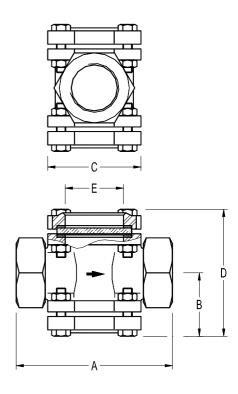
	CONDITIONS red glass )		CONDITIONS cate glass)
ALLOWABLE PRESSURES	RELATED TEMPERATURE	ALLOWABLE PRESSURES	RELATED TEMPERATURE
16 bar	-10 /120º C	16 bar	-10 /120º C
1	1	14,4 bar	150 ºC
/	/	13,4 bar	180 ºC
/	1	12,8 bar	200 ºC

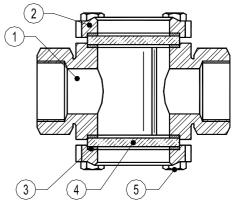
	DIMENSIONS (mm)						
SIZE DN	A	В	С	D	E	WGT. Kgs	
11/4"	125	55	83	109	50	2,5	
11/2"	135	57	83	113	50	2,8	
2"	170	70	104	139	60	5	

MATERIALS					
POS.Nr.	DESIGNATION	MATERIAL			
1	Body	Bronze B62 / ASTM B148-97			
2	Glass nut	Bronze B62 / ASTM B148-97			
3	* Gasket	St.Steel / Graphite			
4	* Window glass	Tempered glass			
4	* Window glass	Borosilicate			
5	Bolts	Steel 8.8			

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













## WINDOW SIGHT GLASS DW12G - DW12SS

#### **DESCRIPTION**

For monitoring the right operation of a steam trap to avoid leakage of live steam and consequently big energy losses, a sight glass is recommended to be installed downstream the steam trap. Double window DW sight glass, has been designed for this particular application.

Connections are flanged.

OPTIONS: Tempered glass.

USE: Condensate pipes downstream steam

traps.

**AVAILABLE** 

MODELS: DW12G – PN16 Cast iron

DW12SS - PN25 Stainless steel

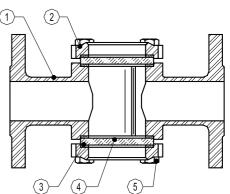
SIZES: DN15 to DN150

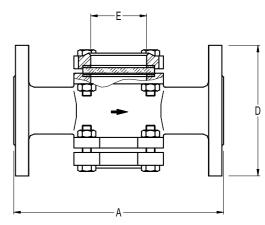
CONNECTIONS: Flanged EN 1092-1/-2 PN16-PN25

INSTALLATION: Horizontal or vertical installation.

See IMI installation and maintenance

instructions.





	DITIONS DW12G ed glass )	LIMITING C DW12SS (Te			DITIONS DW12G silicate)		DITIONS DW12SS silicate)
ALLOWABLE PRESSURES	RELATED TEMP.	ALLOWABLE PRESSURES	RELATED TEMP.	ALLOWABLE PRESSURES	RELATED TEMP.	ALLOWABLE PRESSURES	RELATED TEMP.
16 bar	-10 /120° C	25 bar	-10 /37° C	16 bar	-10 /120° C	25 bar	-10 /37° C
1	1	18 bar	93 °C	14,4 bar	150 °C	18 bar	93 °C
1	/	17 bar	120 °C	12,8	200 °C	16 bar	148 °C
1	1	1	1	11,8	230 °C	14 bar	204 °C
1	1	1	1	10,5	280 °C	11 bar	280 °C

		DIMEN	ISIONS (	mm)	
0175				Weigh	nt (kgs)
SIZE DN	Α	В	С	DW12G	DW12SS
15	130	95	44	3	3
20	150	105	44	3,5	4
25	160	115	44	4	5
32	180	140	50	6	6,5
40	200	150	50	6,5	7,3
50	230	165	60	9	10,5
65	290	185	90	17	17
80	310	200	90	18	20
100	350	220	110	23	26,5
125	400	250	142	50	52
150	480	285	160	63	68

CEMARKING (PED-European Directive 97/23/EC)					
PN 16	Category	PN 25	Category		
DN15 to DN50	SEP - art. 3, paragraph3	DN15 to DN40	SEP - art. 3, paragraph3		
DN65 to DN150	1 (CE Marked)	DN50 to DN125	1 (CE Marked)		
-	-	DN150	2 (CE Marked)		

MATERIALS					
POS.	DESIGNATION	MATERIAL DW12G	MATERIAL DW12SS		
1	Body	GJL-250 / 0.6025	CF8M / 1.4408		
2	Cover	GJL-250 / 0.6025	CF8M / 1.4408		
3	* Gasket	Graphite	Graphite		
4	* Window	Borosilicate glass	Borosilicate glass		
4	vviiidow	Tempered glass **	Tempered glass **		
5	Bolts	Steel 8.8	A2-70		

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





# DOUBLE WINDOW SIGHT GLASS DW16SS (Stainless Steel)

### **DESCRIPTION**

For monitoring the right operation of a steam trap to avoid leakage of live steam and consequently big energy losses, a sight glass is recommended to be installed downstream the steam trap.

Double window DW sight glass, has been designed for this particular application.

Connections are female screwed or flanged.

OPTIONS: Different glasses and design on request.

USE: Condensate pipes downstream steam

traps.

**AVAILABLE** 

MODELS: DW16SS - double window borosilicate

glass.

SIZES: 1/2" to DN 1" - DN15 to DN25.

11/2" and 2" on request.

CONNECTIONS: Female screwed ISO 7/1Rp(BS21).

NPT (ANSI B1.20.1).

Flanged EN 1092-1 or ANSI (welded

flanges).

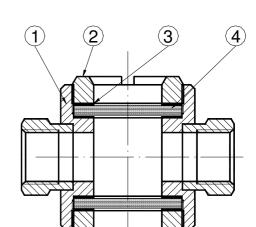
Special flanges upon request.

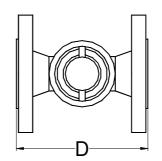
INSTALLATION: Horizontal or vertical installation.

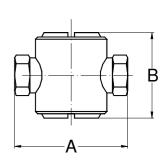
See IMI installation and maintenance

instructions.

PMO – Max. operating pressure 12 bar TMO –Max. operating temperature 280 °C How to order: i.e. DW16SS DN ½" BSP





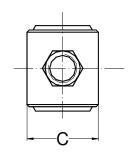


	MATERIALS					
POS. Nr.	DESIGNATION	MATERIAL				
1	Body	AISI316 / 1.4401				
2	Cover	Brass (NickelPl.)				
3	* Gasket	St.St./Graphite				
4	* Glass	Borosilicate				

* Available spare par	ts
-----------------------	----

DIN	MENSIC	EN 1092-1 Flg.				
SIZE DN			WGT. Kgs	D	WGT. Kgs	
1/2"	103	80	65	1,3	130	2,4
3/4"	103	80	65	1,3	130	3,4
1"	100	90	65	1,9	130	4,5

Different face-to-face dimensions on the flanged version, under request.









## NOISE DIFFUSER DF15



The DF15 all stainless steel noise diffuser spreads out the high velocity discharge from steam or air traps while dampening the level of noise associated with steam or compressed air trap cycles.

Connections are female screwed.



A reduction of about 80% of noise can be expected measured at 1 meter from the application. Simple and compact design.

OPTIONS: Outlet without thread, suitable for direct

discharge to atmosphere (DF16).

USE: Saturated steam and compressed air.

On the discharge of steam or air traps,

blowdown valves, air cylinders etc.

**AVAILABLE** 

MODELS: DF15 and DF16.

SIZES: 1/2", 3/4" and 1"

CONNECTIONS: Female screwed ISO 7/1 Rp (BS21)

INSTALLATION: Horizontal or vertical installation.

Before installing the diffuser, blow all

dirt and scale from the system.

Diffuser discharge must be oriented towards the floor or other suitable

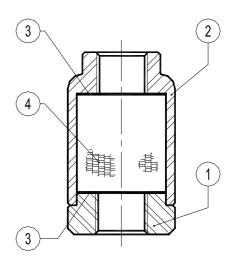
enclosure.

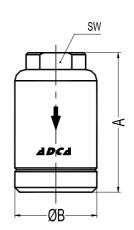
**CAUTION:** 

Do not install the diffuser in such a

manner that it may cause an accidental

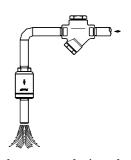
exposure to the discharge.



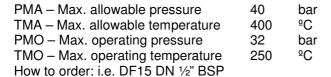


DIMENSIONS (mm)							
SIZE DN	A	В	sw	WGT. Kgs			
1/2"	80	45	36	0,9			
3/4"	80	45	36	0,9			
1"	90	45	40	1,3			

	MATERIALS						
POS.	DESIGNATION	MATERIAL					
1	Body	AISI304 / 1.4301					
2	Cover	AISI304 / 1.4301					
3	Strainer screen	AISI304 / 1.4301					
4	Element	AISI304 / 1.4301					



Application example ( outlet of DT42S )









### NON-RETURN VALVE RT25

### **DESCRIPTION**

The RT25 all stainless steel disc check valve has a compact design and was specially designed for use with steam and hot condensate.

Connections are female screwed



Low pressure drop.

Simple and compact design.

OPTIONS: Soft sealing:

EPDM(E), NBR(N), VITON(V), PTFE (T).

Inconel springs

USE: Saturated steam, water and other

gases (Group 2) compatible with the

construction.

**AVAILABLE** 

MODELS: RT 25

SIZES: DN 1/4" to DN 2"

CONNECTIONS: Female screwed ISO 7/1 Rp (BS21)

INSTALLATION: Horizontal or vertical installation

See IMI, installation and maintenance

instructions.

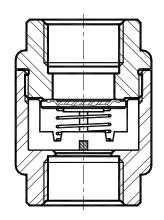
RATING: PN 25

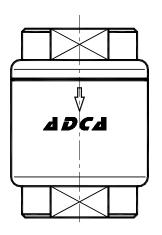
PMA – Max. allowable pressure 32 bar TMA – Max. allowable temperature 250 °C PMO – Max. operating pressure 21 bar TMO – Max. operating temperature 220 °C

Recommended limit of operation with soft seats ( °C)						
EPDM (E) NBR (N) VITON (V) PTFE (T)						
130°	95°	180°	180°			

CE MARKING				
PN 25	Category			
DN 1/4" to DN 11/2"	SEP - art. 3, paragraph3			
DN 2"	Category1 (CE marked)			











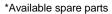


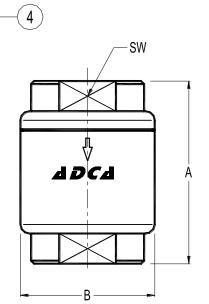
5

6

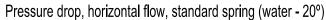
DIMENSIONS (mm)									
DN	1/4"	3/8"	1/2"	3/4"	1"	11/4"	11/2"	2"	
Α	55	55	55	60	70	61	72	72	
В	40	40	40	45	50	65	80	80	
SW	27	27	27	32	41	50	55	70	
Kgs	0,3	0,3	0,3	0,38	0,54	0,68	0,96	1,13	

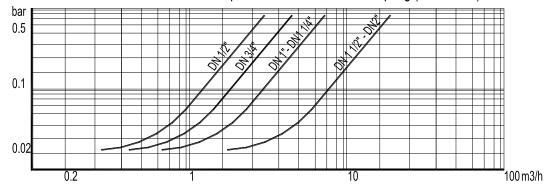
MATERIALS						
POS.	DESIGNATION	MATERIAL				
1	Valve body	AISI316 / 1.4401				
2	Cover	AISI316 / 1.4401				
4	*Soft seal	See options				
5	*Valve disc	AISI316 / 1.4401				
6	*Spring	AISI302 / 1.4300				





Minimum opening pressures with standard spring in mbar									
D	N	1/4"	3/8"	1/2"	3/4"	1"	11/4"	11/2"	2"
D.P.	<b></b>	25	25	25	25	25	25	28	29
D.P.	+	23	23	23	23	23	24	25	25
D.P.	<b>*</b>	21	21	21	21	21	21	21	21
*D.P.	4	2	2	2	2	2	3	4	4
* Vertic	Vertical installation without springs (bottom to top).								





To determine the pressure drop of other mediums the equivalent water flow volume has to be calculated:  $V_{\scriptscriptstyle W} = \sqrt{\frac{Q}{1000}} \times V$ 

 $\label{eq:water} Vw = Equivalent \ water \ flow \ volume \ in \ m3/h \ ; \ Q = Density \ in \ Kg/m3 \ ; \ V = Flow \ volume \ in \ m3/h \ ; \ V = Flow \ volume \ in \ \ volume$ 







## WAFER-TYPE NON-RETURN VALVE RD40 DN15 – DN100

### **DESCRIPTION**

The RD40 all stainless steel disc check valve has a compact design and was specially designed for use with steam and hot condensate.

Connections are flanged (wafer type)

### MAIN FEATURES

Low pressure drop.

Simple and compact design.

Overall lengths according to DIN 3202 part 3-K4

OPTIONS: Soft sealing:

EPDM (E), NBR (N), VITON

(V), PTFE (T). Inconel springs

USE: Saturated steam, water and

other gases (Group 2) compatible with the

construction

**AVAILABLE** 

MODELS: RD 40

SIZES: DN 15 to DN 100

CONNECTIONS: Sandwiched between flanges

as per EN 1092 or ANSI.

INSTALLATION: Horizontal or vertical installation

See IMI, installation and

maintenance instructions.

RATING: PN 25 / PN 40

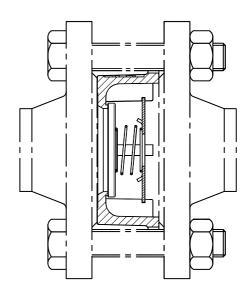
LIMIT OF

OPERATION: As per EN 1092

Recommended limit of operation with soft seats ( °C)						
EPDM (E) NBR (N) VITON (V) PTFE (T)						
130º	95º	180º	180⁰			

CE MARKING (PED - European Directive 97/23/EC)							
PN 25 PN 40 Category							
DN15 to DN40	DN15 to DN32	SEP - art. 3, paragraph3					
DN50 to DN100	DN40 to DN80	Category 1 (CE Marked)					
-	DN100	Category 2 (CE Marked)					

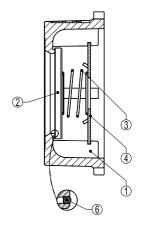






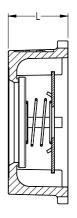


	DIMENSIONS (mm)								
DN	15	20	25	32	40	50	65	80	100
D1	43	53	64	75	86	96	115	132	152
D2	50	60	70	81	91	105	126	141	167
L	17	20	23	28	32	40	46	50	60
Kgs	0,18	0,2	0,25	0,5	0,7	1,3	1,7	2,8	4,5

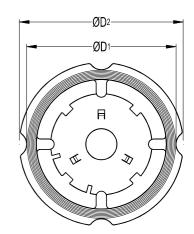


MATERIALS					
POS.	DESIGNATION	MATERIAL			
1	Valve body	CF8M / 1.4408			
2	*Disc	AISI316 / 1.4401			
3	*Spring	AISI302 / 1.4300			
4	Star	AISI316 / 1.4401			
6	* Soft seal	See options			

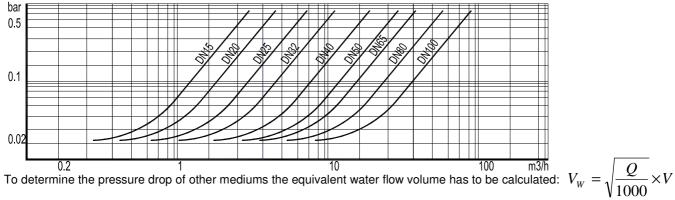
<sup>\*</sup>Available spare parts



Minimum opening pressures with standard spring in mbar										
D	N	15	20	25	32	40	50	65	80	100
D.P.	<b>4</b>	25	25	25	27	28	29	30	31	33
D.P.	4	23	23	23	24	25	25	26	26	27
D.P.	*	21	21	21	21	21	21	21	21	21
*D.P.	4	2	2	2	3	4	4	5	5	6



## Pressure drop, horizontal flow, standard spring (water - 20°)



 $Vw = Equivalent \ water \ flow \ volume \ in \ m3/h \ ; \ Q = Density \ in \ Kg/m3 \ ; \ V = Flow \ volume \ in \ m3/h \ ; \ V = Flow \ volume \ in \ volume \ in \ m3/h \ ; \ V = Flow \ volume \ in \ m3/h \ ; \ V = Flow \ volume \ in \ m3/h \ ; \ V = Flow \ volume \ in \ m3/h \ ; \ V = Flow \ volume \ in \ m3/h \ ; \ V = Flow \ volume \ in \ m3/h \ ; \ V = Flow \ volume \ in \ m3/h \ ; \ V = Flow \ volume \ in \ m3/h \ ; \ V = Flow \ volume \ in \ m3/h \ ; \ V = Flow \ volume \ in \ m3/h \ ; \ V = Flow \ volume \ in \ volume \$ 







## **WAFER-TYPE NON-RETURN VALVE RD40 DN 125 - DN 200**

### **DESCRIPTION**

The RD40 disc check valve has a compact design and was specially designed for use with steam and hot condensate.

Connections are flanged (wafer type)

### MAIN FEATURES

Low pressure drop.

Simple and compact design.

Overall lengths according to DIN 3202 part 3-K4

**OPTIONS:** Soft sealing:

EPDM (E), NBR (N), VITON

(V), PTFE (T). Inconel springs

USE:

Saturated steam, water and

other gases (Group 2) compatible with the

construction

**AVAILABLE** 

MODELS: **RD 40** 

SIZES: DN 125 to DN 200

**CONNECTIONS:** Sandwiched between flanges

as per EN 1092 or ANSI.

**INSTALLATION:** Horizontal or vertical installation

IMI. installation

maintenance instructions.

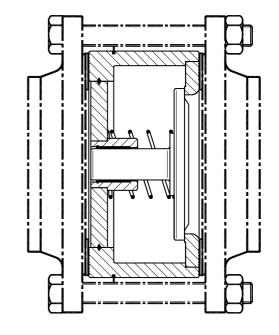
**RATING:** PN 10 / PN 40

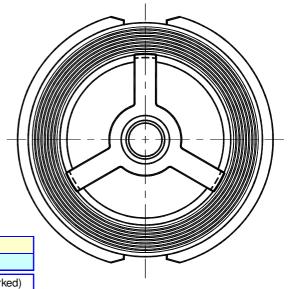
LIMIT OF

**OPERATION:** As per EN 1092

Recommended limit of operation with soft seats (°C)						
EPDM (E)NBR (N)VITON (V)PTFE (T)						
130º	95⁰	180⁰	180⁰			

CE MARKING (PED - European Directive 97/23/EC)						
PN 10/16	PN 25	PN 40	Category			
DN125 to DN200	DN125	/	Category 1 (CE marked)			
/	DN150-DN200	DN125	Category 2 (CE marked)			
/	/	DN150-DN200	Category 3 (CE marked)			

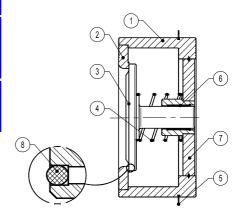








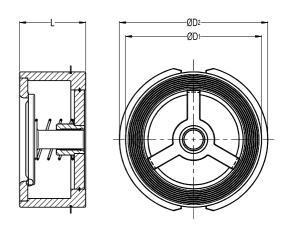
	DIMENSIONS (mm)							
DN	D1 PN10/16	D2 PN25	D2 PN40	D2 ANSI150	D2 ANSI300	L	Weight Kgs	
125	192	192	192	192	216	90	11	
150	218	226	226	218	251	106	13,5	
200	273	286	293	273	308	140	24	



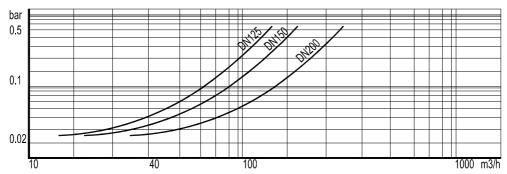
	MATERIALS					
POS.	DESIGNATION	MATERIAL				
1	Valve body	S355J2G3 / 1.0570				
2	Seat	AISI316 / 1.4401				
3	*Disc	AISI316 / 1.4401				
4	*Spring	AISI302 / 1.4300				
5	Centering ring	AISI304 / 1.4301				
6	Bearing	Steel Fe Zn				
7	Star	S355J2G3 / 1.0570				
8	*Soft seal	See options				

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

Minimum opening pressures with standard spring in mbar								
D	DN 125 150 200							
D.P.	<b>4</b>	37	40	46				
D.P.	<b>→</b>	22	25	28				
D.P. ♥ 7 10 10								
Flow directio	Flow direction.							







To determine the pressure drop of other mediums the equivalent water flow volume has to be calculated:  $V_W = \sqrt{\frac{Q}{1000}} \times V$ 

Vw = Equivalent water flow volume in m3/h; Q = Density in Kg/m3; V = Flow volume in m3/h







## BRONZE GLOBE VALVE GV32B

### **DESCRIPTION**

GV32B bronze in line stop valves, screwed type for use on steam, water, oil or air applications.

MAIN

FEATURES: Rising stem

PTFE renewable disk High quality PTFE packing

USE: Saturated steam, condensate, water,

oil, compressed air and other fluids

compatible with the construction.

AVAILABLE

MODELS: GV32B

SIZES: DN1/2" - 2"

CONNECTIONS: Female screwed ISO7/1Rp(BS21)

LIMITING

CONDITIONS: Body design conditions: PN32

198°C at 14 bar 100°C at 32 bar

FLOW RATE COEFFICIENTS							
SIZES							
1/2" 3/4" 1" 11/4" 11/2" 2					2"		
Kvs	2	5	10	16	23	42	

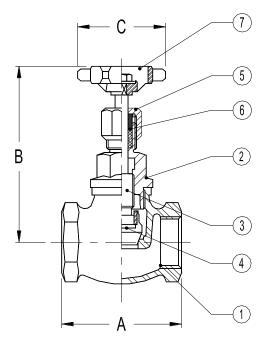
Kvs in m3/h , see data sheet IS PV10.00 E ;

For conversion Kvs =  $Cv(US) \times 0.855$ 

	DIMENSIONS						
DN	A (mm)	B (mm)	C (mm)	Weight (Kgs)			
1/2"	57	95	75	0,39			
3/4"	65	98	75	0,55			
1"	78	114	85	0,85			
11/4"	89	138	95	1,36			
11/2"	100	159	105	1,76			
2"	121	170	120	2,62			

alve Body Bonnet Stem	MATERIAL  Bronze  Forged brass  Brass
Bonnet	Forged brass
Stem	Brass
Disk	Glass filled PTFE
Disk nut	Brass
Packing	PTFE
andwheel	Aluminium
	Packing





CE MARKING (PED-European Directive 97/23/EC)				
PN 32 Category				
DN 1/2" to 11/4"	SEP-art.3, paragraph 3			
DN 11/2" and DN 2"	Cat. 1 ( CE Marked )			

We reserve the right to change the design and material of this product without notice.





## BELLOWS SEALED STOP VALVES VF16 – VF17 – VF18

### **DESCRIPTION**

VF series are streamlined flow valves with bellows, inside screw and maintenance free.

They are specially recommended for steam, gas, liquid, condensate, thermal oil and water systems. Connections are flanged.

### MAIN FEATURES

Double wall bellows specially designed for high durability. Maintenance free Secondary safety sealing



OPTIONS: Parabolic plug

PTFE disc sealing (max.180°C)

USE: Steam, gases and liquids compatible with

the construction.

**AVAILABLE** 

MODELS: VF16 – PN16 – Cast iron

VF17 – PN16 – Nodular cast iron VF18 – PN25 – Nodular cast iron

SIZES:

DN15 to DN 250

CONNECTIONS:

Flanged EN1092-2 PN16-PN25

INSTALLATION:

See IMI, installation and maintenance

instructions.

CE MARKING (PED - European Directive 97/23/EC)						
PN 16	Category	PN 25	Category			
DN15 to DN50	SEP - art. 3, paragraph3	DN15 to DN40	SEP - art. 3, paragraph3			
DN65 to DN200	1 (CE Marked)	DN50 to DN125	1 (CE Marked)			
DN250	2 (CE Marked)	DN150 to DN200	2 (CE Marked)			

LIMITING CON	IDITIONS VF 16	LIMITING CON	IDITIONS VF 17	LIMITING CON	IDITIONS VF 18
ALLOWABLE PRESSURES	RELATED TEMPERATURE	ALLOWABLE PRESSURES	RELATED TEMPERATURE	ALLOWABLE PRESSURES	RELATED TEMPERATURE
16 bar	-10 /120º C	16 bar	-10 /120º C	25 bar	-10 /120º C
12,8 bar	200 ºC	14,7 bar	200 ºC	23 bar	200 ºC
11,2 bar	250 ºC	13,9 bar	250 ºC	21,8 bar	250 ºC
9,6 bar	300 ºC	12,8 bar	300 ºC	20 bar	300 ºC
/	/	11,2	350 ºC	17,5 bar	350 ºC

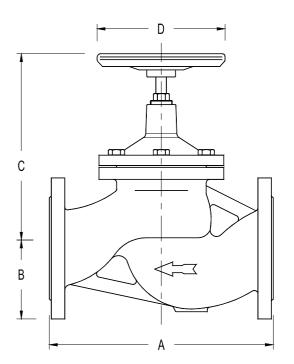




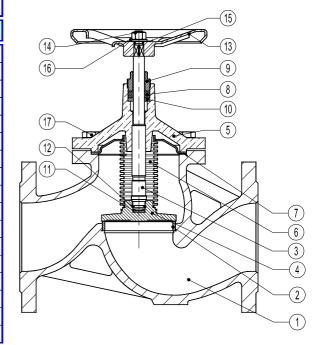


	DIMENSIONS (mm)					
SIZE DN	Α	В	C *	D	WGT. Kgs	Kv m3/h
15	130	47,5	175	100	2,2	4,6
20	150	52,5	175	100	3	7,3
25	160	57,5	191	100	4	11,7
32	180	70	193	125	5,5	16,8
40	200	75	229	150	8,2	26,7
50	230	82,5	231	150	10,2	42,6
65	290	92,5	314	200	18	77,9
80	310	100	316	200	20,5	111
100	350	110	353	225	30,6	177
125	400	125	385	250	42,5	262
150	480	142,5	443	350	64	368
200	600	170	517	400	110	664





	MATERIALS					
POS.	DESIGNATION	MATERIAL VF16	MATERIAL VF17-18			
1	Body	EN-GJL-250	EN-GJS-400-18-LT			
2	Seat	St.Steel	St.Steel			
3	* Spindle	St.Steel	St.Steel			
4	* Disc	St.Steel	St.Steel			
5	Bonnet	EN-GJL-250	EN-GJS-400-18-LT			
6	* Bellows	St.Steel	St.Steel			
7	* Gasket	St.Steel/Graphite	St.Steel/Graphite			
8	* Packing	Carbo-Graphite	Carbo-Graphite			
9	Gland	ZincPl.Steel	ZincPl.Steel			
10	Bottom ring	ZincPl.Steel	ZincPl.Steel			
11	Anti-friction disc	St.Steel	St.Steel			
12	Elastic ring	St.Steel	St.Steel			
13	Handwheel	Steel	Steel			
14	Nut	ZincPl.Steel	ZincPl.Steel			
15	Nameplate	Aluminium	Aluminium			
16	Washer	Steel	Steel			
17	Bolts	Steel 8.8	Steel 8.8			





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





## BELLOWS SEALED STOP VALVES VF20

### **DESCRIPTION**

VF20 series are streamlined flow valves with bellows, outside screw no rising stem, maintenance free. They are specially recommended for steam, gas, liquid, condensate, thermal oil and water systems. Connections are flanged.

### MAIN FEATURES

Double wall bellows specially designed for high durability.
Position indicator
Lubricator
Maintenance free
Secondary safety sealing



OPTIONS: Parabolic plug

PTFE disc sealing (max.180°C)

USE: Steam, gases and liquids compatible with

the construction.

AVAILABLE

MODELS: VF20 - Cast iron

RATING: PN16

SIZES: DN15 to DN 200

CONNECTIONS: Flanged EN1092-2 PN16

INSTALLATION: See IMI, installation and maintenance

instructions.

LIMITING CONDITIONS VF 20				
ALLOWABLE RELATED PRESSURES TEMPERATURE				
16 bar	-10 /120° C			
12,8 bar	200 ℃			
11,2 bar	250 °C			
9,6 bar	300 °C			

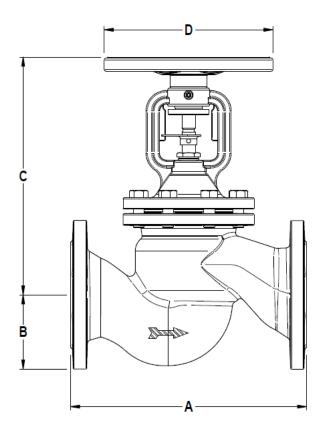
CE MARKING (PED - European Directive 97/23/EC)				
PN 16 Category				
DN15 to DN50	SEP - art. 3, paragraph3			
DN65 to DN200	1 (CE Marked)			





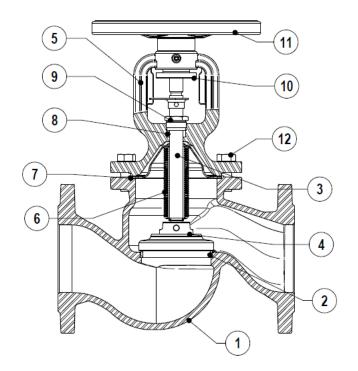


	DIMENSIONS (mm)					
SIZE DN	Α	В	С	D	WGT. Kgs	Kv m3/h
15	130	47,5	178	125	3,2	5,9
20	150	52,5	178	125	3,9	7,4
25	160	57,5	193	125	4,6	13
32	180	70	201	125	6,5	18
40	200	75	224	150	9	30
50	230	82,5	228	150	11	41
65	290	92,5	270	175	15,8	79
80	310	100	295	200	20,5	115
100	350	110	321	250	35	181
125	400	125	388	300	49	225
150	480	142,5	448	400	76	364
200	600	170	575	500	130,5	725



	MATERIALS					
POS.	DESIGNATION	MATERIAL VF20				
1	Body	EN-GJL-250				
2	Seat	St.Steel				
3	* Spindle	St.Steel				
4	* Disc	St.Steel				
5	Bonnet	EN-GJL-250				
6	* Bellows	St.Steel				
7	* Gasket	St.Steel/Graphite				
8	* Packing	Carbo-Graphite				
9	Gland	ZincPl.Steel				
10	Anti-friction disc	ZincPl.Steel				
11	Handwheel	Steel				
12	Bolts	Steel 8.8				

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









## STAINLESS STEEL NEEDLE VALVES NV400 – NV400H

### **DESCRIPTION**

The NV-400 is a high pressure needle stop valve, designed for steam and other industrial fluids isolation.

### MAIN FEATURES

Rising stem Complete stainless steel construction High quality graphite packing

OPTIONS: Other sizes and materials available under

request.

USE: Saturated steam, water, compressed air

and other fluids compatible with the

construction.

**AVAILABLE** 

MODELS: NV-400; NV-400H

SIZES: DN 1/4",3/8" and 1/2"

CONNECTIONS: Female screwed ISO7/1Rp(BS21)

INSTALLATION: In any position with the flow in the

direction of the arrow on the valve body.

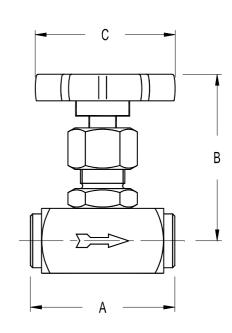
	DIMENSIONS (mm)					
DN	DN A B C Weight Kgs					
1/4"	55	75	70	0,46		
3/8"	60	75	70	0,45		
1/2"	65	75	70	0,45		

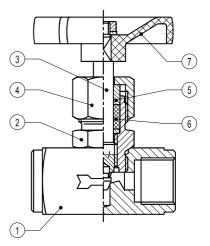
BODY LIMITING CONDITIONS					
NV-400 NV-400H RELATED					
ALLOW. PRES.	ALLOW. PRES.	TEMP.			
400 bar	400 bar	20 ºC			
320 bar	320 bar	200 ºC			
284 bar	284 bar	300 ºC			
1	268 bar	400 ºC			
/	240 bar	550 ºC			

Minimum operating temperature: -20°C

	MATERIALS					
POS.	DESIGNATION	MATERIAL				
F03.	DESIGNATION	NV400	NV400H			
1	Valve Body	AISI316Ti / 1.4571	AISI316Ti / 1.4571			
2	Bonnet	AISI316Ti / 1.4571	AISI316Ti / 1.4571			
3	Stem	AISI316Ti / 1.4571	AISI316Ti / 1.4571			
4	Disk nut	AISI316Ti / 1.4571	AISI316Ti / 1.4571			
5	Packing gland	AISI316Ti / 1.4571	AISI316Ti / 1.4571			
6	Packing	Graphite	Grafiflex			
7	Handwheel	Plastic	Metalic			













## PRESSURE GAUGE MAN-100

### **DESCRIPTION**

MAN-100 pressure gauges have 100 mm diameter and are marked in bar.
MAIN FEATURES
Accuracy – Class 1
Case - Stainless steel
Lens-Glass
Dial-Aluminium white
Pointer-Aluminium black
Measuring system: copper alloy

AVAILABĽE

MODELS: MAN-100

CONNECTIONS: DN 1/2" Bottom, back eccentric

MEASURING RANGE: -1...40 bar

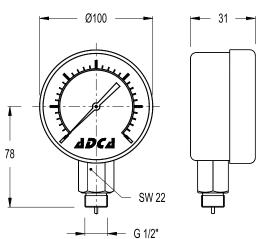
WEIGHT: 0,34Kgs

LIMITING CONDITIONS:

PMA Max. allowable pressure: Full scale reading

PMO Max. operating temperature: 80°C





## GAUGE COCK GC-400

### **DESCRIPTION**

GC-400 pressure gauges cocks without test connection DIN 16270 Form A MAIN FEATURES Body-Steel C22.8 or stainless steel Spindle-Stainless steel Packing-PTFE Handwheel-Plastic AVAILABLE

MODELS: GC-400

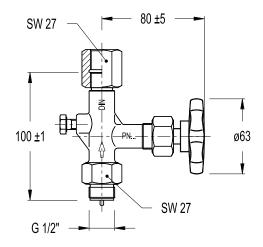
CONNECTIONS: DN 1/2" (male x female)

WEIGHT: 0,51 Kgs LIMITING CONDITIONS:

Working pressure:250 bar at 250°C

400 bar at 120°C











## GAUGE SIPHONS GSC - GSU

### **DESCRIPTION**

The GS series pressure gauge siphons have been designed to protect pressure gauges from the effect of rapid pressure surges and hot pressure fluids.

They operate as cooling elements for liquids and gases in pressure measuring devices.

An isolation pressure gauge cock is recommended to be installed in combination with gauge siphons.

### MAIN FEATURES

Complete stainless steel construction

OPTIONS: Different kind of connections.

USE: Pressure gauge protection on steam, water,

compressed air and other fluids systems

compatible with the construction.

**AVAILABLE** 

MODELS: GSC-40; GSU-40; GSUL-40

SIZES: ½" (male x female)

CONNECTIONS: Female screwed ISO7/1Rp(BS21)

INSTALLATION: GSC - vertical: GSU - horizontal.

**LIMITINNG** 

CONDITIONS: 40 bar at 300 °C; 110 bar at 110 °C

WEIGHT: 0,34 Kgs

MATERIALS: Coil – AISI 316L / 1.4404

Connections - AISI 304 / 1.4301



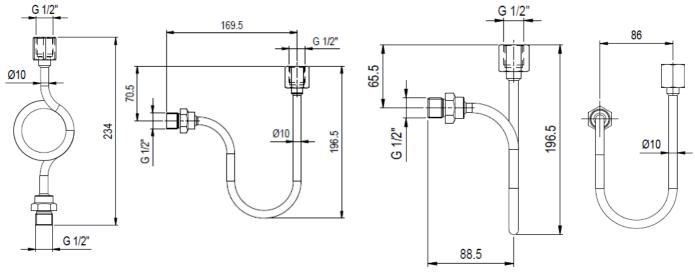
GSC

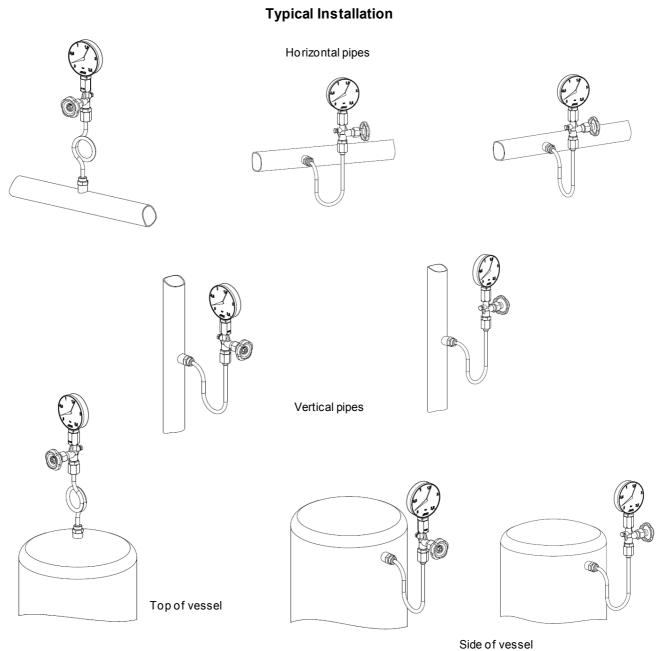












VALSTEAM ADCA





### GAUGE SIPHONS GSV

### **DESCRIPTION**

The GSV series pressure gauge siphons have been designed to protect pressure gauges from the effect of rapid pressure surges and hot pressure fluids.

Specifically designed to replace the traditional "pigtail" and other coil design siphons where it is necessary to eliminate gauge whip and vibration. They operate as cooling elements for liquids and gases in pressure measuring devices.

An isolation pressure gauge cock is recommended to be installed in combination with gauge siphons.

### MAIN FEATURES

Complete stainless steel construction

Compact sturdy design, requires minimum space for installation.

OPTIONS: Different kind of connections.

USE: Pressure gauge protection on steam,

water, compressed air and other fluids systems compatible with the

construction.

**AVAILABLE** 

MODELS: GSV

SIZES: ½" (male x female)

CONNECTIONS: Female screwed ISO7/1Rp(BS21) INSTALLATION: GSC - vertical: GSU - horizontal.

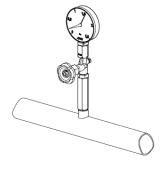
**LIMITINNG** 

CONDITIONS: 63 bar at 400 °C; 100 bar at 120 °C

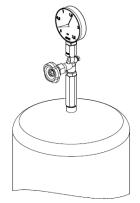
WEIGHT: 0,42 Kg

MATERIALS: AISI 316 / 1.4401

## **Typical Installation**

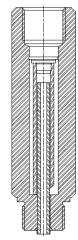


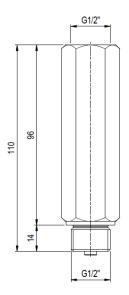
Horizontal pipe

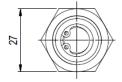


Top of vessel















## LEVEL GAUGE LGC135I

### **DESCRIPTION**

The LGC level gauge valve was specially conceived to supervise the functioning and visualization of liquid level in pressure operated condensate pumps, reservoirs and other equipment whenever compatible with operation boundaries.

May be supplied either with glass or without.

MAIN FEATURES Stainless steel construction

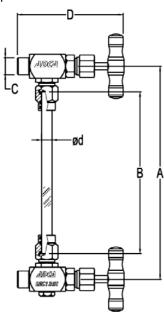
AVAILABLE

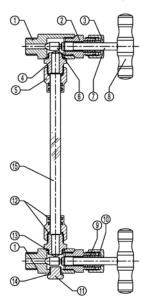
MODELS: LGC 135I

CONNECTIONS: DN 1/2"

LIMITING CONDITIONS:

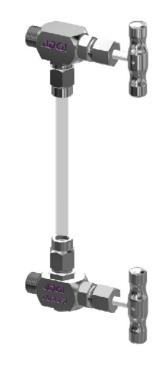
Working pressure: 12 bar at 200°C





VALSTEAM ADCA





DIM ENSIONS (mm)						
SIZE DN	A	В	С	D	d	WGT. Kgs
1/2"x13	*	*	1/2"	135	13	1,4

<sup>\*</sup> Dimension B is obtained by deducting 66 to A

	MATERIALS					
POS.	DESIGNATION	MATERIAL				
1	Valve body	AISI316 / 1.4401				
2	Bonnet	AISI316 / 1.4401				
3	Packing nut	AISI316 / 1.4401				
4	Socket	AISI316 / 1.4401				
5	Glass union	AISI316 / 1.4401				
6	*O-ring	Viton				
7	Valve stem	AISI316 / 1.4401				
8	Handw heel	AISI316 / 1.4401				
9	*Packing	PTFE/Graphite				
10	Gland	AISI316 / 1.4401				
11	Low er plug	AISI316 / 1.4401				
12	*O-rings	Viton				
13	*O-ring	Viton				
14	*O-ring	Viton				
15	*Tube glass	Borosilicate				

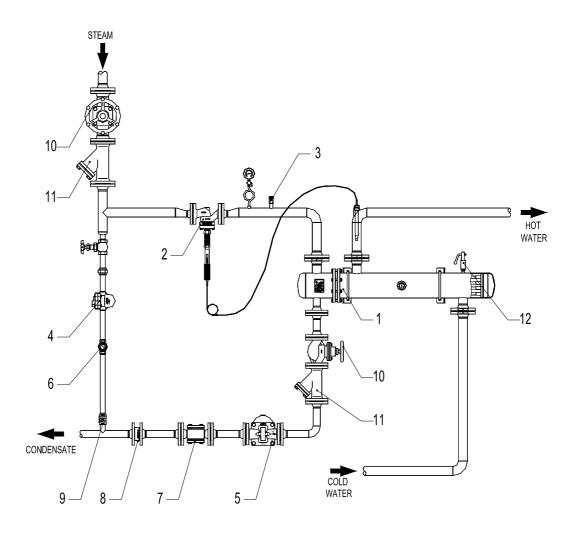
<sup>\*</sup> Available spare parts.

We reserve the right to change the design and material of this product without notice.





# ADCATHERM STH SHELL & TUBE HEAT EXCHANGER Typical Installation

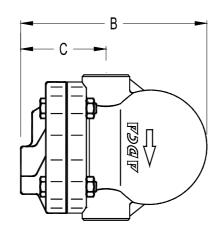


	MATERIALS		
POS.	DESIGNATION	MODEL	<del>-</del>
1	HEAT EXCHANGER	STH	
2	SELF OPERATED CONTROLLER	TR	
3	VACUUM BREAKER	VB 21	
4	DRIP LEG STEAM TRAP	<b>TSS 22</b>	
5	FLOAT&THERMOST.STEAM TRAP	FLT	
6	SIGH GLASS	SW	
7	SIGH GLASS	DW	
8	CHECK VALVE	RD 40	
9	CHECK VALVE	RT 25	Remarks:
10	GLOBE VALVE		
11	Y STRAINER	IS16F	Materials according to the operating pressures.
12	SAFETY VALVE		Different assembling designs may be produced on re





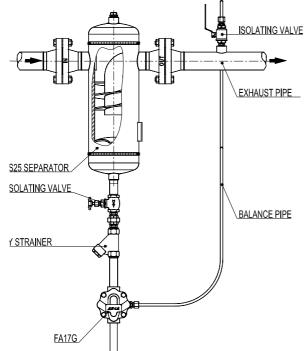
DIMENSIONS (mm)										
Screwed							EN PN16		ANSI 150	
SIZE DN	A	В	С	D	WGT. Kgs	F	WGT. Kgs	F	WGT. Kgs	
15-1/2"	122	150	68	108	3,5	150	4,4	150	3,9	
20-3/4"	122	150	68	108	3,5	150	4,9	150	4,1	

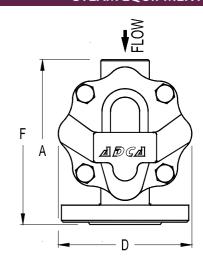


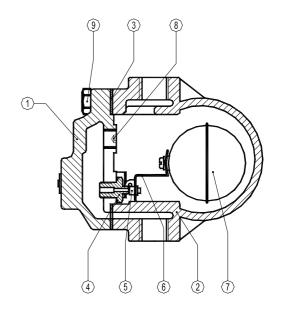
MATERIALS							
POS.Nr.	DESIGNATION	MATERIAL					
1	Body	GJS-400-15 / 0.7040					
2	Cover	GJS-400-15 / 0.7040					
3	* Gasket	St.Steel / Graphite					
4	* Seat	AISI 304 / 1.4301					
5	* Valve	VITON					
6	* Lever	AISI 304 / 1.4301					
7	* Float	AISI 304 / 1.4301					
8	Plug	A105 / 1.0432					
9	Bolts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

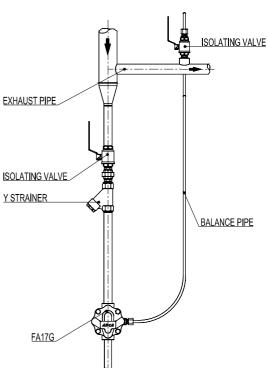


VALSTEAM ADCA









We reserve the right to change the design and material of this product without notice.