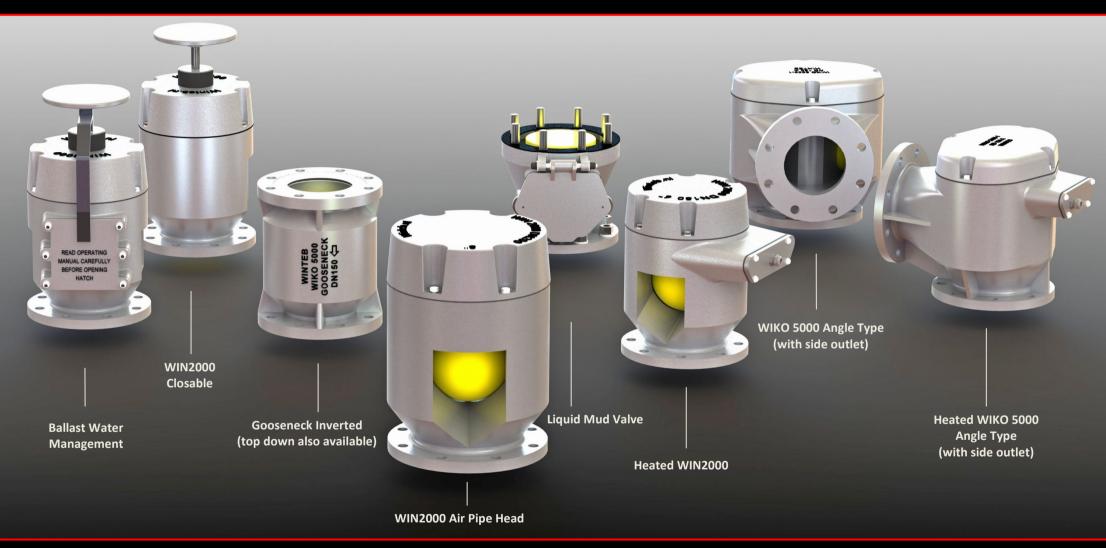




Made of seawater resistant Aluminium DIN1725 | Non corroding | Maintenance free | Smallest design available Cost saving | light weight = less fuel = less CO2 emission | Approved by all major classification societies For more information and a complete overview of our product range, please check www.winteb.com







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Fax: +31 597 420494 Email: info@winteb.com Website: www.winteb.com Bank: ABN AMRO Bank account: 211159689

Bank account: 211159689 IBAN: NL58ABNA0211159689

Bic: ABNANL2A

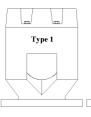
VAT: NL807422794B01

CC: 02312447

Options:

- **Closing device** 1.
- Screen 2.
- Threaded connection, only for aluminium pipes.
- Powder (epoxy) coating
- Sounding pipe
- **Small flange connection**
- 7. Vacuum Breaker
- Anti splash water type (Type 1B, DN50-DN125, recommended for fuel tanks)





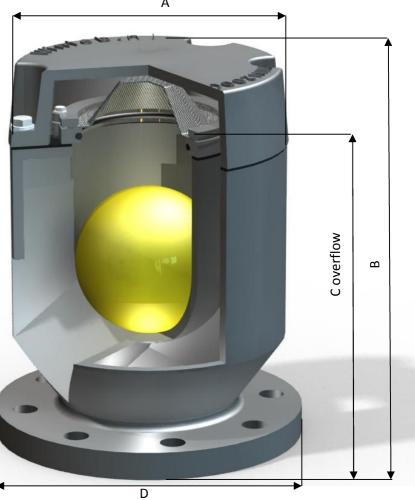




Type 1B (DN50-DN125) Anti Splash water type Recommended for fuel tanks







Type 1 with screen (screen is optional)

	DN50 (2")	DN65 (2 ½")	DN80 (3")	DN100 (4")	DN125 (5")	DN150 (6")	DN175 (7")	DN200 (8")	DN250 (10")	DN300 (12")	DN350 (14")	DN400 (16")	DN450 (18")
Α	Ø108	Ø130	Ø160	Ø195	Ø235	Ø275	Ø275	Ø340	Ø415	Ø560	Ø642	Ø725	Ø740
B ±2.5	161	200	226	265	320	372	372	470	593	741	842	950	1110
C Overflow	136	168	190	226	262	312	312	385	478	595	675	760	925
D	Flange connection according to any standard												
Ball diameter	Ø60	Ø75	Ø90	Ø105	Ø130	Ø155	Ø155	Ø200	Ø250	Ø325	Ø360	Ø400	Ø480
Weight kg.	2	2.75	3.75	6	8.5	12	13	19.5	31	63	88	114	134
Flow rate at 0,25 bar(m3/h)*	23	34	57	102	128	204	210	340	450	775	940	1250	1800
Flow rate at 0,25 bar(m3/h) **	19	33	52	78	116	188	195	273	405	705	896	1095	
Max. inlet air speed (m/s)	11	9.5	10	8	9.5	10	8.5	10	9.5	15	19	20.5	15.5
Inlet air flow rate at max. inlet air speed (m3/h)	72	115	180	216	432	665	720	1080	1700	3780	6500	8100	9000

^{*}Please note that these values correspond with the WIN2000 Type 1 without screen, flowrate is with water being pumped through the air pipe head.

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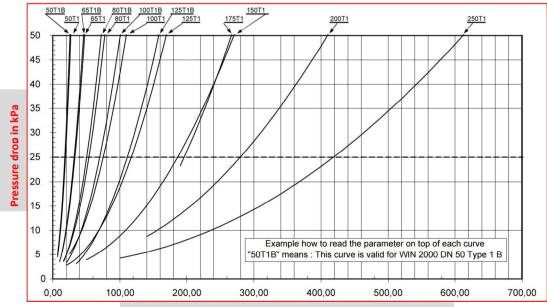
^{**}Please note that these values correspond with the WIN2000 Type 1 with screen mesh 18, flowrate is with water being pumped through the air pipe head. See reverse side for complete flowcurves.



The original

125T1 150T1 1,75T1 250T1 50 45 Pressure drop in kPa 35 30 25 20 15 10 5 0,00 100,00 200,00 300,00 400,00 500,00 600,00 700,00

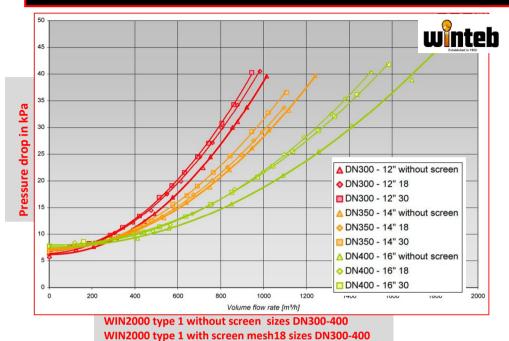


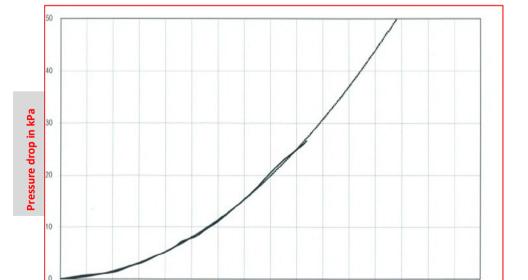


WIN2000 type 1 with screen mesh18 sizes DN50-250 WIN2000 type 1-B with screen mesh18 sizes DN50-125

WIN2000 Air Pipe Heads: Pressure drop vs. Flow rate Characteristics

According to classification societies the air pipe head characteristic curves are to be taken into consideration at the design stage of the ballast system. Flowrate in m3/h





WIN2000 type 1 with screen mesh30 sizes DN300-400

WIN2000 type 1 without screen size DN450

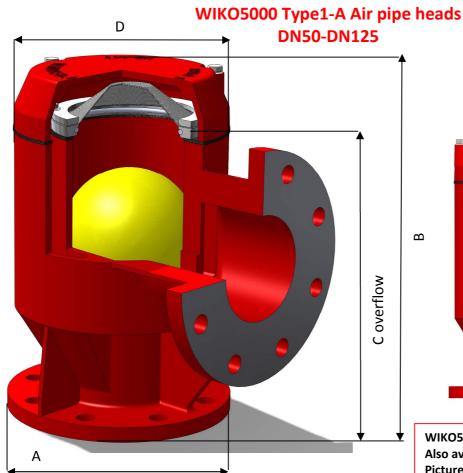
1400 1600 1800 2000 2200 2400 2600 2800 3000 3200

1000 1200

200

400



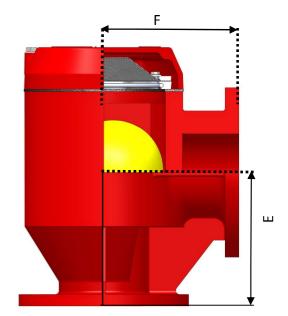


	DN50	DN65	DN80	DN100	DN125			
	(2")	(2 ½")	(3")	(4")	(5")			
A	Flange connections according to international standards							
B ±2.5	240	240	240	335	335			
C Overflow	210	210	210	260	260			
D	Ø156	Ø156	Ø156	Ø205	Ø205			
E	105	112.5	122.5	170	170			
F	130	130	130	175	175			
Ball diameter	Ø60	Ø75	Ø90	Ø105	Ø130			
Weight kg.	4.5	5	6	10	12			
Flow rate at 0,25 bar(m3/h)*	28.7	31.4	35.7	72.6	76.9			
Max. inlet air speed (m/s)	16.5	10	7	10	8.5			
Inlet air flow rate at max. inlet air speed (m3/h)	108	126	129	288	396			

^{*}Please note that these values correspond with the WIN2000 Type 1 with screen mesh 18, flowrate is with water being pumped through the air pipe head

Options:

- 1. Screen
- 2. Sounding pipe
- 3. Closing device
- 4. Vacuum Breaker



WIKO5000 Type 1A Air Pipe Head: Also available in de-icing system Picture below shows a WIKO5000 Type 1A DN50 with de-icing system



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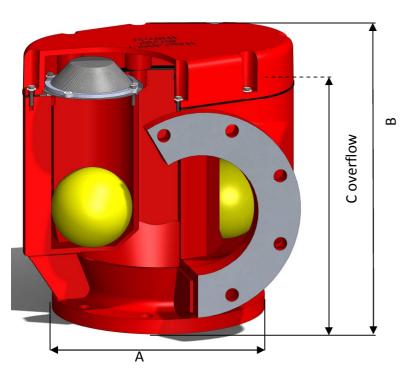


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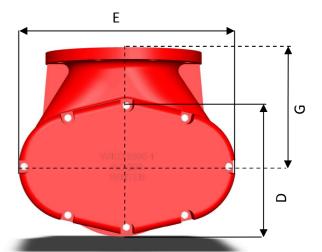


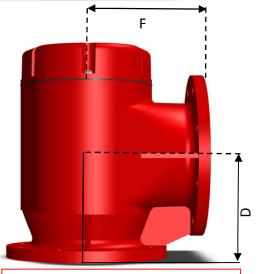
WIKO5000 Type1-A Air pipe heads DN150-DN400



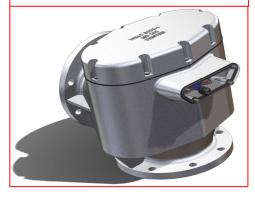
	DN150 (6")	DN175 (7")	DN200 (8")	DN250 (10")	DN300 (12")	DN350 (14")	DN400 (16")	
Α	Flange connections according to international standards							
B ±2.5	365	365	430	430	565	565	565	
D Overflow	320	320	375	375	465	465	465	
E	375	375	440	440	610	610	610	
F	190	202.5	215	230	270	295	270	
G	245	245	245	245	350	350	350	
Ball diameter	Ø130	Ø130	Ø130	Ø130	Ø240	Ø240	Ø240	
Weight kg.	22	25	30	32	55	57	60	
Flow rate at 0,25 bar(m3/h)*	151.8	151.8	257.7	265.6	510.5	506.3	514.3	
Max. inlet air speed (m/s)	14	14	14	11	15	9.5	10	
Inlet air flow rate at max. inlet air speed (m3/h)	900	900	1530	2052	3780	3420	4320	

^{*}Please note that these values correspond with the WIN2000 Type 1 with screen mesh 18, flowrate is with water being pumped through the air pipe head





WIKO5000 Type 1A Air Pipe Head: Also available in de-icing system Picture below shows a WIKO5000 Type 1A DN200 with de-icing system



Investing in Winteb Air Pipe Heads is beneficial in the long term, saving maintenance, replacement and costs. For more information and a complete overview of our product range, please check www.winteb.com

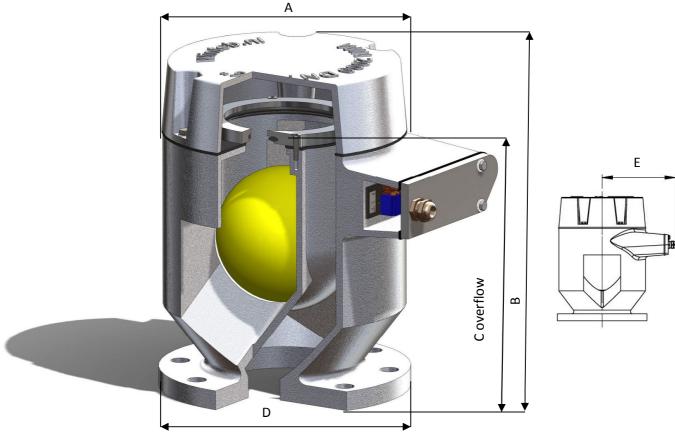


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WIN2000 Heated air pipe head

Face the cold with Winteb's heated Air Pipe Heads



	DN50	DN65	DN80	DN100	DN125	DN150	DN175	DN200	DN250	DN300	DN350	DN400	DN450
	(2")	(2 ½")	(3")	(4")	(5")	(6")	(7")	(8")	(10")	(12")	(14")	(16")	(18")
Α	Ø108	Ø130	Ø160	Ø195	Ø235	Ø275	Ø275	Ø340	Ø415	Ø562	Ø642	Ø722	Ø740
B ±2.5	161	195	226	265	313	372	372	470	576	741	842	940	1110
C Overflow	136	165	190	223	260	305	305	382	464	585	675	737	925
D			•	•	Flan	ge connect	ion accordi	ing to any s	tandard			•	
E	145	165	180	189	204	229	229	271	311	388	428	478	528
Ball diameter	Ø60	Ø75	Ø90	Ø105	Ø130	Ø155	Ø155	Ø200	Ø250	Ø325	Ø360	Ø400	Ø480
Weight kg.	3.25	3.75	5	7.5	10	14.25	14.25	22.5	35	72	95	119	140
Power (w)	125	125	125	250	250	250	250	400	800	2000	3000	3600	4000
Flow rate at 0,25 bar(m3/h)*	23	34	57	102	128	204	210	340	450	775	940	1250	1800
Flow rate at 0,25 bar(m3/h) **	19	33	52	78	116	188	195	273	405	705	896	1095	
Max. inlet air speed (m/s)	11	9.5	10	8	9.5	10	8.5	10	9.5	15	19	20.5	15.5
Inlet air flow rate at max. inlet air speed (m3/h)	72	115	180	216	432	665	720	1080	1700	3780	6500	8100	9000

^{*} Please note that these values correspond with the WIN2000 Type 1 without screen, flowrate is with water being pumped through the air pipe head.

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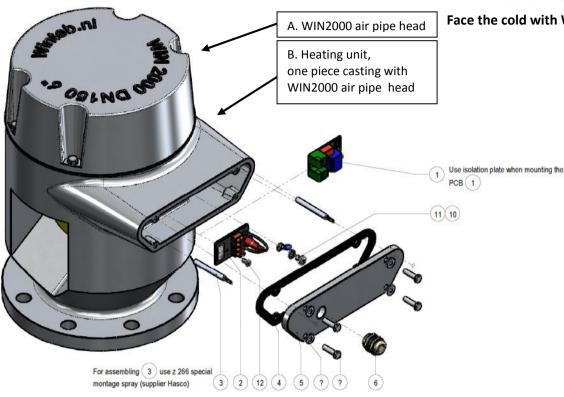
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^{**}Please note that these values correspond with the WIN2000 Type 1 with screen mesh 18, flowrate is with water being pumped through the air pipe head.



WIN2000 Heated air pipe head

Face the cold with Winteb's heated Air Pipe Heads



Posnr.	Description	Material		
1	Automatic Thermostat			
2	Non automatic Thermostat	12		
3	Heater	12		
4	Gasket	Neoprene		
5	Cover	Seawater Res AI DIN 1725		
6	Cable screw gland: HSK-M M20x1,5 LT 6-12MM	Nickel plated brass		
7	Isolation sleeve	Nylon -6		
8	Hex head screw DIN933	A4		
9	Knurled washer DIN 6798 A	A4		
10	Pan head cross DIN 7985	A4		
11	Pan head cross DIN 7985	A4		

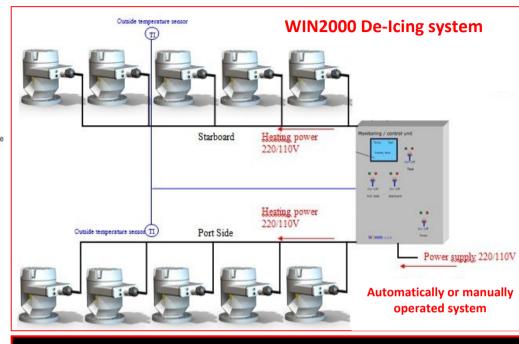
On < 5°C Off >45°C Switching tolerance °3°C

Options:

- 1.Closing Device
- 2.Screen
- 3. Powder (epoxy) coating
- 4. Sounding pipe

Available in 110V and 220V

Protection standard IP 67



Investing in Winteb Air Pipe Heads is beneficial in the long term, saving maintenance, replacement and costs.

For more information and a complete overview of our product range, please check www.winteb.com



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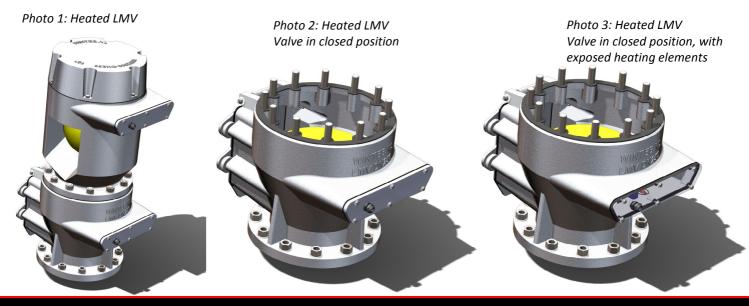
Liquid Mud Valve



New: Liquid Mud Valve (LMV) with de-icing system

Face the cold with Winteb's heated Air Pipe Heads.

From now on it is also possible to order our LMV with heating elements!



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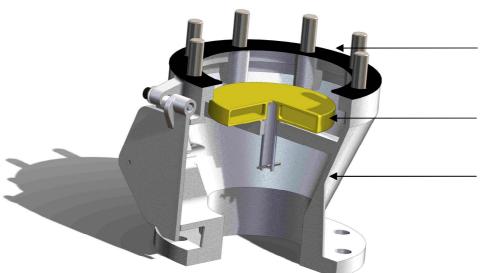


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Liquid Mud Valve

Valve in closed position

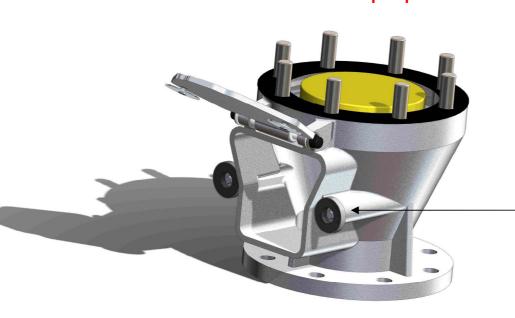


Flange connection ANSI150, DINPN10 Regular tank vent check valve to be fitted on top.

PE Float Disc

Seawater resistant aluminium casting

Valve in open position



Opening pressure adjustable by magnets.

Investing in Winteb Air Pipe Heads is beneficial in the long term, saving maintenance, replacement and costs. For more information and a complete overview of our product range, please check www.winteb.com



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WIN2000 air pipe heads

Ballast water management through continuously flushing ballast water.



Fitted with unique safety feature.

1. Normal operations;

A WIN2000 with an opened closing device (1) and a closed flushing exit (2). The unique safety feature prevents possible damage to the ballast tanks caused by human negligence. The system functions either as a normal air pipe head or as open pipe system.

See reverse side

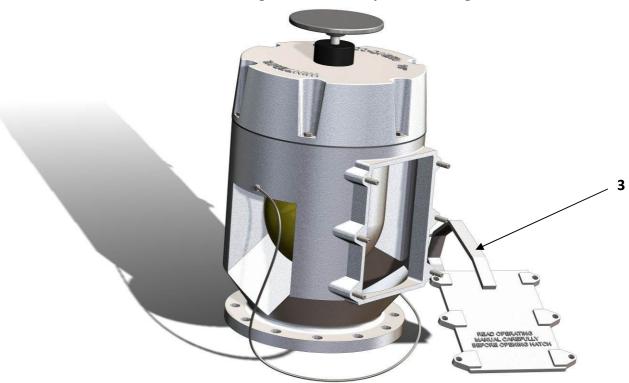
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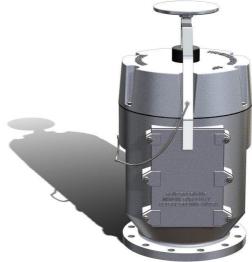


Continuously flushing ballast water;
 A WIN2000 with closed closing device and an opened flushing exit.



The closing device prevents any possible damage to the float ball or O-ring seal that might compromise the water tightness of the air pipe head. The unique safety feature (3) prevents the air pipe system to be fully closed. The flushing cover is connected to the valve by a chain so it cannot be misplaced. No human mistakes possible.

3. After flushing ballast water the closing device is opened and the flushing cover is fitted back.



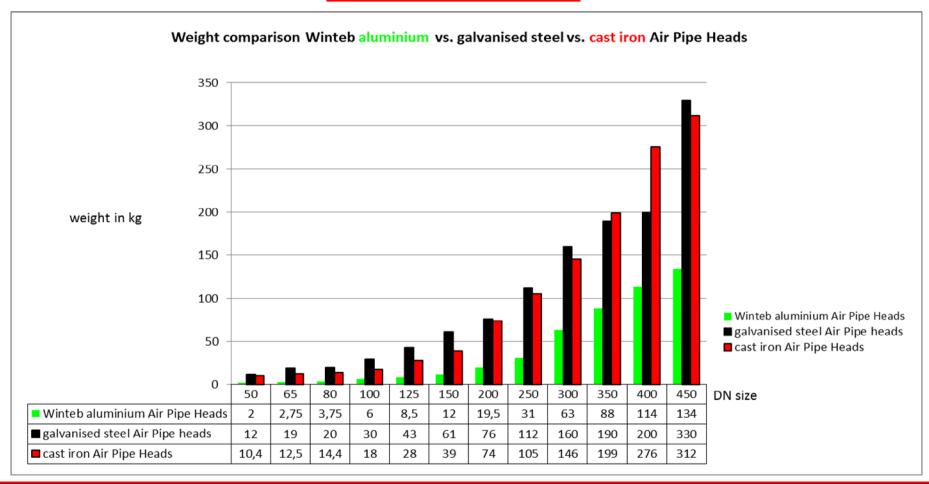
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<u>Less weight=less fuel</u> Why carry more than necessary?



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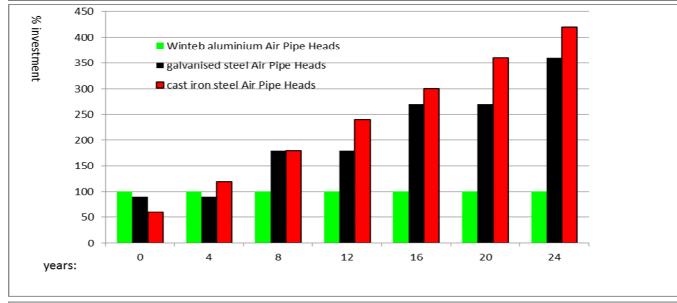
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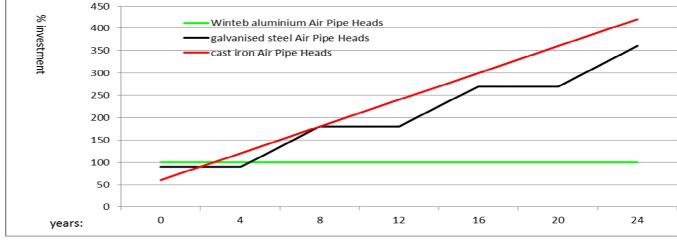


<u>Winteb Seawater resistant Aluminium Air Pipe Heads:</u> <u>Cost Saving Long Term Investment</u>

Comparison of investment over a period of 25 years
Winteb non corroding aluminium Air Pipe Heads versus cast iron & galvanised steel Air Pipe Heads

Years	Replacement cast iron	Replacement Glavanised steel	Replacement Winteb	Total investment cast iron	galvanised steel	Winteb
start				60%	90%	100%
4	YES	spare parts	NO	120%	90%	remains at 100%
8	YES	YES	NO	180%	180%	remains at 100%
12	YES	spare parts	NO	240%	180%	remains at 100%
16	YES	YES	NO	300%	270%	remains at 100%
20	YES	spare parts	NO	360%	270%	remains at 100%
24	YES	YES	NO	420%	360%	remains at 100%





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