

**NIAGARA**

AIR SEPARATORS &  
EXPANSION TANKS



**NIAGARA**

01

# NIAGARA PUMPS INTRODUCTION





[www.niagarapumps.ca](http://www.niagarapumps.ca)

With our headquarters located in Toronto, Ontario, we are proud to be a Canadian-owned and operated business. Our team of experienced engineers and technicians are dedicated to designing and manufacturing the best possible pumping solutions for our customers, using the latest technology and materials.

We offer a wide range of products to meet the needs of virtually any application, including centrifugal pumps, positive displacement pumps, submersible pumps, and more. Our pumps are used in industries such as mining, oil and gas, water and wastewater treatment, chemical processing, and power generation, among others.





02

CHANGEABLE MEMBRANE  
HEATING SERIES TANKS



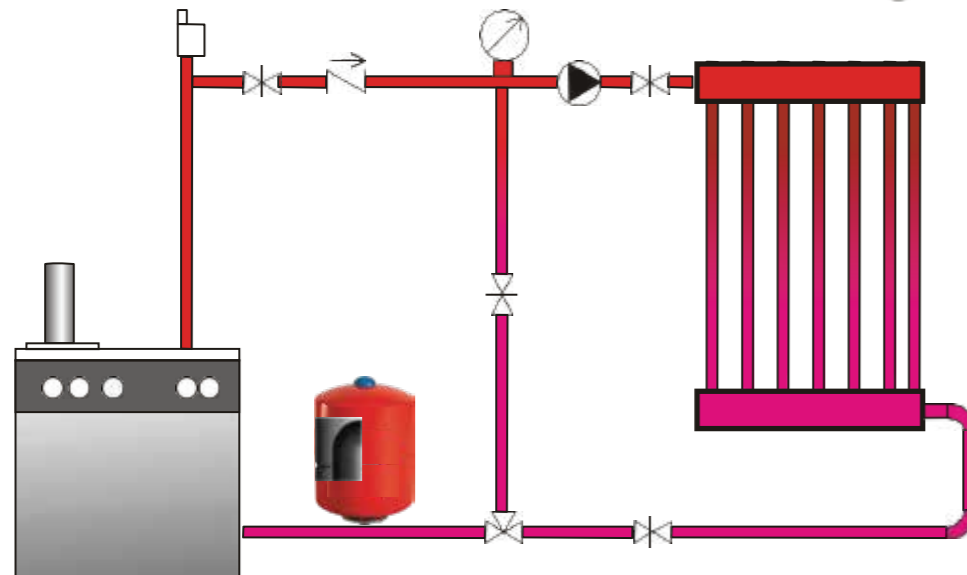
NIAGARA

# Changeable Membrane heating Series Tanks

## IT IS WELL KNOWN THAT WATER CAN NOT BE COMPRESSED

Taking that as a principle, the volume of the system's water increases along with the temperature increase in the closed circuit heating&cooling systems. As the increasing water volume can not be compressed, the excess of the water has to be compensated into the closed curcuit system. For this reason, the most common way to compensate the excess the water is to add an expansion tank to the system. When comparing, NIAGARA heating series expansions vessels in use at closed circuit system to open circuit systems, the expansions vessels provide great advantages to the system:

- The outside going water has to be added back into the system each time in the open circuit systems.
- Corrosion is quite possible in open circuit systems because of the oxygen penetrating into the system.
- The installation of the expansion vessels is much easier than the open circuit systems.



## SPESIFICATINS



Vertical Tanks Without Leg



Vertical Tanks with Leg

### Tank Metal Body

- Changeable membrane with a screw connection flange cover
- Flange connection made of galvanized carbon steel material
- Resistant up to 8/10/16/25 bars
- Outer surface with double layer Epoxy primary & Polyurethane Acrylic paint

### Membranes

- High quality membranes according to European Standarts
- Suitable for use -20°C/ +100°C working temperature
- Suitable for use with Ethylene-or Propylene- Glycolic mixtures
- DIN 4807-3, NSF-61, WRAS, BS-6920 certified and other quality certificates available
- Option: Butly membranes available upon request



### Colour

- Original Colour; Red - RAL 3020

# Changeable Membrane heating Series Tanks

## CHANGEABLE MEMBRANE HEATING SERIES TANKS

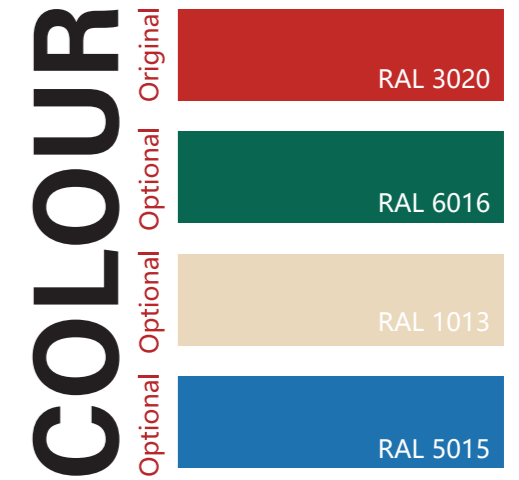
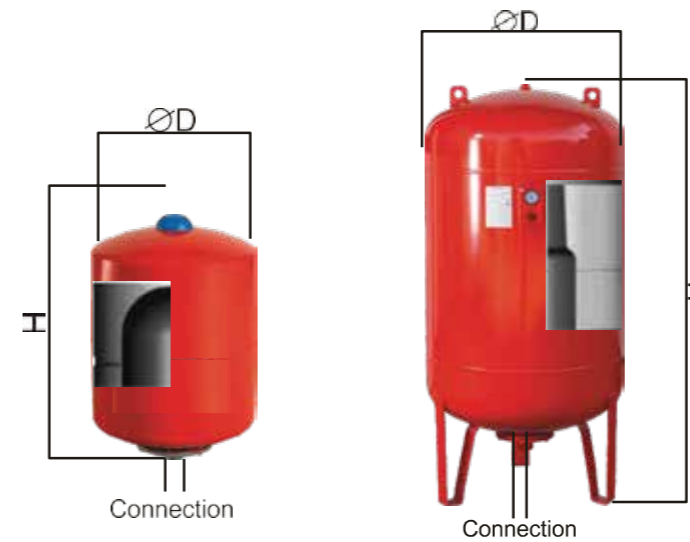
8 bar 10 bar 16 bar 25 bar

### Vertical Tanks Without Leg

Model	Capacity (L)	Pressure (Bar)	Diameter (D)	Height (H)	Pre. Charge Pressure	Connection
NP-2V-H	2 LT	8-10-16-25	160 mm	220 mm	2 bar	3/4" BSP / NPT
NP-5V-H	5 LT	8-10-16-25	160 mm	285 mm	2 bar	3/4" BSP / NPT
NP-8V-H	8 LT	8-10-16-25	200 mm	355 mm	2 bar	3/4" BSP / NPT
NP-12V-H	12 LT	8-10-16-25	240 mm	375 mm	2 bar	3/4" BSP / NPT
NP-19V-H	19 LT	8-10-16-25	270 mm	385 mm	2 bar	3/4" BSP / NPT
NP-24V-H	24 LT	8-10-16-25	300 mm	435 mm	2 bar	3/4" BSP / NPT
NP-24OS-H	24 LT	8-10-16-25	350 mm	300 mm	2 bar	3/4" BSP / NPT
NP-36V-H	36 LT	8-10-16-25	350 mm	440mm	2 bar	3/4" BSP / NPT

### Vertical Tanks With Leg

Model	Capacity (L)	Pressure (Bar)	Diameter (D)	Height (H)	Pre. Charge Pressure	Connection
NP-50VL-H	50 LT	8-10-16-25	350 mm	722 mm	3 bar	1" BSP / NPT
NP-60VL-H	60 LT	8-10-16-25	350 mm	800 mm	3 bar	1" BSP / NPT
NP-80VL-H	80 LT	8-10-16-25	400 mm	916 mm	3 bar	1" BSP / NPT
NP-100VL-H	100 LT	8-10-16-25	500 mm	886 mm	3 bar	1" BSP / NPT
NP-150VL-H	150 LT	8-10-16-25	500 mm	1085 mm	3 bar	1" BSP / NPT
NP-200VL-H	200 LT	8-10-16-25	585 mm	1100 mm	3 bar	1-1/4" BSP / NPT
NP-300VL-H	300 LT	8-10-16-25	635 mm	1230 mm	4 bar	1-1/4" BSP / NPT
NP-500VL-H	500 LT	8-10-16-25	750 mm	1530 mm	4 bar	1-1/4" BSP / NPT
NP-750VL-H	750 LT	8-10-16-25	800 mm	1720 mm	4 bar	2" BSP / NPT
NP-850VL-H	850 LT	8-10-16-25	800 mm	2020 mm	4 bar	2" BSP / NPT
NP-1000VL-H	1000 LT	8-10-16-25	800 mm	2195 mm	4 bar	2" BSP / NPT
NP-1500VL-H	1500 LT	8-10-16-25	958 mm	2350 mm	4 bar	2" BSP / NPT
NP-2000VL-H	2000 LT	8-10-16-25	1100 mm	2450 mm	4 bar	2" BSP / NPT
NP-2500VL-H	2500 LT	8-10-16-25	1100 mm	2700 mm	4 bar	3" BSP / NPT
NP-3000VL-H	3000 LT	8-10-16-25	1200 mm	2700 mm	4 bar	3" BSP / NPT
NP-4000VL-H	4000 LT	8-10-16-25	1450 mm	3100 mm	4 bar	3" BSP / NPT
NP-5000VL-H	5000 LT	8-10-16-25	1450 mm	3400 mm	4 bar	3" BSP / NPT
NP-10000VL-H	10000 LT	8-10-16-25	1600 mm	5900 mm	4 bar	3" BSP / NPT



### High Quality Standards In Production

- Pressurized metal tank production according to European Union standards PED-CE 2014/68/EU ;
- Fully automatic-robotic double layer wet painting system (Epoxy Primery & Polyurethane Acrylic Finishing Paint) ;
- Italian production-low gas permeability special design Butyl/EPDM membrane ;
- Stainless steel or galvanized connecton nipple



### Fast Product Delivery

- High ability to produce fast & high quality products, thanks to high production capacity and high production automation in Turkey's the most advanced producton facility ;
- Detailed stock following capability for final products, raw materials and semi finished parts by help of effective ERP program usage ;
- By computer-controlled order tracking system, detailed analysis and fast delivery of all customer orders



### Large Product Range

- Non-replaceable membrane and changeable membrane tanks (water pump-booster tanks, expansion tanks, solar tanks, reverse osmosis tanks, anti-water hammer tanks ) ;
- Volume from 0.16 liter up to 10.000 liter ; 6 bar-8 bar-10 bar-16 bar and 25 bar operating pressure ;
- Additionally, Epdm / Butyl membranes, manometers, pressure switches, 5-way brass connections, flexible connection hoses etc..



### Solution-Oriented And Continuous Innovation

- Constantly new product design & production capability by help of R & D investments ;
- Ability to make changes on the products according to customer's demands ;





03

CHANGEABLE MEMBRANE  
POTABLE WATER PRESSURE  
TANK SERIES



# Changeable Mebrane Potable Water Pressure Tank Series

Fresh-hygienic water is the most important need of the humans today . We have to bring the water to our houses with the city network line in a way that the water does not damages its hygienic features. For this reason, in the buildings, factories and other places where hydrophore systems are used, it is obligatory that the membrane inside the hydrophore tank strictly correspond to hygienic standarts.

NIAGARA potable water tank series provide a high hygienic standarts to its users. The membrane used inside the NIAGARA Tanks corresponds to all European Union and USA potable water hygienic standarts and all the membranes are made in italy completely. Futhermore, the only point where the water touches the tank, inlet-outlet, is the flange cover and connector which are made of stainless steel or electro galvanized.

NIAGARA hydrophore tanks are available in 8 bar- 10 bar-16 bar and 25 bar which can be used in combined with irrigating pumps, centrifugal pumps and other hydrophore systems in a safe way....



## SPESIFICATIONS



**Horizontal Tanks**



**Vertical Tanks Without Leg**

### Accessories

NIAGARA offers high quality EPDM / Butly Membrane as accessories

Code	Product Name	Diameter
NP-M-2-3	2-3 lt EPDM / Butly Membrane	2-3 LT
NP-M-5-8	5-8 lt EPDM / Butly Membrane	5-8 LT
NP-M-8-12	8-12 lt EPDM / Butly Membrane	8-12 LT
NP-M-18-24	18-24lt EPDM / Butly Membrane	18-24 LT
NP-M-24	24lt EPDM / Butly Membrane	24 LT
NP-M-35-50	35-50lt EPDM / Butly Membrane	35-50 LT
NP-M-50-60	50-60lt EPDM / Butly Membrane	60-80 LT
NP-M-80-100	80-1 00lt EPDM / Butly Membrane	80-100 LT
NP-M-100-150	100-150lt EPDM / Butly Membrane	100-150 LT
NP-M-150-200	150-200K EPDM / Butly Membrane	150-200 LT
NP-M-200-300	200-300lt EPDM / Butly Membrane	200-300 LT
NP-M-500-750	500-750K EPDM / Butly Membrane	500-750 LT
NP-M-1000-2000	1000-2000U EPDM / Butly Membrane	1000-2000 LT



### Tank Metal Body

- Changeable membrane with a screw connection flange cover
- Flange connection made of stainless steel or galvanized material
- Resistant up to 8/10/16/25 bars
- Outer surface with double layer Epoxy primary & Polyurethane Acrylic paint

### Membranes

- High quality EPDM membranes, hygienic certified, approved by European Union and USA Institutions
- DIN 4807-3, NSF-61, WRAS, BS-6920 certified and other quality certificates available
- Option: Butly membranes available upon request

### Colour

- Original Colour; Blue - RAL 5015



**Vertical Tanks with Leg**



# Changeable Mebrane Potable Water Pressure Tank Series

8 bar 10 bar 16 bar 25 bar

## Horizontal Tanks

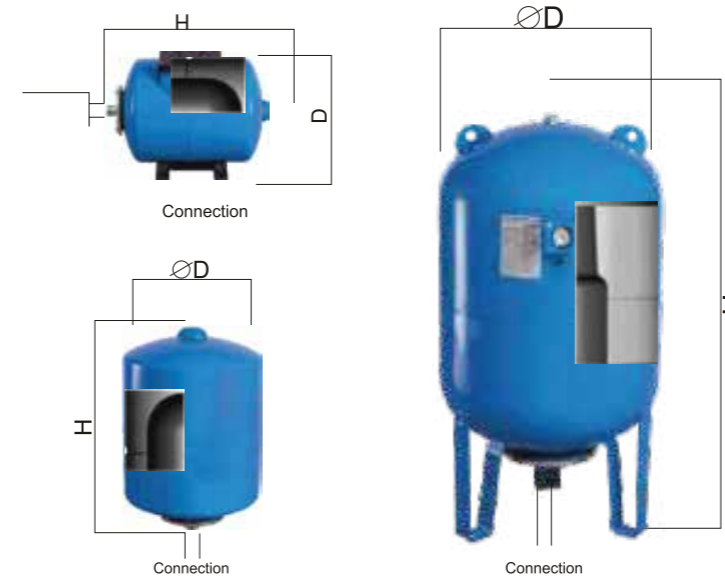
Model	Capacity (L)	Pressure (Bar)	Diameter (D)	Height (H)	Pre. Charge Pressure	Connection
NP-19H-PW	19 LT	8-10-16-25	305 mm	415 mm	2 bar	1" BSP / NPT
NP-24H-PW	24 LT	8-10-16-25	335 mm	465 mm	2 bar	1" BSP / NPT
NP-36H-PW	36 LT	8-10-16-25	385 mm	440 mm	2 bar	1" BSP / NPT
NP-50H-PW	50 LT	8-10-16-25	385 mm	590 mm	2 bar	1" BSP / NPT
NP-60H-PW	60 LT	8-10-16-25	385 mm	650 mm	2 bar	1" BSP / NPT
NP-80H-PW	80 LT	8-10-16-25	445 mm	700 mm	3 bar	1" BSP / NPT
NP-100H-PW	100 LT	8-10-16-25	545 mm	680 mm	3 bar	1" BSP / NPT

## Vertical Tanks Without Leg

Model	Capacity (L)	Pressure (Bar)	Diameter (D)	Height (H)	Pre. Charge Pressure	Connection
NP-2V-PW	2 LT	8-10-16-25	160 mm	220 mm	2 bar	3/4" BSP / NPT
NP-5V-PW	5 LT	8-10-16-25	160 mm	285 mm	2 bar	3/4" BSP / NPT
NP-8V-PW	8 LT	8-10-16-25	200 mm	355 mm	2 bar	3/4" BSP / NPT
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NP-36V-PW	36 LT	8-10-16-25	350 mm	440 mm	2 bar	1" BSP / NPT
NP-50V-PW	50 LT	8-10-16-25	350 mm	590 mm	2 bar	1" BSP / NPT
NP-60V-PW	60 LT	8-10-16-25	350 mm	650 mm	2 bar	1" BSP / NPT

## Vertical Tanks Without Leg

Model	Capacity (L)	Pressure (Bar)	Diameter (D)	Height (H)	Pre. Charge Pressure	Connection
NP-50VL-PW	50 LT	8-10-16-25	350 mm	722 mm	3 bar	1" BSP / NPT
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NP-10000VL-PW	10000 LT	8-10-16-25	1600 mm	5900 mm	4 bar	3" BSP / NPT



**COLOUR**

Original: RAL 5015 (Blue)

Optional: RAL 6016 (Green)

Optional: RAL 1013 (Yellow)

Optional: RAL 3020 (Red)



### High Quality Standards In Production

- Pressurized metal tank production according to European Union standards PED-CE 2014/68/EU ;
- Fully automatic-robotic double layer wet painting system (Epoxy Primery & Polyurethane Acrylic Finishing Paint) ;
- Italian production-low gas permeability special design Butyl/EPDM membrane ;
- Stainless steel or galvanized connecton nipple



### Fast Product Delivery

- High ability to produce fast & high quality products, thanks to high production capacity and high production automation in Turkey's the most advanced producton facility ;
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- By computer-controlled order tracking system, detailed analysis and fast delivery of all customer orders



### Large Product Range

- Non-replaceable membrane and changeable membrane tanks (water pump-booster tanks, expansion tanks, solar tanks, reverse osmosis tanks, anti-water hammer tanks ) ;
- Volume from 0.16 liter up to 10.000 liter ; 6 bar-8 bar-10 bar-16 bar and 25 bar operating pressure ;
- Additionally, Epdm / Butyl membranes, manometers, pressure switches, 5-way brass connections, flexible connection hoses etc..



### Solution-Oriented And Continuous Innovation

- Constantly new product design & production capability by help of R & D investments ;
- Ability to make changes on the products according to customer's demands ;



04

NON REPLACEABLE MEMBRANE  
POTABLE WATER SERIES TANKS



# Non Replaceable Membrane Potable Water Series Tanks

In fix membrane potable water tanks, water is between stainless steel connection tube, food-grade butly diaphragm. By help of this tank design, water quality will not be poluted by the internal part of tank metal body and also external environments.

All tanks have stainless steel connection to provide hygienic standarts for potable water.

Durability; In NIAGARA potable water tanks, valve cores have been adopted for high pressure resistance. Air valves has additional sealing component, so that the gas tightness is very good.

NIAGARA applies also high pressure water resistance test to each of the products with experimental pressure before leaving the factory.



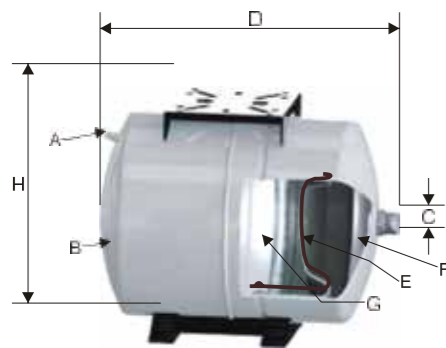
## SPEISIFICATIONS



**Horizontal Tanks**



**Vertical Tanks Without Leg**



- A) Sealed Air Valve
- B) Double Layer Painting (Epoxy + Polyurethane)
- C) Stainless Steel Connection
- D) Lenght
- E) Food-Grade Butyl Membrane
- F) Food-Grade PP Liner
- G) Pre-Pressurized Air Chamber
- H) Height



- A) Sealed Air Valve
- B) Double Layer Painting (Epoxy + Polyurethane)
- C) Stainless Steel Connection
- D) Diameter
- E) Food-Grade Butyl Membrane
- F) Food-Grade PP Liner
- G) Pre-Pressurized Air Chamber
- H) Height



### Tank Metal Body

- Stainless steel water connection
- Resistant up to 8/10/16 bars
- Outer surface with double layer Epoxy Primary & Polyurethane Acrylic paint
- All tanks PED-CE-2014/68/EU Certified

### Membranes

- High quality Butyl mambranes, hygienic certified, apporved by European Union & USA Institutions
- DIN 4807-3, NSF-61, WRAS, BS-6920 certified and other quality certificates available



**Vertical Tanks with Leg**





A close-up photograph of a person's hands filling a clear glass with water from a modern chrome faucet. The water is captured mid-pour, creating a dynamic splash. The background is softly blurred, showing a white sink and a green plant. A semi-transparent red banner is overlaid across the top of the image, containing the number '05' and the title 'REVERSE OSMOSIS STORAGE TANKS'.

05

REVERSE OSMOSIS  
STORAGE TANKS

# Reverse Osmosis Storage Tanks

NIAGARA Reverse Osmosis Storage tank is one of the most reliable product for your reverse osmosis system.

In NIAGARA RO Storage tanks, fresh water is between stainless steel connection tube, food-grade polypropylene liner and food-grade butyl diaphragm.

In NIAGARA production system, every butyl diaphragm is post-cured to remove hazardous and chemical materials prior to assembly process. So that, it ensures your fresh water will not have odor and any kind of bad taste. By help of this tank design, your fresh water coming from your RO system will not be polluted by the internal part of tank metal body and also external environments.

In NIAGARA RO storage tanks, valve cores have been adopted specially for high pressure resistance. Air valves have additional sealing component, so that the gas tightness is very good.



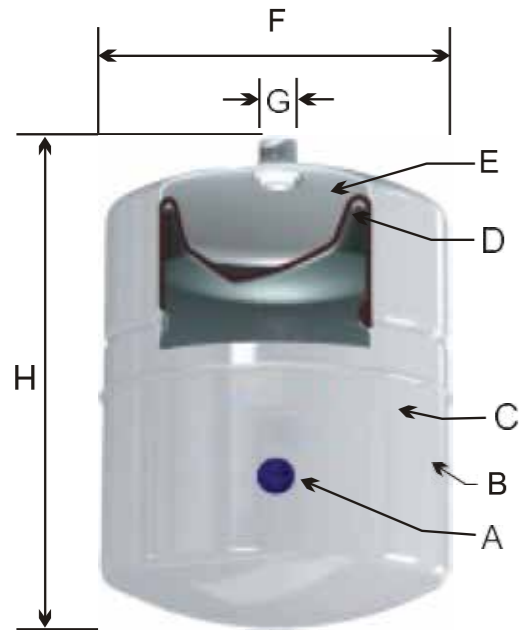
## SPEifications



**Vertical Tanks with Leg**



**Vertical Tanks Without Leg**



- A) Sealed Air Valve
- B) Double Layer Painting (Epoxy + Polyurethane)
- C) Pre-Pressurized Air Chamber
- D) Food-Grade Butyl Membrane
- E) Food-Grade PP Liner
- F) Diameter
- G) Stainless Steel Connection
- H) Height

### Tank Metal Body

- Stainless steel water connection
- Resistant up to 10 bars
- Outer surface with double layer Epoxy Primary & Polyurethane Acrylic paint
- All tanks PED-CE-2014/68/EU Certified
- Internally assembled virgin Polypropylene Liner

### Diaphragm

- High quality Butyl Diaphragm, hygienic certified, approved by European Union & USA Institutions
- DIN 4807-3, NSF-61, WRAS, BS-6920 certified and other quality certificates available
- No Odour, No Bad Taste of Water

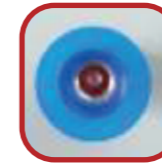




# Reverse Osmosis Storage Tanks

## Vertical Tanks Without Leg

Model	Nominal Capacity (L)	Water Capacit	Pressure (Bar)	Height (H)	Pre. Charge Pressure	Connection
NP-5V-PW-RO	5 LT/1,3 G	3,25 LT/0,85 G	10 Bar	275 mm	0,5 bar	1/4" BSP / NPT
NP-8V-PW-RO	8 LT/2,1 G	5,2 LT/1,4 G	10 Bar	325 mm	0,5 bar	1/4" BSP / NPT
NP-12V-PW-RO	12 LT/3,2 G	7,8 LT/2,2 G	10 Bar	347 mm	0,5 bar	1/4" BSP / NPT
NP-19V-PW-RO	19 LT/5,0 G	12,3 LT/3,2 G	10 Bar	365 mm	0,5 bar	1/4" BSP / NPT
NP-24V-PW-RO	24 LT/6,4 G	15,6 LT/4,2 G	10 Bar	420 mm	0,5 bar	1/4" BSP / NPT
NP-36V-PW-RO	36 LT/9,6 G	23 LT/6,10 G	10 Bar	410 mm	0,5 bar	1/4" BSP / NPT



Special Sealing in Air-Valve Cover Against Air-Leakage



1/4" BSP/NPT Stainless Steel Connection

**COLOUR**

Original: RAL 1013

Optional: RAL 6016

Optional: RAL 3020

Optional: RAL 5015

## Vertical Tanks With Leg

Model	Nominal Capacity (L)	Water Capacit	Pressure (Bar)	Diameter (D)	Height (H)	Pre. Charge Pressure	Connection
NP-36VL-PW-RO	36 LT/9,6 G	23 LT/6,10 G	10 Bar	350 mm	462 mm	0,5 bar	1/4" BSP / NPT
NP-50VL-PW-RO	50 LT/13,3 G	32,5 LT/8,6 G	10 Bar	350 mm	618 mm	0,5 bar	1/4" BSP / NPT
NP-60VL-PW-RO	60 LT/16 G	40 LT/10,7 G	10 Bar	350 mm	673 mm	0,5 bar	1/4" BSP / NPT
NP-80VL-PW-RO	80 LT/21,2 G	52 LT/13,9 G	10 Bar	400 mm	723 mm	0,5 bar	1" BSP / NPT
NP-100VL-PW-RO	100 LT/26,6 G	65 LT/17,3 G	10 Bar	500 mm	765 mm	0,5 bar	1" BSP / NPT
NP-150VL-PW-RO	150 LT/40 G	97LT/25,8 G	10 Bar	500 mm	893 mm	0,5 bar	1" BSP / NPT



### High Quality Standards In Production

- Pressurized metal tank production according to European Union standards PED-CE 2014/68/EU ;
- Fully automatic-robotic double layer wet painting system (Epoxy Primery & Polyurethane Acrylic Finishing Paint) ;
- Italian production-low gas permeability special design Butyl Diaphragm ;
- Stainless steel connecton nipple



### Large Product Range

- Non-replaceable diaphragm and changeable membrane tanks (water pump-booster tanks, expansion tanks, solar tanks, reverse osmosis tanks, anti-water hammer tanks ) ;
- Volume from 0.16 liter up to 10.000 liter ; 6 bar-8 bar-10 bar-16 bar and 25 bar operating pressure ;
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### Fast Product Delivery

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### Solution-Oriented And Continuous Innovation

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- Ability to make changes on the products according to customer's demands ;



06

MAINTANANCE FREE WATER  
HAMMER ANTISHOCK TANKS



# Maintanance Free Water Hammer Antishock Tanks

Various problems such as sound, vibration, impact, abrasion and pressure wave related to water speed are experienced in the installation. In this pressure wave, system pressure reaches at very high values . As a result , there will be major damages in the installations such as shrinkage of gaskets, movement of pipe connections, breaking of the valves, especially moving parts of the check valves. To prevent these problems, appropriate shock absorbing systems should be installed in the system. NP-AntiShock is an equipment that can be used safely against water shock in booster systems, in places where the water pipe is installed in our home such as washbasins, toilets, bathrooms, in dishwasher, washing machine connections, and especially in points where solenoid valve equipment is connected to various water pipe lines.



**Capacity:** from 0.16lt to 2lt / from 0.04 gallon to 0.54 gallon  
**Maximum Operating Temperature:** + 100 ° C / 212°F  
**Maximum Working Pressure:** 10Bar

### Tank Body

- Special tank design with inside rubber diaphragm absorbs impacts caused by water shock in the installations,
- Special design sealed air valve

### Rubber Diaphragm

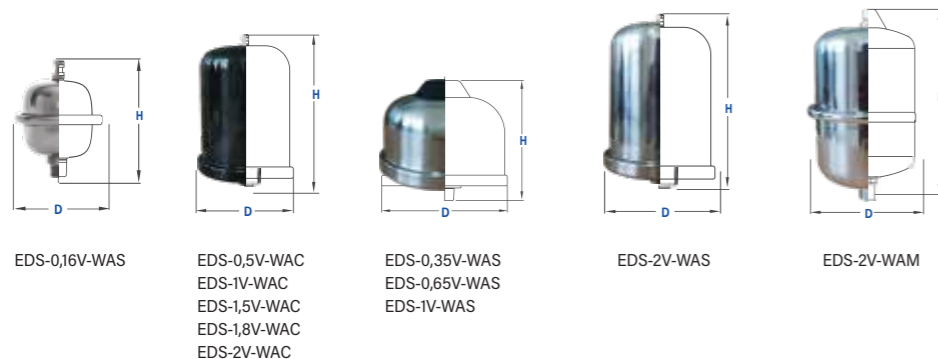
- Italian production, low gas permeability, special formulation, made of Butyl or EPDM raw material
- Hygiene and quality certificates by European Union and USA institutions (DIN 4807-3, NSF-61, WRAS, BS6920 and some others..)

## SPESIFICATIONS



Model	Capacity (L)	Pressure (Bar)	Diameter (D)	Height (H)	Pre. Charge Pressure	Connection
NP-0,16V-WAS	0,16 LT/0,04G	10 Bar	85 mm	113 mm	0,5 bar	1/2" SS-BSP & NPT
NP-0,5V-WAC	0,5 LT/0,135G	10 Bar	83 mm	147 mm	0,5 bar	1/2" SS & CS-BSP & NPT
NP-1V-WAC	1,0LT/0,27G	10 Bar	116 mm	99 mm	0,5 bar	1/2" SS & CS-BSP & NPT
NP-1,5V-WAC	1,5LT/0,40G	10 Bar	100 mm	150 mm	0,5 bar	1/2" SS & CS-BSP & NPT
NP-1,8V-WAC	1,8LT/0,48G	10 Bar	96 mm	178 mm	0,5 bar	1/2" SS & CS-BSP & NPT
NP-2V-WAC	2,0LT/0,54G	10 Bar	116 mm	193 mm	0,5 bar	1/2" SS & CS-BSP & NPT
NP-0,35V-WAS	0,35LT/0,93G	10 Bar	94,2 mm	62,1 mm	0,5 bar	1/2" SS-BSP & NPT
NP-0,65V-WAS	0,65LT/0,17G	10 Bar	118,5 mm	65 mm	0,5 bar	1/2" SS-BSP & NPT
NP-1V-WAS	1,0LT/0,27G	10 Bar	126 mm	73,5 mm	0,5 bar	1/2" SS-BSP & NPT
NP-2V-WAS	2,0LT/0,54G	10 Bar	118 mm	188 mm	0,5 bar	1/2" SS-BSP & NPT
NP-2V-WAM	2,0LT/0,54G	10 Bar	116 mm	193 mm	0,5 bar	1/2" SS-BSP & NPT

**MAXIMUM WORKING TEMPERATURE: 100°C / 212°F**







07

MEMBRANE

# MEMBRANE

## About NIAGARA Membranes (Bladders);

A Professionalism from compounds formulation and production to rubber technicalarticles moulding;

NP has a whole range of membrane ( bladder) products which are produced in several types of rubber: NBR, SBR, EPDM, Butyl .



## Production Cycle

All NP membrane ( bladder ) press machines are very recent and produced according to the best efficiency and safety standards. These machines have a very powerful closing strength and injection capacity (up to 900 tons and a 12,5 lts capacity), with moulding planes up to 1600 mm x 1100 mm.

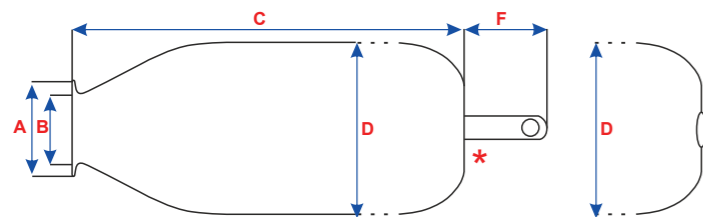
## Laboratory

The laboratory is an important place to test the quality of NP membrane ( bladders ) products. The controls take place at first on the compounds to identifying the quality of the material and the optimal moulding conditions, then on the final products in order to verify the physical characteristics and mechanical properties (elongation, compression, hardness). In the laboratory are also made controls related to resistance to heat, to contact with water and other fluids, and to cyclic elongation.

## Membranes For Pressure Tanks And Expansion Vessels

NP membranes ( bladders ) are used for cold and hot water tanks, for sanitary water and reverse osmosis. The membranes, which are the heart of the tank, are produced in bag shape and in double volume.

## SINGLE VOLUME MEMBRANES-1



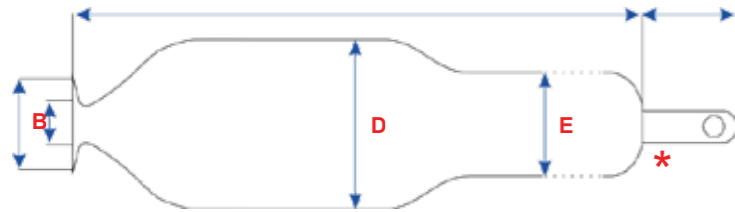
(Available with hole Ø 26mm)

CODE	DESCRIPTION	A	B	C	D	F
NP-0274	MEMBRANE 0,16 LT	73	60	65	62	
NP-0264	MEMBRANE 2/3 LT	65	45	135	80	
NP-0258	MEMBRANE 5/8 LT	65	45	155	105	
NP-0006	MEMBRANE 6 LT	75	60	225	125	
NP-0160	MEMBRANE 8/12 LT	65	45	200	115	
NP-0010	MEMBRANE 10 LT	75	60	265	145	
NP-0265	MEMBRANE 12/18 LT	65	45	265	135	
NP-0269	NP-0269MEMBRANE 12/18 LT BIG THICKNESS	65	45	265	135	
NP-0014	NP-0014MEMBRANE 14 LT	75	60	295	165	
NP-0018	NP-0018MEMBRANE 18 LT	75	60	322	180	
NP-0204	NP-0204MEMBRANE 18/24 LT wide neck	110	80	200	150	
NP-0207	NP-0207MEMBRANE 18/24 LT narrow neck	65	45	300	135	
NP-0089	NP-0089MEMBRANE 24 LT wide neck	110	80	250	200	
NP-0272	NP-0272MEMBRANE 24 LT narrow neck BIG THICKNESS	110	80	250	200	
NP-00259	NP-00259MEMBRANE 24 LT wide neck	120	90	250	200	
NP-1259	NP-1259MEMBRANE 24 LT wide neck WITH TAIL	120	90	280	165	80
NP-0180	NP-0180MEMBRANE 35/50 LT narrow neck	110	80	350	200	
NP-0301	NP-0301MEMBRANE 35/50 LT narrow neck WITH TAIL	110	80	310	180	45
NP-0183	NP-0183MEMBRANE 35/50 LT BIG THICKNESS	110	80	350	200	
NP-0182	NP-0182MEMBRANE 35/50 LT wide neck	120	90	350	215	
NP-1182	NP-1182MEMBRANE 35/50 LT wide neck WITH TAIL	120	90	310	180	45
NP-0290	NP-0290MEMBRANE 40/60 LT	110	80	425	170	
NP-0277	NP-0277MEMBRANE 40/60 LT WITH TAIL	110	80	425	170	70
NP-0092	NP-0092MEMBRANE 50/80 LT	110	80	500	220	
NP-0302	NP-0302MEMBRANE 50/80 LT WITH TAIL	110	80	510	200	60
NP-0200	NP-0200MEMBRANE 60/80/100LT wide neck WITH TAIL	120	90	595	230	50
NP-1080	NP-1080MEMBRANE 80 LT WITH TAIL	120	90	485	50	
NP-0303	NP-0303MEMBRANE 80/100 LT WITH TAIL	110	80	640	130	
NP-0201	NP-0201MEMBRANE 100/150 LT wide neck WITH HOLE	120	90	725	240	
NP-0203	NP-0203MEMBRANE 100/150 LT wide neck	120	90	725	240	
NP-0205	NP-0205MEMBRANE 100/150 LT wide neck WITH TAIL	120	90	725	240	60



# Reverse Osmosis Storage Tanks

## DOUBLE VOLUME MEMBRANES-2

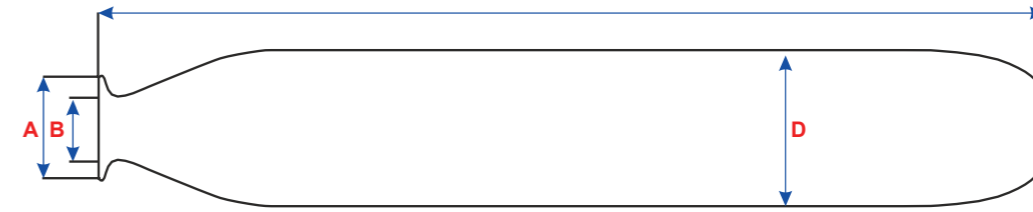


(Available with hole Ø 26mm)

CODE	DESCRIPTION	A	B	C	D	E	F
NP-0267	MEMBRANE 80/100 LT	110	80	630	240	120	
NP-0257	MEMBRANE 80/100 LT WITH HOLE	110	80	630	240	120	
NP-0240	MEMBRANE 100/150 LT narrow neck	110	80	730	270	180	
NP-0231	MEMBRANE 100/150 LT narrow neck WITH HOLE	110	80	730	270	180	
NP-0234	MEMBRANE 100/150 LT narrow neck WITH TAIL	110	80	730	270	180	47
NP-0266	MEMBRANE 150/200 LT narrow neck	110	80	810	270	240	
NP-0239	MEMBRANE 150/200 LT narrow neck WITH HOLE	110	80	810	270	240	
NP-0278	MEMBRANE 150/200 LT wide neck	200	150	855	270	210	
NP-0276	MEMBRANE 150/200 LT wide neck WITH HOLE	200	150	855	270	210	
NP-0262	MEMBRANE 200/300 LT	200	150	1000	380	230	
NP-0232	MEMBRANE 200/300 LT WITH HOLE	200	150	1000	380	230	
NP-0284	MEMBRANE 500/750 LT	200	150	1350	440	280	
NP-0233	MEMBRANE 500/750 LT WITH HOLE	200	150	1350	440	280	
NP-0244	MEMBRANE 750/1000 LT WITH HOLE	200	150	1450<->1785	470	340	
NP-0245	MEMBRANE 1000 LT WITH HOLE	200	150	1490<->2100	470	400	
NP-0242	MEMBRANE 1000/1500 LT WITH HOLE	260	200	1520<->2150	485	412	



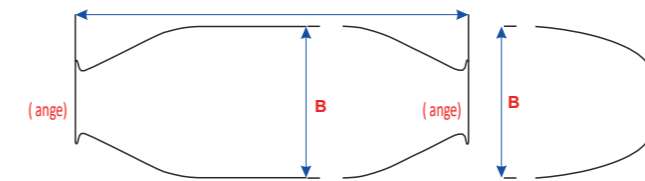
## STYLE LINE MEMBRANES-3



(Available with hole Ø 26mm)

CODE	DESCRIPTION	A	B	C	D
NP-0208	MEMBRANE 2 LT STYLE	62	48	340	75
NP-0209	MEMBRANE 4 LT STYLE	62	48	450	80
NP-0210	MEMBRANE 8 LT STYLE	62	48	555	105

## HANDMADE FULL VOLUME MEMBRANES-4



(Available with hole Ø 26mm)



## ON CUSTOMER TECHNICAL SPECIFICATION

A  
2113<->500

B  
875<->1300

## FLANGE DIMENSIONS

FL1=	(SMALL) 150/200 mm
FL2=	(MEDIUM) 200/260 mm
FL3=	(BIG) 260/300 mm
FL4=	(EXTRA) 260/370 mm
HOLE=	(DIAMETER) 26 mm



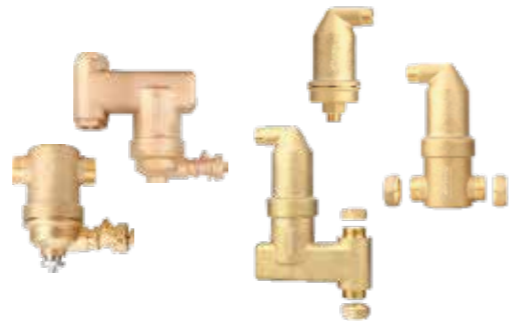
08

NIAGARA AIR &  
DIRT SEPARATORS



# NIAGARA AIR & DIRT SEPARATORS

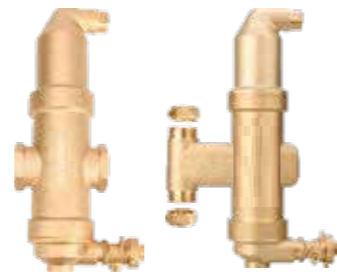
NIAGARA MicroBubble/Air & Dirt Separators are designed for efficient separation and elimination of entrained air and dirt in hydronic heating systems. The removal of dissolved gases and dirt particles from both chilled water and heating systems is a very important aspect in maintaining equipment in serviceable condition.



## Easy AirOut-S

NIAGARA Easy AirOut-S separator products release the air or other gases in the system to the surrounding atmosphere. In product design, there is an air cavity area which contains a float-controlled release valve. Because the air density is lower than the density of the medium, the floating ball can freely go up and down and lose its buoyancy and sink. Therefore, open the release valve;

There is enough space around the float, and the air chamber can go up and down freely when dirt deposits in the air cavity. The special design of the release valve ensures automatic exhaust in harsh conditions.



- No water leakage design, unobstructed exhaust, the thread of the discharge port can be connected to a hose
- Specially designed exhaust chamber; The floating dirt in the specially designed exhaust chamber will not affect the normal operation of the exhaust valve, The pressure of the large-capacity exhaust chamber is more stable.

### Brass Material- Max. Working Temperature 110C - Max. Working Pressure 10Bar

Product Code	Weight (kg)	Connection	Dia (mm)	H (mm)
NP-AirOut-S (3/8)	0,6	G 3/8"	63	120
NP-AirOut-S (1/2)	0,6	G 1/2"	63	120
NP-AirOut-S (3/4)	0,7	G 3/4"	63	120
NP-AirOut-S (1)	0,7	G 1"	63	120

## Easy AirOut-H-V

Its core component has a unique design and has been tested for many years. The core component's design is woven wire mesh. This mesh core can separate free microbubbles in the water effectively and minimize pressure loss.  
Flow Volume: 1.25-8m<sup>3</sup>/h



- Unobstructed exhaust & leak-free release valve
- Special air cavity design: Floating dirt doesn't affect the normal operation of release valve; Large capacity of air cavity eliminates pressure fluctuations effectively & leak-free release valve
- Different connection sizes from diameter-22mm to 2"

## Easy AirOut-H

### Horizontal Type- Brass Material- Max. Working Temperature 110C -Max. Working Pressure 10Bar

Product Code	Weight (kg)	Connection	Vmax (m <sup>3</sup> /h)	L (mm)	Dia (mm)	H (mm)
NP-AirOut-H (22)	1,1	Dia 22mm Inner Thread (Female)	1,25	106	63	165
NP-AirOut-H (22)-S	1,2	Dia 22mm Outside Thread (Male) with Metal Rings	1,25	106	63	165
NP-AirOut-H (3/4)	1,0	G 3/4" Inner Thread (Female)	1,25	85	63	165
NP-AirOut-H (3/4)-S	1,1	G 3/4" Outside Thread (Male) with Metal Rings	1,25	85	63	165
NP-AirOut-H (1)	1,1	G 1" Inner Thread (Female)	2,00	88	63	180
NP-AirOut-H (1 1/4)	1,3	G 1 1/4" Inner Thread (Female)	3,70	88	63	202
NP-AirOut-H (1 1/2)	1,5	G 1 1/2" Inner Thread (Female)	5,00	88	63	236
NP-AirOut-H (2)	3,2	G 2" Inner Thread (Female)	8,00	132	100	277



## Easy AirOut-V

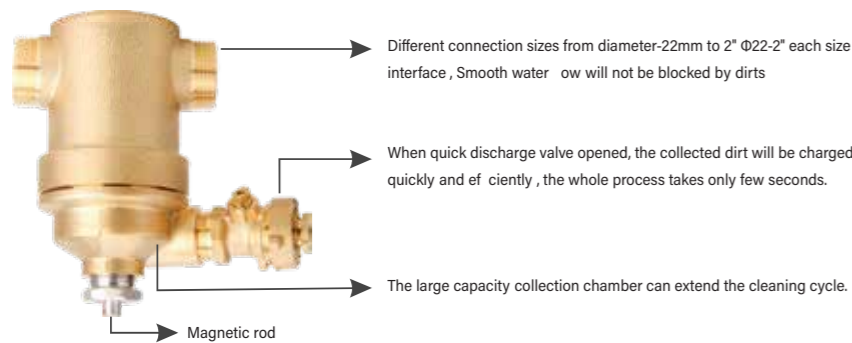
### Vertical Type - Brass Material - Max. Working Temperature 110C - Max. Working Pressure 10Bar

Product Code	Weight (kg)	Connection	Vmax (m <sup>3</sup> /h)	L (mm)	Dia (mm)	H (mm)
NP-AirOut-V (22)	1,7	Dia 22mm Inner Thread (Female)	1,25	84	63	206
NP-AirOut-V (22)-S	1,8	Dia 22mm Outside Thread (Male) with Metal Rings	1,25	104	63	220
NP-AirOut-V (3/4)	1,6	G 3/4" Inner Thread (Female)	1,25	84	63	206
NP-AirOut-V (3/4)-S	1,7	G 3/4" Outside Thread (Male) with Metal Rings	1,25	84	63	206
NP-AirOut-V (1)	1,6	G 1" Inner Thread (Female)	2,00	84	63	206
E-AirOut-V (1)-S	1,7	G 1" Outside Thread (Male) with Metal Rings	2,00	84	63	206

# NIAGARA AIR & DIRT SEPARATORS

## Easy DirtOut-H-V

Its core component has a unique design and tested for many years. The core component's design is woven wire mesh. This mesh core can separate dirt particles in the water effectively and minimize pressure loss. Volume flow: 1.25-8m<sup>3</sup>/h



**Easy DirtOut-H**



**Horizontal Type - Brass Material - Max. Working Temperature 110C Max. Working Pressure 10Bar, With&Without Magnetic Rod**

Product Code	Weight (kg)	Connection	Vmax (m <sup>3</sup> /h)	L (mm)	Dia (mm)	H (mm)
NP-DirtOut-H (22)	1,0	Dia 22mm Inner Thread (Female)	1,25	85	63	103
NP-DirtOut-H (22)-S	1,1	Dia 22mm Outside Thread (Male) with Metal Rings	1,25	85	63	103
NP-DirtOut-H (22)-M	1,1	Dia 22mm Inner Thread (Female) With Magnet	1,25	85	63	103
NP-DirtOut-H (22)-S+M	1,2	Dia 22mm Outside Thread (Male) with Metal Rings + Magnet	1,25	85	63	103
NP-DirtOut-H (3/4)	0,9	G 3/4" Inner Thread (Female)	1,25	85	63	103
NP-DirtOut-H (3/4)-S	1,0	G 3/4" Outside Thread (Male) with Metal Rings	1,25	85	63	103
NP-DirtOut-H (3/4)-M	1,0	G 3/4" Inner Thread (Female) With Magnet	1,25	85	63	103
NP-DirtOut-H (3/4)-S+M	1,1	G 3/4" Outside Thread (Male) with Metal Rings + Magnet	1,25	85	63	103
NP-DirtOut-H (1)	1,0	G 1" Inner Thread (Female)	2,00	88	63	120
NP-DirtOut-H (1)-M	1,1	G 1" Inner Thread (Female) With Magnet	2,00	88	63	120
NP-DirtOut-H (1 1/4)	1,2	G 1 1/4" Inner Thread (Female)	3,70	88	63	140
NP-DirtOut-H (1 1/4)-M	1,3	G 1 1/4" Inner Thread (Female) With Magnet	3,70	88	63	140
NP-DirtOut-H (1 1/2)	1,3	G 1 1/2" Inner Thread (Female)	5,00	88	63	174
NP-DirtOut-H (1 1/2)-M	1,4	G 1 1/2" Inner Thread (Female) With Magnet	5,00	88	63	174
NP-DirtOut-H (2)	3,1	G 2" Inner Thread (Female)	8,00	132	100	215
NP-DirtOut-H (2)-M	3,3	G 2" Inner Thread (Female) With Magnet	8,00	132	100	215



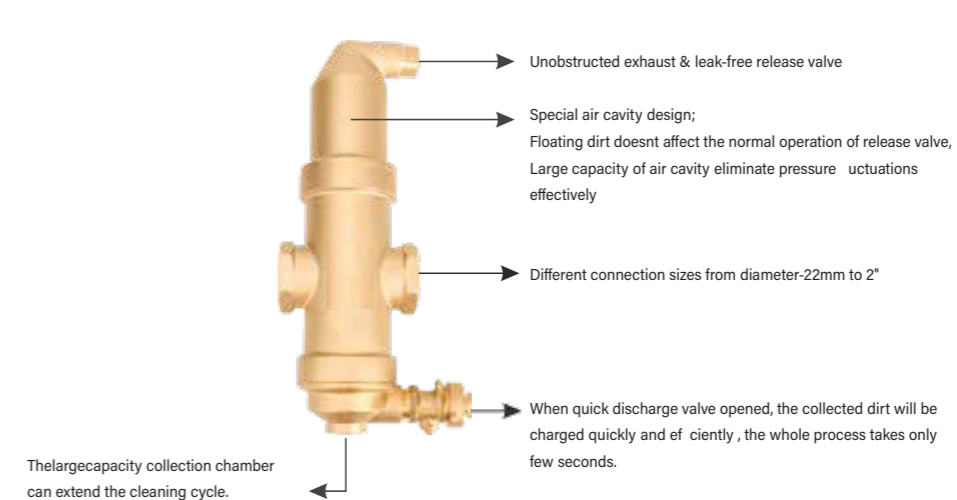
**Easy DirtOut-V**

**Vertical Type - Brass Material - Max Working Temperature 110C Max. Working Pressure 10Bar, With&Without Magnetic Rod**

Product Code	Weight (kg)	Connection	Vmax (m <sup>3</sup> /h)	L (mm)	Dia (mm)	H (mm)
NP-DirtOut-V (3/4)	1,4	G 3/4" Inner Thread (Female)	1,25	84	63	144
NP-DirtOut-V (3/4)-M	1,5	G 3/4" Inner Thread (Female) With Magnet	1,25	84	63	144
NP-DirtOut-V (1)	1,5	G 1" Inner Thread (Female)	2,00	84	63	144
NP-DirtOut-V (1)-M	1,6	G 1" Inner Thread (Female) With Magnet	2,00	84	63	144

## Easy Air/DirtOut-H-V

Its core component has a unique design and tested for many years. The core component's design is woven wire mesh. This mesh core can separate free microbubbles and tiny dirt particles in the water effectively and minimize pressure loss.



**Easy Air/DirtOut-H**





# NIAGARA AIR & DIRT SEPARATORS

**Horizontal Type - Brass Material - Max. Working Temperature 110C Max. Working Pressure 10Bar**

Product Code	Weight (kg)	Connection		Vmax (m3/h)	L (mm)	Dia (mm)	H (mm)
NP-Air/DirtOut-H(22)	1,7	Dia 22mm	Inner Thread (Female)	1,25	105	63	261
NP-Air/DirtOut-H(22)-S	1,8	Dia 22mm	Outside Thread (Male) with Metal Rings	1,25	105	63	261
NP-Air/DirtOut-H(22)-M	1,8	Dia 22mm	Inner Thread (Female) With Magnet	1,25	105	63	261
NP-Air/DirtOut-H(22)-S+M	1,9	Dia 22mm	Outside Thread (Male) with Metal Rings + Magnet	1,25	105	63	261
NP-Air/DirtOut-H(1)	1,7	G 1"	Inner Thread (Female)	2,00	84	63	261
NP-Air/DirtOut-H(1)-S	1,8	G 1"	Outside Thread (Male) with Metal Rings	2,00	84	63	261
NP-Air/DirtOut-H(1)-M	1,8	G 1"	Inner Thread (Female) With Magnet	2,00	84	63	261
NP-Air/DirtOut-H(1)-S+M	1,9	G 1"	Outside Thread (Male) with Metal Rings + Magnet	2,00	84	63	261
NP-Air/DirtOut-H(1 1/4)	1,9	G 1 1/4"	Inner Thread (Female)	3,70	84	63	280
NP-Air/DirtOut-H(1 1/4)-S	2,0	G 1 1/4"	Outside Thread (Male) with Metal Rings	3,70	84	63	280
NP-Air/DirtOut-H(1 1/4)-M	2,0	G 1 1/4"	Inner Thread (Female) With Magnet	3,70	84	63	280
NP-Air/DirtOut-H(1 1/4)-S+M	2,1	G 1 1/4"	Outside Thread (Male) with Metal Rings + Magnet	3,70	84	63	280



**Easy Air/DirtOut-V**

**Vertical Type - Brass Material - Max Working Temperature 110C Max. Working Pressure 10Bar, With&Without Magnetic Rod**

Product Code	Weight (kg)	Connection		Vmax (m3/h)	L (mm)	Dia (mm)	H (mm)
NP-Air/DirtOut-V(22)	1,7	Dia 22mm	Inner Thread (Female)	1,25	105	63	261
NP-Air/DirtOut-V(22)-S	1,8	Dia 22mm	Outside Thread (Male) with Metal Rings	1,25	105	63	261
NP-Air/DirtOut-V(22)-M	1,8	Dia 22mm	Inner Thread (Female) With Magnet	1,25	105	63	261
NP-Air/DirtOut-V(22)-S+M	1,9	Dia 22mm	Outside Thread (Male) with Metal Rings + Magnet	1,25	105	63	261

09

HIGH CAPACITY  
AIR & DIRT SEPARATORS



# High Capacity - Air & Dirt Separators

NIAGARA High Capacity Micro Bubble/Air & Dirt Separators are designed for efficient separation and elimination of entrained air and dirt in hydronic heating systems.

The removal of dissolved gasses and dirt particles from both chilled water and heating systems is a very important aspect in maintaining equipment in serviceable condition.



## High Capacity Easy DirtOut (Easy Cleaning)

TYPE	FLANGE mm	DIAMETER mm	HEIGHT mm	LENGHT mm	CAPACITY m³/h
NP-E 50	DN50/PN16	159	650	350	12,5
NP-E 65	DN65/PN16	159	650	350	20
NP-E 80	DN80/PN16	219	805	470	27
NP-E 100	DN100/PN16	219	805	470	47
NP-E 125	DN125/PN16	324	1064	635	72
NP-E 150	DN150/PN16	324	1064	635	108
NP-E 200	DN200/PN16	406	1335	775	180
NP-E 250	DN250/PN16	508	1735	890	288
NP-E 300	DN300/PN16	610	2065	1005	405
NP-E 350	DN350/PN16	610	2100	1100	500
NP-E 400	DN400/PN16	820	2380	1200	650
NP-E 450	DN450/PN16	820	2660	1300	850
NP-E 500	DN500/PN16	1020	2950	1400	1060
NP-E 600	DN600/PN16	1220	3530	1600	1530

## High Capacity Easy AirOut

TYPE	FLANGE mm	DIAMETER mm	HEIGHT mm	LENGHT mm	CAPACITY m³/h
NP 50	DN50/PN16	159	470	350	12,5
NP 65	DN65/PN16	159	470	350	21
NP 80	DN80/PN16	219	590	470	29
NP 100	DN100/PN16	219	590	470	50
NP 125	DN125/PN16	324	765	635	75
NP 150	DN150/PN16	324	765	635	110
NP 200	DN200/PN16	406	975	775	180
NP 250	DN250/PN16	508	1215	890	290
NP 300	DN300/PN16	610	1430	1005	405
NP 350	DN350/PN16	610	1910	1100	500
NP 400	DN400/PN16	820	2120	1200	650
NP 450	DN450/PN16	820	2320	1300	850
NP 500	DN500/PN16	1020	2540	1400	1060
NP 600	DN600/PN16	1220	2080	1600	1530

## High Capacity Easy Air/DirtOut (Easy Cleaning)

TYPE	FLANGE mm	DIAMETER mm	HEIGHT mm	LENGHT mm	CAPACITY m³/h
NPS-E 50	DN50/PN16	159	630	350	12,5
NPS-E 65	DN65/PN16	159	630	350	20
NPS-E 80	DN80/PN16	219	785	470	27
NPS-E 100	DN100/PN16	219	785	470	47
NPS-E 125	DN125/PN16	324	1045	635	72
NPS-E 150	DN150/PN16	324	1045	635	108
NPS-E 200	DN200/PN16	406	1315	775	180
NPS-E 250	DN250/PN16	508	1715	890	288
NPS-E 300	DN300/PN16	610	2025	1005	405
NPS-E 350	DN350/PN16	610	2560	1100	500
NPS-E 400	DN400/PN16	820	2860	1200	650
NPS-E 450	DN450/PN16	820	3150	1300	850
NPS-E 500	DN500/PN16	1020	3460	1400	1060
NPS-E 600	DN600/PN16	1220	4070	1600	1530





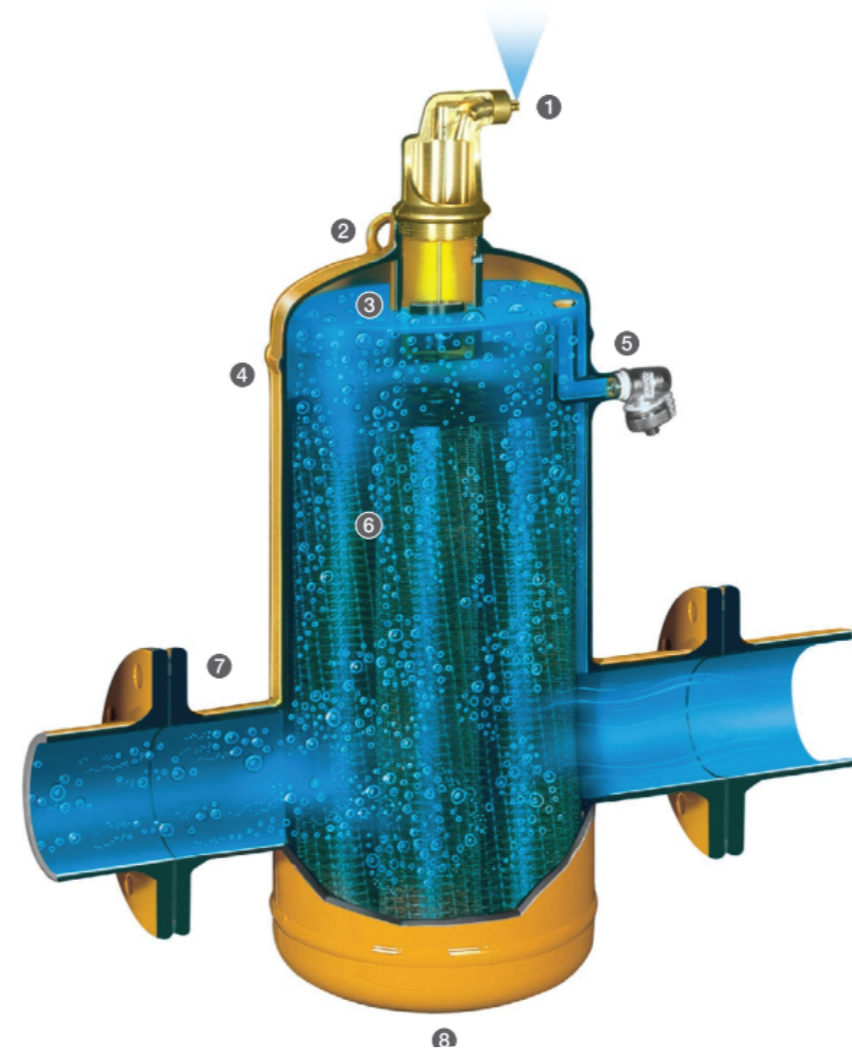
### High Capacity Easy DirtOut (Easy Cleaning)

TYPE	FLANGE mm	DIAMETER mm	HEIGHT mm	LENGHT mm	CAPACITY m³/h
NP-E 50	DN50/PN16	159	650	350	12,5
NP-E 65	DN65/PN16	159	650	350	20
NP-E 80	DN80/PN16	219	805	470	27
NP-E 100	DN100/PN16	219	805	470	47
NP-E 125	DN125/PN16	324	1064	635	72
NP-E 150	DN150/PN16	324	1064	635	108
NP-E 200	DN200/PN16	406	1335	775	180
NP-E 250	DN250/PN16	508	1735	890	288
NP-E 300	DN300/PN16	610	2065	1005	405
NP-E 350	DN350/PN16	610	2100	1100	500
NP-E 400	DN400/PN16	820	2380	1200	650
NP-E 450	DN450/PN16	820	2660	1300	850
NP-E 500	DN500/PN16	1020	2950	1400	1060
NP-E 600	DN600/PN16	1220	3530	1600	1530



### High Capacity Easy Air/DirtOut (Easy Cleaning)

TYPE	FLANGE mm	DIAMETER mm	HEIGHT mm	LENGHT mm	CAPACITY m³/h
NPS-E 50	DN50/PN16	159	630	350	12,5
NPS-E 65	DN65/PN16	159	630	350	20
NPS-E 80	DN80/PN16	219	785	470	27
NPS-E 100	DN100/PN16	219	785	470	47
NPS-E 125	DN125/PN16	324	1045	635	72
NPS-E 150	DN150/PN16	324	1045	635	108
NPS-E 200	DN200/PN16	406	1315	775	180
NPS-E 250	DN250/PN16	508	1715	890	288
NPS-E 300	DN300/PN16	610	2025	1005	405
NPS-E 350	DN350/PN16	610	2560	1100	500
NPS-E 400	DN400/PN16	820	2860	1200	650
NPS-E 450	DN450/PN16	820	3150	1300	850
NPS-E 500	DN500/PN16	1020	3460	1400	1060
NPS-E 600	DN600/PN16	1220	4070	1600	1530



The automatic air vent is guaranteed not to leak and can only be closed by the installer for a pressure test.

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# Interested in working together? **Let's connect!**



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