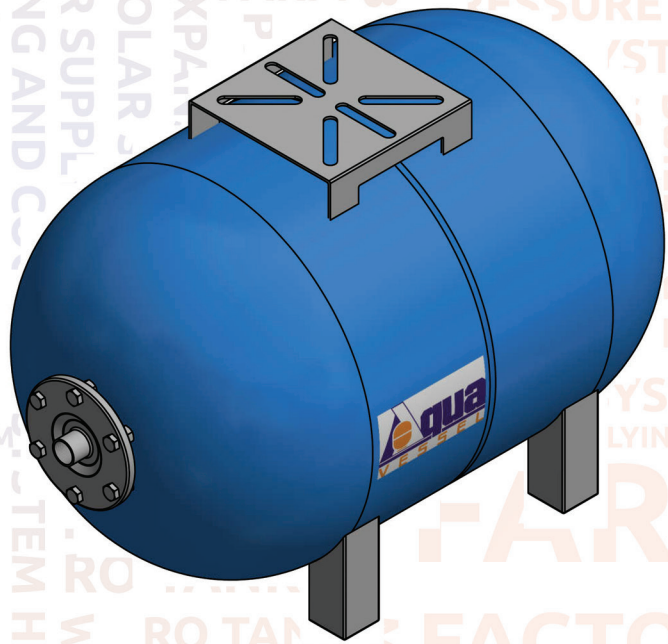


# GENERAL CATALOG ver 3/17



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# ABOUT US

AQUAVESSEL WATER TANK is produced by EDS Global in Turkey. That is a global key-producer of various type of pre-pressurized expansion & pressure tanks, hot water systems tanks-boilers and EPDM/ Butyl Membranes for booster/hydrophore - reverse osmosis - solar-heating applications.

Our factory are located in Kocaeli-Turkey where is very close to seaport which gives transport advantage. Currently, EDS GLOBAL as a professional producer, exports its products to more than 40 countries in Asia, Europe, Far East, Middle East, South-North America and other markets.

AQUAVESSEL offers its products at wide product range starting from 2 ltr up to 10.000 ltr in 10,16 and 25 bar working pressure ratings .. Additionally, AQUAVESSEL can supply from 2lt up to 40.000 lt EPDM/Butly and high temperature resistance ( up to 130 OC) Solar Membranes for world market .. All AQUAVESSEL tanks and membranes have been designed fully in Europe with the latest technology and innovative concept. AQUAVESSEL tanks series are ranked as:

Inter-changable Membrane Tanks Series; (Heating Series Tanks, Potable Series Water Tanks, Solar Series Tanks, High Pressure Series Tanks)

- Fixed Membrane Tank Series; (Potable Water Series Tanks, Heating Series Tanks, Solar Series Tanks, Metal Body Reverse Osmosis Series Tanks)
- Plastic RO Tanks
- EPDM/BUTLY and Special High Temperature Resistance Membranes.
- EDS Hot Water Tank/Boiler Series; (Buffer Tanks, Buffer Tank with Solar Serpantines, Hygienic Hot Water Tank, Hygienic Hot Water Tank with Solar Serpantines)
- Accessories for booster-heating-solar systems





# THREE WORDS TO DESCRIBE AQUAVESSEL

## TECHNOLOGY

The starting point for the entire production cycle is the research and development of cutting-edge new solutions which lead to the development of high quality products.

- High quality EPDM membranes, hygienic certified, approved by European Union and USA Institutions.
- Membrane is fully made in Italy
- CE 2513 certified, ISO 9001-2008 and other quality certificates available

## QUALITY

The quality is a fundamental and essential characteristic resulting from the attention to many little details that involve the entire production process, ensuring high quality standards suitable to meet the various needs of the market.

## FUNCTIONALITY

AQUAVESSEL offers its products at wide product range starting from 2 ltr up to 10.000 ltr in 10,16 and 25 bar working pressure ratings .. Additionally, AQUAVESSEL can supply from 2lt up to 40.000 lt EPDM/Butly and high temperature resistance ( up to 130 OC) Solar Membranes for world market For AQUAVESSEL, quality is a fundamental and essential characteristic resulting from the attention to many little details that involve the entire production process, ensuring high quality standards suitable to meet the various needs of the market.

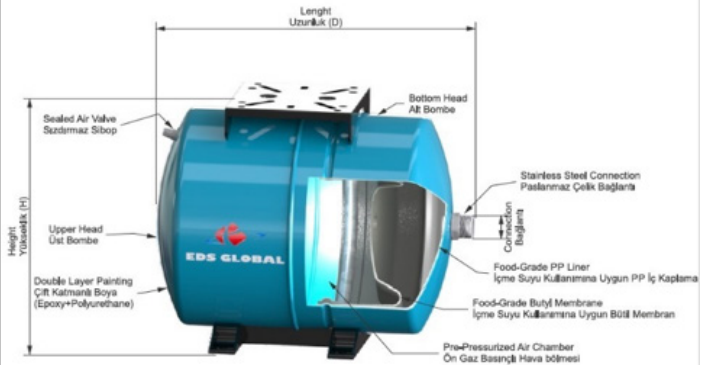
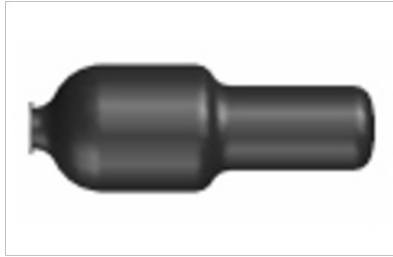
At AQUAVESSEL, quality goes far beyond the simple concept of checking compliance with specific requirements. It is not just limited to checking, testing and inspections - which are clearly present throughout the production process - but is part of the company's philosophy, and the mentality of all its employees.

At AQUAVESSEL, quality is also synonymous with order and safety, because we are convinced that to operate with high standards, it is essential to keep order in all workplaces, thereby also ensuring their safety.

During the production cycle, all the finished products as well as their single components undergo numerous direct and indirect tests so as to guarantee all our customers a 100% controlled product.



# INFORMATION AND HOW TO SELECT THE TANK



## TYPE TANKS

Diaphragm Pressure Tanks and Bladder Pressure Tanks are very similar together, are more compact and have a rubber diaphragm that is fixed or re-changeable in place separating the lower section of water from the upper section of compressed air. As water is pumped into the tank, the diaphragm pushes up into the

compressed air section until the preset water pressure level is met and the pump shuts down. This will help maintain a steady water pressure downstream in your house. As users draw water from the system, the diaphragm or balloon then pushes back down (keeping steady system water pressure) until the overall water pressure falls to the point where the pumps comes back on to rebuild

pressure once again. Setting the compressed air level correctly is critical to optimal pressure tank performance.

## SIZING THE TANK

The size of the tank is important. Pressure tanks are available in various sizes and choosing one big enough for your demand is important.

- A tank too small will result in too many pump cycles.
  - Constantly cycling a pump (turning on and off) is not good for the life of your pump.
- Therefore, a bigger tank is better as it means you will have both more stored water on hand and run your pump less often.

Figuring the appropriate size of tank is a calculation based on your demand. The alternative is to have

your local Tank provider do the calculation. Your only concerns are getting a fair price and ensuring you don't end up with a tank that is greatly oversized.

## PRESSURE TANK COMPRESSED AIR SETTING

Knowing what pressure to set.

The amount of pressure in your Pressure Tank is important.

- This will impact both the cycle time for your pump as well as the amount (volume) of water you have to play with between cycles. Generally you want the pressure for the tank to be 2 bar less than the

'start' pressure setting for the pump.





## PRESSURE TANK SERIES AQUA

Original Color :

Blue - RAL 5015

Optional Color :

Red - RAL 3020



# SPESIFICATIONS

## TANK METAL BODY

- Interchangeable membrane due to screw connection flange cover at the bottom of the tank
- Flange cover and water connector made of stainless steel material
- Resistant up to 10/16/25 bars
- § Outer surface with epoxy powder paint
- All tanks CE 97/23 Certified

**OPTION:** Flanges available in carbon steel upon request

## MEMBRANES

- High quality EPDM membranes, hygienic certified, approved by European Union and USA Institutions
- DIN 3-4807, NSF61-, WRAS, BS6920- certified and other quality certificates available

**OPTION:** Butyl membranes available upon request



# AQUAVESSEL

Pressure water tank series provide a high hygienic standards to its users, Italian design. The membrane used inside the AQUAVESSEL Tanks correspond to all European Union and USA potable water hygienic standards and all the membranes are certified Furthermore, 100% made in Italy, the only point where the water gets in touch with the tank, inlet-outlet, is the flange cover and connector which are made of stainless steel.



■ Pressure Seri tanks ■ Expansion Seri Tanks ■ Solar Seri Tanks  
EPDM Membrane - Made in Italy - Hygiene certificates from European



## VERTICAL TANKS WITH LEG

Tanks with High quality Membranes  
Made In Italy Approved by European  
Union and USA Institutions.

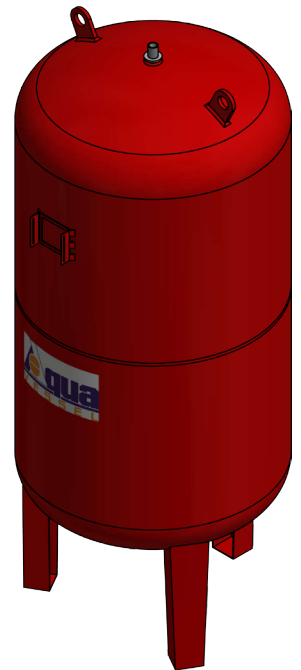
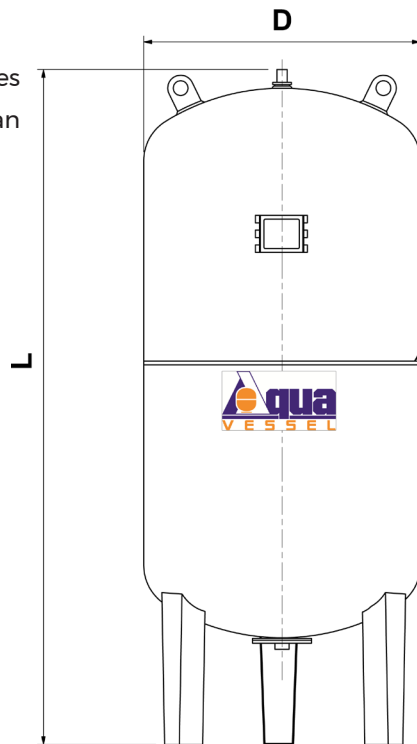
Pressure max: 10 bar  
Option: 16Bar - 25Bar

Temperature: 100C  
Option: 130C

Color: RED / BLUE / ALMOD



Hygienic certified



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

| Model           | (L)<br>Capacity | (Bar)<br>Pressure | (D)<br>Diameter | (H)Height | Pre-Charge<br>Pressure | Connection |
|-----------------|-----------------|-------------------|-----------------|-----------|------------------------|------------|
| AQU-50VL-PW     | 50              | 10-16-25          | 350 mm          | 760 mm    | 2 bar                  | 1 inch     |
| AQU-60VL-PW     | 60              | 10-16-25          | 380 mm          | 870 mm    | 2 bar                  | 1 inch     |
| AQU-80VL-PW     | 80              | 10-16-25          | 425 mm          | 930 mm    | 2 bar                  | 1 inch     |
| AQU-100VL-PW    | 100             | 10-16-25          | 460 mm          | 990 mm    | 4 bar                  | 1 inch     |
| AQU-100VL-PW-WM | 100             | 10-16-25          | 460 mm          | 990 mm    | 4 bar                  | 1 inch     |
| AQU-150VL-PW    | 150             | 10-16-25          | 500 mm          | 1080 mm   | 4 bar                  | 1 inch     |
| AQU-200VL-PW    | 200             | 10-16-25          | 600 mm          | 1120 mm   | 4 bar                  | 1 inch     |
| AQU-300VL-PW    | 300             | 10-16-25          | 640 mm          | 1250 mm   | 4 bar                  | 1 1/4 inch |
| AQU-500VL-PW    | 500             | 10-16-25          | 750 mm          | 1490 mm   | 4 bar                  | 1 1/4 inch |
| AQU-750VL-PW    | 750             | 10-16-25          | 800 mm          | 1920 mm   | 4 bar                  | 2 inch     |
| AQU-850VL-PW    | 850             | 10-16-25          | 800 mm          | 2020 mm   | 4 bar                  | 2 inch     |
| AQU-1000VL-PW   | 1000            | 10-16-25          | 800 mm          | 2150 mm   | 4 bar                  | 2 inch     |
| AQU-1500VL-PW   | 1500            | 10-16-25          | 960 mm          | 2350 mm   | 4 bar                  | 2 inch     |
| AQU-2000VL-PW   | 2000            | 10-16-25          | 1100 mm         | 2450 mm   | 4 bar                  | 2 1/2 inch |
| AQU-2500VL-PW   | 2500            | 10-16-25          | 1100 mm         | 2700 mm   | 4 bar                  | 2 1/2 inch |
| AQU-3000VL-PW   | 3000            | 10-16-25          | 1200 mm         | 2700 mm   | 4 bar                  | 3 inch     |
| AQU-4000VL-PW   | 4000            | 10-16-25          | 1450 mm         | 3100 mm   | 4 bar                  | 3 inch     |
| AQU-5000VL-PW   | 5000            | 10-16-25          | 1450 mm         | 3400 mm   | 4 bar                  | 3 inch     |
| AQU-10000VL-PW  | 10000           | 10-16-25          | 1600 mm         | 5900 mm   | 4 bar                  | 3 inch     |





## VERTICAL TANKS WITHOUT LEG

Tanks with High quality Membranes  
Made In Italy Approved by European  
Union and USA Institutions.

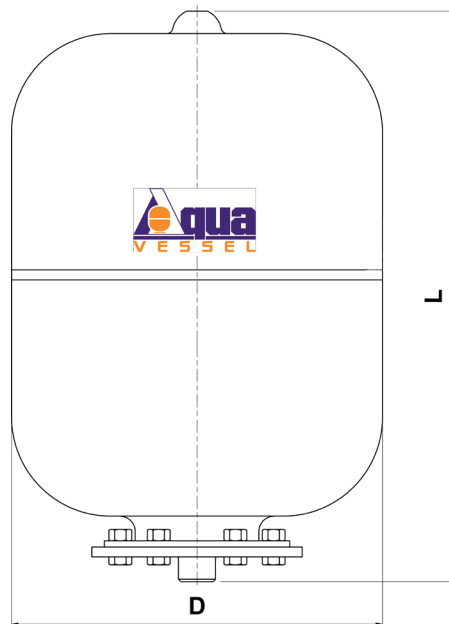
Pressure max: 10 bar  
Option: 16Bar - 25Bar

Temperature: 100C  
Option: 130C

Color: RED / BLUE / ALMOD



Hygienic certified



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

| Model       | (L)Ca-<br>pacity | (Bar)<br>Pressure | (D)Diam-<br>eter | (H)Height | Pre-Charge<br>Pressure | Connection |
|-------------|------------------|-------------------|------------------|-----------|------------------------|------------|
| AQU-2V-PW   | 2                | 10-16-25          | 100 mm           | 270 mm    | 2 bar                  | 1/2 inch   |
| AQU-5V-PW   | 5                | 10-16-25          | 160 mm           | 270 mm    | 2 bar                  | 1/2 inch   |
| AQU-8V-PW   | 8                | 10-16-25          | 200 mm           | 330 mm    | 2 bar                  | 1 inch     |
| AQU-12V-PW  | 12               | 10-16-25          | 240 mm           | 310 mm    | 2 bar                  | 1 inch     |
| AQU-19V-PW  | 19               | 10-16-25          | 300 mm           | 370 mm    | 2 bar                  | 1 inch     |
| AQU-24V-PW  | 24               | 10-16-25          | 300 mm           | 430 mm    | 2 bar                  | 1 inch     |
| AQU-24OS-PW | 24               | 10-16-25          | 350 mm           | 325 mm    | 2 bar                  | 1 inch     |
| AQU-24S-PW  | 24               | 10-16-25          | 350 mm           | 410 mm    | 2 bar                  | 1 inch     |
| AQU-35V-PW  | 35               | 10-16-25          | 350 mm           | 450 mm    | 2 bar                  | 1 inch     |
| AQU-50V-PW  | 50               | 10-16-25          | 350 mm           | 610 mm    | 2 bar                  | 1 inch     |
| AQU-60V-PW  | 60               | 10-16-25          | 380 mm           | 650 mm    | 2 bar                  | 1 inch     |



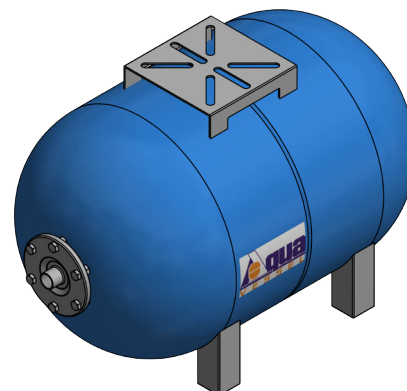
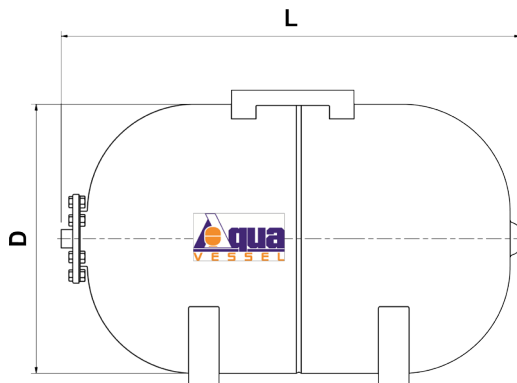
## HORIZONTAL TANKS WITHOUT LEG

Tanks with High quality Membranes  
Made In Italy Approved by European  
Union and USA Institutions.

Pressure max: 10 bar  
Option: 16Bar - 25Bar

Temperature: 100C  
Option: 130C

Color: RED / BLUE / ALMOD



Hygienic certified

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

| Model       | (L)<br>Capacity | (Bar)<br>Pressure | (D)<br>Diameter | (H)Height | Pre-Charge<br>Pressure | Connection |
|-------------|-----------------|-------------------|-----------------|-----------|------------------------|------------|
| AQU-19H-PW  | 19              | 10-16-25          | 340 mm          | 370 mm    | 2 bar                  | 1 inch     |
| AQU-24H-PW  | 24              | 10-16-25          | 340 mm          | 430 mm    | 2 bar                  | 1 inch     |
| AQU-35H-PW  | 35              | 10-16-25          | 400 mm          | 450 mm    | 2 bar                  | 1 inch     |
| AQU-50H-PW  | 50              | 10-16-25          | 400 mm          | 610 mm    | 2 bar                  | 1 inch     |
| AQU-60H-PW  | 60              | 10-16-25          | 440 mm          | 730 mm    | 2 bar                  | 1 inch     |
| AQU-80H-PW  | 80              | 10-16-25          | 520 mm          | 805 mm    | 2 bar                  | 1 inch     |
| AQU-100H-PW | 100             | 10-16-25          | 550 mm          | 820 mm    | 4 bar                  | 1 inch     |



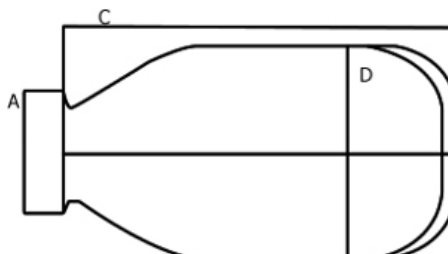


# MEMBRANE | 100% MADE IN ITALY

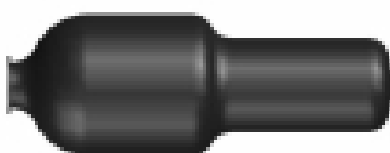
APPROVED BY EUROPEAN UNION AND USA INSTITUTIONS

Rubber membrane for expansion tanks and surge tanks, for water lifting and heating systems. The membrane is the heart of the expansion system and determines its reliability and duration over time.

The membrane is produced using appropriately mixed rubber which ensure its resistance over time and use in contact with drinking water. Our membranes have a variable volume, included between 0.16 lts and 10.000 lts. This membranes are made fully in Italy.

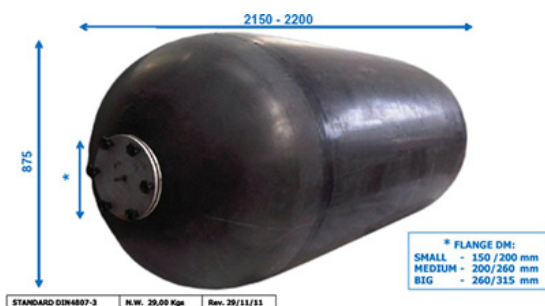


| MEMBRANE (MADE IN ITALY) | A         | B       | C   | D   |
|--------------------------|-----------|---------|-----|-----|
| AQU-5-8 M                | 65        | 46      | 155 | 105 |
| AQU-8-12 M               | 65        | 46      | 200 | 115 |
| AQU-12-18 M              | 65        | 46      | 270 | 125 |
| AQU-24 M                 | 110 / 120 | 80 / 90 | 260 | 200 |
| AQU-35-50 M              | 110       | 80      | 340 | 200 |
| AQU-50-80 M              | 110       | 80      | 500 | 220 |
| AQU-60-80 M              | 125       | 100     | 660 | 235 |
| AQU-100M                 | 125       | 100     | 770 | 235 |



| MEMBRANE (MADE IN ITALY) | A   | B   | C   | D    | E   |
|--------------------------|-----|-----|-----|------|-----|
| AQU-80-100 M             | 240 | 110 | 80  | 630  | 150 |
| AQU -100-150 M           | 270 | 110 | 80  | 730  | 180 |
| AQU-150-200 M            | 270 | 110 | 80  | 810  | 255 |
| AQU-200-300 M            | 380 | 200 | 150 | 1000 | 230 |
| AQU-500-750 M            | 440 | 200 | 150 | 1350 | 280 |
| AQU-1000-1500 M          | 500 | 200 | 200 | 2100 | 420 |

ON REQUEST: AQU 2000-2500M EPDM & BUTYL MEMBRANE





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