

VITROVEX®

by NAUTILUS MARINE SERVICE GmbH



Nautilus Marine Service is a German-based specialized company to manufacture pressure housings made of glass (VITROVEX®) for use in the deep sea. The company was founded in 1985 and has been investing continuously in people and technology to maintain the technical leadership in the products on offer. Nautilus Marine Service is closely associated with regional distributors around the world and exports over 90% of its VITROVEX® glass products to more than 30 countries. All well-known marine research facilities are among these customers.

Nautilus Marine Service pursues long-term goals and partnerships with its customers, employees and business partners and acts sustainably in accordance with the best interests of its customers without losing sight of its long-term viability.



The main product range of the company Nautilus Marine Service are floatation and instrument housings made of glass under the brand name VITROVEX®. VITROVEX® glass belongs to the group of borosilicate glasses, which are characterized by their low sensitivity to temperature changes and their high resistance to chemical agents.

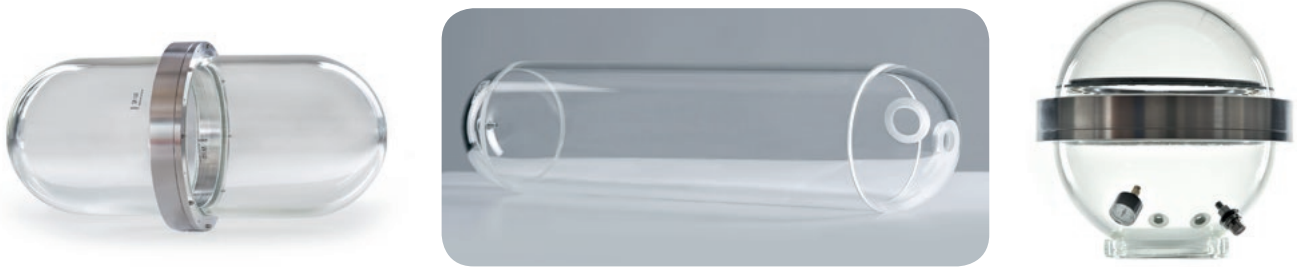


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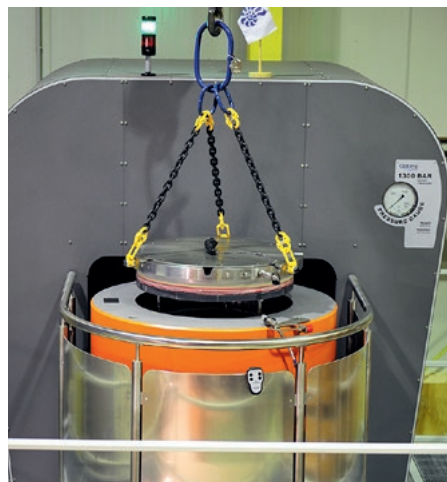


Nautilus Marine Service offers floatation and instrument housings in different shapes (spherical, cylindrical, and capsular) and in a wide variety of outside diameters from approx. 2" up to 20". Depending on the wall size and diameter, they can withstand pressures of up to 1200bar.



In addition, these glass housings can be integrated with metal or plastic parts (e.g. made of Titanium) to meet the diverse needs of primarily scientific customers. Examples include alternate sealing techniques, flanges to separate and connect them or protection items against mechanical impact.

Very often there is a need to incorporate third-party items also such as bulkheads, feedthroughs, transponders etc. Nautilus Marine Service has developed appropriate interfaces and procedures to this effect and supports its implementation.



Nautilus Marine Service operates its own fully computer-controlled pressure test facility (ID 700mm, length 1400mm) in which all pressure housings can be tested up to 1300bar.

In the business of ocean research and exploration, pressure housings are often acquired in small quantities and only after intensive consulting talks upfront to capture customer-specific requirements and to support decision-making. The provision of these services in combination with the wide range and variability of the products makes Nautilus Marine Service special and unique. A fact that was also honored with the awarding of the Compass International Award 2015 and in turn, motivates all employees of Nautilus Marine Service to continuously strive for the highest quality and reliability of products, services and work processes.

