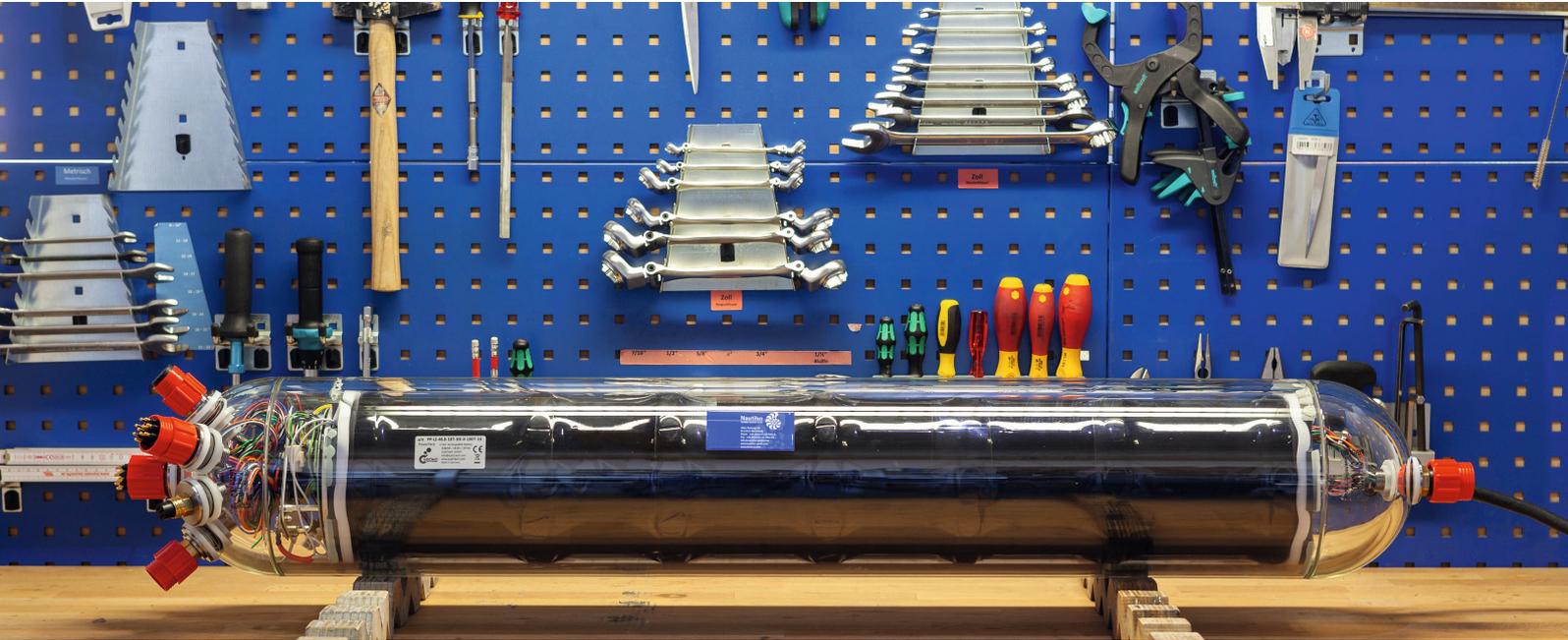


VITROVEX® services & accessories

Genuine parts and expertise to customize your enclosure



Nautilus Marine Service offers deep sea floatation and instrument housings made of glass (VITROVEX®) in different shapes (spherical, cylindrical, and capsular) and in a great variety of sizes from approx. 2" up to 20" outside diameter. VITROVEX® glass housings can be complemented with a large variety of accessories to fulfill the requirements of a wide range of clients. Examples include parts for protection against mechanical impact, innovative sealing techniques and flanges to ease opening and closing. Often there is a need to assemble items from third-party manufacturers such as bulkheads, feedthroughs, transponders or other penetrators as well as lights and cameras into pressure housings. Nautilus Marine Service has developed appropriate interfaces and procedures to this effect and supports their implementation.

VITROVEX® Services



Engineering

Assistance and consulting services to turn customer-specific requirements into high-quality pressure vessels.



Greater transparency

Optical improvement of industrial quality made hemispheres.



Shell modification

Mechanical finishing of protective shells to fit oversized enclosure extensions.



Glass processing

Machining of through holes, chamfers and precise ground flats to accommodate third-party items such as bulkheads, feedthroughs, transponders etc.



Bonding

Preparation of durable strong bond joints between glass parts and metal or plastic flanges, mounting rings etc.



Pressure tests

Fully computer-controlled pressure tests in fresh or sea water up to 1300 bar incl. certificate.



Coating

Polyurethane and paint coatings of glass housings for surface protection, improved traction, and reflection cover or splinter shield.



System integration

Implementation of all kinds of penetrators as well as sensors, instruments and transducers to glass housings with appropriate interfaces and procedures.

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VITROVEX® Accessories

EVACUATION



Manometer

Manometer for monitoring vacuum inside the enclosure.



Vacuum port

Titanium vacuum port with single and double face seal and 5mm threaded bolt.



Vacuum port (self-sealing)

Titanium vacuum port, self-sealing version with 5mm or 7/16" threaded bolt.



Hose adapter for vacuum ports

Hose adapter for vacuum ports.



Sealing and protective tape

TEROSTAT and SCOTCHRAP tape to achieve an airtight seal and to protect against mechanical damage.



Vacuum pump

Deck purge box (pump) that fits vacuum ports, for evacuation of glass housings and to eliminate moisture inside.

EXTENSIONS



Heatsink

Filler plug made of Copper, requires bulkhead connector ports, approx. heat flow in W @deltaT (40@20°, 60@30°, 80@40°, 100@50°).



Pressure feedthrough

Pressure feedthrough (high pressure interface to G1/4 (Keller), 1/8" and 1/4" NPT).



Pressure switch

Pressure activated switch; triggers at approximately 3 bar.



Flanges

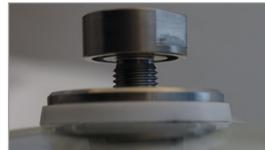
Customized flanges and counter flanges provide an alternative solution to open and close spheres.

INTERFACE



Bulkhead connector ports

Titanium socket for circular and low-profile bulkhead connectors.



Filler plugs

Filler plugs to seal temporarily unused connector ports.



Bulkhead mounting sets

Set of adapter plate, profiled washer, washer, disk spring and nut to support connector installation.



Lubricant

Molykote Lubricant to grease O-rings and connectors before mating.



Mounting ring

Internal mounting ring of rigid PVC with or w/o threaded inserts.



Bonding Set

Bonding Set to attach items to glass wall.



Adaptor plates

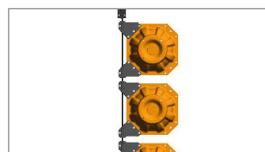
Adaptor plates with perfect flatness and O-ring position to prevent damages to glass by installing 3rd party items such as connectors or transducers.

DEPLOYMENT



Protective shells

Neutral buoyant protective shells in ribbed and smooth designs, orange and transparent colour.



Mooring system

Set of up to five 17" floatation spheres attached to a braided fibre rope (Eddyrope) with swivelling mounting brackets (Eddygrip).



Transportation aid

Rubber dome-shaped and bell-shaped suction lifter, suitable for use on curved glass surfaces – one-hand operation and thus quick and effective working.