

MICRO MAXX FILTER[®]





MicroMaxx-Filter® (SKU 521915)

Valves with M25x2 or ¾" NPSM

Cold water diving can cause "internal icing" in the breathing air. This is intensified when small amounts of water are present in the scuba tank.

This internal icing takes place at the first "air-relaxation place", the water protection or dip tube. On steel cylinders, rust formation can occur if the time and chemical conditions are present. Aluminum cylinders can oxidize as well. The Nautech filter element is made of a hydrophobic (water-repellent) plastic (PE) that is acid and alkali resistant, temperature resistant, impact resistant, chemically neutral, a poor conductor of heat and physiologically harmless. By filtering out the smallest particles (3-5 µ) and being impermeable to water, your personal safety is ensured.

The MicroMaxx Filter is intended to replace the conventional plastic or brass water protection tube. It is designed to fit all Nautech valves. There is also a model with an M6x0.75 metric connection thread for valves made in Italy (Halcyon/Scubapro, Thermo, etc.).

What are the advantages of the Nautech-MicroMaxx-Filter?

25% improved filter performance with a new surface geometry!

Installation of the filter on almost all cylinder valves without additional, expensive adapters required!

Cost saving! Easy replaceable filter element. Simply unscrew the old filter element and screw on a new one.

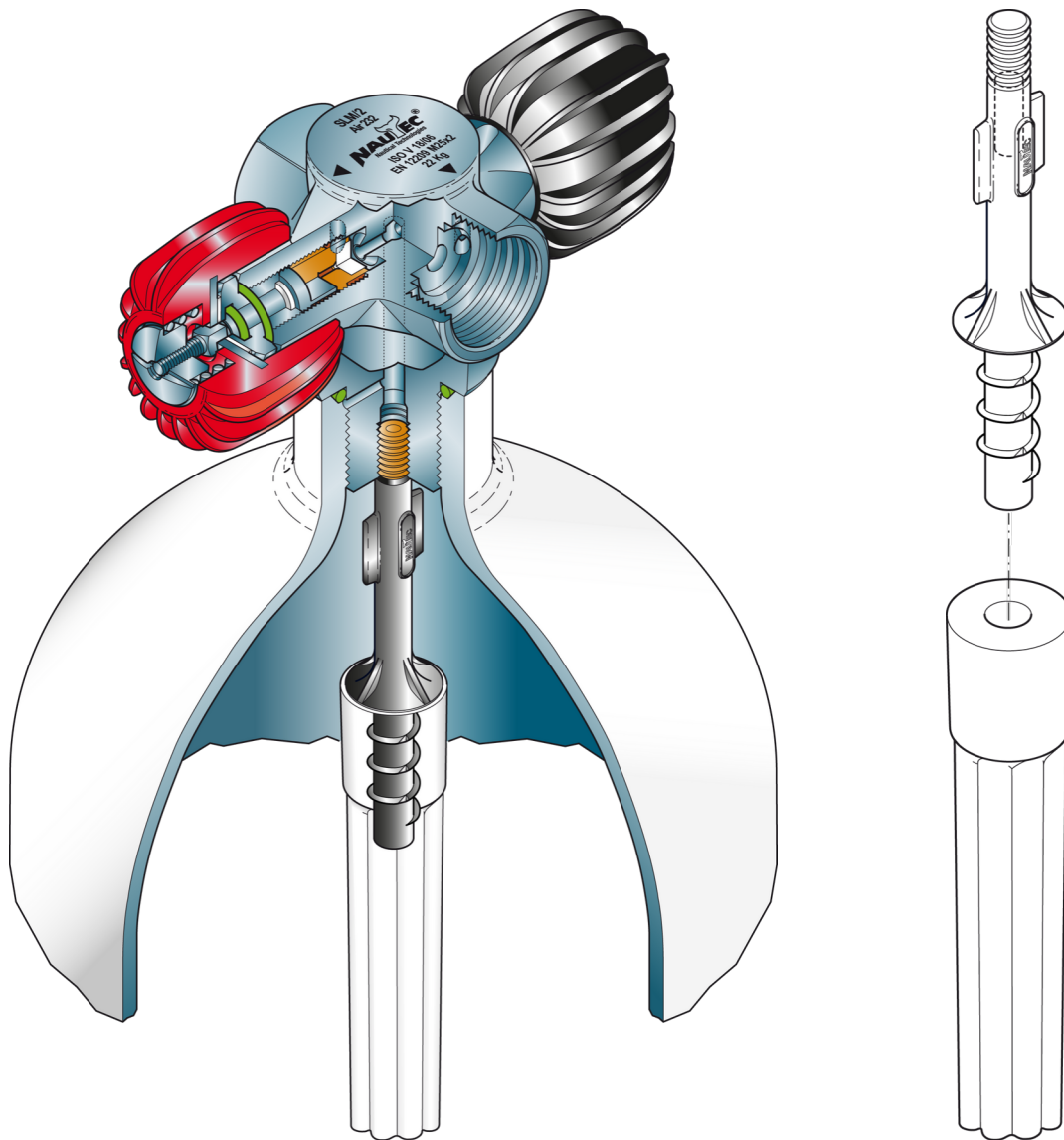
A special screw connection, developed by Nautech, gives high strength to withstand pressure surges, even when filling from storage tanks.



NAUTEC recommends replacing the filter element at least every five years.

The filter element must be replaced immediately:

- | when contaminated with compressor oil (visual inspection or olfactory test)
- | when the zinc white colour has changed in any way (a brownish color would indicate rust from steel cylinders).
- | when mechanical damages occur, such as when removing the valve without due care.





This filth would have been inspired into the lungs of the diver!



This is a MicroMaxx filter completely clogged and contaminated with oxide particulate after seven years of use.



The inside of the filter is completely degraded and saturated with particles. The porosity is lost.



A photo micrograph of the filter element shows the rust particle contamination.



Saving money at the expense of safety?

Some time ago, the owner of a dive shop called and complained about one of our MicroMaxx-Filters, sold to him about 7 years ago. He claimed, that after 7 years in use only, the filter literally "exploded". We strongly recommend the replacement of the filter element at least after every hydrostatic testing of the scuba cylinder. A filter should never be used more than 5 years! Since we had never seen a filter in use for so many years before, I asked the customer to hand us the filter in exchange for a NEW one to have a closer look at it. What we finally saw was shocking. The filter had changed from a zinc-white into an ugly brown color. Because it had lost air permeability, it finally burst. In addition, an "odor analysis" revealed that the filter was also heavily contaminated with compressor oil.

Meanwhile, we are distributing the 3rd generation of the MicroMaxx-Filter!

It started around 1993 with a simple, round filter body, in which a PVC-tube was glued in. Very soon however, it turned out that this splice was seen as a weak point. The adhesive area did not withstand the pressure surges when filling the tank. The PVC tube was replaced by a "hybrid tube". A brass tube with a connection thread adapted to the cylinder valve on one side and a molded ABS plastic tube with special thread for rigid foams on the filter side. This solved the problem of tearing off from the connection pipe. Later on, as a further step we changed the shape of the filter body. The prerequisite for an optimal filtration and the avoidance of the so-called internal icing is the largest possible filter surface. In order to achieve that we eliminated the round filter form in 2006 and adopted the outer contour of a 6-petalled flower.



MICRO-MAXX-Filter® NAUTEC Valves

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MICRO-MAXX-Filter® for Polaris / Scubapro / Seemann Valves

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MICRO-MAXX-Filter® body

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