

PROTON ICE EXTREME

Impeccable reliability, even in extremely cold water



- Authorized by the US Navy - A.N.U.1.4.12
- Second stage fully coated with fluoropolymer resin finish
- Equipped with the CWD kit

Approved by the United States Navy for dives at extremely low water temperatures, down to -1.7 °C / 29 °F. In collaboration with the US Navy, Mares has designed an exclusive product, conceived to guarantee maximum performance and reliability in the most difficult cold water conditions, even ice diving.

REGULATORS TECHNICAL ICONS



TRI-MATERIAL VALVE: Patented technology, conceived and created to optimize performance, safety, and reliability. This brass valve is covered with a hard PU then the head is layered molecularly with a soft PU. Tri-material (brass, soft polyurethane, and "heavy duty" polyurethane) reaches a new level of durability.



ALL METAL TECHNOLOGY: Metal second stages have superior performance than plastic second stages, especially in cold water, thanks to the high thermal conductivity that limits the freezing effect. Additional benefits are the improved durability, the longer working life and the less dry mouth breathing.



DFC - DYNAMIC FLOW CONTROL: DFC system minimizes the intermediate pressure drop during inhalation, making it possible to use a simpler and more reliable second stage. Any type of manual adjustment is not necessary, thanks to the consistency derived from first stages that guarantees a stable flow of air, even under extreme conditions.



VAD - VORTEX ASSISTED DESIGN: All Mares second stages offer the unique patented VAD system. The air bypass tube conveys air to the mouthpiece creating a swirling vortex with a low pressure area in center that keeps the diaphragm down during inhalation, for very sensitive and easy breathing at all depths.



MESH-GRID: The patented mesh design of the second stage cover reduces the pressure of water flowing onto the second stage diaphragm and minimizes free-flow. Even in strong currents it eliminates the need for a knob to 'de-tune' your air delivery system to stop free flowing: Advanced technology through basic physics.



EXTREME COLD WATER Regulators conceived to guarantee unbeatable performance and reliability in extremely cold water, even ice diving: the CWD kit is equipped on the first stage and the All Metal second stage is entirely coated with fluoropolymer resin finish, even on all key components.

PROFILE ICONS



FOR DEMANDING DIVERS: Those who dive frequently and in difficult conditions need products featuring superior quality and consistent performance, time and time again. Mares has always focused on new technologies and innovative products that lead to concrete benefits: superior reliability and performance will be appreciated by the most experienced demanding divers.



COLD WATER: Designing and engineering products for cold water diving requires maximum attention to performance, safety and technical details. Mares creates equipment specific for cold water and ice diving. Rigorous tests ensure top notch performance keeping you comfortable, warm and secure. Even the US Navy has conceded Mares to be the best equipment for extreme conditions.



MAX COMFORT: Comfort is always one of the primary design elements in Mares equipment. Mares through superior technology continues to research, innovate and upgrade your level of comfort before and during your dive. Equipment marked with Max Comfort bring this quality of comfort to the most up-to-date premier pinnacle.



IDEAL FOR TRAVEL This gear line is designed specifically for women in style, cut, and ergonomics making your dives much more comfortable than in years past. Careful consideration to detail in functionality and aesthetic specifically for women make the She Dives collection the ideal choice for your Scuba and snorkeling needs.

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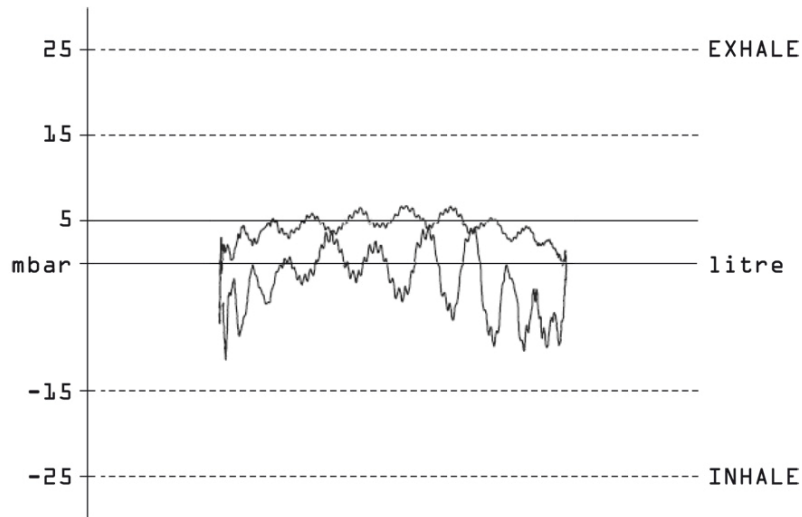


Proton Ice Extreme

inhale pressure = 11.47 mbar
inhale pos pressure = 4.39 mbar
exhale pressure = 6.82 mbar
ext work of breathing = 0.71 J/l
inhale work = 0.28 J/l
pos inhale work = 0.06 J/l
exhale work = 0.43 J/l



pressure - volume diagram at depth of: 50.6 msw (166 fsw)



All Mares regulators are certified to meet the EC Mark requirements in compliance with Directive 89/686/EEC reference standard UNI-EN25

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