



TEXAS \* PENNSYLVANIA \* NORTH CAROLINA

<http://hi-alloy.com>

**BROCO**®

## UNDERWATER CUTTING SYSTEM

**UNDERWATER CUTTING RODS:** Burning in excess of 10,000° F at the tip, the Broco Ultrathermic Cutting Rod will cut or melt virtually any known material. Broco's patented design features alloy core wires retained inside a steel tube by a series of circular crimps and insulated for diver safety. Recessing these internal wires on the torch end of the rod prevents burn-back into the torch making the Broco Underwater Ultrathermic Cutting System the safest on the market. Ultrathermic cutting rods can be bent 90° or more, to access hard to reach places without restricting oxygen flow or causing the insulation to split or flake off. The Ultrathermic Cutting Rods may be ignited by a spark from a 12 volt car battery or a welding machine using a maximum of 150 amps. Once ignited, they have no electrical requirement, they will continue to burn as long as oxygen is supplied or until the rod is consumed.

**BR-22 CUTTING TORCH:** The BR-22 Cutting Torch is ergonomically designed for diver comfort and to reduce forearm fatigue. The torch is constructed from durable high-impact and corrosion resistant materials. All of the metal parts are brass. The non-conductive flexible coupler joining the oxygen control valve to the torch head is a key safety feature unique in design and found only in Broco's torch. All connections are threaded for ease of maintenance (spare parts kits are available). The solid brass flash arrestor with internal filter screen protects the diver and torch without restricting oxygen flow. The large collet nut is knurled to assure the diver of a solid grasp and acme threads prevent binding from mud or other debris insuring quick reliable rod insertion and retention. Interchangeable collets accommodate 3/8" or 1/4" diameter cutting rods, and use of available welding collets allows the BR-22 to be used as a welding electrode stinger. The BR-22 Cutting Torch has been built to deliver years of trouble-free performance at a minimum cost; the ultimate value.

**HVR-4401 OXYGEN REGULATOR:** The 2-stage Broco HVR-4401 Regulator (when used with 3/8" oxygen hose) delivers the high volume of oxygen required to optimize Ultrathermic cutting performance. U.L. listed, the HVR-4401 has been designed and manufactured for ruggedness, ease of operation and maximum efficiency.