



MAGNUM TOP VALVE TORCH DESIGN

Top Valve bottom valve torch design comparison

Is your underwater torch a potential hand grenade?

The differences between top valve and the bottom valve torch designs has considerable import for cutting performance and diver safety.



BOTTOM VALVE DESIGN

Flashbacks occur between the torch head and the torch valve.

PROBLEM: Bottom valve torch designs like the silhouette to the left allow flashbacks to travel through the diver's hand on the way to the lower torch valve potentially creating a flashback hazard inside the diver's hand. In such a design, should the filters behind the torch collet fail to contain the flash, hot flash travels through torch handle grasped inside the diver's hand. This process takes a fraction of a second at ocean depths.

SOLUTION: Top valve torch designs isolate flashbacks above the diver's hand so the torch handle does not become a potential hand grenade. The high valve torch design also displays an offset nose, discouraging

designs exhibiting oblique valve angle. The abrupt angle cuts performance and can cause erratic rod burns at high pressure settings.

Decide what you want in your hand when working at depth.

Demand the best. Get a top valve torch and not only realize greater cutting and piercing performance, but also experience greater safety due to a better flashback design.



What's in your hand?