

# CAN THE AIR TANK IN A SUBMARINE COMPRESS THE AIR



Can air be compressed aboard a submarine? Air can be compressed easily aboard a submarine, as it requires a relatively small plant and comparatively simple equipment. It can be stored at any convenient place and is always ready for use.



How is oxygen supplied in a submarine? YASUYOSHI CHIBA/AFP via Getty Images Inside submarines, oxygen is replenished, carbon dioxide is removed and exhaled moisture is eliminated to keep the air breathable. Oxygen can be supplied from pressurized tanks, oxygen generators or oxygen canisters, with levels managed by computerized systems or periodic releases.



How many air systems does a submarine have? General information. There are five separate air systems on the submarine: the 3000-pound high-pressure and torpedo impulse system, the 600-pound main ballast tank (MBT) blowing system, the 225-pound service air system (ship's service air), the 10-pound main ballast tank (MBT) blowing system and the salvage air system.



What happens when a submarine reaches a surface? When the submarine surfaces, compressed air flows from the air flasks into the ballast tanks and the water is forced out of the submarine until its overall density is less than the surrounding water (positive buoyancy) and the submarine rises.



How does a submarine control its buoyancy? To control its buoyancy, the submarine has ballast tanks and auxiliary, or trim tanks, that can be alternately filled with water or air (see animation below). When the submarine is on the surface, the ballast tanks are filled with air and the submarine's overall density is less than that of the surrounding water.

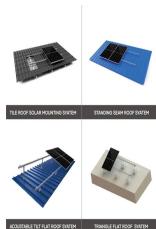
# CAN THE AIR TANK IN A SUBMARINE COMPRESS THE AIR



How does a submarine use air? It consumes no valuable materials and can be supplied to any part of the submarine simply by extending a line from the air supply. Air, once stored, requires no further expenditure of energy for operation, but rather is a source of power to other equipment. 11B1. General information.



Submarines use ballast and trim tanks, which are filled with air or water to submerge or raise the ship. When the submarine is floating on the surface, the tanks are filled with air causing its a?|



The fuel oil ballast tanks have the same piping and connections as the main ballast tanks and therefore can be blown by the 10-pound blowing system when they are used as main ballast tanks. C. LOW-PRESSURE BLOWER : 5C1. a?|



These can be welded to the dished end of the tank in the case of vertical compressed air tanks or on the curved side of the air tank in the case of horizontal tanks. Receivers Compressed Air Tanks The tank itself can be a?|



So now your tank is on the surface, full of air at atmospheric pressure (14.7psi). You turn on the pump. The pump is going to bring in water, remaining on until filling 80% of the tank. The 3L of air in the ballast tank must a?|

# CAN THE AIR TANK IN A SUBMARINE COMPRESS THE AIR



In addition to the oxygen generator, submarines are equipped with pressurized tanks that store large volumes of compressed air. These tanks are filled when the submarine is at the surface and can be used to quickly a?|



hello there I'm trying to build RC submarine but I have a problem, the air tanks supposed to have two hoses one pointed to the water and the other one tied to a small air filled ball to keep it pointed up, while the tanks have a?|



A supply of compressed air is maintained aboard the submarine in air flasks for life support and for use with the ballast tanks. In addition, the submarine has movable sets of short "wings" called hydroplanes on the stern a?|



The process of obtaining and storing compressed air in a submarine is quite fascinating. Submarines have several methods to ensure a constant supply of fresh air. submarines are equipped with pressurized a?|



Submarine crew members on an attack sub carry out a drill while moored at the navy base in Niteroi, Brazil, on May 27, 2014. YASUYOSHI CHIBA/AFP via Getty Images. Key Takeaways. Inside submarines, oxygen is a?|

# CAN THE AIR TANK IN A SUBMARINE COMPRESS THE AIR



The other reducing valves (a total of 12 on the 225-pound air system) are distributed throughout the submarine as follows: five supplying the pneumatic tool connections with 100-pound air; two supplying the battery fresh water tanks a?|



Following is the basic operating theory of USN submarine Main Ballast Tank (MBT) Systems however the scenario and mechanics may vary between classes of submarines due to technological advancements and modernization. and a?|



These tanks cannot be pumped; therefore, when the submarine is surfacing, compressed air must be used to blow the water out through the flood ports to the sea. Two separate systems are provided to blow the main ballast tanks. This a?|



Inside submarines, oxygen is replenished, carbon dioxide is removed and exhaled moisture is eliminated to keep the air breathable. Oxygen can be supplied from pressurized tanks, oxygen generators or oxygen a?|



What Can Cause A Submarine To Explode? A Final Word; Submarines are marvels of engineering that operate in the depths of the ocean, withstanding immense pressure and enabling human exploration beneath the a?|

# CAN THE AIR TANK IN A SUBMARINE COMPRESS THE AIR

---



Final Answer: When the air in a submarine's huge air tanks is decompressed, it causes the submarine to float.  
Explanation:  
The buoyancy of a submarine is a?