MARINE PRODUCTS

GASES & CYLINDERS
Availability. Quality assurance. Total compliance. There’s more that goes into Unitor cylinders.

For shipowners and operators, the pressure is on. Against a background of constantly changing regulations, it’s a WSS key responsibility to make sure that essential gases used on board are supplied, stored and used safely, and in full compliance with the latest port and environmental rulings.

With WSS as your worldwide partner for gas supply, you can rest assured. We run the world’s largest network for the distribution, re-filling, maintenance and exchange of Unitor gas cylinders.

Covering a wide range of applications, our gases are available wherever and whenever you need them. Quality is guaranteed, and every cylinder is tracked globally for greater transparency and security. At the same time, you can be certain that cylinders and their contents meet the requirements of all relevant regulations. Altogether, WSS offers a more efficient way for you to manage cylinder stocks and stay fully compliant.
High quality gas solutions for every application.

THE UNITOR RANGE
Wilhelmsen Ships Service supplies a wide range of gases covering all principal applications on board. The total range includes close to a hundred different gases and gas mixtures, as well as refrigerants.

WELDING GASES

OXY/ACETYLENE GAS FOR WELDING/BRAZING AND CUTTING
Oxygen and acetylene mixture remains the leading choice for welding, brazing and cutting steel, for its thermal properties and ease of use. We supply high quality oxygen and acetylene in 5 and 40 litre cylinders.

SHIELDING GAS
Argon and Argon-Carbon Dioxide mixtures are used as protective shielding gas in TIG and MIG welding where it serves as an inert covering round the point of the electrode to protect the welding from the air. Argon is available in 10 and 50 litre cylinders.

Carbon Dioxide is used in MAG welding as an active gas to protect the welding from air. Available in 9 and 27 litre cylinders.

CRUISE GASES
We supply a full range of gases to meet the wide-ranging and often highly specialised demands of cruise ships.

CARBON DIOXIDE
- For charging carbonated drinks
- Used in food and beverage industry as a protective gas to conserve food and to carbonate soft drinks and beers
- For controlling pH levels of potable water produced on board

Food grade CO₂ is available in two cylinder sizes containing 9kg or 27 kg of gas.

HELIUM
We supply helium, which is widely used for inflating balloons on board. One 40 litre cylinder will inflate around 375 standard sized balloons.

PROPA
Propane has a number of applications in ships’ restaurants, as a fuel gas for barbecues or for flambéed dishes prepared at the table. We provide propane in compact 5lb cylinders to fit under counters or on serving trolleys.

NITROGEN
As a cost effective inert gas nitrogen is in use for applications like blanketing and purging. WSS is offering manifold systems for these applications and the needed gas in cylinders following our standard exchange program. The gas is offered in two qualities; 99.9% and 99.999% purity of which the higher purity comes with a certificate of analysis needed by cargo owner and/or Port Authorities. This enables our customers access to the product in an efficient way only when they need it for their particular cargo.

We supply nitrogen in two cylinder sizes, 10 and 50 litre, filled at 200 bar (2900psi).
440,000 cylinders delivered every year, through 1,700 ports worldwide

MARINE PRODUCTS, DONE BETTER
CALIBRATION

Gas detection systems need regular checking and calibration to maintain performance, and safety. Span gases supplied by WSS allow these checks to be carried out effectively and accurately. These include precise concentrations and mixtures of:

- Hydrocarbons and air, or nitrogen mixtures (LEL mixtures)
- Oxygen and nitrogen mixtures
- Carbon monoxide or hydrogen sulfide mixtures
- Pure gases such as nitrogen, propane and methane

The gases we supply are suitable for testing and calibrating almost any type of gas detection equipment currently used on board ship. They are available in 10 litre refillable cylinders for frequent testing, and disposable Minimix cylinders for less frequent testing or tight access locations.

WSS’s global service network means span gases are readily available through major ports such as Singapore, Rotterdam or Houston. They are also available through other ports given sufficient notice when you order. Contact WSS customer services for more information.

MEDICAL OXYGEN

In medical emergencies, the prompt administration of oxygen can be a key factor in saving lives. The IMO requires that ships transporting dangerous goods carry medical grade oxygen for the primary treatment of casualties. And, as a medical product, it is subject to close regulation. With medical oxygen supplied by WSS, you can be confident that it meets the required standards of purity and that it complies fully with all regulations, locally and globally.

We supply medical grade oxygen in three cylinder sizes: 2 litre lightweight aluminium cylinders, and 5 and 40 litre steel cylinders filled at 200 bar (2900psi).
Unitor cylinders on board

22,000 vessels

MARINE PRODUCTS, DONE BETTER
The quality of the gases we supply is guaranteed. Unitor cylinders are filled only by approved suppliers. Contents meet all the required standards for purity and pressure, so removing the risk of damage to equipment or harm to crew caused by poor quality fillings. Good to know.

Better still, Unitor gas solutions are supported worldwide by a service network that’s dedicated to keeping your fleet fully supplied and totally compliant with current port and environmental regulations.

The difference is in the delivery.
Before filling, every cylinder is inspected according to strict rules by trained technicians and where necessary refurbished and re-qualified. Those that fail to meet our standards are scrapped, so there’s no doubt about the integrity of cylinders or concern about the consequences of failure. We go further. Unlike any other supplier to the marine market, every Unitor cylinder is covered by insurance to direct damage due to cylinder failure while on board. We take responsibility, which means peace of mind for you and greater protection for your vessel, your crew and port personnel.

UNITRAK GLOBAL TRACK AND TRACE

With UniTrak, we’ve made it easier to take control of cylinder stocks. UniTrak is a unique track and trace system that supports the delivery and exchange of Unitor cylinders worldwide. Every cylinder is logged on the system and customers are given direct access so you can view cylinder stocks online - any vessel, any time. Cylinder numbers, filling schedules, delivery locations - all information is available to help you manage cylinders accurately, cost-effectively and securely.
THE WORLDS LEADING MARITIME NETWORK

COMPLETE COMPLIANCE

WSS’s cylinder exchange service conforms fully with the rules set out in the ISPS Code which requires close monitoring of the movement of high pressure cylinders. This is made possible by our UniTrak global track and trace system.

Throughout, we are committed to providing the most environmentally friendly solutions. In practice, this means that our gas products and our services comply with all international regulations.

Because we stay compliant, you stay compliant. And when regulations are revised, we work to make sure you stay ahead of the changes.

AVAILABILITY

The WSS network provides a global service for the delivery, exchange and maintenance of Unitor gas cylinders. This means that gases are always available for re-supply and your empty cylinders can be returned wherever your vessels are in the world.