FGB06

Filling Gas Booster

The Filling Gas Booster FGB06 is an oxygen filling station utilizes a pneumatic booster to increase the pressure of oxygen for filling high-pressure cylinders.

Pneumatic Booster Operation: The pneumatic booster uses compressed air to drive a piston or diaphragm, which compresses the oxygen. The ratio of the air pressure to the oxygen pressure determines the pressure increase achieved by the booster.

Filtration: Before entering the high-pressure cylinder, the oxygen is often passed through filters to remove any contaminants, such as particulate matter, oil, or moisture. This is especially important for diving applications where high purity oxygen is required.

High-Pressure Filling and Control: The high-pressure oxygen is then transferred to the cylinder being filled. Pressure gauges, valves, and control systems are used to monitor and regulate the filling process, ensuring the cylinder is filled to the correct pressure without overfilling.

The unit is contained within a rigid, wheeled enclosure conforming to MIL-STD specifications, providing protection for all internal hardware, encompassing measurement instrumentation, valves, and control mechanisms, while facilitating ease of handling and single-operator deployment.

All the controls are integrated, such as a pressure reducer for the inlet gas or the pressure switch that automatically stops the filling phase when the desired pressure is reached.

The booster is built with an innovative system that significantly reduces air consumption during operation.

Thanks to the double coating in stainless steel and the 5-meter-long hose, the operators can operate always in safety conditions.

Up to six cylinders may be pressurized simultaneously to a maximum of 230 bar.

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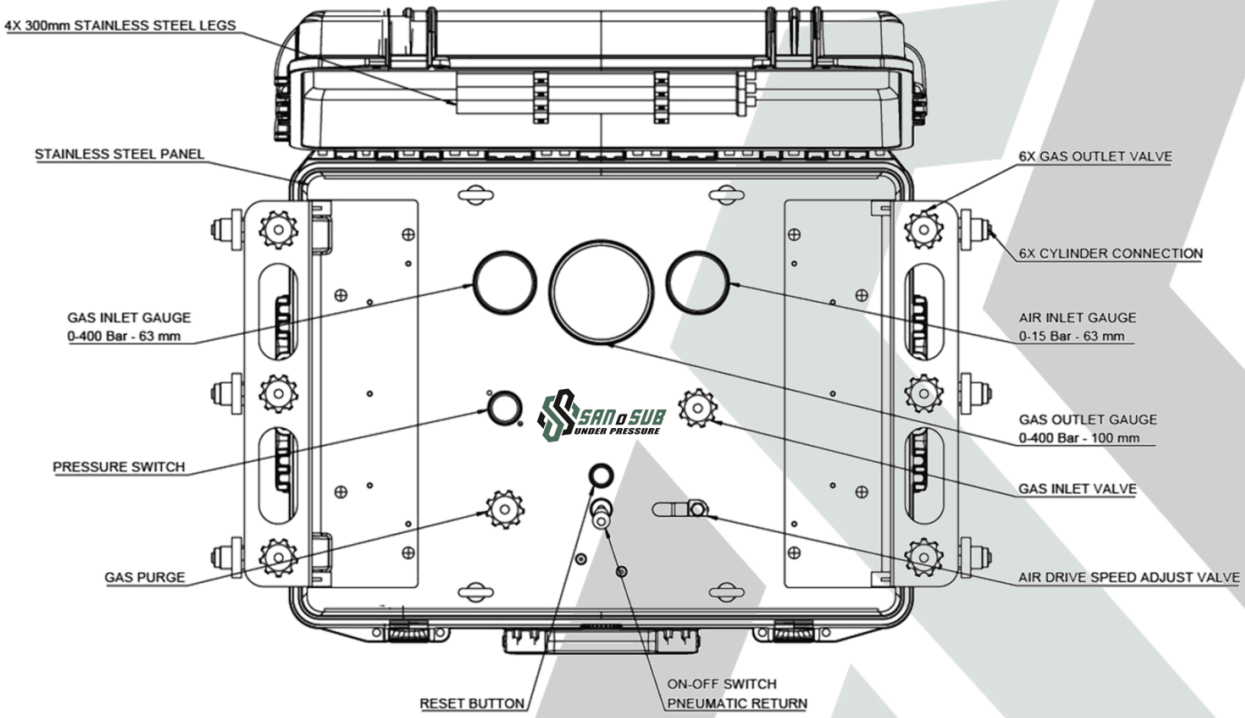
TECNICAL DATA

Type:	Single stage – double acting
Working principle:	Pneumatic single drive
Max filling pressure:	230 bar
Nr. of outlet:	up to 6
Gas:	Oxygen, Helium ,Air, Argon (others available on request)
Outlet thread:	M26x2 (others available on request)
Air consumption:	736 Nl/min
Max drive pressure:	10bar
Weight:	40 kg
Storage temperature:	-30°C > + 70°C
Operative Temperature:	-5°C > + 40°C
Overall dimensions (mm):	h 366 / w 528 / d 687



CODIFICATION

Model	Configuration	SKU
FGB06	6 outlet, max filling pressure 230bar	FGB06-230

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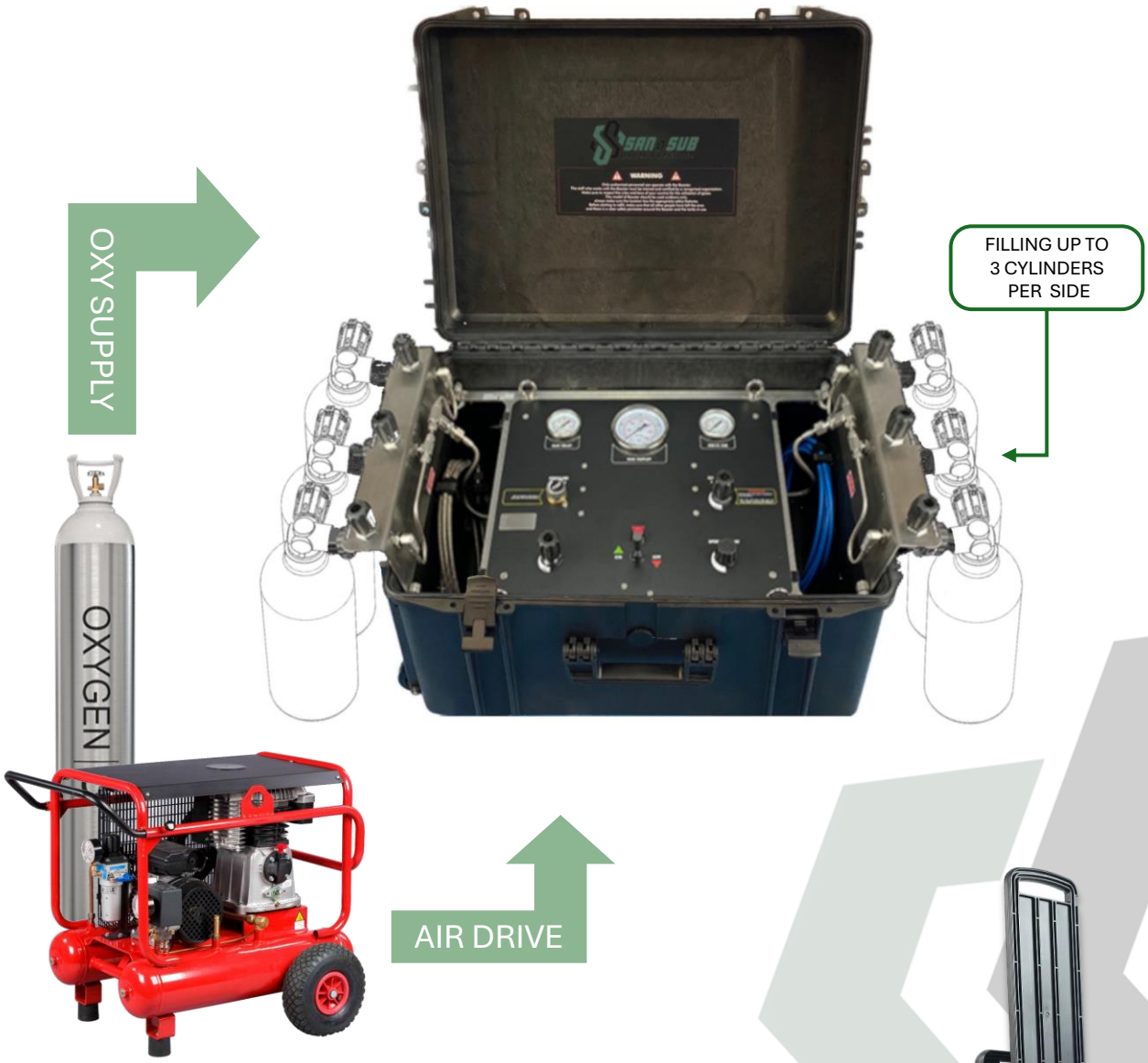
SCHEME



IP67
RATING

MILSPECS
DEF STAN 81-41
STANAG 4280
MIL STD 810G

TECNICAL DATA CONTAINER

- Watertight seal around lid
- Automatic pressure release valve
- Easy to open double throw latches
- Stackable interlocking system
- Thick body material
- Load tested soft grip handle
- Thick body material
- Extra fixing points
- Fully length hinges
- Nylon pins, corrosion free

QUALITY SYSTEM CERTIFIED ISO 9001:2015