Faber HP100

Faber HP100 Steel Tank - Gun Metal Gray User Manual

Model: HP100

1. Product Overview

The Faber HP100 Steel Tank is a high-performance diving cylinder designed for recreational and technical diving. Manufactured by Faber, a leader in diving cylinder technology, this tank offers superior durability, optimal buoyancy characteristics, and versatility for various diving applications. Its robust construction and nitrox compatibility make it an essential component for divers seeking reliability and extended underwater time.



Image: The Faber HP100 Steel Tank in Gun Metal Gray, shown with its convertible Pro valve and protective boot. This image illustrates the complete product assembly.

2. Key Features

- **Maximum Air Capacity:** Enjoy extended dives with a high-pressure steel tank, tested to 3442 psi (237 bar), ensuring ample air supply for longer underwater explorations.
- **Superior Durability:** Crafted from Chromium Molybdenum Steel, this tank features a Zinc-sprayed layer with Epoxy &

Polyurethane paint, offering exceptional corrosion resistance in harsh marine environments.

- **Customizable Valve Options:** Equipped with a convertible valve made from Chromed Brass, this tank supports both Yoke and DIN configurations, providing flexibility for various regulator setups.
- **Optimal Buoyancy Control:** Achieve better underwater stability with a full tank buoyancy ranging from -8.05 to -9.08 lbs (-3.65 to -4.11kg), enhancing your diving experience and safety.
- **Nitrox Compatibility:** Dive confidently with support for up to 40% oxygen Nitrox mixtures, broadening your diving capabilities for enriched air diving experiences.

3. Setup and Assembly

Proper setup of your Faber HP100 Steel Tank is crucial for safe diving. Always ensure all components are clean and free of debris before assembly.

1. **Inspect the Tank and Valve:** Before each use, visually inspect the tank for any signs of damage, corrosion, or dents. Check the valve for any obstructions, O-ring integrity, and proper thread condition.
2. **Valve Configuration:** The included Pro valve is convertible between Yoke and DIN. Ensure the valve is configured correctly for your regulator type. For Yoke, ensure the insert is in place. For DIN, remove the insert. Refer to your regulator's manual for specific connection requirements.
3. **Attach Regulator:** Carefully attach your first-stage regulator to the tank valve. Ensure the O-ring is properly seated and tighten the connection securely by hand. Do not overtighten.
4. **Air Fill:** Have the tank filled by a certified air fill station. Ensure the fill pressure does not exceed 3442 psi (237 bar). For Nitrox fills, verify the oxygen percentage and ensure the tank is oxygen-clean if filling with mixtures above 21% oxygen.
5. **Install Tank Boot:** The tank comes with a protective boot. Slide the boot onto the bottom of the tank to provide stability when standing upright and protection against impact.



Image: A detailed view of the Faber HP100's Pro valve, highlighting its robust construction and the 3000 psi service pressure marking. This valve is convertible for Yoke and DIN regulator connections.

4. Operating Instructions

Using your Faber HP100 Steel Tank safely and effectively requires adherence to standard diving practices and proper handling.

- **Pre-Dive Check:** Before entering the water, perform a thorough pre-dive safety check (BWRAF or similar) including checking air pressure, ensuring the valve is fully open, and verifying no leaks.
- **Buoyancy Management:** The steel construction of the HP100 tank provides negative buoyancy throughout the dive, reducing the need for excessive lead weight. Adjust your weighting system to achieve neutral buoyancy at depth and a safe ascent.
- **Air Consumption:** Monitor your air consumption regularly throughout the dive. Plan your dive profile to ensure you have sufficient air for the entire dive, including ascent and safety stops.
- **Post-Dive:** After the dive, close the tank valve before disconnecting your regulator. This prevents water or debris from entering the valve.

5. Maintenance

Regular maintenance extends the life of your Faber HP100 Steel Tank and ensures its safe operation.

- **Rinsing:** After each dive, thoroughly rinse the tank and valve with fresh water, especially after saltwater exposure. Pay attention to the valve opening and threads.

- **Drying:** Allow the tank and valve to air dry completely before storage. Store in a cool, dry place away from direct sunlight and chemicals.
- **Visual Inspection (VIP):** Have your tank visually inspected by a certified technician annually. This inspection checks for internal and external corrosion, damage, and valve integrity.
- **Hydrostatic Testing:** Diving cylinders require hydrostatic testing every five years (or as mandated by local regulations) to ensure structural integrity under pressure. Ensure this is performed by a certified facility.
- **Valve Service:** The tank valve should be serviced periodically by a qualified technician, typically during annual VIP or if any issues are observed.

6. Troubleshooting

This section addresses common issues you might encounter with your diving tank.

Problem	Possible Cause	Solution
Air Leak at Regulator Connection	Damaged or missing O-ring, improper regulator seating, loose connection.	Replace O-ring, ensure regulator is seated correctly, tighten connection. If leak persists, have valve or regulator inspected by a professional.
Tank Not Holding Pressure	Valve leak, tank damage, faulty burst disk.	Do not use the tank. Have it immediately inspected and repaired by a certified service center.
Difficulty Opening/Closing Valve	Corrosion, debris, damaged valve mechanism.	Do not force the valve. Have it serviced by a qualified technician.

For any issues not listed or if solutions do not resolve the problem, contact a certified diving equipment service center or Faber customer support.

7. Specifications

Attribute	Detail
Model Number	HP100
Brand	Faber
Material	Chromium Molybdenum Steel
Working Pressure	3442 psi (237 bar)
Empty Weight	Approximately 38.5 Pounds (17.46 kg)
Dimensions (LxWxH)	31 x 9 x 8.25 inches (approximate, without boot/valve)
Buoyancy (Full)	-8.05 lbs to -9.08 lbs (-3.65 kg to -4.11 kg)
Buoyancy (Empty)	-1.74 lbs to +1.45 lbs (-0.79 kg to +0.66 kg)
Valve Type	Convertible Pro Valve (Yoke/DIN)
Nitrox Ready	Yes, up to 40% oxygen premixed

Attribute	Detail
Date First Available	May 28, 2014

8. Warranty and Support

For information regarding the warranty of your Faber HP100 Steel Tank, please refer to the warranty card included with your purchase or visit the official Faber website. For technical support, service, or parts, please contact your authorized Faber dealer or a certified diving equipment service center.

Manufacturer: Faber

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