

OPTIMAX MarineTech Series

Underwater Lift Bags – Professional Salvage & Bouyancy Solutions



The Optimax **MarineTech Underwater Lift Bags** are engineered for demanding marine salvage, commercial diving, and subsea construction work. Built with military-grade materials and certified manufacturing processes, these lift bags deliver dependable buoyancy, safe underwater handling, and robust performance across all depths.

Designed for **deepwater salvage, pipeline installation, static buoyancy support, subsea rigging, and marine rescue operations**, the Optimax lift bag range provides professional divers with an essential tool for controlled lifting, re-floatation, and underwater maneuvering.

Features and Benefits



Heavy-Duty Construction

- Fabric: **PVC-coated high-tenacity polyester**, tensile strength $\geq 10,000\text{N} / 5\text{ cm}$
- Resistant to abrasion, seawater, UV, and marine environmental exposure



Intelligent Buoyancy Control

- **Top-mounted Dump Valve**
 - Operated by bottom rope
 - Easy and precise buoyancy adjustment
- **Open-Bottom Parachute Design**
 - Automatically vents excess air
 - Eliminates risk of over-inflation



Stable and Secure Lifting

- **Single-Point Lifting Ring**
 - All harness webbing converges to one lifting point
 - Ensures vertical stability during ascent
 - Reduces diver workload and risk during operation



Certification Options

Third-party certification available upon request: **ABS, Lloyd's Register (LR), Bureau Veritas (BV)**



Safety Compliance

- **Meets IMCA D016** (latest edition) for design, production, and testing
- **Safety Factor $\geq 5:1$** , ensuring safe operation under high load
- **Webbing Harness Safety Factor 7:1**, with certified lifting harness and end shackles



Premium Manufacturing Technology

RF (Radio Frequency) High-Frequency Welded Seams

- Zero-glue construction
- Stronger, uniform weld integrity
- Superior long-term durability

Applications

Our underwater lift bags are suitable for a wide range of professional marine tasks:



Deepwater salvage & re-floatation

Delivers controlled buoyancy for safe recovery and re-floatation of submerged assets in deepwater environments.



Commercial & military diving operations

Supports professional dive teams with reliable buoyancy and secure attachment for underwater recovery, rigging, and mission-critical lift tasks.



Static buoyancy support for subsea structure

Provides stable, long-duration buoyancy to support, balance, or offload subsea structures during installation and maintenance.



Pipeline laying, alignment, and floatation

Provides stable buoyancy and controlled positioning to support accurate pipeline laying, alignment, and underwater installation.



Subsea rigging & controlled lifting operations

Precision-engineered for subsea work, providing stable rigging and controlled lift for safe, accurate handling of underwater loads.



Marine salvage pontoons & heavy object recovery

High-capacity pontoons delivering stable buoyancy and controlled lift for efficient recovery of heavy submerged assets.



Boat and hull lifting airbags

Purpose-built for controlled marine recovery, these airbags deliver stable buoyancy to safely elevate submerged boats and hull structures while minimizing hull stress and ensuring precise lift management.

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PRODUCT OVERVIEW

Optimax MarineTech lift bags use the **Parachute-Type Open-Bottom Design**, providing:

- Stable, vertical lifting characteristics
- Safer operation at any depth
- Over-pressure protection through automatic air release
- Smooth venting control for precise buoyancy adjustment

This design is preferred for **scuba diving re-floatation, salvage, and deepwater retrieval**, due to its simplicity, inherent safety, and operational reliability.

Specifications

Type	Model	Lift Capacity		Dimension (m)		Dump Valves	Appr, Packed Size (m)			Appr, Weight Kgs
		Kgs	LBS	Dia	Height		Length	Width	Height	
Commercial Lifting Bags	OBP-25L	25	55	0.4	0.8	Yes	0.3	0.1	0.1	2
	OBP-50L	50	110	0.5	0.9	Yes	0.4	0.15	0.15	3
	OBP-100L	100	220	0.6	1.1	Yes	0.45	0.15	0.15	4
	OBP-250L	250	550	0.8	2	Yes	0.54	0.2	0.2	5
	OBP-500L	500	1,100	1.2	2	Yes	0.6	0.23	0.23	8
Professional Lifting Bags	OBP-1	1,000	2,200	1.3	2.4	Yes	0.8	0.4	0.3	15
	OBP-2	2,000	4,400	1.8	2.6	Yes	0.8	0.4	0.3	23
	OBP-3	3,000	6,600	1.6	4	Yes	1.2	0.4	0.3	35
	OBP-SLD	5,000	11,000	2	3.8	Yes	1.2	0.5	0.3	42
	OBP-SHD	5,000	11,000	2	3.8	Yes	1.2	0.5	0.3	42
	OBP-6	6,000	13,200	2.3	3.4	Yes	1.2	0.6	0.5	52
	OBP-8	8,000	17,600	2.4	3.6	Yes	1.2	0.7	0.5	60
	OBP-10	10,000	22,000	2.5	4.6	Yes	1.3	0.6	0.5	80
	OBP-15	15,000	33,000	3	4.3	Yes	1.3	0.7	0.5	120
	OBP-20	20,000	44,000	3.4	5.6	Yes	1.3	0.7	0.6	160
	OBP-25	25,000	55,000	3.9	6	Yes	1.4	0.8	0.7	180
	OBP-30	30,000	66,000	4	6.3	Yes	1.4	1	0.8	210
	OBP-35	35,000	77,000	4.2	6.5	Yes	1.4	1.2	1.3	230
	OBP-50	50,000	110,000	5	7.5	Yes	1.5	1.4	1.3	300

DooFlex Parachute Type Lifting Bags

Note: Other size can be supplied upon request.
The drawing just for your reference. Please refer our technical data sheet.



USA: California Proposition 65

⚠️ WARNING: Cancer and Reproductive Harm –
www.P65warnings.ca.gov



Literature Number Underwater lift bags.

Supersedes New

Stock location Online / Boston

Since Optimax Controls has a policy of continuous product improvement, it reserves the right to change design and specifications without notice.

For more information contact your local district office or e-mail us at info@optimaxcontrols.com