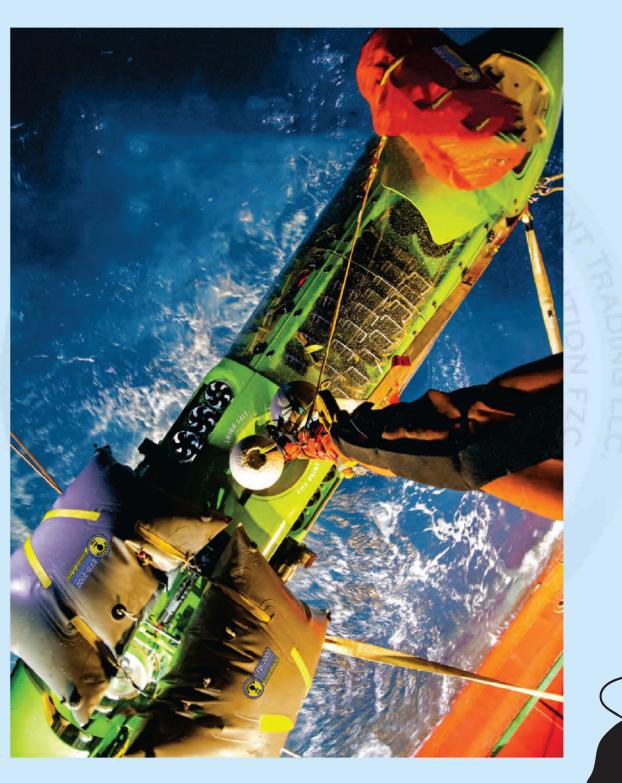


UAE • UK • INDIA • AZERBAIJAN

## SY-UNDERWATER LIFT BAGS

## UNDERWATER LIFT BAGS ENGINEERED FROM THE BOTTOM UP!



**INNOVATORS IN BUOYANCY AND ENGINEERED INFLATABLES** 





S





UAE•UK•INDIA•AZERBAIJAN

C-500

C-200

C-100

## SY-UNDERWATER LIFT BAGS

#### **COMMERCIAL LIFT BAGS**



Commercial Lift Bag replacing a fl angeplate at the Atlanta Aquarium.



Commercial Lift Bags lifting artifacts from Sir Captain Morgan's shipwreck.



Commercial Lift Bags being used in the NASA Neutral Buoyancy Lab -International Space Station mock up.

#### **Multiple Applications**

- Light salvage
- Object recovery
- Underwater construction
- Scientifi c research

#### **Excellent portability**

- Fraction of the cost of a barge or crane
- Easy for a single diver to use
- Especially suited for remote
- locations
- Deployable from small craft

#### Easy to use

- Proprietary SUBSALVE USA Plunger
- Dump Valve allows air

control with a push of a button at the top of the bag and a

lanyard at the bottom—vent air from above, beside, or

below the lifting bag to achieve desired ascent rate.

• 1/4" NPT infl ation port for remote fi lling, multiple bag manifolding, or to install optional

stainless steel quick disconnect.

• Ready for immediate use—factoryequipped with all necessary hardware.

#### Fabric

- Urethane-coated nylon—high-
- strength and heavy-duty
- Superior abrasion resistance
- Resistant to most petro-chemicals
- UV-resistant
- Low maintenance requirements and easy to clean
- RF welded seam







#### Lift Straps Designed for Safety

- 6000lb. -load rated high strength resin-treated nylon webbing
- Sewn directly to the bottom of the bag
- Safe working ratio of 6:1

Model	Lift Capacity	Diameter	Overall Height	Packaged Cubic Dimension	Weight
	2				
SY-C-100	120lb/55kg	16in/0.41m	30in/0.77m	14inx10inx6in/.	5lb/2.27kg
				36mx.26mx.15m	
SY-C-200	220lb/100kg	22in/0.56m	36in/0.92m	15inx11inx7in/.	7lb/3.18kg
	7			38mx.28mx.18m	
SY-C-500	550lb/250kg	29in/0.74m	43in/1.07m	15inx11inx7in/.	12lb/5.45kg
	_			38mx.28mx.18m	

- Each SUBSALVE USA lift bag is tested prior to shipping.
- Custom sizes available.
- All Subsalve USA products are compliant with IMCA D-016-AIRBAGS, ABS, U.S.

Department of Defense St andards.





#### **PROFESSIONAL LIFT BAGS**



Professional lift bags used to lift a 100 ton concrete abutment during the Big Dig tunnel construction in Boston.



Raising a 100 ft sailboat using PF-12000's in Bora Bora.



Raising the Spiegel Grove, a 510 ft U.S. Navy troop transport ship.

#### **Innovative Design**

• When the U.S. Navy asked us to develop a fl otation device that would dependably

withstand particularly abusive conditions, SUBSALVE USA produced the 5-ton Deep

Ocean Lift Bag, which has unprecedented strength, low elasticity and superior resistance

to abrasion and chemical attack. It became our standard Professional Lift Bag design.

#### **Multiple Applications**

• Our most versatile and easy-to-use, these open-bottom, parachuteshaped lift bags

with a single attachment point are essential in construction, heavy and light salvage

and many off shore tasks.

• "Inverted water droplet" design facilitates maximum lift capacity with least possible

weight, with stress distributed evenly over the fabric surface.

- Equipped with all the necessary hardware and ready for immediate use.
- Each SUBSALVE USA lift bag is tested prior to shipping.

#### Fabric

- · Urethane-coated nylon—high-strength and heavy-duty
- · Superior abrasion resistance
- · Resistant to most petro-chemicals
- · UV-resistant
- · Low maintenance requirements and easy to clean
- $\cdot$  RF welded seams







## PF-100000 PF-70000 PF-40000 PF-20000 PE-12000 PF-10000 PF-6000

## Easy to use

- Proprietary Plunger Dump Valve air control with push-button at top of bag and lanyard at bottom. Vent air from above, beside or below lift bag to achieve desired ascent rate as well as 1/4" NPT infl ation
- port.
- Below 2 tons
- Multiple nylon lift straps sewn directly to bottom of lift bag,
- which bears load and provides safe working ratio of 6:1.
- 2 tons and over
- Designed with a replaceable heavy-duty nylon webbing lift harness fabricated into

the skin of the bag, which bears the load and provides a safe working ratio of 6:1.

• Fitted with a 3/4" NPT infl ation port with quick disconnect or cam lock fitting and a 3/4"

Model	Lift	Diameter	Overall	Packaged	Weight
WOUCI		Diameter		•	weight
	Capacity		Height	Cubic Dimension	
SY-PF-1000	1100lb/	35in/0.90m	56in/	18inx13inx10in/.	17lb/7.7kg
	500kg		1.44m	46mx.33mx.26m	
SY-PF-2000	2200lb/	48in/1.22m	59in/	20inx15inx9.5in/.	30lb/13.6kg
	1000kg		1.50m	51mx.38mx.29mm	
SY-PF-4000	4400lb/	54in/1.38m	94in/	24inx24inx24in/.	50lb/22.7kg
	2000kg		2.41m	61mx.61mx.61m	
SY-PF-6000	6600lb/	61in/1.56m	108in/	41inx41inx8in/1.	80lb/36.3kg
	3000kg		2.77m	04mx1.04mx.21m	
SY-PF-10000	11000lb/	72in/1.83m	120in/	41inx41inx8in/1.	105lb/47kg
	5000kg		3.05m	04mx1.04mx.25m	
SY-PF-12000	13200lb/	80in/1.79m	130in/	41inx41inx12in/1.	125lb/56.7kg
	6000kg		3.33m	04mx1.04mx.31m	
SY-PF-20000	22000lb/	93in/2.38m	146in/	41inx48inx18in/1.	190lb/86.2kg
	10000kg		4.10m	04mx1.23mx.46m	
SY-PF-40000	44000lb/	120in/3.07m	201in/	41inx48inx24in/1.	325lb/147.7kg
	20000kg		6.16m	04mx1.23mx.62m	
SY-PF-70000	77000lb/	144in/3.69m	258in/	41inx48inx38in/1.	410lb/186.9kg
	35000kg		6.77m	04mx1.23mx.97m	
SY-PF-100000	110000lb/	166in/4.22m	316in/	40inx50inx54in/1.	525lb/238kg
	50000kg		8.03m	02mx1.27mx1.37m	

stainless steel ball valve for rapid defl ation.

• Each SUBSALVE USA lift bag is tested prior to shipping.

• Custom sizes available.

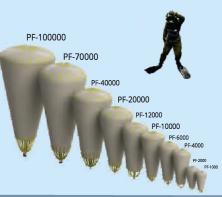






#### **PROFESSIONAL ENCLOSED LIFT BAGS**





#### **Multiple Applications**

 $\cdot$  Versatile and easy-to-use, these enclosed-bottom, parachute-shaped lift bags with

a single attachment point are essential in construction, heavy and light salvage and

many off shore tasks.

• "Inverted water droplet" design facilitates maximum lift capacity with least possible

weight, with stress distributed evenly over the fabric surface.

- · Able to be pre-infl ated when necessary
- $\cdot$  Will not dump air if the bag breaks the surface of the water
- $\cdot$  Pressure relief values at the bottom of the bag avoid over pressurization of the lift bag

· Equipped with all the necessary hardware and ready for immediate use

## Fabric

- · Urethane-coated nylon—high-strength and heavy-duty
- · Superior abrasion resistance
- · Resistant to most petro-chemicals
- · UV-resistant
- · Low maintenance requirements and easy to clean
- · RF welded seams

## Easy to use

· Below 2 tons

– Multiple nylon lift straps sewn directly to bottom of lift bag, which bears load

and provides safe working ratio of 6:1.

- Fitted with a 3/4" NPT infl ation port with quick disconnect or cam lock fi tting and

a 3/4" stainless steel ball valve for rapid defl ation.

- $\cdot$  2 tons and over
- Designed with a replaceable heavy-duty nylon webbing lift harness fabricated into

the skin of the bag, which bears the load and provides a safe working ratio of 6:1.

– Fitted with a 3/4" NPT infl ation port with quick disconnect or cam lock fi tting and

a 3/4" stainless steel ball valve for rapid defl ation





Model	Lift	Diameter	Overall	Packaged	Weight
	Capacity		Height	Cubic Dimension	
SY-PF-1000	1100lb/	35in/0.90m	56in/	18inx13inx10in/.	17lb/7.7kg
	500kg		1.44m	46mx.33mx.26m	
SY-PF-2000	2200lb/	48in/1.22m	59in/	20inx15inx9.5in/.	30lb/13.6kg
	1000kg		1.50m	51mx.38mx.29mm	
SY-PF-4000	4400lb/	54in/1.38m	94in/	24inx24inx24in/.	50lb/22.7kg
	2000kg		2.41m	61mx.61mx.61m	
SY-PF-6000	6600lb/	61in/1.56m	108in/	41inx41inx8in/1.	80lb/36.3kg
	3000kg		2.77m	04mx1.04mx.21m	
SY-PF-10000	11000lb/	72in/1.83m	120in/	41inx41inx8in/1.	105lb/47kg
	5000kg		3.05m	04mx1.04mx.25m	
SY-PF-12000	13200lb/	80in/1.79m	130in/	41inx41inx12in/1.	125lb/56.7kg
	6000kg		3.33m	04mx1.04mx.31m	
SY-PF-20000	22000lb/	93in/2.38m	146in/	41inx48inx18in/1.	190lb/86.2kg
	10000kg		4.10m	04mx1.23mx.46m	
SY-PF-40000	44000lb/	120in/3.07m	201in/	41inx48inx24in/1.	325lb/147.7kg
	20000kg		6.16m	04mx1.23mx.62m	
SY-PF-70000	77000lb/	144in/3.69m	258in/	41inx48inx38in/1.	410lb/186.9kg
	35000kg		6.77m	04mx1.23mx.97m	
SY-PF-100000	110000lb/	166in/4.22m	316in/	40inx50inx54in/1.	525lb/238kg
	50000kg		8.03m	02mx1.27mx1.37m	

Each SUBSALVE USA lift bag is tested prior to shipping.

• Custom sizes available.





#### **ENCLOSED FLOTATION BAGS**



60 ft Yacht salvage using EFB-4000's and EFB-6000's. Photo Credit: Sea Tow Ocean City - Maryland , USA



Recovery of truck that fell through the ice. Timber Bay Scuba -Wisconsin, USA.



B-2000's used for the James Cameron's Deepsea Challenger mission to the bottom of the Mariana Trench.

When you need to fl oat an object close to the surface, use SUBSALVE's "pillow" shaped

Enclosed Flotation Bags in any position—upright or fl at, outside or inside of structures—

for vessel salvage, auto recovery, pipeline and cable installation and emergency fl otation

for ships, aircraft, submersibles and ROVs.

#### Adaptive

- · Confi gure a multitude of rigging combinations.
- $\cdot$  Use with a single pick point (shackle supplied on the bottom of the bag).
- · Invert to use the multiple stainless steel rings on the top of the bag.

## Fabric

- · Urethane-coated nylon—high-strength and heavy-duty
- · Superior abrasion resistance
- · Resistant to most petro-chemicals
- $\cdot$  UV-resistant
- · Low maintenance requirements and easy to clean
- · RF welded seams

#### **Lifting Harness**

- · Heavy nylon lift harness built into the body of the lift bag
- · Safe working ratio of 6:1

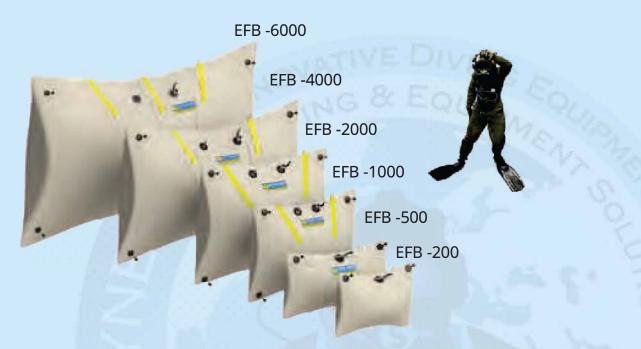
Safe and easy to use

- · Equipped with all necessary hardware—ready for immediate use
- · 3/4" NPT infl ation/defl ation port equipped with ball valve
- · Stainless steel quick disconnect for infl ation
- Pressure relief valves: set to release at 2.5 psi above ambient pressure
- $\cdot$  Enough pressure relief valves are installed in each bag to allow expanding to vent

should a free ascent occur.







Model	Lift	Height	Length	Packaged	Weight	Attachment
-	Capacity			<b>Cubic Dimension</b>		Points
SY-EFB-200	220lb	29in	38in	15inx11inx7in	12lb	1bottom
	100kg	.74m	.97m	.38mx.28mx.18m	5.4kg	
SY-EFB-500	550lb	32in	51in	17inx12inx8in	20lb	2top
	250kg	.82m	1.31m	44mx.31mx.21m	9.1kg	1bottom
SY-EFB-1000	1100lb	44in	51in	18inx13inx10in	32lb	2top
	500kg	1.13m	1.31m	.46mx.33mx.26m	14.5kg	1bottom
SY-EFB-2000	2200lb	55in	60in	20inx15inx9.5in	50lb	2top
	1000kg	1.41m	1.54m	.51mx.38mx.24m	22.7kg	1bottom
SY-EFB-4000	4400lb	69in	75in	22inx15inx13in	70lb	2top
	2000kg	1.77m	1.92m	.56mx.38mx.33m	31.7kg	1bottom
SY-EFB-6000	6600lb	76in	112in	26inx18inx13in	90lb	3top
	3000kg	1.94m	2.87m	.57mx.45mx.33m	40.8kg	1bottom

• Each SUBSALVE USA lift bag is tested prior to shipping.

• Custom sizes available.





#### **ENCLOSED SHALLOW WATER FLOTATION BAGS**



EFB-6000-SW

EFB-4000-SW

EFB-2000-SW

EFB-1000-SW

EFB-500-SV

When you need to fl oat an object in extremely shallow water use SUBSALVE's shallow water "pillow" shaped Enclosed Flotation Bags (also referred to as boulder bags). Utilize them in any position - upright or fl at, outside or inside of structures—for vessel salvage,

auto recovery, pipeline and cable installation and emergency fl otation for ships, aircraft,

submersibles and ROVs.

#### Adaptive

- · Confi gure with a multitude of rigging combinations.
- $\cdot$  Use with a single or multiple attachment points around the perimeter of the bag.

#### Fabric

- · Urethane-coated nylon—high-strength and heavy-duty
- · Superior abrasion resistance
- Resistant to most petro-chemicals
- UV-resistant
- · Low maintenance requirements and easy to clean
- RF welded seams

#### **Lifting Harness**

- · Heavy nylon lift harness built into the body of the lift bag
- · Safe working ratio of 6:1

#### Safe and easy to use

- · Equipped with all necessary hardware—ready for immediate use
- · 3/4" NPT infl ation/defl ation port equipped with ball valve
- Stainless steel quick disconnect for infl ation
- Pressure relief valves: set to release at 2.5 psi above ambient pressure

 Enough pressure relief valves are installed in each bag to allow expanding to vent

should a free ascent occur.





Model	Lift	Height	Length	Packaged Cubic	Weight
	Capacity			Dimension	
SY-EFB-	220lb/	29in/.	38in/.	15inx11inx7in.	12lb/5.4kg
200-SW	100kg	74m	97m	38mx.28mx.18m	
SY-EFB-	550lb/	32in/.	51in/	17inx12inx8in	20lb/9.1kg
500-SW	250kg	82m	1.31m	44mx.31mx.21m	
SY-EFB-	1100lb/	44in/	51in/	18inx13inx10in	32lb/14.5kg
1000-SW	500kg	1.13m	1.31m.	.46mx.33mx.26m	
SY-EFB-	2200lb/	55in/	60in/	20inx15inx9.5in	50lb/22.7kg
2000-SW	1000kg	1.41m	1.54m	51mx.38mx.24m	
SY-EFB-	4400lb/	69in/	75in/	22inx15inx13in	70lb/31.7kg
4000-SW	2000kg	1.77m	1.92m	.56mx.38mx.33m	
SY-EFB-	6600lb/	76in/	112in/	26inx18inx13in	90lb/40.8kg
6000-SW	3000kg	1.94m	2.87m	.57mx.45mx.33m	

Each SUBSALVE USA lift bag is tested prior to shipping.

• Custom sizes available.





#### SALVAGE PONTOONS



SP-70000's raising the Russian K-77 submarine.



SP-70000's and SP-40000's used to reduce the draft of a newly constructed tugboat during launch. Photo Credit: Ocean, Quebec, Canada



SP-6000's used to support a pipeline during installation.

Totally-enclosed, cylindrical bags are ideal for shallow water salvage, reducing the

draft of a vessel or raising an object closer to the surface. They are invaluable in cable

and pipeline operations and where long tows are planned.

#### Fabric

- · Urethane-coated nylon—high-strength and heavy-duty
- Superior abrasion resistance
- Resistant to most petro-chemicals
- UV-resistant
- · Low maintenance requirements and easy to clean
- RF welded seams

#### Fittings

• Replaceable, heavy-duty nylon webbing lift harness is built into the body of the lift bag,

with a safe working ratio of 6:1

 $\cdot\,$  The harness maintains the lift bag in a horizontal position while insuring maximum

stability

- Equipped with shackles, valves and all necessary hardware for immediate use
- $\cdot\,$  3/4" NPT infl ation port with 3/4" stainless steel ball values for infl ation and defl ating
- · Stainless steel quick disconnect for infl ation
- Pressure relief valves set to release at 2.5psi above ambient pressure

Available in both standard cylinder and elongated tubes

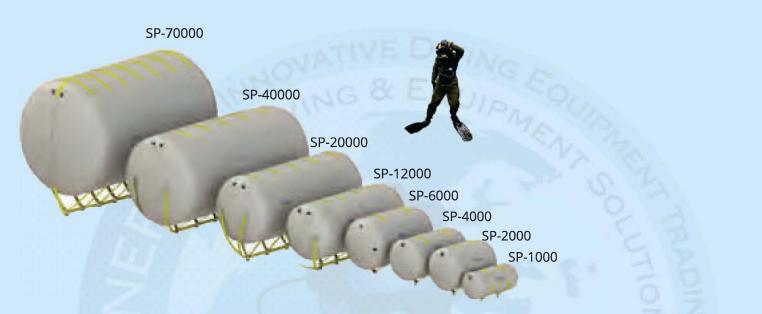
CAUTION: Salvage Pontoons have multiple attachment points. All attachment points

must be connected with the shackles provided, and the load evenly distributed. Large

pontoons may require a separate lifting beam to evenly distribute the load.







Model	Lift	Height	Length	Packaged	Weight	Attachment
	Capacity			<b>Cubic Dimension</b>		Points
SY-SP-1000	1100lb/	28in	48in	20inx15inx9.5in	30lb	2
	500kg	.72m	1.23m	.51mx.38mx.2m	13kg	
SY-SP-2000	2200lb/	42in	52in	22inx15inx13in	50lb	2
	1000kg	1.13m	1.23m	.56mx.38mx.33m	23kg	
SY-SP-4000	4400lb/	44in	78in	26inx18inx13in	80lb	2
	2000kg	1.13m	2.05m	.67mx.46mx.33m	36kg	
SY-SP-6000	6600lb/	53in	68in	41inx41inx12in	97lb	2
	3000kg	1.36m	2.05m	1.05mx1.05mx.31m	44kg	
SY-SP-12000	12200lb	64in	120in	41inx41inx18in	140lb	4
	5500kg	1.54m	3.10m	1.05mx1.05mx.46m	64kg	
SY-SP-20000	22000lb	69in	162in	41inx48inx24in	190lb	4
	10000kg	1.77m	4.15m	1.05mx1.23mx.62m	86kg	
SY-SP-40000	44000lb	92in	181in	41inx48inx38in	325lb	5
	20000kg	2.36m	4.64m	1.05mx1.23mx.97m17	173kg	
SY-SP-70000	77000lb	115in	207in	41inx48inx48in	425lb	7
	35000kg	3.08m	4.77m	1.05mx1.23mx1.23m	193kg	

• Each SUBSALVE USA lift bag is tested prior to shipping.

• Custom sizes available.





#### **SALVAGE PONTOONS - VERTICAL**



Totally-enclosed, cylindrical bags are ideal for shallow water salvage, reducing the

draft of a vessel or raising an object closer to the surface. They are invaluable in cable

and pipeline operations. These bags are rigged with a single bottom and top pick

point with internal strap to allow for the load to be lifted from the top of the bag.

#### Fabric

- · Urethane-coated nylon—high-strength and heavy-duty
- Superior abrasion resistance
- Resistant to most petro-chemicals
- UV-resistant
- · Low maintenance requirements and easy to clean
- · RF welded seams

#### Fittings

• Replaceable, heavy-duty nylon webbing lift harness is built into the body of

the lift bag, with a safe working ratio of 6:1

 $\cdot\,$  The harness maintains the lift bag in a vertical position while insuring

maximum stability

• Equipped with shackles, valves and all necessary hardware for immediate use

• Two 3/4" NPT infl ation ports with 3/4" stainless steel ball valves for infl ation

and defl ation

SPV-2000 · Pressure relief valves set to release at 2.5psi above ambient
 pressure







Model	Lift	Diameter	Height	Packaged Cubic	Weight
	Capacity			Dimension	
SY-SPV-	2200lb/	38in/0.97m	56in/1.42m	22inx15inx13in/.	50lb/23kg
2000	1000kg			56mx.38mx.33m5	
SY-SPV-	4400lb/	48in/1.22m	66in/1.68m	26inx18inx13in/.	80lb/36kg
4000	2000kg			67mx.46mx.33m	
SY-SPV-	6600lb/	59in/1.5m	82in/2.08m	41inx41inx12in/1.	97lb/44kg
6000	3000kg			05mx1.05mx.31m	
SY-SPV-	11000lb/	65in/1.65m	105in/2.67m	41inx41inx16in/1.	130lb/59kg
10000	5000kg			05mx1.05mx.41m	

• Each SUBSALVE USA lift bag is tested prior to shipping.

• Custom sizes available.





#### **CABLE FLOAT/PIPELINE FLOATS**

Cable/Pipeline Float - Salvage Float Balloon

- · Includes 3 stainless steel lift rings and infl ation port.
- · Used for light salvage as well as cable fl otation and suspension
- Part No. SFB-300 Manufactured to US Military specifi cation NSN 2050-00-574-7963

and in accordance to dwg. No. 4563094

Model	Lift	Inflated	Packaged Cubic	Weight
	Capacity	Diameter	Dimension	
SY-SFB-100	110lb/	22in/0.56m	15inx11inx7in/.	6lb/2.7kg
	50kg		38mx.28mx.18m	
SY-SFB-200	220lb/	27in/0.69m	15inx11inx7in/.	8lb/3.6k
	100kg		38mx.28mx.18m	
SY-SFB-300	330lb/	30in/0.76m	18inx13inx10in/.	10lb/4.5kg
	150kg		46mx.33mx.25m	
SY-SFB-500	550lb/	34in/0.86m	24inx18inx10in/.	12lb/5.4kg
-	250kg		61mx.46mx.25m	

## **PROPELLER BAGS**

#### **Prop bag**

1

• Specially designed lift bags used to remove and install boat propellers.

• Available in three standard sizes (100lb, 200lb, 300lb), custom sizes available.

• Each lift bag has 4 lift points and one dump valve with lanyard for manual operation.

Model	Lift	Length	Weight	Height	Packaged Cubic	Weight
	Capacity				Dimension	
SY-PB-100	110lb/	28in	9in	14in	15inx11inx7in	6lb/
	50kg	.71m	.23m	.36m	.38mx.28mx.18m	2.7kg
SY-PB-200	220lb/	36in	12in	18in	18inx13inx10in	8lb/
	100kg	.91m	.31m	.46m	46mx.33mx.25m	3.6k
SY-PB-300	330lb/	b48in	16in	24in	24inx18inx10in	10lb/
	150kg	1.22m	.41m	.61m	.61mx.46mx.25m	4.5kg







#### **BRS-100**



Specially designed for use by law enforcement to recover or remove explosives or other dangerous devices.

- The Bomb Recovery System 100 includes the following.
- · One 25lb fl oat
- · One 50b fl oat
- · One 100lb fl oat
- Each fl oat includes one 2.5psi pressure relief valve and a 1/4in quick disconnect for infl ation.
- · 100ft LP infl ation hose with quick disconnects
- 105ft high strength polypro line with carabiner
- Carry b ag
- Each SUBSALVE USA lift bag is tested prior to shipping.
- Custom sizes available.
- All Subsalve USA products are compliant with IMCA D-016-AIRBAGS, ABS,
- U.S. Department of Defense St andards.





#### WATER LOAD TEST BAG





PF-WLTB-70000

PF-WLTB-40000

PF-WLTB-100000

lin

**Innovative Design** 

• SUBSALVE USA's Water Load Test Bags are constructed using the same technology

used in our world class lift bags. These bags makes it easier to load test structures due

to their very low handling weight and make it possible to test in areas with insuffi cient

access for conventional solid weights.

· Equipped with all the necessary hardware and ready for immediate u

#### Fabric

- · Urethane-coated nylon—high-strength and heavy-duty
- Superior abrasion resistance
- · Resistant to most petro-chemicals
- UV-resistant
- · Low maintenance requirements and easy to c lean
- RF welded seams

#### Easy to use

• PF-WLTB-1000 – PF-WLTB-6000

1 1/4 in NPT port accepts a 1 1/4in discharge hose for fast defl ation.

· PF-WLTB-10000 – PF-WLTB-20000

2in NPT stainless steel fl ange accepts a 2in discharge hose for fast defl ation.

· PF-WLTB-40000 – PF-WLTB-70000

3in NPT stainless steel fl ange accepts a 3in discharge hose for fast defl ation

of the larger water weight test bags.

· PF-WLTB-100000

4in NPT stainless steel fl ange accepts a 4in discharge hose for fast defl ation

of the larger water weight test bags.

## Lift Straps

· Below PF-WLTB-4000

– Multiple nylon lift straps sewn directly to bottom of lift bag, which bears load and provides safe working ratio of 6:1.

· PF-WLTB-4000 and above

– Designed with a replaceable heavy-duty nylon webbing lift harness fabricated into

the skin of the bag, which bears the load and provides a safe working ratio of 6:1.





UAE•UK•INDIA•AZERBAIJAN

## SY-UNDERWATER LIFT BAGS



Model	Lift	Diameter	Overall	Packaged	Weight
	Capacity		Height	Cubic Dimension	
SY-WLTB	1100lb/	35in/0.90m	56in/	18inx13inx10in/.	17lb/7.7kg
-1000	500kg		1.44m	46mx.33mx.26m	
SY-WLTB-	2200lb/	48in/1.22m	59in/	20inx15inx9.5in/.	30lb/13.6kg
2000	1000kg		1.50m	51mx.38mx.29mm	
SY-WLTB-	4400lb/	54in/1.38m	94in/	24inx24inx24in/.	50lb/22.7kg
4000	2000kg		2.41m	61mx.61mx.61m	
SY-WLTB-	6600lb/	61in/1.56m	108in/	41inx41inx8in/1.	80lb/36.3kg
6000	3000kg		2.77m	04mx1.04mx.21m	
SY-WLTB-	11000lb/	72in/1.83m	120in/	41inx41inx8in/1.	105lb/47kg
10000	5000kg		3.05m	04mx1.04mx.25m	
SY-WLTB-	13200lb/	80in/1.79m	130in/	41inx41inx12in/1.	125lb/56.7kg
12000	6000kg		3.33m	04mx1.04mx.31m	
SY-WLTB-	22000lb/	93in/2.38m	146in/	41inx48inx18in/1.	190lb/86.2kg
20000	10000kg		4.10m	04mx1.23mx.46m	
SY-WLTB-	44000lb/	120in/3.07m	201in/	41inx48inx24in/1.	325lb/147.7kg
40000	20000kg		6.16m	04mx1.23mx.62m	
SY-WLTB-	77000lb/	144in/3.69m	258in/	41inx48inx38in/1.	410lb/186.9kg
70000	35000kg		6.77m	04mx1.23mx.97m	
SY-WLTB-	110000lb/	166in/4.22m	316in/	40inx50inx54in/1.	525lb/238kg
100000	50000kg		8.03m	02mx1.27mx1.37m	

• Each SUBSALVE USA lift bag is tested prior to shipping.

• Custom sizes available.





#### **PIPE PLUGGERS**

Nothing temporarily closes

a cavity or seals an opening

better than an infl atable plug.

PIPE PLUGGERS are heavy

duty, infl atable pipe plugs especially designed for use during the construction, maintenance, and repair of pipeline, ducts, and tunnels. PIPE PLUGGERS are constructed

of high tenacity, urethane coated nylon fabric for high strength of over 1000lbs. per inch,

and the urethane coating is resistant to fuel and most other petro-chemicals. Each PIPE

PLUGGER is equipped with rigging hardware, 1/4" to 3/4" infl ation ports, and pressure

relief valves to prevent blow ups. PIPE PLUGGERS are also available with a by-pass design. Stock sizes are available from 12" to 96" diameter. Custom sizes, shapes, and

confi gurations can be designed and manufactured to meet special needs.









Pipe Dia.	Max. Press.	Max. Head		ustat umHead	Volume	Disp.	Length	Weight	Valve
-		ft	psi	tons	ft3	lb	in	lb	in
in	psig 23		22	1.3		138	32	12	
12		52	<u></u>	1.9	2.22	-	-	-	Stem
14	23	52	22		3.9	243	40	15	0.75
16	23	52	22	2.3	5.24	327	44	20	0.75
18	23	52	22	2.9	6.18	386	46	25	0.75
20	22	50	21	3.5	8.2	512	49	28	0.75
22	22	50	21	4	9.9	624	58	33	0.75
24	20	45	19	4.5	13.6	848	60	40	0.75
28	19	43	18	5	18.92	1179	66	44	0.75
30	17	39	17	6	25.42	1584	72	50	0.75
32	16	35	15.2	6.5	30.5	1915	80	55	0.75
34	15	34	14.5	7	31.42	1980	84	57	0.75
36	15	34	14.5	7.5	35.37	2208	87	65	0.75
42	13	30	13	9	65.87	4105	101	96	0.75
48	11	25	11	10	96.48	6021	114	140	0.75
54	9	210	9	10.5	135.42	8448	128	160	0.75
60	8	19	8.5	12	192.08	11987	142	190	0.75
66	7	16	7	12.3	253.66	15850	152	255	0.75
72	6	14	6.2	13	338.8	20085	170	270	0.75
84	6	14	6.2	17	555.1	34500	200	280	0.75
96	5	12	5	20	796.25	49650	210	378	0.75





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## SY-UNDERWATER LIFT BAGS

#### **PHOTO GALLERY**



Draft reduction for newly constructed tugboat launching using Salvage Pontoons 40,000 lbs. and Salvage Pontoons 70,000 lbs.



Custom Vertical Pontoons manufactured to allow accurate horizontal control during large pipe and valve maintenance and assembly



Professional 4,000 lbs. Lift Bags raising 5 ton marble column sections from a 200 BC Roman shipwreck off of Turkey



Divers re-rigging Enclosed Flotation Bags 2,000 lbs. on James Cameron's Deepsea Challenger.



Enclosed Flotation Bags 6,000 lbs. used as pneumatic jacks/skids to remove and re-launch a grounded crewboat.



Raising Wayne Newton's yacht with Professional Lift Bags

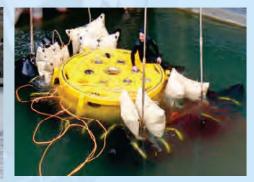
12,000 lbs. and Enclosed Flotation Bags 6,000 lbs. Metropolitan Marine Solutions, Arizona, USA.



Salvage Pontoons 4,000 lbs. being used on an ocean wave energy system.



Fend Air Infl atable Marine Fenders on custom motor yacht.



Lowering instrumentation using Enclosed Flotation Bags 500 lbs. and Enclosed Flotation Bags 6,000 lbs.



Shallow water wreck removal using clusters of Enclosed Flotation Bags 2,000 lbs.





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## SY-UNDERWATER LIFT BAGS



Roof load testing using Enclosed Water Load Test Bags.



Installation of oil pipeline in the Middle East using Salvage Pontoons 6,000 lbs.



Small aircraft salvage using Enclosed Flotation Bags 2,000 lbs.



Yacht salvage using Salvage Pontoons 2,000 lbs. and Salvage Pontoons 20,000 lbs. Photo credit: Vessel Assist -SanDiego.





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## SYNERGY INFRASTRUCTURE





# **Contact us**

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