

# S0300-BV-CAT-010

SALVAGE LIFT BAG, 22,000-POUND

System - S21100



**Overview of Underwater Lift Bag PN0060**

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## Overview of Underwater Lift Bag PN0062

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The Salvage Lift Bag System S21100 provides lifting force for use in underwater salvage situations. There are two basic configurations of this system. Configuration 1 contains an inflatable, closed, parachute-type bag with a 22,050-lb lift capacity. Configuration 2 contains an inflatable, open, parachute-type bag with a 22,000-lb lift capacity. In either configuration the lifting bag can be attached to a sunken object and filled with air to provide buoyancy. Lifting straps attached to the lifting bag are configured to provide a single attachment point. The assigned underwater lift bag is shipped in the ancillary set container that includes inflation hoses, spare parts, rope pendant, and lifting shackles.

## System Components for S21100

Alternates

ESSM No	Nomenclature	Type	Qty	NS	Cont
<b>PN0061</b>	ANCILLARY SET, FOR PN0060 UW LIFT BAG	BL	1		Y
PN0060	UW LIFT BAG, 22,050-LB, DLE-10, W/RELIEF VALVE	Contents	1		
<b>PN0064</b>	ANCILLARY SET, FOR PN0062/PN0060A UW LIFT BAG	BL	1		Y
PN0062	UW LIFT BAG, 22,000-LB, PF 20000, OPEN BOTTOM	Contents	1		
PN0060A	UW LIFT BAG, 22,050-LB, DLE-10, W/MNL DUMP V	ALTN			

Baseline verified on 9/30/2014, \* Not shown in catalog.

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## ESSM - PN0061 ANCILLARY SET, FOR PN0060 UW LIFT BAG



Ancillary Set For PN0060 UW Lift Bag

The Ancillary Set PN0061 contains a pontoon, fittings, valves, rigging components, inflation/deflation instructions, and a lift bag inflation/deflation procedure in a storage container necessary to configure one 22,050-lb Underwater Lift Bag PN0060 for operation.

Specifications		
Type	Description	Qty
Manufacturer	ESSM Facility	
Model	PN0061	
The set contains the following major items:		
Storage container, 49" x 41" x 42":		1
UW Lift Bag, 22,050-lb, Model DLE-10	PN0060	1
Hose assembly, long whip, 20'		1
Hose assembly, short whip, 46"		1
Inventory, laminated		1
Link, master, oblong, 1 1/4" x 11 1/4"	WLL = 35,160 lb	1
Pendant w/tmbs, rope-lifting, 1 15/16" x 22'	SWL = 25,000 lb	1

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## Specifications

Type	Description	Qty
Procedure, laminated, "Lift Bag ifl/def"		1
Shackle, anchor, screw pin, 12-ton, 1 1/4"		3

## Physical Characteristics

Type .....	Descriptions .....		
	Shipping		
Length	4 ft, 1 in		
Width	3 ft, 5 in		
Height	3 ft, 6 in		
Cube	49 cu ft		
Footprint	14 sq ft		
Weight	508 lb		

## References

Ref No	Reference
1	None

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## ESSM - PN0060 UW LIFT BAG, 22,050-LB, DLE-10, W/RELIEF VALVE



UW Lift Bag PN0060

The 22,050-Lb Underwater Lift Bag is an inflatable, parachute-shaped bag used for lifting heavy objects in the water. The maximum ascent rate under load for the lift bag is 66 ft/min. The total safe working load (SWL) for the lifting straps is 24,000 lb. The lift bag is stored and shipped in its Ancillary Set PN0061 container, along with its rigging and inflation equipment.

During lift operations, the rope-lifting pendant (sometimes referred to as the lazy pendant) is rigged from the lifting shackle to the top of the lift bag and secured with a cable tie. During underwater lifting the pendant is not under tension. When the object is brought to the surface, the cable tie is cut and the pendant's upper hard eye is attached to a crane's hook to allow the lifting pendant to take a strain on the lifted object. This allows the lift bag to be unrigged without losing control of the salvaged object.

Specifications		
Type	Description	Qty
Manufacturer	Canflex	
Model	DLE-10	
Lifting capacity:		
Rated	22,050 lb	
Tested	25,000 lb	
Relief valve setting:		
Top	5.5 psig/ 7.5 psig (bags purchased after 1991)	
Side	3.0 psig	

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## Physical Characteristics

Type .....	Descriptions .....		
	Shipping	Operating	
Length	3 ft, 10 in		
Width	3 ft, 5 in		
Height	3 ft, 6 in	13 ft, 0 in	
Diameter		8 ft, 6 in	
Cube	46 cu ft		
Footprint	14 sq ft		
Weight	508 lbs		

## References

Ref No	Reference
1	NAVSEA Dwg 6777279, Underwater Lift Bag 22,050 LB Model DLE-10

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## ESSM - PN0064 ANCILLARY SET, FOR PN0062/PN0060A UW LIFT BAGS



Ancillary Set, For PN0062/PN0060A UW Lift Bags

The Ancillary Set PN0064 contains an underwater lift bag, fittings, valves, rigging components, and drawings in a storage container necessary to configure one 22,000-Lb Underwater Lift Bag PN0062 for operation.

### Specifications

Type	Description	Qty
Manufacturer	ESSM Facility	
Model	PN0064	
The set contains the following major items:		
Storage container, 49" x 41" x 42":		1
Cable tie, 11"		10
Hose assembly, 3/4" x 20", w/ qd fittings		1
Hose assembly, 3/4" x 4", w/ ball valve		1
Inventory, laminated		1
Lazy pendant, 1 1/16" x 21", w/ hard eyes	SWL 23,000 lb	1
Shackle, bolt-type, 1 1/4", 12-ton WLL		1



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## Specifications

Type	Description	Qty
UW Lift Bag, 22,000-Lb, Model PF20000	PN0062	1

## Physical Characteristics

Type .....	Descriptions .....		
	Shipping		
Length	4 ft, 1 in		
Width	3 ft, 5 in		
Height	3 ft, 6 in		
Cube	49 cu ft		
Footprint	14 sq ft		
Weight	440 lb		

## References

Ref No	Reference
1	None

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## ESSM - PN0062

### UW LIFT BAG, 22,000-LB, PF 20000, OPEN BOTTOM



UW Lift Bag PN0062

The 22,000-Lb Underwater Lift Bag PN0062 is an inflatable, parachute-shaped bag used for lifting heavy objects in the water. This bag has an open bottom to allow the internal pressure within the bag to remain equalized with sea water pressure as the lift bag's buoyancy lifts the object from the sea floor. This precludes the possibility of over-pressurizing the lift bag during ascent. The lift bag may be inflated either from the top-mounted LP air connection or through the open bottom. The lift bag may be deflated by spilling the lift air from the open bottom, or by opening the top-mounted vent valve. The total safe working load (SWL) for the lifting straps is 22,000 lb. The lift bag is stored and shipped in its Ancillary Set PN0064 container, along with its rigging and inflation equipment.

During lift operations, the rope-lifting pendant (sometimes referred to as the lazy pendant) is rigged from the lifting shackle to the top of the lift bag and secured with a cable tie. During underwater lifting the pendant is not under tension. When the object is brought to the surface, the cable tie is cut and the pendant's upper hard eye is attached to a crane's hook to allow the lifting pendant to take a strain on the lifted object. This allows the lift bag to be unrigged without losing control of the salvaged object.

#### Specifications

Type	Description	Qty
Manufacturer	SUBSALVE	
Model	PF	
Lifting capacity:	22,000 lb	
Gathering strap shackle	7/8" screw pin shackle, 6-ton WLL	
Lifting shackle	1-1/4", 12-ton WLL	

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## Physical Characteristics

Type .....	Descriptions .....		
	Shipping	Operating	
Length	4 ft, 1 in		
Width	3 ft, 5 in		
Height	3 ft, 6 in	9 ft, 0 in	
Diameter		7 ft, 6 in	
Cube	49 cu ft		
Footprint	14 sq ft		
Weight	440 lbs		

## References

Ref No	Reference
1	None

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## ESSM - PN0060A UW LIFT BAG, 22,050-LB, DLE-10, W/MNL DUMP VALVE



UW Lift Bag PN0060A

### Specifications

Type	Description	Qty
Manufacturer	Canflex	
Model	DLE-10	
Lifting capacity:		
Rated	22,050 lb	
Tested	25,000 lb	

### Physical Characteristics

Type .....	Descriptions .....		
	Shipping		
Length	4 ft, 1 in		
Width	3 ft, 5 in		
Height	3 ft, 6 in		
Cube	49 cu ft		
Footprint	14 sq ft		
Weight	440 lb		

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## References

Ref No	Reference
1	NAVSEA Dwg 6777279, Underwater Lift Bag 22,050 LB Model DLE-10