



**Boom Mooring System P04100**

# S0300-BV-CAT-020

## BOOM MOORING SYSTEM

System - P04100

The Boom Mooring System P04100 is comprised of a 500- or 1000-pound anchor, a mooring buoy, a crown buoy, chain, wire rope, and polypropylene line. The system is designed to hold the SUPSALV Oil Containment Boom in position around a casualty vessel or elsewhere in water depths up to 200 feet, against a 3-knot current.

## System Components for P04100

Alternates

ESSM No	Nomenclature	Type	Qty	NS	Cont
<b>MS0000*</b>	BOOM MOORING SYSTEM, W/ANCHOR	BL Generic	1		
<b>MS0009</b>	MOORING SYSTEM, BOOM, W/500-LB ANCHOR	ALTN			Y
AN0152	ANCHOR, STATO, 500-LB, FLDG STAB, SHORT MUD PALM	Contents	1		
BU0140	BUOY, MOORING, 5000 LB BUOYANCY	Contents	1		
BU0320	BUOY, CROWN, 350 LB BUOYANCY, 24" X 36"	Contents	1		
CH1093	CHAIN, STUD LINK, 2 1/4" X 90'	Contents	1		
CH0002	CHAIN, CAST STEEL, 2 1/4" X 90'	ALTN			
CH0040	CHAIN, DI-LOK, 2 1/4" X 90'	ALTN			
<b>MS0011</b>	MOORING SYSTEM, BOOM, W/1000-LB ANCHOR	ALTN			Y
AN0153	ANCHOR, STATO, 1000-LB, FLDG LWT STAB	Contents	1		
BU0140	BUOY, MOORING, 5000 LB BUOYANCY	Contents	1		
BU0320	BUOY, CROWN, 350 LB BUOYANCY, 24" X 36"	Contents	1		
CH1093	CHAIN, STUD LINK, 2 1/4" X 90'	Contents	1		
CH0002	CHAIN, CAST STEEL, 2 1/4" X 90'	ALTN			
CH0040	CHAIN, DI-LOK, 2 1/4" X 90'	ALTN			

Baseline verified on 7/5/2017, \* Not shown in catalog.

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## ESSM - MS0000\* BOOM MOORING SYSTEM, W/ANCHOR

### Physical Characteristics

Type .....	Descriptions .....		
	Shipping		
Start here			

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## ESSM - MS0009 MOORING SYSTEM, BOOM, W/500-LB ANCHOR



Boom Mooring System MS0009

The Boom Mooring System MS0009 consists of various components that include a mooring buoy, a crown buoy, a 500-lb anchor, chain, wire rope, and polypropylene line. The Boom Mooring System is designed to hold boom in position around a casualty vessel or in any area where water depths do not exceed 200 feet and currents do not exceed three knots. Three Boom Mooring Systems are required to hold 1000 feet of boom in position.

Specifications		
Type	Description	Qty
Operating depth	Up to 200 ft	
Mooring buoy	BU0140	1
Weight	700 lb	
Buoyancy	5000 lb	
Rated pull-through	10,000 lb	
Dimensions	4 ft diameter x 7 ft, 4 in long	
Crown buoy	BU0320	1
Weight	110 lb	
Buoyancy	350 lb	
Rated pull-through	10,000 lb	
Dimensions	2 ft diameter x 3 ft long	
Mooring buoy		1

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## Specifications

Type	Description	Qty
Weight	18 lb	
Buoyancy	49 lb	
Dimensions	8" dia x 15"	
<b>Anchor (500-lb)</b>	<b>AN0152</b>	<b>1</b>
Type	Stato w/folding stabilizers	
Shaft length	4 ft, 2 1/2 in	
Fluke length	2 ft, 4 in	
Stabilizer length	1 ft, 6 in	
Fluke angle	34° w/ wedges; 50° w/out wedges	
Holding power (calculated)	8800 lb in mud; 12,500 lb in sand; questionable in rocks or coral	
<b>Chain</b>	<b>CH1093</b>	<b>1</b>
Type	Stud link, anchor, low alloy steel, flash butt-welded (MIL-C-24633)	
Size	2 1/4 in or 2 5/16 in diameter links, 90 ft long	
Weight	4250 lb	
<b>Wire rope</b>		<b>5</b>
Size	5/8 in diameter	
Working load	5680 lb	
<b>Polypropylene rope</b>		<b>11</b>
Size	6 in crcmf	
Working load	7333 lb	
<b>Polypropylene rope</b>		<b>4</b>
Size	1 1/2 in crcmf	
Working load	633 lb	

## Physical Characteristics

Type .....	Descriptions .....		
	Shipping		
Length	8 ft, 4 in		
Width	4 ft, 0 in		
Height	8 ft, 4 in		
Cube	278 cu ft		
Footprint	34 sq ft		
Weight	8100 lbs		

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## References

Ref No	Reference
1	Operations and Maintenance Manual, Oil Containment Boom and Boom Mooring System, S9597-ACMMO-010

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## ESSM - AN0152 ANCHOR, STATO, 500-LB, FLDG STAB, SHORT MUD PALM



500-Lb Stato Anchor with Short Mud Palm and Folding Stabilizers AN0152

The 500-Lb Stato Anchor with Short Mud Palm and Folding Stabilizers AN0152 was developed for use in both sand and mud bottoms. The anchor incorporates design characteristics that enhance burial and increase holding power.

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### Specifications

Type	Description	Qty
Manufacturer	Various, U.S. Navy Design	
Type	500 lb Stato	

### Physical Characteristics

Type .....	Descriptions .....		
	Shipping	Operating	
Length	4 ft, 8 in	4 ft, 8 in	
Width	2 ft, 8 in	2 ft, 8 in	
Height	1 ft, 9 in	1 ft, 9 in	
Cube	22 cu ft	22 cu ft	
Footprint	13 sq ft	13 sq ft	
Weight	500 lbs	500 lbs	

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## References

Ref No	Reference
1	NAVSEA Drawing 5020673 - Anchor, Stato Mooring, 500Pound



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## ESSM - BU0140 BUOY, MOORING, 5000-LB BUOYANCY



Mooring Buoy BU0140

The Mooring Buoy BU0140 is designed to provide buoyancy to the anchor line so that boom or boats can be fastened to the Boom Mooring System.

### Specifications

Type	Description	Qty
Manufacturer	Seaward International	
Material	Polyethylene foam/urethane cover	
Buoyancy	5000 lb	
Rated pull-through	10,000 lb	
Operating depth	200 feet	

### Physical Characteristics

Type .....	Descriptions .....		
	Shipping		
Length	9 ft, 1 in		
Width	4 ft, 0 in		
Height	4 ft, 0 in		
Cube	146 cu ft		
Footprint	37 sq ft		

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## Physical Characteristics

Type .....	Descriptions .....		
Weight	1030 lb		

## References

Ref No	Reference
1	None

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## ESSM - BU0320 BUOY, CROWN, 350 LB BUOYANCY, 24" X 36"



Crown Buoy BU0320

The Crown Buoy BU0320 marks the location of the anchor and supports the wire rope attached to the crown of the anchor. The anchor crown wire rope is used to break out the anchor for retrieval.

### Specifications

Type	Description	Qty
Manufacturer	Seaward International	
Material	Polyethylene foam/urethane cover	
Buoyancy	350 lb	
Rated pull-through	10,000 lb	
Operating depth	200 feet	

### Physical Characteristics

Type .....	Descriptions .....		
	Shipping		
Length	4 ft, 0 in		
Diameter	2 ft, 0 in		
Cube	16 cu ft		
Weight	228 lb		

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## References

Ref No	Reference
1	None

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## ESSM - CH1093 CHAIN, STUD LINK, 2 1/4" X 90'



2 1/4 x 90CE Stud Link Chain CH1093

The 2 1/4" x 90' Stud Link Chain CH1093 is connected to the anchor shank with a safety shackle and a pear-shaped detachable link. The other end of the anchor chain is attached to a polypropylene anchor line (6" circumference) by another pear-shaped detachable link. The anchor line is then attached to the mooring buoy.

### Specifications

Type	Description	Qty
Manufacturer	Commercial	
Model	Grade 2	
Link size	2-1/4 in	
Proof test load	284,000 lb	
Break test load	396,000 lb	

### Physical Characteristics

Type .....	Descriptions .....		
	Shipping		
Length	5 ft, 2 in		
Width	3 ft, 0 in		
Height	3 ft, 6 in		
Cube	54.25 cu ft		
Footprint	16 sq ft		

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## Physical Characteristics

Type .....	Descriptions .....		
Weight	4940 lbs		

## References

Ref No	Reference
1	Baldt Catalog #30 for Anchors and Chains

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## ESSM - CH0002 CHAIN, CAST STEEL, 2 1/4" X 90'



2 1/4" x 90' Cast Steel Chain CH0002

The 2 1/4" x 90' Cast Steel Chain CH0002 is connected to the anchor shank with a safety shackle and a pear-shaped detachable link. The other end of the anchor chain is attached to a polypropylene anchor line (6" circumference) by another pear-shaped detachable link. The anchor line is then attached to the mooring buoy. The chain is shipped in the Boom Mooring System MS0009 basket.

### Specifications

Type	Description	Qty
Manufacturer	Commercial	
Model	Grade 3	
Link size	2-1/4 in	
Length	90 ft	
Proof test load	369,000 lb	
Break test load	570,000 lb	

### References

Ref No	Reference
1	None

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## ESSM - CH0040 CHAIN, DI-LOK, 2 1/4" X 90'



2 1/4" Di-Lok Chain CH0040

The 2 1/4-Inch Di-Lok Chain CH0040 consists of one piece of chain, 90 feet in length. It is used in the Beach Gear System and the Boom Mooring System to connect the anchor to the 50-ton cable puller bridle assembly or mooring buoy cables. The chain is shipped in a wire mesh basket equipped with forklift slots.

### Specifications

Type	Description	Qty
Manufacturer	Baldt or equivalent	
Model	Type I	
Size	2-1/4 in	
Proof strength	403,000 lb	
Breaking strength	610,000 lb	

### Physical Characteristics

Type .....	Descriptions .....		
	Shipping		
Length	5 ft, 3 in		
Width	3 ft, 1 in		
Height	3 ft, 7 in		
Cube	57 cu ft		
Footprint	17 sq ft		



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## Physical Characteristics

Type .....	Descriptions .....		
Empty Weight	420		
Shipping weight	5250 lb		
NOTE: Weights and dimensions are for BG0101			

## References

Ref No	Reference
1	Baldt Catalog #30 for Anchors and Chain

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## ESSM - MS0011 MOORING SYSTEM, BOOM, W/1000-LB ANCHOR



Boom Mooring System MS0011

The Boom Mooring System MS0011 consists of various components that include a mooring buoy, a crown buoy, a 1000-lb anchor, chain, wire rope, and polypropylene line. The Boom Mooring System is designed to hold boom in position around a casualty vessel or in any area where water depths range from 200 to 600 feet and currents do not exceed three knots. The Boom Mooring System with the 1000-lb anchor is designed to be used with the Boom Mooring System Deep Water Extension. Three Boom Mooring Systems are required to hold 1000 feet of boom in position.

Specifications		
Type	Description	Qty
Operating depth	200 ft to 600 ft	
Mooring buoy	BU0140	1
Weight	700 lb	
Buoyancy	5000 lb	
Rated pull-through	10,000 lb	
Dimensions	4 ft diameter by 7 ft, 4 in long	
Crown buoy	BU0320	1
Weight	110 lb	
Buoyancy	350 lb	
Rated pull-through	10,000 lb	
Dimensions	2 ft diameter x 3 ft long	

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## Specifications

Type	Description	Qty
Mooring buoy		1
Weight	15 lb	
Buoyancy	49 lb	
Dimensions	8"dia x 15"	
Anchor (1000-lb)	AN0153	1
Type	Stato w/folding stabilizers	
Shank length	7 ft, 4 in	
Fluke length	4 ft, 3 in	
Stabilizer length	1 ft, 11 1/2 in	
Fluke angle	34° w/ wedges; 50° w/out wedges	
Holding power	17,600 lb in mud; 25,500 lb in sand; questionable in rocks or coral	
Chain	CH1093	1
Type	Stud link, anchor, low alloy steel, flash butt-welded (MIL-C-24633)	
Size	2 1/4 in or 2 5/16 in diameter links, 90 ft long	
Weight	4250 lb	
Wire rope		5
Size	5/8 in diameter	
Working load	5680 lb	
Polypropylene rope		11
Size	6 in crcmf	
Working load	7333 lb	
Polypropylene rope		
Size	1 1/2 in crcmf	
Working load	633 lb	

## Physical Characteristics

Type .....	Descriptions .....		
	Shipping		
Length	8 ft, 4 in		
Width	4 ft, 0 in		
Height	8 ft, 4 in		
Cube	278 cu ft		

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## Physical Characteristics

Type .....	Descriptions .....		
Footprint	34 sq ft		
Weight	8600 lbs		

## References

Ref No	Reference
1	8600 lb Operations and Maintenance Manual, Oil Containment Boom and Boom Mooring System, S9597 ACMMO-010

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## ESSM - AN0153 ANCHOR, STATO, 1000-LB, FLDG LWT STAB



1000-Lb Stato Anchor with Folding Lightweight Stabilizers AN0153

The 1000-lb Stato Anchor with Folding Lightweight Stabilizers AN0153 was developed for use in both sand and mud bottoms. The anchor incorporates design characteristics that enhance burial and increase holding power.

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### Specifications

Type	Description	Qty
Manufacturer	Various, U.S. Navy Design	
Type	1000 lb Stato	

### Physical Characteristics

Type .....	Descriptions .....		
	Shipping	Operating	
Length	8 ft, 4 in	8 ft, 4 in	
Width	6 ft, 5 in	6 ft, 5 in	
Height	2 ft, 3 in	2 ft, 3 in	
Cube	121 cu ft	121 cu ft	
Footprint	54 sq ft	54 sq ft	
Weight	1000 lbs	1000 lbs	

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## References

Ref No	Reference
1	NAVSEA Drawing 5871973 - Anchor, Stato Mooring, 1,000Pound

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## ESSM - BU0140 BUOY, MOORING, 5000-LB BUOYANCY



Mooring Buoy BU0140

The Mooring Buoy BU0140 is designed to provide buoyancy to the anchor line so that boom or boats can be fastened to the Boom Mooring System.

### Specifications

Type	Description	Qty
Manufacturer	Seaward International	
Material	Polyethylene foam/urethane cover	
Buoyancy	5000 lb	
Rated pull-through	10,000 lb	
Operating depth	200 feet	

### Physical Characteristics

Type .....	Descriptions .....		
	Shipping		
Length	9 ft, 1 in		
Width	4 ft, 0 in		
Height	4 ft, 0 in		
Cube	146 cu ft		
Footprint	37 sq ft		

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## Physical Characteristics

Type .....	Descriptions .....		
Weight	1030 lb		

## References

Ref No	Reference
1	None



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## ESSM - BU0320 BUOY, CROWN, 350 LB BUOYANCY, 24" X 36"



Crown Buoy BU0320

The Crown Buoy BU0320 marks the location of the anchor and supports the wire rope attached to the crown of the anchor. The anchor crown wire rope is used to break out the anchor for retrieval.

### Specifications

Type	Description	Qty
Manufacturer	Seaward International	
Material	Polyethylene foam/urethane cover	
Buoyancy	350 lb	
Rated pull-through	10,000 lb	
Operating depth	200 feet	

### Physical Characteristics

Type .....	Descriptions .....		
	Shipping		
Length	4 ft, 0 in		
Diameter	2 ft, 0 in		
Cube	16 cu ft		
Weight	228 lb		

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## References

Ref No	Reference
1	None

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## ESSM - CH1093 CHAIN, STUD LINK, 2 1/4" X 90'



2 1/4 x 90CE Stud Link Chain CH1093

The 2 1/4" x 90' Stud Link Chain CH1093 is connected to the anchor shank with a safety shackle and a pear-shaped detachable link. The other end of the anchor chain is attached to a polypropylene anchor line (6" circumference) by another pear-shaped detachable link. The anchor line is then attached to the mooring buoy.

### Specifications

Type	Description	Qty
Manufacturer	Commercial	
Model	Grade 2	
Link size	2-1/4 in	
Proof test load	284,000 lb	
Break test load	396,000 lb	

### Physical Characteristics

Type .....	Descriptions .....		
	Shipping		
Length	5 ft, 2 in		
Width	3 ft, 0 in		
Height	3 ft, 6 in		
Cube	54.25 cu ft		
Footprint	16 sq ft		

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## Physical Characteristics

Type .....	Descriptions .....		
Weight	4940 lbs		

## References

Ref No	Reference
1	Baldt Catalog #30 for Anchors and Chains

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## ESSM - CH0002 CHAIN, CAST STEEL, 2 1/4" X 90'



2 1/4" x 90' Cast Steel Chain CH0002

The 2 1/4" x 90' Cast Steel Chain CH0002 is connected to the anchor shank with a safety shackle and a pear-shaped detachable link. The other end of the anchor chain is attached to a polypropylene anchor line (6" circumference) by another pear-shaped detachable link. The anchor line is then attached to the mooring buoy. The chain is shipped in the Boom Mooring System MS0009 basket.

### Specifications

Type	Description	Qty
Manufacturer	Commercial	
Model	Grade 3	
Link size	2-1/4 in	
Length	90 ft	
Proof test load	369,000 lb	
Break test load	570,000 lb	

### References

Ref No	Reference
1	None

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## ESSM - CH0040 CHAIN, DI-LOK, 2 1/4" X 90'



2 1/4" Di-Lok Chain CH0040

The 2 1/4-Inch Di-Lok Chain CH0040 consists of one piece of chain, 90 feet in length. It is used in the Beach Gear System and the Boom Mooring System to connect the anchor to the 50-ton cable puller bridle assembly or mooring buoy cables. The chain is shipped in a wire mesh basket equipped with forklift slots.

### Specifications

Type	Description	Qty
Manufacturer	Baldt or equivalent	
Model	Type I	
Size	2-1/4 in	
Proof strength	403,000 lb	
Breaking strength	610,000 lb	

### Physical Characteristics

Type .....	Descriptions .....		
	Shipping		
Length	5 ft, 3 in		
Width	3 ft, 1 in		
Height	3 ft, 7 in		
Cube	57 cu ft		
Footprint	17 sq ft		

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## Physical Characteristics

Type .....	Descriptions .....		
Empty Weight	420		
Shipping weight	5250 lb		
NOTE: Weights and dimensions are for BG0101			

## References

Ref No	Reference
1	Baldt Catalog #30 for Anchors and Chain