



canflex (USA), Inc.



“SEA SLUG”

Ocean Towable Bladders



CANFLEX (USA) INC • 412 30th St. / PO BOX 1014 • Anacortes • Washington • 98221
Tel: 206-282-8233 • email: salesteam@canflexinc.com • web: www.canflexinc.com

INTRODUCTION

Canflex USA Inc. is a major U.S. Manufacturer of high frequency welded products made with special high strength PVC or Urethane coated fabrics, such as polyester, nylon, and kevlar. All of our products are collapsible and can be folded for easy storage and transportation.

All fittings are made from cast anodized marine grade aluminum; any nuts, bolts, and washers integral to the fittings are made of stainless steel. Filling and discharged hose connections are generally cam-lock type with the size depending on the user's needs.

Canflex "Sea Slug" Ocean Towable Bladders are normally used for Oil spill recovery and primarily used on water. Special material coatings are available for these bladders to be used in many environments, such as the store and transport of drinking water, Hydrocarbon or Waste products.

These bladders are very rugged units with a cylindrical main body and matching conical ends giving them great towing characteristics. The ends of the Sea Slug are constructed so the towing force is evenly distributed through the fabric panels of the product, rather than distributing the tow forces throughout the hardware connecting the end fittings. This increases the product longevity.

The streamline and inherent floatation allow the Sea Slug to be used in ocean environments while filled with fluid including high-density weathered oils. Its design also includes an inclined bow which encloses an air chamber that ensures the bow rides high on the water and maintains a streamlined shape for optimum towing speed of the bladder when loaded.

The Canflex superior engineering & design plus the high strength coated fabrics we use to manufacture our bladders allow them to be used safely for training and practical applications over an extended time period. Our coated fabric materials are many times stronger than materials used by other towable bladder manufacturers. This material strength is critical for constructing a safe ocean towable bladder that can be filled, towed and off loaded repeatedly.



SERIES 1- "SEA SLUGS" CHARACTERISTICS

- Reliable fast response units
- Light weight, easy and compact storage
- Limited personal needed on deployment and retrieval
- Low draft units, ideal for shallow waters
- Air filled rectangular flotation side panels
- Available with higher density coated materials
- Available in 2", 4" and 6" connections
- Clip-lok plywood crate included for packing, storage and transportation.

MODEL	Capacity	Length (L)	Diam (ø)	*Auxiliary Floatation	Dry Weight with accessories	Draft (Full)	TECHNICAL SPECIFICATIONS					
							Material Weight DIN 53853	Material Color	Side Floats Flotation	Shipping / Storage Crate	Standard Fill / Offload Fittings	
							g/ m ³					
SERIES 1	FCB-5CM	5.0 / 31.5	6.2	1.1	467	111	0.98	1622	Int. Yellow	Air	Clip-lok plywood box	3"
		1,320	20	3.5	1030	244	3.13	48				
	FCB-6CM	6.0 / 38	7.2	1.1	535	127	0.98	1622	Int. Yellow	Air	Clip-lok plywood box	3"
		1,585	23.7	3.5	1180	280	3.13	48				
	FCB-8CM	8.0 / 50	8.5	1.3	558	150	1.16	1622	Int. Yellow	Air	Clip-lok plywood box	3"
		2,113	28	4.2	1230	330	3.76	48				
	FCB-10CM	10.0 / 63	9.2	1.3	585	163	1.16	1622	Int. Yellow	Air	Clip-lok plywood box	3"
		2,640	30	4.2	1290	360	3.76	48				
	FCB-12CM	12.5 / 79	8.2	1.7	567	166	1.52	1622	Int. Yellow	Air	Clip-lok plywood box	3"
		3,300	27	5.6	1250	365	5.01	48				
	FCB-15CM	15.0 / 94	8.7	1.7	603	168	1.52	1622	Int. Yellow	Air	Clip-lok plywood box	3"
		3,962	28.5	5.6	1330	370	5.01	48				
	FCB-16CM	16.0 / 100	9.1	1.7	635	172	1.52	1622	Int. Yellow	Air	Clip-lok plywood box	3"
		4,300	29.8	5.6	1400	380	5.01	48				

SERIES 2- "SEA SLUGS" CHARACTERISTICS

- Large bulk storage capacities
- Reliable fast response units
- Towable with either small or large vessels
- Bladder is towable from vessel's stern end or sides
- Available with higher density coated materials
- Air filled rectangular flotation side panels
- Available in 2",3" and 6" connections
- 25" center flange available for larger size submersible pumps
- Aluminum crate included for packing, storage and transportation.



MODEL		Capacity	Length (L)	Diam (ø)	*Auxiliary Flotation	Dry Weight with accessories	Draft (Full)	TECHNICAL SPECIFICATIONS				
								Material Weight DIN 53853	Material Color	Side Floats Flotation	Shipping / Storage Crate	Standard Fill / Offload Fittings
SERIES 2	FCB-20CM	20.0 / 126	9.7	1.8	572	295	1.61	1884	Int. Orange	Air	Clip-lok plywood box	4"
		5,285	32	5.9	1260	650	5.28	56				
	FCB-25CM	25.0 / 157	11.7	1.8	603	313	1.61	2278	Int. Orange	Air	Clip-lok plywood box	4"
		6,600	38.5	5.9	1330	690	5.28	67				
	FCB-30CM	30.0 / 190	13.7	1.8	662	335	1.61	2278	Int. Orange	Air	Clip-lok plywood box	4"
		7,925	44.9	5.9	1460	740	5.28	67				
	FCB-50CM	50.0 / 315	14.3	2.3	1764	818	2.06	3024	Int. Orange	Air	Aluminum	4" and 16" center flange
		13,200	47	7.5	3890	1800	6.71	89				
	FCB-100CM	100 / 630	20	2.8	2431	1088	2.50	3024	Int. Orange	Air	Aluminum	4" and 16" center flange
		26,400	66	9.2	5360	2400	8.23	89				
FCB-150CM	150 / 945	20.4	3.50	2550	1200	3.13	3024	Int. Orange	Air	Aluminum	4" and 16" center flange	
	39,650	67	11.3	5620	2650	10.11	89					
FCB-200CM	200 / 1260	22.6	3.70	2817	1542	3.31	3024	Int. Orange	Air	Aluminum	4" and 16" center flange	
	52,850	74.3	12.2	6210	3400	10.91	89					
FCB-250CM	250 / 1575	27.1	3.70	3450	1746	3.31	3024	Int. Orange	Air	Aluminum	4" and 16" center flange	
	66,000	88.9	12.2	7610	3850	10.91	89					

OFFLOADING

CANFLEX (USA) INC offers a proven submersible pump off loading system for our "Sea Slug" ocean towable bladders. In addition Canflex offers a manufactured top center offload hatch assembly that allows the submersible pump to be lowered into the bladder. This top center hatch opening is available in sizes of 12", 16" and 25" diameter for 20m3 capacity bladders or larger.

This is a fast and efficient method of off loading and is achieved by simply lowering the pump with the custom watertight cap with the pump attached into the Sea Slug. With the pump now locked inside the bladder all hydraulic power hoses and offload fluid connections can quickly be connected to external fittings on our pump adaptation cap.

Canflex can offer submersible pumps with off load capacities from 20m3/h to 300 m3/h or larger.

These high capacity pumps driven by their respective diesel engine powered hydraulic power packs will offload a wide variety of fluids including high viscosity crude oils.

Also available are non submersible portable diesel engine powered type pumps with offload capacities from 11m3/h to 600m3/h or larger. This type of pump can be connected to our stern offload hose connection or at one of the top NPT flanged fittings.



PACKING, STORAGE & TRANSPORTATION

The bladder high strength coated fabric material allows the bladder to be either folded or rolled into compact shape to fit into our custom plywood or aluminum storage / shipping container



MARINE GRADE Aluminum Shipping /Storage Crate CHARACTERISTICS

- Made of marine grade anodized aluminum 6011-T6.
- Includes container certification for WLL and SF
- Forklift able from all sides
- 8 lifting points for safe overhead lifting with a crane or helicopter
- Complete with certified set of lift harness and shackles
- Fold down and removable side door
- Lockable aluminum lid
- Two screened air vents
- Secondary fluid storage containment
- PVC coated fabric replaceable inner liner w/ bungee cord tie downs.
- 2" bottom drain w/ male camlock

CLIP-LOK STYLE Plywood Shipping /Storage Crate CHARACTERISTICS

- Made of Heat Treated 3/4" plywood to comply with ISPM 15 standards, certified for International Exports
- Forklift slots on all sides
- Special weather resistant coating.
- Quickly assembled or taken apart with no nails or screws.
- Easily and quickly flat-packed, reducing transport and storage volume
- Two air vents with screen for air circulation
- Suitable for transport by road, rail, sea or air.

