

### SENTINEL BOOM RANGE

#### Application

Sentinel booms are air filled which makes them quick and easy to deploy. They are designed as a rapid response to assist in the containment and recovery of accidentally spilt oil. Their high buoyancy to weight ratio gives excellent wave following capability and heave response and their continuous cylindrical shape, coupled with low air inflation pressure, enhances flexibility and produces a very responsive containment system. The range of boom sizes means that they can be used in almost any location, from rivers through to the open sea.

#### Material

High frequency welded from high strength weave with a polyurethane based thermoplastic coating both sides.

#### Inflation/Deflation/Relief Valves

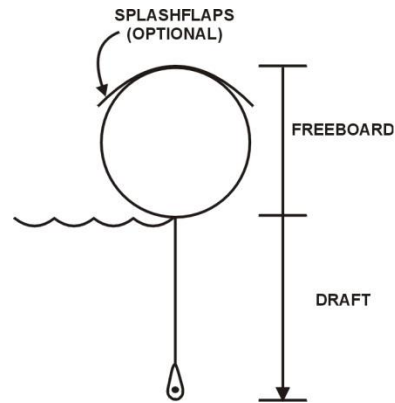
Spring loaded, marine use, inflation / deflation valves located at each end of air buoyancy chamber. Operating pressure of the Sentinel boom range is 0.02 bar maximum. A relief valve is fitted to booms of size 750 and larger. Relief valves are optional on sizes 600 and smaller. Relief valves are recommended for fitment to booms used in hot climates.

#### Tension Ballast Member

Galvanised steel multi-strand tension wire in skirt pocket, providing high tensile strength with good underwater concave profile for maximum oil retention.

#### Section Connectors

Vikoma's patented Unicon™ connectors fitted as standard provide a simple quick fit connection system. Unicon™ quick release connectors are extruded from marine grade aluminium and are highly resistant to corrosion. The interface between the boom material and connector plate is achieved without puncturing the material, thus ensuring boom integrity. ASTM connectors can be supplied upon request.



#### Inflators

Vikoma offers a range of inflators and can offer deflators to speed up recovery of boom. Refer to separate technical specifications.

#### Towing / Mooring Bridles

Towing Bridles facilitate easy manoeuvring and towing of the boom and are supplied complete with Unicon™ or ASTM connectors (see Tow Bridle specification). Purpose built mid section mooring points can be incorporated into the boom during manufacture.

#### Optional Accessories

- Cold glue repair (SK/1009)
- Hot air repair (SK/1045)
- Anchor systems (by application)
- Navlights (by application)
- Air tube interconnectors (BE/4241)
- Splash flaps (BP/5095-xM)
- Relief valve for hot climate (Sentinel 600 and smaller)
- Emergency Repair Kit
- (SK/0881 – Sentinel 400, 500 & 600)
- (SK/0888 – Sentinel 750 & 1100)

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### Technical Information

	Main Operational Area (OPA 90)	Standard Section Lengths	Part No. U=Unicon A=ASTM	Height mm (in)	Free-Board mm (in)	Draft mm (in)	Fabric Weight g/m <sup>2</sup> (oz/yd <sup>2</sup> )	Boom Weight kg/m (lb/ft)	Overall Width* mm (in)
<b>Sentinel 400</b>	Calm	10m 20m	BP/0220U or A BP/0222U or A	375	188	187	1000	1.53	500
	Water	25m	BP/0223U or A	(14.8)	(7.4)	(7.4)	(29.6)	(1.03)	(19.7)
<b>Sentinel 500</b>	Calm	10m 20m	BP/0227U or A BP/0229U or A	506	188	318	1000	1.89	613
	Water	25m	BP/0230U or A	(19.9)	(7.4)	(12.5)	(29.6)	(1.28)	(24.2)
<b>Sentinel 600</b>	Protected	10m 20m	BP/0252U or A BP/0253U or A	610	255	355	1000	2.48	757
	Water	25m	BP/0254U or A	(24)	(10)	(14)	(29.6)	(1.67)	(29.8)
<b>Sentinel 750</b>	Protected	10m 20m	BP/0353U or A BP/0354U or A	710	310	400	1000	2.89	897
	Water	25m	BP/0334U or A	(28)	(12.2)	(15.7)	(29.6)	(1.94)	(35.3)
<b>Sentinel 1100</b>	Open	10m 20m	BP/0234U or A BP/0236U or A	1076	377	699	1000	3.56	1292
	Water	25m	BP/0237U or A	(42.4)	(14.8)	(27.5)	(29.6)	(2.39)	(50.9)

\* Measured Over Width of boom when fully deflated

	Breaking Load N/50mm	Tear Strength (Warp/Weft) N	Tensile Strength Fabric kN	Wire diameter mm	Tensile strength Wire kN	Buoyancy to Weight Ratio	Air Porosity bar
<b>Sentinel 400</b>	3,920	400/400	70	8 mm	40.32	18.14:1	Nil at 0.3
<b>Sentinel 500</b>	3,920	400/400	80	10 mm	62.7	14.69:1	Nil at 0.3
<b>Sentinel 600</b>	3,920	400/400	102	12 mm	90.7	20.59:1	Nil at 0.3
<b>Sentinel 750</b>	3,920	400/400	119	12 mm	90.7	26.11:1	Nil at 0.3
<b>Sentinel 1100</b>	3,920	400/400	159	12 mm	90.7	31.02:1	Nil at 0.3