



PFG is renowned for creating durable products for harsh environments and we take pride in the quality of our workmanship. PFG's flagship product, the Sentinel, are the next generation in world class tactical watercraft. The Sentinel range offers a step change in performance, whole of life cost and operational availability across adaptable mission specific configurations. In partnership with One2three naval architects, PFG have developed and delivered integrated maritime systems which enhance the mission capability for Defence and security organisations offering unmatched performance, safety and stability.

Ensuring a capability to deliver to Defence requirements, PFG is advised by a Defence Capability Advisory Committee. Members of the Committee, with over 100 years' combined experience in the Defence and public security environment, are integral in the evolution of our proven platforms, to mission ready, reliable, integrated maritime systems. The Committee is a demonstrable part of PFG's commitment to identifying and reducing risk and providing confidence the Sentinel range is adapted in collaboration with customers to meet specific operational requirements.





Tactical Watercraft

Seaboat configurations for tactical assault groups, crew transfer, general patrols or dive vessels.



Search & Rescue

A range of vessels from 2.8m to 15m, in hard collar or plate designs, with cabins or consoles. Vessel stability is ideally suited to volunteer uses or requirements where repeatability of hull performance is necessary.



Landing Craft

Configured for personnel or vehicle movement with drop down front deck for drive on/drive off situations. Options include configuration for oil skimming or other surface collection requirements.



Support Craft

A range of vessels for general marine operation functions with significant lifting capacity, including elevated work platforms.















SENTINEL DISCRIMINATORS

PFG manufactures The Sentinel vessels in one of three of its dedicated Australian manufacturing facilities.

Designed by naval architects One2three, The Sentinel vessels are a mature and proven platform with over 100 vessels in current operations and are available up to 15 metres in length in various configurations including inboard or outboard propulsion, hard and soft collars, plate vessels, cabins or consoles, with significant payload capacity up to 6,000kg.

The Sentinel vessels are manufactured from High Density Polyethylene (HDPE), a cost effective, environmentally friendly semi-crystalline engineered polymer that demonstrates several properties which rate is as a superior boat building material. The Sentinels are highly stable, provide superior reliability and availability and transfer low impact to the crew as the HDPE hull absorbs vibration.

It is these virtues that The Sentinel brings to a new generation of evolved fast military vessels, search and rescue vessels and support craft.

Engine

Outboard or Inbvoard/Jet configurable with optional enhanced control technology such as jet anchor.

Durability

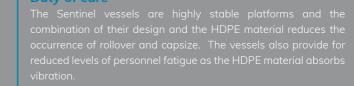
from high density polyethylene (HDPE), a material that has industrial strength, has positive buoyancy and will not corrode, therefore offering superior durability over longer life spans and is ballistically tested to NIJ Sta 0108.01 without modification.

Elexibility

Rapidly configurable mission deck designed to meet the capability requirements of a wide range of mission profiles. Layouts include weapons effectors, ammunition lockers, dive doors and moon pools, ability to integrate optionally manned technology and a variety of payloads and deployment, launch

Longevity

The Sentinel vessels last more than four times longer than its alloy or FRP competitors due to its robust, durable construction, excellent design and structural integrity afforded by thicker hull plates, and full double continuous welding throughout, all within comparable gross weight.



Stealt

The Sentinel vessels offer a low radar and magnetic signature.

has 50-year UV protection and no preventative maintenance requirement. HDPE hull is impact resistant and capable of has beaching on rocks offering enhanced mission capability. In-sir repairs with no hot works allow for reliability and availability of long deployments where failure is not an option.

Maintainability

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TACTICAL WATERCRAFT

Through collaboration with customers and naval architect One2three, PFG's range of vessels have evolved from sturdy workboats to high-performing Tactical Watercraft, finished to the highest standards, and suited to first-response applications. They are fast, strong, stable, smooth and safe.

PFG's range of Tactical Watercraft include cabins and consoles, forward, centre, aft and side and can be further customised to a range of rapidly configurable mission profiles.

The HDPE construction material absorbs vibration, which enhances benefits to the crew and passengers. There is no corrosion or electrolysis and the material is easy to maintain, which improves availability and reliability.





The Sentinel Diver 7500

Like its larger sistership, The Sentinel Diver 7500 is designed to accommodate a highly flexible deck layout such that the vessel can be configured for a wide range of applications. The HDPE hull reduces vibration and impact forces, maximises availability and maintainability through its absence of electrolysis and corrosion and is extremely stable. The typical Sentinel design features may also be incorporated into this vessel size including fast boarding through the bow step and handrails, quick and safe movement around the console by maximising deck width using a D-collar arrangement and flush mounted access hatches, electronics and surveillance equipment to prevent snagging.

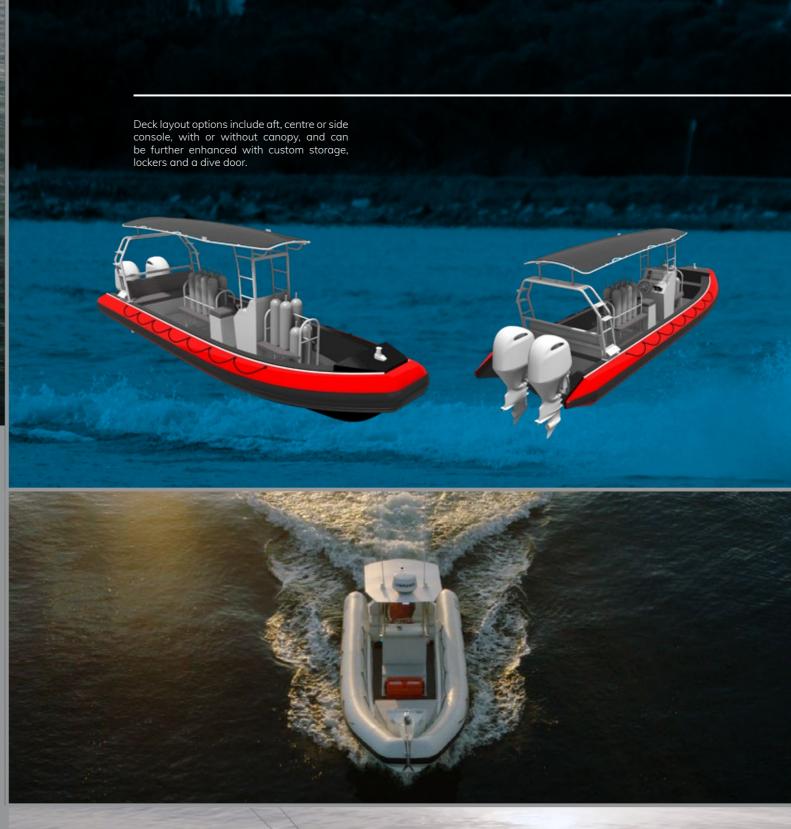
Deck layout can be optioned as a dive-vessel for 8 passengers, with storage for 14 individual dive tanks and diving sets. Characteristic of the Sentinel brand, crew comfort is maximised with a combination of shock absorbing seats and sufficient room for a dive team to be safely seated for long transits.

The vessel is highly configurable and can be provided with or without a canopy in forward console, centre console, side console or rear console layouts as per the current layouts in its larger sistership or customised as a dive vessel. Further enhancement options for defence use include gun turrets, gun and ammunition lockers, dive doors and moon pools, dog transportation and stokes litter for personnel recovery. The deck can also be reconfigured as a dive-purpose vessel as per the current layout in its smaller sistership.

Fuel capacity is nominally 400 litres and can be increased up to 700 litres. Maximum speed is 47 knots with twin 200Hp 4-stroke outboards. Inboard jet engines or diesel outboards are also available.

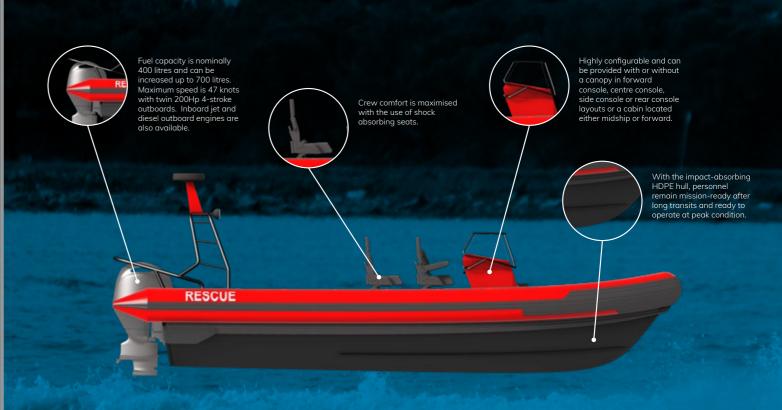


Model	The Sentinel Diver 7500
Class	NSCV 2D, ISO 6185-3, AMSA approved
Passengers	2 + 6 Crew
Length (OA)	7.5 m
Beam	2.5 m
Draught	0.45 m
Engine	2x 150 HP Outboard
Fuel	250 L
Speed	40 knots
Options	open deck, canopy, console, fwd/aft layouts, gun turrets, gun lockers, bow boarding step, stokes litter, drive vessel









The Sentinel Enforcer 8300

The Sentinel Enforcer 8300 has been designed specifically for defence and security applications. The combination of the vessel design and the HDPE material makes it a highly stable platform that reduces the risk of rollover and capsize, reduces the vibration and impact forces to its crew and is easily maintainable, therefore improving vessel operational availability and reliability. Design features also include consideration to fast boarding through the bow step and handrails, quick and safe movement around the console by maximising deck width using a D-collar arrangement and flush mounted access hatchers, electronics and surveillance equipment to prevent snagging.



Model	The Sentinel Enforcer 8300
Class	NSCV 2C, ISO 6185-3, AMSA approved
Passengers	2 + 8 Crew
Length (OA)	8.3 m
Beam	2.99 m
Draught	0.55 m
Engine	2x 200 HP outboard
Fuel	400 L to 700 L
Speed	47 knots
Options	open deck, canopy, console, fwd/aft layouts, gun turrets, gun lockers, bow boarding step

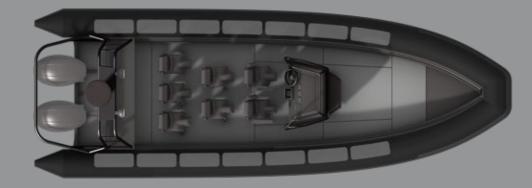








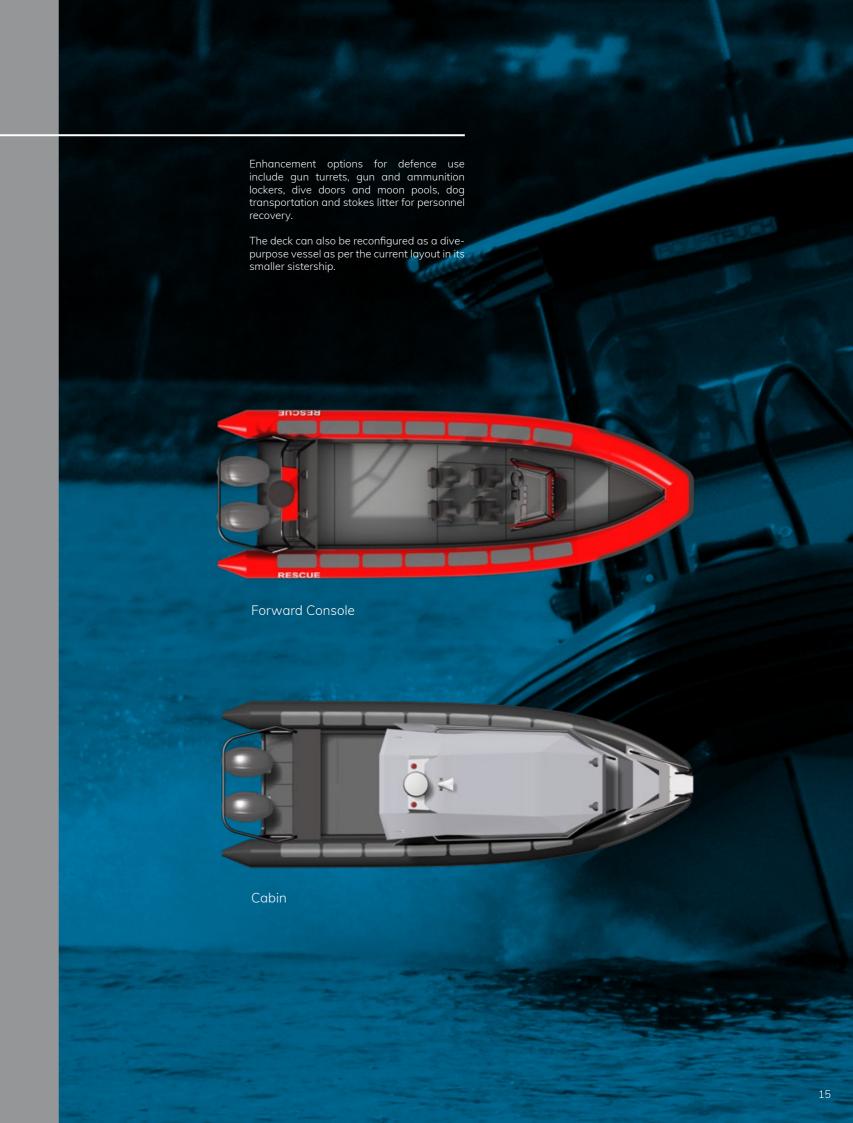
Forward Console



Centre Console



Aft Console







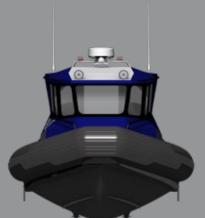


The Sentinel Interdictor 1100

The Sentinel Interdictor 1100 is the premier tactical watercraft for expeditionary reconnaissance and covert operation behind enemy lines. It has all the characteristics of the smaller Sentinel vessels. The typical Sentinel design features may also be incorporated into this vessel size including fast boarding through the bow step and handrails, quick and safe movement around the console by maximising deck width using a D-collar arrangement and flush mounted access hatches, electronics and surveillance equipment to prevent snagging.

The vessel is highly configurable and can be provided with or without a canopy in forward console, centre console, side console or rear console layouts as per the current layouts in the smaller sistership or as a cabin vessel. Further enhancement options for defence use include gun turrets, gun and ammunition lockers, dive doors and moon pools, dog transportation and stokes litter for personnel recovery. The deck can also be reconfigured as a dive-purpose vessel as per the current layout in its smaller sistership.

Fuel capacity is nominally 900 litres and can be increased further. The Sentinel Interdictor can reach maximum speeds of 50 knots with three 300Hp diesel outboards. Inboard jet engines or 4-stroke outboards are also available.



Vessel Characteristics

Model	The Sentinel Interdictor 1100
Class	NSCV 2D, ISO 6185-3. AMSA Approved
Passengers	2 + 12 Crew
Length (OA)	11.0 m
Beam	3.5 m
Draught	0.55 m
Engine	2x 300 HP+ Outboard, 3x 300 HP Outboard
Fuel	900 L
Speed	50 knots
Options	open deck, canopy, console, fwd/aft layouts, cabin, gun turrets, gun lockers, bow boarding step, stokes litter, drive vessel



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SEARCH & RESCUE

From the Queensland Police Service to the Tasmanian Police Service, from dive boats to flood rescue boats, from patrol boats to oil spill response vessels, PFG's range of vessels can be found right across the breadth of the Search and Rescue sector.

PFG's range of Search and Rescue vessels is extensive and includes open boats, consoles and cabins.

The HDPE construction material is positively buoyant, which makes the vessels extremely stable, capable of carrying large loads without jeopardising freeboard. PFG's smallest vessel, the Bullet, at just 2.8m length has enough buoyancy to withstand 10 men.





Bullet 2.8

The Bullet 2.8 is an ideal flood rescue vessel for use in rapidly rising flood waters and under emergency situations. Stability of this vessel is unreal when fully loaded and has been tested with 10-men while it maintained flotation.

The vessel is rated to 15HP and is surveyed for 5 passengers. Unloaded, it is fast and responsive. With a draught of only 0.25m, the Bullet 2.8 has been designed for emergency flood water situations where stranded communities need rescuing in family groups. Weighing only 85kg under commercial survey and with 22 vessels capable of fitting into a standard 20-foot container, the Bullet 2.8 makes an ideal solution for bulk storage in communities prone to flash flooding and mudslides.

Model	Bullet 2.8
Class	ANS Commercial Tender
Passengers	1 + 2 Crew
Length (OA)	2.8 m
Beam	1.55 m
Draught	0.25 m
Engine	15 HP Outboard
Fuel	25 L
Speed	20 knots
Options	lifting lugs, removable seats, oars







Thunder 5.4 / 6.5

The Thunder 4.6 and Thunder 6.5 have been designed specifically as flood rescue and marine rescue vessels. They have 450mm HDPE hard collars, which provide superb stability at rest and rideability at full speed. The side console is positioned to be able to accommodate a stretcher or stokes litter, and seating is provided so that a patient can be treated while under speed. The shallow draught of just 0.45m makes this an ideal vessel for shallow depth operations

A side hatch is located on the port side to allow patients to be easily pulled from the water. Attachment points for a Jason's Cradle are located on the inside of the hard collars. The Thunder 4.6 is surveyed for six persons and the Thunder 6.5 is surveyed for eight persons. Both boats have a 200kg payload allowance, that is provided for in the under-seat storage.

Model	Thunder 4.6
Class	NSCV 2D
Passengers	2 + 4 Crew
Length (OA)	4.6 m
Beam	2.3 m
Draught	0.45 m
Engine	2x 50 HP Outboard
Fuel	150 L
Speed	25 knots
Options	open deck, canopy, console side or centre, side hatch, stokes litter, jason's cradle

Model	Thunder 6.5
Class	NSCV 2D
Passengers	2 + 6 Crew
Length (OA)	6.5 m
Beam	2.4 m
Draught	0.45 m
Engine	2x 90 HP Outboard
Fuel	250 L
Speed	25 knots
Options	open deck, canopy, console side or centre, side hatch, stokes litter, jason's cradle





The deck layout is also flexible, and the side console can be replaced with a centre console if required. The fuel tank is divided in half with each compartment plumbed individually to each outboard, so that multiple fuel sources may be used.



Bullshark 5.5

The Bullshark is a proven-performer as an in-shore patrol vessel and has been put to extensive use by Queensland Police, Tasmanian Inland Fisheries Service, Birkenhead Point Marine and Rufus King Fisheries. The reliability of vessel performance is exceptional and the use of HDPE material increases operational availability as there is little to no maintenance or repair required. Ten vessels were ordered by Queensland Police and delivered in 2018, and are used at remote locations along the Queensland border, as far north as Thursday Island.

Deck layout options include aft, centre or side console, with or without canopy and can be further enhanced with custom storage lockers and a dive door.

Model	Bullshark 5.5
Class	NSCV 2C
Passengers	2 + 2 Crew
Length (OA)	5.7 m
Beam	2.47 m
Draught	0.42 m
Engine	2x 115 HP Outboard
Fuel	150 L
Speed	38 knots
Options	aft / centre / side console, canopy, gun turrets, gun lockers, bow boarding step, stokes litter









Sentinel 6.0

PFG Group first supplied the Tasmanian Police Service in 2001 with a range of vessels known as the Sentinel Class. 'Sentinel' means to 'look over or keep watch' and was the identity afforded by the Police Commissioner at the time. Described as 'unstoppable' by their users, these vessels remain in service and have been repowered a number of times since commissioning.

The vessels are used as first response vessels for marine incidents and general patrols. Their hardy design, use of HDPE construction material and the fact that they remain in service in critical operations after nearly 20 years, is evidence of the durability, robustness and longevity of Aquatruck vessels.

Model	Sentinel 6.0
Class	NSCV 2C
Passengers	2 + 2 Crew
Length (OA)	6.0 m
Beam	2.4 m
Draught	0.45 m
Engine	2x 115 HP Outboard
Fuel	200 L
Speed	40 knots
Options	gun and ammunition lockers, dive doors, dog transportation, stokes litter or jason's cradle





Persephone 7.0 / 15

The Persephone was originally designed and supplied as a hydrographic survey vessel with a comprehensive cockpit, galley and generous cabin layout. The vessel is also ideal as an offshore patrol vessel and can be manufactured up to 15 metres in length. The vibration-absorbing HDPE hull not only ensures that personnel remain fit over long journeys but also that sensitive equipment is not subject to unnecessary loads and forces.

The cabin layout is customisable, and features include the provision of hard mounted survey equipment, computer workstations, map/planning table or bench, lounges or additional seating, freshwater and sullage tanks. Craneage may be installed on the aft deck and other options include gun turrets, gun and ammunition lockers, dive doors and moon pools, dog transportation, stokes litter or Jason's Cradle for personnel recovery.

As with all Aquatruck vessels, the HDPE hull offers no corrosion or electrolysis, is extremely stable and smooth in the water and has a 50-year UV protection.



Model	Persephone 7.0
Class	NSCV 2C, Workboat
Passengers	2 + 4 Crew
Length (OA)	6.95 m
Beam	2.43 m
Draught	0.51 m
Engine	2x 150 HP Outboard
Fuel	400 L
Speed	35 knots
Options	fixed survey equipment, work stations, map desk, gun turrets, gun and ammunition lockers, dive doors, moon pools, dog transportation,stokes litter or jason's cradle, water tanks, sullage tanks





LANDING CRAFT

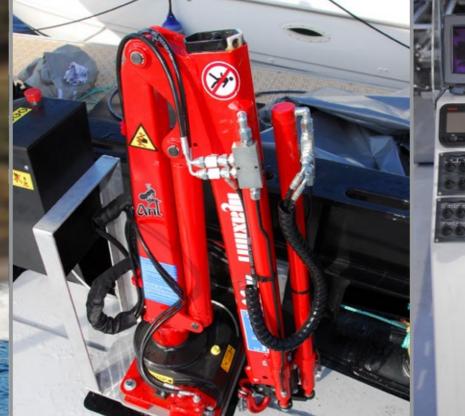
PFG has developed a highly configurable landing craft with a deck carrying capacity of 6,000kg. Capable of carrying a range of vehicles, the vessel can also be fitted with oil spill response or debris recover equipment.

The HDPE construction material allows for hard beaching to occur and with a draught of just 300mm, this is a go-anywhere vessel.

"The HDPE material has proven to be the perfect choice for our oil recovery operations, delivering a fast, safe, stable platform that has required no maintenance over 9 years of service. Since delivery we have had next to no contact with PFG, as everything works, and the vessel still presents as new."









Responder 9.0

Designed as a strong and robust landing craft coupled with oil spill response recovery, the Responder 9.0 is testament to the flexibility and adaptability of the Aquatruck range. The vessel has a 2,500kg deck loading capacity, capable of carrying a Landcruiser or smaller vehicles, quad bikes and trailers.

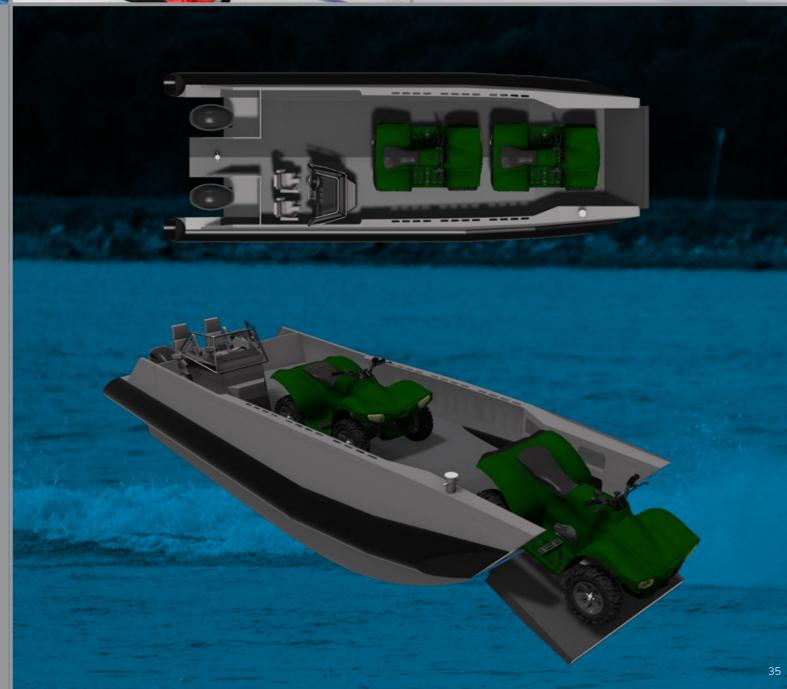
The landing ramp is opened and closed using hydraulic control and the draught of the vessel is only 0.3m. The HDPE material used in the Aquatruck construction is capable of hard beaching and can withstand placement on rocks, allowing for go-anywhere operations to access remote locations or recover from difficult terrain.

The vessel can also be fitted with oil spill or debris recovery apparatus. The first vessel was completed with a removeable oil skimming device complete with 2,500L collection tank and used as an oil response vessel. The responder 9.0 can also be fitted with a crane for recovering heavier items from the water.

Standard military options also include gun turrets, gun and ammunition lockers, dive doors, moon pools, dog transportation, stokes litter or Jason's Cradle.



Model	Responder 9.0
Class	NSCV 2C
Passengers	2 + 4 Crew
Length (OA)	9.0 m
Beam	3.44 m
Draught	0.30 m
Engine	2x 150 HP Outboard
Fuel	500 L
Speed	32 knots
Options	aft/side console, canopy, oil spill or debris recovery, crane, gun turrets, gun lockers, gun and ammunition lockers, dive doors, moon pools, dog transportation, stokes litter or jason's cradle







SUPPORT CRAFT

PFG's range of vessels includes Support Craft for civilised harbour and marina roles within the defence and security sector.

These vessels are nominally fitted with lifting capacity and towing features, and serve as general workboats.

Stability of vessel is paramount in lifting operations and HDPE construction material is ideal for providing the safest platforms. Support Craft, with 3m elevated work platforms fully extended, do not need outriggers to stabilise the vessel.





Utility 7.5

The Utility 7.5 showcases unprecedented stability – using a 3m elevated work platform on the foredeck that, when fully extended, does not require outriggers on the vessel. The Utility 7.5 was designed and delivered as a customised vessel to port authorities, for on water inspection of vessels, harbours and port infrastructure.

The Utility range can be supplied with or without the elevated work platform and is capable of incorporating other useful equipment for port operations, such as oil and debris booms, and customised seating for transfer of personnel.

Model	Utility 7.5
Class	NSCV2C Restricted
Passengers	2 + 4 Crew
Length (OA)	7.78 m
Beam	3.49 m
Draught	0.53 m
Engine	2x 40 HP Outboard
Fuel	400 L
Speed	10 knots
Options	elevated work platform, oil and debris booms, stokes litters, custom seating plans







Ocean 8.8

Born of a need to provide crew transfer vessels with lifting capacity for the Southern Ocean, the Ocean 8.8 is a powerful blue water vessel. It has a simple and rugged layout, making it ideal for transferring a small crew with lots of equipment. The cabin layout is large enough for all crew to be out of the weather, however small enough and aft positioned to maximise foredeck space.

The 500mm vibration-absorbing HDPE hard collars create a smooth ride, provide stability at rest and do not puncture like typical soft collared vessels.

The Ocean 8.8 is optioned with either outboards or jets, towing post, deck winch and crane.

Model	Ocean 8.8
Class	NSCV 3D
Passengers	2 + 4 Crew
Length (OA)	8.8 m
Beam	3.0 m
Draught	0.57 m
Engine	2x 150 HP Outboard
Fuel	150-400 L
Speed	35 knots
Options	outboards / inboard jets, towing post, winch, crane







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