S 102 Valiant - 1987

United Kingdom



Type: SSN - Nuclear Powered Attack Submarine
Max Depth: -300 m
Max Speed: 28 kt
Commissioned: 1987
Decommissioned: 1994
Length: 86.9 m
Beam: 10.1 m
Draft: 8.2 m
Crew: 103
Displacement: 4500 t
Displacement Full: 5000 t
Propulsion: 1x Nuclear Reactor

Sensors / EW:
- UA-4 - ESM, RWR, Radar Warning Receiver, Max range: 222.2 km
- Type 2024 - (1976, Clip-On) TASS, Passive-Only Towed Array Sonar System, TASS, Passive-Only Towed Array Sonar System, Max range: 74.1 km
- Type 2019 [DUUG 2] - (1976, Clip-On) Acoustic Intercept (Active Sonar Warning), Acoustic Intercept, Max range: 66.7 km
- Type 2007AA - (1972) Hull Sonar, Passive-Only, Hull Sonar, Passive-Only Ranging Flank Array Search & Track, Max range: 74.1 km
- Type 2001BC - (SSN Bow Sonar) Hull Sonar, Active/Passive, Hull Sonar, Active/Passive Search, Max range: 33.3 km
- Type 1006(1) [KH 19/9A] - (Submarines) Radar, Radar, Surface Search & Navigation, Max range: 118.5 km
- Generic Submarine Periscope, Optical - (1980s, 1.5x/8x Zoom) Visual, Visual, Surveillance Periscope, Max range: 41.7 km
- Generic Submarine Periscope, LLTV - (2000s/2010s, Gen 3, 1.5x/8x Zoom) Visual, LLTV, Surveillance & Navigation Camera, Max range: 41.7 km

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Weapons / Loadouts:
- UGM-84B Harpoon IA - (1983) Guided Weapon. Surface Max: 120.4 km.
- Mk24 Tigerfish Mod 2 - (1987, Dual) Torpedo. Surface Max: 7.4 km. Subsurface Max: 7.4 km.

OVERVIEW: The VALIANT is a nuclear-powered patrol attack submarine (SSN).

DETAILS: The VALIANT class were primarily used in the anti-submarine role. They incorporated the rafting concept, to reduce machinery noise. They also included a diesel-electric generator for silent running.

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Specifications:

Displacement: 4,000 (Light); 4,800 tons submerged.
Speed: 28 knts (submerged)
Engineering: 1 pressurized water-cooled reactor; 1 shaft
Diving Depth: 300 meters
Range:
Complement: 116
Hulls built: 2
Period of Service: 1966-1994

NOTES: Units in class: VALIANT (S 102); WARSPITE (S 103)

SOURCES: Moore, John Evelyn. Jane's Fighting Ships 1987-88. London: Jane's Pub, 1987, pg. 658 ; HMS Valiant (S102) - Wikipedia, the free encyclopedia. (n.d.). Retrieved May 4, 2015, from http://en.wikipedia.org/wiki/HMS_Valiant_(S102)