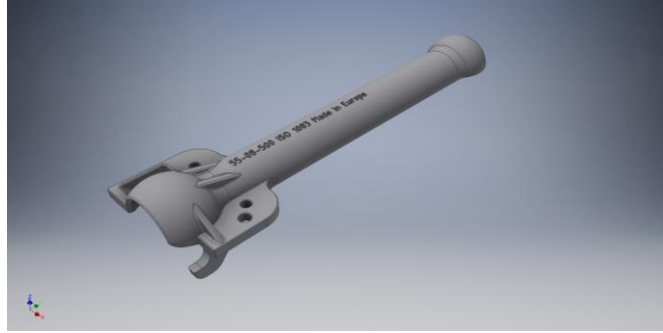


Nautilus Pipe

Subsea Cable Protection & Ballast System

NP-55-08-500 Technical Specification



General information

Nautilus Pipe has been developed in line with industry requirements for cable protection. The Nautilus Pipe cable protection and ballast system can be used to protect cables from external impact, (over) bending, avoiding instability on the seabed and can be installed in any water-depth.

The design of Nautilus Pipes ensures ease of mounting directly from the installation vessel or by divers on the seabed. Due to the unisex design of the pipes, no attention needs to be given to have the right shell at the right location; Nautilus Pipes are all identical due to stringent QA/QC-procedures during production.

The Nautilus Pipes can be bolted together, however the unique 'twist-n-lock' design ensures that even without bolting, the mounted Nautilus Pipe remains in place. The bolting requirement needs to be assessed on a project basis, to arrive at the right Client-solution.

The Nautilus Pipe comes in standard sizes but the design can be modified to meet Client specific requirements.

Segment length - overall	: 559 mm
Segment length - effective	: 500 mm
Min. diameter (internal)	: 55 mm (cable diameter 25 -45 mm)
Max. diameter (external)	: 110 mm
Max. dimension (external)	: 168 mm
Min. wall thickness	: 8 mm

Material	: Ductile Iron to ISO 1083
Tensile strength / elongation	: 400 mPa / 15%
Impact resistance	: > 5 kJ
Corrosion resistance (seawater)	: excellent
Typical material loss	: < 0.1mm/yr

Weight per segment	: 4,5 kg
Weight per meter (air)	: 18,0 kg
Weight per meter (subsea)	: 16,2 kg
Min radius (centre)	: 2,4 m