

Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

Manufacturer	Centek Industries
Address	116 Plantation Oak Drive, Thomasville, GA, 31792, United States
Type	Marine Diesel Exhaust Hose And Components
Description	Centek F.R.P. Wet Marine Exhaust Components. TYPES Vernatone mufflers, Centubular™ mufflers, Vernalift™, Gas/water separation mufflers, Gen-Sep™ / Combo-Sep™, Gen Kleen™, Vernatube™
Trade Name	Vernatone mufflers, Centubular™ mufflers, Vernalift™, Gas/water separation mufflers, Gen-Sep™ / Combo-Sep™, Gen Kleen™, Vernatube™
Application	Diesel exhaust gas system components installed in small craft with engine sizes up to 2,500hp
Specified Standard	LR Rules and Regulations for the Classification of Ships ABYC – standard P-1 ASTM D-635 US Navy/USCG MIL-R-21607 & MIL-R-7575

71 Fenchurch Street, London, EC3M 4BS, United Kingdom

Emad Jodeh

Senior Mechanical / Wellhead Engineer to
Lloyd's Register EMEA
A member of the Lloyd's Register group

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Other Conditions

1. Erosion/corrosion resistant shut off flaps are to be fitted on the vessel's hull or pipe end, or other acceptable arrangements provided, to prevent water flooding the system or entering the engine exhaust manifold.
2. For craft over 24m, a remotely controlled shut off valve is to be fitted at the ship side.

This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

Previous Version:

The attached Design Appraisal Document No. 06/00077(E2) and its supplementary Type Approval Terms and Conditions form part of this Certificate.

All other details remain as the previous Certificate No. 06/00077(E1) to which this extension should be attached.

The Design Appraisal Document LR21447035TA and its supplementary Type Approval Terms and Conditions form part of this Certificate.