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Product Name :
Watertight Model Self-Propulsion Propeller Dynamometer

Product Code :
LBNY-0005-1970005



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Description :

This additional sealing equipment can be taken out easily and can be replaced by the sealing arrangement for use in ship models in the towing tank in order to reduce friction So if the additional equipment for use of the dynamometers in a cavitation tunnel is ordered, the dynamometers are also suitable for use in ship models in a towing tank. In the first case, they are provided only with a sealing arrangement suitable for sealing against water pressure whereas in the latter case, they are supplied with additional equipment that seals the propeller dynamometers against relatively high vacuum and against pressure up to 1 bar above atmospheric pressure.

Technical Specification :

Material of Casing Stainless Steel and Plexiglas
Rated torque -354 in-lbs ($\pm 40\text{Nm}$)
Rated thrust 157.5 lbs ($\pm 700\text{N}$)
For 3 minutes it is permitted to increase the speed in air up to 2500rpm
Maximum Constant Speed in Water 3000 rpm
Measuring system for torque and thrust measurement Full bridge strain gauge type about 240 Ohm
Overload in torque and thrust permitted for a short period 50%
Sensitivity at rated load for torque and thrust referred to the excitation voltage. about 1.6
Maximum constant speed in air 1000 rpm
Recommended supply voltage for torque and thrust measurement d.c. or a.c. upto 8(V)
Maximum supply voltage for torque and thrust measurement 20V
Input and output shaft dimensions (mm diameter x mm length) 16 h6 24
Total length 485mm
Nett Weight without cables 7.7 kg.



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