
INTERNATIONAL STANDARD



4051

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Shipbuilding — Inland vessels — Steering gear — Values of torques

Construction navale — Bateaux de navigation intérieure — Servomoteurs — Valeurs des moments de rotation

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FOREWORD

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO member bodies). The work of developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been set up has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 4051 was developed by Technical Committee ISO/TC 8, *Shipbuilding*, and was circulated to the member bodies in June 1976.

It has been approved by the member bodies of the following countries:

Austria	Hungary	Poland
Belgium	India	Romania
Brazil	Ireland	United Kingdom
Chile	Italy	U.S.S.R.
Czechoslovakia	Mexico	Yugoslavia
France	Netherlands	
Germany	Philippines	

No member body expressed disapproval of the document.

Shipbuilding — Inland vessels — Steering gear — Values of torques

1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies the values of torques for steering gears controlling one or more rudders (rotating propelling nozzles), used in vessels for inland waterways.

2 DEFINITION

For the purposes of this International Standard, the following definition applies :

nominal torque : The greatest calculated working moment developed by the steering gear and characterizing its type size.

3 TECHNICAL CHARACTERISTICS

3.1 Torques

Torques of steering gears shall have the values indicated in the table.

TABLE — Torque values

Nominal torque, MN·m
$6,3 \times 10^{-3}$
$10,0 \times 10^{-3}$
$16,0 \times 10^{-3}$
$25,0 \times 10^{-3}$
$40,0 \times 10^{-3}$
$63,0 \times 10^{-3}$
$100,0 \times 10^{-3}^*$

* For electro-hydraulic steering only.

3.2 Swing of the rudder

The greatest working angle of swing of the rudder equals 35° or 90° to either side of the zero position.