

ISO

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

ISO RECOMMENDATION

R 38

SHIPBUILDING DETAILS FOR SEA NAVIGATION
BOLLARDS (VERTICAL TYPE) WITH AND WITHOUT LUGS

1st EDITION

COPYRIGHT RESERVED

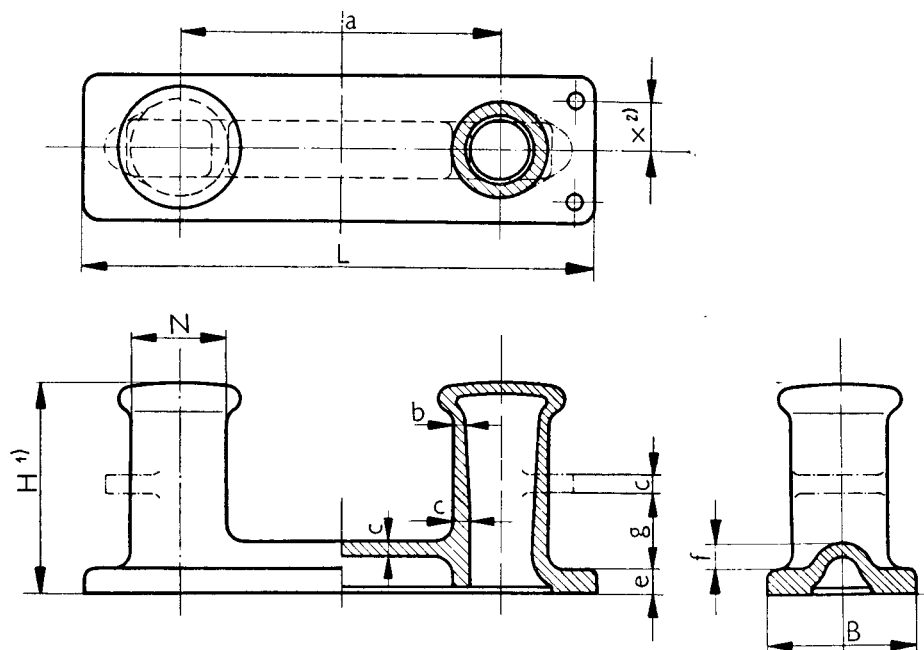
The copyright of ISO Recommendations and ISO Standards belongs to ISO Member Bodies. Reproduction of these documents, in any country, may be authorized therefore only by the national standards organization of that country, being a member of ISO.

For each individual country the only valid standard is the national standard of that country.

Printed in Switzerland

Also issued in French and Russian. Copies to be obtained through the national standards organizations.

SHIPBUILDING DETAILS FOR SEA NAVIGATION
 BOLLARDS (VERTICAL TYPE) WITH AND WITHOUT LUGS



N = nominal size of bollard = diameter of barrel.

b = thickness of barrel at top.

c = thickness of barrel at bottom, thickness of lug and longitudinal rib.

n = number of bolts or rivets.

d = diameter of bolts or rivets.

P = maximum admissible breaking load of the corresponding rope.

NOTES

If material other than cast iron^{a)} is used, the thicknesses should be changed accordingly.

The dimensions in feet and inches are considered as the equivalents of the corresponding dimensions in millimetres.

Bollards are designated by their nominal sizes expressed either in millimetres or in inches.

Examples: *250 mm bollard* or *10 inch bollard*.

The illustrations do not define the construction.

The construction with lugs is indicated by thin long chain lines.

