
INTERNATIONAL STANDARD 3948

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

Shipbuilding — Inland vessels — Compressed-air systems — Pressure ranges

*Construction navale — Bateaux de navigation intérieure — Installations d'air comprimé et de démarrage —
Échelles de pressions*

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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 3948 was developed by Technical Committee ISO/TC 8, *Shipbuilding*, and was circulated to the member bodies in August 1975.

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

Austria	Ireland	<u>ISO 3948:1977</u>
Belgium	Italy	https://standards.iteh.ai/catalog/standards/sist/dfd3c0e3-1007-4d85-9cf5-4f6641088219/iso-3948-1977
Bulgaria	Japan	Romania
Czechoslovakia	Korea, Dem. P. Rep. of	Turkey
France	Netherlands	United Kingdom
Germany	Poland	U.S.S.R.
		Yugoslavia

No member body expressed disapproval of the document.



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AMENDMENT SLIP

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Shipbuilding — Inland vessels — Compressed-air systems — Pressure ranges

MODIFICATION TO FOREWORD (*Inside front cover*)

The ISO member body for Hungary has now approved this International Standard. Hungary should therefore be included in the list of countries whose member bodies have approved the document.

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Shipbuilding — Inland vessels — Compressed-air systems — Pressure ranges

0 INTRODUCTION

This International Standard has been drawn up with the object of unifying the equipment, machinery and pipeline elements of compressed-air systems of vessels for inland navigation.

1 SCOPE

This International Standard specifies ranges of pressure in starting-air systems and compressed-air systems of vessels for inland navigation.

2 FIELD OF APPLICATION

2.1 The pressure range for starting-air systems is intended for selection of equipment, machinery and pipeline elements of starting-air systems for main and auxiliary engines or diesel-generators, such as air receivers, compressors, fittings, etc.

2.2 The pressure range for compressed-air systems is intended for selection of equipment, machinery and pipeline elements of systems providing operation of the following equipment : blast signals, pneumatic tanks, windshield wipers, towing winch brakes, coupling locks, pneumatic dampers on exhaust-heat boilers, pneumatic control of main engines, ozonizer units, air supply for domestic requirements, blowing kingston valve boxes, casting off towing hooks, releasing anchors, etc.

3 DEFINITIONS

3.1 starting-air pressure : The working pressure for which the air receiver and all components in the starting-air system are designed.

NOTE — When charged to this pressure, the air receiver shall be capable of providing at least the required number of starts of a cold engine before being recharged.

3.2 initial pressure : The highest working pressure for which the starting-air system is calculated.

NOTE — At this pressure, the air supply in the air receivers provides the required number of starts of a cold engine.

4 PRESSURE RANGES

TABLE 1 — Starting-air pressure

kPa
2 000
3 000
6 000
15 000

TABLE 2 — Initial pressure in air receivers

kPa
2 000
3 000
6 000

TABLE 3 — Pressure ensuring the operation of equipment

Principal series	Additional series
kPa	kPa
50	75
100	100
150	125
250	150
	200
400	250
	300
600	400
	500
1 000	600
	700
	800
1 500	1 000
	1 200
	1 500
	2 000
	2 500
	3 000

NOTES

1 Pressure values required for the operation of equipment shall be selected from the principal series. The additional series is to be used in exceptional cases only.

2 100 kPa \approx 1 kgf/cm²

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