INTERNATIONAL STANDARD

ISO 8277

First edition
1988-03-15

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

Shipbuilding — Pipework — Information transfer

Construction navale — Transmission d'informations sur les tuyauteries

Reference number
ISO 8277 : 1988 (E)

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established 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. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 8277 was prepared by Technical Committee ISO/TC 8, *Shipbuilding and marine structures*.

Users should note that all International Standards undergo revision from time to time and that any reference made herein to any other International Standard implies its latest edition, unless otherwise stated.

Printed in Switzerland

Shipbuilding — Pipework — Information transfer

1 Scope and field of application

This International Standard lays down the minimum data needed for the prefabrication and assembly of pipework and for its transfer from engineering departments to the workshops of the shipbuilding industry.

The generation, type of presentation and filing organisation of this data is not covered by this International Standard.

2 Reference

ISO 7460, *Shipbuilding — Shiplines — Identification of geometric data.*

3 Pipework information

There are three types of pipework information to be transferred from design to construction: information on standard parts, information on non-standard parts, and administrative information.

No.	Type of information	Comments
3.1	**Information on standard parts**	
3.1.1	Identification	a special sequence of characters that could be part of, or include, one of the numbers given in 3.3
3.1.2	Name, standard	each part shall be given a name and reference shall be made to international, national or industry standards
3.1.3	Pressures:	
3.1.3.1	nominal pressure (PN)	
3.1.3.2	test pressures	strength, tightness, procedure of pressure testing, where not defined by the relevant standard
3.1.4	Nominal diameter (DN)	
3.1.5	Material	
3.1.6	Dimensions	of the finished product, relevant for assembly
3.1.7	Weight (net)	
3.1.8	Location	global and local; the position of the part should be given in the ship or plant coordinate system, and in relative measures (optional)
3.1.9	Attachments included	description of parts necessary for the assembly, e.g. gaskets, bolts, supports, etc.
3.1.10	Certification or information on certification required	test certificate

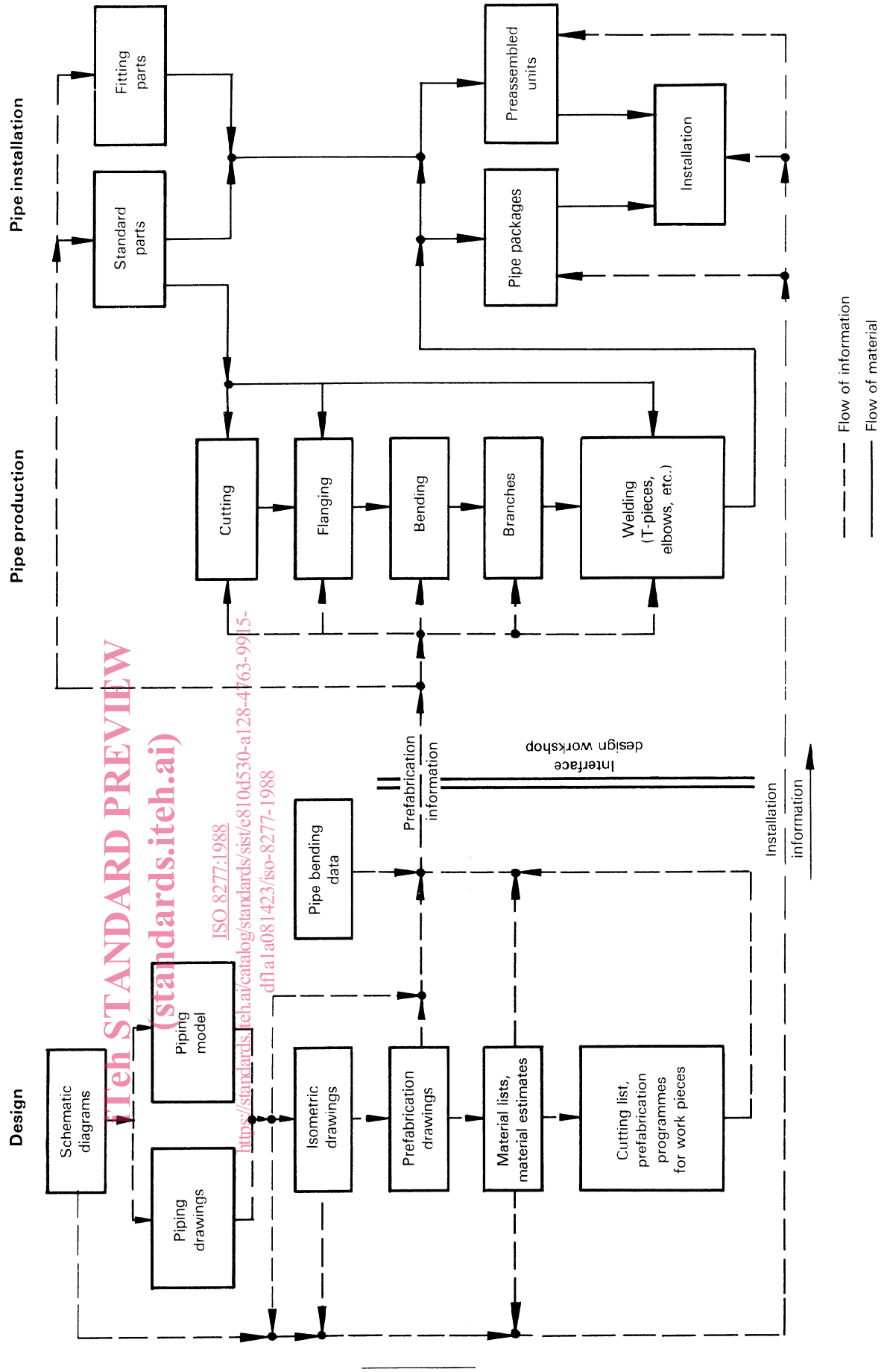
No.	Type of information	Comments
3.2	**Information on non-standard parts**	
3.2.1	Identification	see 3.1.1
3.2.2	Name, drawing number	each part shall be given a name and reference shall be made to the drawing which contains the manufacturing information
3.2.3	Pressures:	
3.2.3.1	nominal pressure (PN)	
3.2.3.2	test pressures	strength, tightness, and pressure testing procedure which should follow an international, national or industry standard
3.2.4	Nominal diameter (DN)	
3.2.5	Material	
3.2.6	Semi-manufactured articles	name and dimensions prior to production
3.2.7	Dimensions	see 3.1.6
3.2.8	Manufacturing information:	
3.2.8.1	for cutting	
3.2.8.2	for flanging and hole orientation	
3.2.8.3	for bending, including sequence of bending and heat treatment	
3.2.8.4	for welding, including joint preparation and heat treatment	
3.2.8.5	for finishing	
3.2.8.6	for testing	
3.2.8.7	for preservation	
3.2.8.8	for labelling	
3.2.8.9	for assembly	
3.2.8.10	for insulating	
3.2.9	Weight (net)	
3.2.10	Location	see 3.1.8
3.2.11	Attachments included	see 3.1.9
3.2.12	Information on certification required	the prefabricated parts shall be approved by the supervisory body indicated

No.	Type of information	Comments
3.3	**Administrative information**	
3.3.1	system number	a sequence of alpha, numeric or alphanumeric characters
3.3.2	drawing number	see 3.3.1
3.3.3	stock number	see 3.3.1
3.3.4	ordering number	see 3.3.1
3.3.5	part number	see 3.3.1
3.3.6	number of pieces	
3.3.7	delivery date	

4 Flow chart

The data and material flow for pipe production and installation and the interface are shown in the flow chart.

Data and material flow for pipe production



This page intentionally left blank

UDC 629.12 : 621.643.07

Descriptors : shipbuilding, pipelines, prefabrication, assembling, information, sets of data.

Price based on 4 pages