Diagrams for the chemical and petrochemical industry - Part 1: Specification of diagrams (ISO 10628-1:2014)



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# EUROPEAN STANDARD

## **EN ISO 10628-1**

# NORME EUROPÉENNE

**EUROPÄISCHE NORM** 

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ICS 01.110; 71.020; 75.020

Supersedes EN ISO 10628:2000

#### **English Version**

# Diagrams for the chemical and petrochemical industry - Part 1: Specification of diagrams (ISO 10628-1:2014)

Schémas de procédé pour l'industrie chimique et pétrochimique - Partie 1: Spécification des schémas de procédé (ISO 10628-1:2014)

Schemata für die chemische und petrochemische Industrie
- Teil 1: Spezifikation der Schemata (ISO 10628-1:2014)

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#### **Foreword**

This document (EN ISO 10628-1:2015) has been prepared by Technical Committee ISO/TC 10 "Technical product documentation" in collaboration with CCMC.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by July 2015, and conflicting national standards shall be withdrawn at the latest by July 2015.

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#### **Endorsement notice**

ed by CEN The text of ISO 10628-1:2014 has been approved by CEN as EN ISO 10628-1:2015 without any modification.

CO	ntents	Page
Fore	eword	iv
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Classification, information content, and presentation of flow diagrams 4.1 General 4.2 Block diagrams 4.3 Process flow diagrams 4.4 Piping and instrumentation diagrams (P&ID)	1 3 3
5	Drafting rules 5.1 General 5.2 Layout of flow diagrams 5.3 Connecting lines 5.4 Inscription 5.5 Scale 5.6 Limits	
Ann	nex A (informative) Examples of flow diagrams for process plants	10

# Diagrams for the chemical and petrochemical industry —

## Part 1:

# **Specification of diagrams**

## 1 Scope

This part of ISO 10628 specifies the classification, content, and representation of flow diagrams. In addition, it lays down drafting rules for flow diagrams for chemical and petrochemical industry.

This International Standard does not apply to electrical engineering diagrams. This part of ISO 10628 is a collective application standard of ISO 15519.

#### 2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 128 (all parts), Technical drawings — General principles of presentation

ISO 7200, Technical product documentation — Data fields in title blocks and document headers

ISO 10209, Technical product documentation — Vocabulary — Terms relating to technical drawings, product definition and related documentation

ISO 14617 (all parts), Graphical symbols for diagrams

ISO 15519 (all parts), Specification for diagrams for process industry

ISO 80000-1, Quantities and units — Part 1: General

IEC 62424:2008, Representation of process control engineering requests in P&I diagrams and data exchange between P&ID tools and PCE-CAE tools

#### 3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 10209, ISO 14617 (all parts), ISO 15519 (all parts), and IEC 62424 apply.

## 4 Classification, information content, and presentation of flow diagrams

#### 4.1 General

Flow diagrams show the structure and function of the process plants and are part of the entire set of technical documents which are required for planning, assembly, construction, management, commissioning, operation, maintenance, shutdown, and decommissioning of a plant.

Flow diagrams are a means by which information is exchanged between parties involved in the construction, assembly, operation, and maintenance of such process plants. General rules and recommendations for preparation of flow diagrams are given in ISO 15519.