ISO 15519-1:2010-03 (E)

Specification for diagrams for process industry - Part 1: General rules

Contents

Page

Foreword v

Introduction vi

1 Scope 1

2 Normative references 1

3 Terms and definitions 2
3.1 Basic terms 2
3.2 Document types 3
3.3 Reference designation 4

4 Documentation principles 5
4.1 General 5
4.2 Technical product documentation 5
4.3 Representation aspects 6

5 Document sheets 7
5.1 General 7
5.2 Identification area 10
5.3 Content areas 10

6 Lines 11
6.1 Types of line 11
6.2 Width of lines 11
6.3 Space between lines 11
6.4 Leader lines and reference lines 11

7 Reference designations 12
7.1 Introduction 12
7.2 General 12
7.3 Boundary frames 14
7.4 Transition 15
7.5 Objects in a sheet 16

8 Port designations 17

9 Location references 18

10 Technical data and explanatory notes 19
10.1 Components and devices 19
10.2 Flow paths 19
10.3 Explanatory notes 19
10.4 Supplementary diagram symbols 19

11 Graphical symbols 20
11.1 General 20
11.2 Creation of new symbol examples 20
11.3 Features of symbols 20
11.4 Use of symbols in diagrams 22

12 Connections 26
12.1 General 26
12.2 Significant connections 26
12.3 Simplified representation 26
12.4 Joints 26
12.5 Intersections 27
12.6 References for interrupted connecting lines 27
12.7 Objects with two or more system connections 27

13 Layout of diagrams 28
13.1 General aspect 28
13.2 Functional layout 28
13.3 Topographical layout 30

14 Types of diagram 30
14.1 General 30
14.2 Overview diagrams 30
14.3 Function diagrams 31

Annex A (informative) Diagram symbols 34

Annex B (informative) Document type designation and content of information 35

Bibliography 37