BS ISO 18582-2:2018

BSI Standards Publication

Fluid power - Specification of reference dictionary

Part 2: Definitions of classes and properties of pneumatics

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National foreword

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A list of organizations represented on this committee can be obtained on request to its secretary.

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Fluid power — Specification of reference dictionary —

Part 2: Definitions of classes and properties of pneumatics

Transmissions hydrauliques et pneumatiques — Spécification d'un dictionnaire de référence —

Partie 2: Définitions des classes et propriétés relatives aux transmissions pneumatiques

Reference number
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Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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This document was prepared by Technical Committee ISO/TC 131, *Fluid power systems*, Subcommittee SC 1, *Symbols, terminology and classifications*.

A list of all parts in the ISO 18582 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

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Introduction

This document provides sufficient detail of information required for an unambiguous electronic data exchange for the business area of pneumatic fluid power systems. ISO 5598 provides only terms and definitions for fluid power in general which is not sufficient for electronic data exchange.

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Fluid power — Specification of reference dictionary —

Part 2:
Definitions of classes and properties of pneumatics

1 Scope

This document specifies a reference dictionary of standardized product properties for the area of pneumatic fluid power on the basis of ISO 18582-1.

The properties are determined on the basis of standardized attributes.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO/IEC Guide 77-2, *Guide for specification of product properties and classes — Part 2: Technical principles and guidance*

ISO 13584-42, *Industrial automation systems and integration — Parts library — Part 42: Description methodology: Methodology for structuring parts families*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 13584-42 and ISO/IEC Guide 77-2 apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

— IEC Electropedia: available at http://www.electropedia.org/

— ISO Online browsing platform: available at https://www.iso.org/obp

4 General principles

Each property shall be defined in a particular definition class, which defines the domain of all properties specified therein. Once defined (in their definition class) the properties can be referenced, i.e. used, in other classes, e.g. in (standardized) application classes or immediately in a user's system. The entirety of definition classes makes up the ISO/TC 131 reference hierarchy.

The definition class ICS 23, fluid systems and components for general use, form part of the reference dictionary for fluid power systems.

The attribute information for the definition class is given in Clause 5. The attribute information for their associated properties is specified in Clause 6. The application classes are given in Clause 7 (see also Annex A).

NOTE There are additional attributes to those of the ones of ISO 18582-1 in the tables in Clauses 5, 6 and 7, e.g. ICS.

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5 Definition class: fluid systems and components for general use, 18582#KAA001-001-001

Hierarchy	Definition class
Identifier [Information supplier-Code-Version-Revision]	18582#KAA001-001-001
Preferred name	**23 fluid systems and components for general use**
Short name	fluid systems
Synonymous name	
Definition	ICS class of fluid systems and components for general use
Source document of definition	
Note	
Remark	The class and its definition are based on the classification of ICS.
Applicable properties	
Figure	
Classification to ICS	23.000
Its superclass	
Preferred name of superclass	
Keyword	
Applicable types	
Subclass selectors	
Class selector values	
Status	60.60
Date of original Definition	2018
Date of current version	2018
Date of current Revision	

6 Properties

6.1 18582#KAA002-001-001: initial value of pressure measuring range

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	**18582#KAA002-001-001**
Preferred name	**initial value of pressure measuring range**

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Hierarchy	Properties
Short name	
Synonymous name	
Preferred symbol	
Synonymous symbol	
Definition	lower limit of the range of values for a measured variable for which the measurement deviations of a measuring device must remain within defined limits
Source document of definition	
Note	NOTE 1 The measuring range is specified by the initial value and the final value. The difference between the final and initial values is called the measuring span. NOTE 2 The output range is the range of all those values that can be provided by the measuring device as its output. The indicating range is the output range on measuring devices with displays. The term nominal range for the output range should be avoided. (This term is not uniformly used and can also mean "measuring range" or "range of nominal values".) According to DIN 1319-1.
Remark	UN ECE code for unit: BAR IEC classification: K15
Formula	
Unit of measure	bar
Alternative unit	
Type of property **D = dependent; N = non-dependent;** **C = condition**	N
Depends on	
Domain	
Property type classification	Real
Value specification	
List of values	
List of value names	
Value format	
Figure	
Classification to ICS	23.000
Definition class	18582#KAA001-001-001
Preferred name of definition class	23 fluid systems and components for general use
Status	60.60 - International Standard published
Date of original Definition	
Date of current version	
Date of current Revision	

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6.2 18582#KAA003-001-001: shifting-on time

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	**18582#KAA003-001-001**
Preferred name	**shifting on-time**
Short name	
Synonymous name	switch on-time
Preferred symbol	
Synonymous symbol	
Definition	length of time that elapses between the control signal (electric or pneumatic) being applied and the pressure increasing at the respective valve output until 10 % of the defined operating pressure is reached
Source document of definition	Based on ISO 12238:2001
Note	NOTE Only a pressure sensor is connected to the valve output.
Remark	UN ECE code for unit: C26 IEC classification: T07
Formula	
Unit of measure	ms
Alternative unit	
Type of property **D = dependent; N = non-dependent;** **C = condition**	N
Depends on	
Domain	
Property type classification	Real
Value specification	
List of values	
List of value names	
Value format	
Figure	
Classification to ICS	23.000
Definition class	18582#KAA001-001-001
Preferred name of definition class	23 fluid systems and components for general use
Status	60.60 - International Standard published
Date of original Definition	
Date of current version	
Date of current Revision	

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6.3 18582#KAA004-001-001: condensate drain connection

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	**18582#KAA004-001-001**
Preferred name	**condensate drain connection**
Short name	
Synonymous name	
Preferred symbol	
Synonymous symbol	
Definition	type of connection for draining condensate
Source document of definition	
Note	
Remark	IEC classification: A56
Formula	
Unit of measure	
Alternative unit	
Type of property **D = dependent; N = non-dependent;** **C = condition**	N
Depends on	
Domain	
Property type classification	String
Value specification	EXPLICIT
List of values	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

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Hierarchy	Properties
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Hierarchy	Properties
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Hierarchy	Properties
List of value names	G1
	G1 1/2
	G1 1/4
	G1/2
	G1/4
	G1/8
	G2
	G3/4
	G3/8
	M10
	M10x1
	M10x1,25
	M10x1,5
	M12
	M12x1
	M12x1,25
	M14
	M14x1
	M16
	M16x1
	M16x1,5
	M18x1,5
	M2
	M20
	M20x1
	M20x1,5
	M20x2
	M22
	M22x1
	M22x1,5
	M24
	M24x2
	M24x3
	M26x1,5
	M27x1,5
	M27x2
	M3

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Hierarchy	Properties
	M30x1,5
	M32x2
	M36x2
	M3x0,5
	M4
	M42x2
	M45x1,5
	M48x2
	M4x0,7
	M5
	M5x0,8
	M6
	M6x0,75
	M6x1
	M7
	M8
	M8x0,75
	M8x1
	M9
	NPT1 1/2-11 1/2
	NPT1-11 1/2
	NPT1/16-27
	NPT1/2-14
	NPT1/4-18
	NPT1/8-27
	NPT2-11 1/2
	NPT3/4-14
	NPT3/8-18
	PT1/4
	PT1/8
	R1
	R1 1/2
	R1/2
	R1/4
	R1/8
	R2
	R3/4
	R3/8

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Hierarchy	Properties
	Rp1 Rp1 1/2 Rp1 1/4 Rp1/2 Rp1/4 Rp2 Rp2 1/2 Rp3 Rp3/4 Rp3/8 Rp4 UNC10-24 UNC4-40 UNF10-32 for hose outer-Ø 1/2" for hose outer-Ø 1/4" for hose outer-Ø 1/8" for hose outer-Ø 10 mm for hose outer-Ø 12 mm for hose outer-Ø 15 mm for hose outer-Ø 16 mm for hose outer-Ø 18 mm for hose outer-Ø 22 mm for hose outer-Ø 28 mm for hose outer-Ø 3/16" for hose outer-Ø 3/8" for hose outer-Ø 3 mm for hose outer-Ø 4 mm for hose outer-Ø 5/16" for hose outer-Ø 5/32" for hose outer-Ø 5/8" for hose outer-Ø 6 mm for hose outer-Ø 8 mm
Value format	
Figure	
Classification to ICS	23.000
Definition class	18582#KAA001-001-001
Preferred name of definition class	23 fluid systems and components for general use
Status	60.60 - International Standard published

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Hierarchy	Properties
Date of original Definition	
Date of current version	
Date of current Revision	

6.4 18582#KAA005-001-001: number of pneumatic connections

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	**18582#KAA005-001-001**
Preferred name	**number of pneumatic connections**
Short name	
Synonymous name	
Preferred symbol	
Synonymous symbol	
Definition	quantitative specification of the pressure media connections on a pneumatic component
Source document of definition	
Note	
Remark	IEC classification: A56
Formula	
Unit of measure	
Alternative unit	
Type of property **D = dependent; N = non-dependent;** **C = condition**	N
Depends on	
Domain	
Property type classification	Integer
Value specification	
List of values	
List of value names	
Value format	
Figure	
Classification to ICS	23.000
Definition class	18582#KAA001-001-001
Preferred name of definition class	23 fluid systems and components for general use
Status	60.60 - International Standard published

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Hierarchy	Properties
Date of original Definition	
Date of current version	
Date of current Revision	

6.5 18582#KAA006-001-001: number of pneumatic output connections

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	**18582#KAA006-001-001**
Preferred name	**number of pneumatic output connections**
Short name	
Synonymous name	
Preferred symbol	
Synonymous symbol	
Definition	quantitative specification of the pressure media connections on the outlet side of a pneumatic component
Source document of definition	
Note	
Remark	IEC classification: Q56
Formula	
Unit of measure	
Alternative unit	
Type of property **D = dependent; N = non-dependent;** **C = condition**	N
Depends on	
Domain	
Property type classification	Integer
Value specification	
List of values	
List of value names	
Value format	
Figure	
Classification to ICS	23.000
Definition class	18582#KAA001-001-001
Preferred name of definition class	23 fluid systems and components for general use
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Hierarchy	Properties
Date of original Definition	
Date of current version	
Date of current Revision	

6.6 18582#KAA007-001-001: number of pneumatic input connections

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	**18582#KAA007-001-001**
Preferred name	**number of pneumatic input connections**
Short name	
Synonymous name	
Preferred symbol	
Synonymous symbol	
Definition	quantitative specification of the pressure media connections on the input side of a pneumatic component
Source document of definition	
Note	
Remark	IEC classification: Q56
Formula	
Unit of measure	
Alternative unit	
Type of property **D = dependent; N = non-dependent;** **C = condition**	N
Depends on	
Domain	
Property type classification	Integer
Value specification	
List of values	
List of value names	
Value format	
Figure	
Classification to ICS	23.000
Definition class	18582#KAA001-001-001
Preferred name of definition class	23 fluid systems and components for general use
Status	60.60 - International Standard published

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Hierarchy	Properties
Date of original Definition	
Date of current version	
Date of current Revision	

6.7 18582#KAA008-001-001: number of pneumatic exhaust connections

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	**18582#KAA008-001-001**
Preferred name	**number of pneumatic exhaust connections**
Short name	
Synonymous name	
Preferred symbol	
Synonymous symbol	
Definition	quantitative specification of the pressure media connections for exhausting a pneumatic component
Source document of definition	
Note	
Remark	IEC classification: Q56
Formula	
Unit of measure	
Alternative unit	
Type of property **D = dependent; N = non-dependent;** **C = condition**	N
Depends on	
Domain	
Property type classification	Integer
Value specification	
List of values	
List of value names	
Value format	
Figure	
Classification to ICS	23.000
Definition class	18582#KAA001-001-001
Preferred name of definition class	23 fluid systems and components for general use
Status	60.60 - International Standard published

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Hierarchy	Properties
Date of original Definition	
Date of current version	
Date of current Revision	

6.8 18582#KAA009-001-001: number of pneumatic pilot ports

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	**18582#KAA009-001-001**
Preferred name	**number of pneumatic pilot ports**
Short name	
Synonymous name	
Preferred symbol	
Synonymous symbol	
Definition	quantitative specification of the pressure media pilot ports on a pneumatic component
Source document of definition	
Note	
Remark	IEC classification: Q56
Formula	
Unit of measure	
Alternative unit	
Type of property **D = dependent; N = non-dependent;** **C = condition**	N
Depends on	
Domain	
Property type classification	Integer
Value specification	
List of values	
List of value names	
Value format	
Figure	
Classification to ICS	23.000
Definition class	18582#KAA001-001-001
Preferred name of definition class	23 fluid systems and components for general use
Status	60.60 - International Standard published

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Hierarchy	Properties
Date of original Definition	
Date of current version	
Date of current Revision	

6.9 18582#KAA010-001-001: type of cushioning

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	**18582#KAA010-001-001**
Preferred name	**type of cushioning**
Short name	
Synonymous name	
Preferred symbol	
Synonymous symbol	
Definition	type of the device for absorbing kinetic energy when approaching the end positions of a fluidic drive
Source document of definition	
Note	
Remark	IEC classification: A58
Formula	
Unit of measure	
Alternative unit	
Type of property **D = dependent; N = non-dependent;** **C = condition**	N
Depends on	
Domain	
Property type classification	String
Value specification	EXPLICIT
List of values	1 2 3 4 5
List of value names	Elastic Pneumatically adjustable Hydraulically adjustable Permanent pneumatic setting Permanent hydraulic setting
Value format	

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Hierarchy	Properties
Figure	
Classification to ICS	23.000
Definition class	18582#KAA001-001-001
Preferred name of definition class	23 fluid systems and components for general use
Status	60.60 - International Standard published
Date of original Definition	
Date of current version	
Date of current Revision	

6.10 18582#KAA011-001-001: type of stroke reduction

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	**18582#KAA011-001-001**
Preferred name	**type of stroke reduction**
Short name	
Synonymous name	
Preferred symbol	
Synonymous symbol	
Definition	position and arrangement of the adjustment options for stroke reduction
Source document of definition	
Note	
Remark	IEC classification: A58
Formula	
Unit of measure	
Alternative unit	
Type of property **D = dependent; N = non-dependent;** **C = condition**	N
Depends on	
Domain	
Property type classification	String
Value specification	EXPLICIT
List of values	1 2 3 4

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Hierarchy	Properties
List of value names	unilateral at both ends unilaterally extending unilaterally retracting
Value format	
Figure	
Classification to ICS	23.000
Definition class	18582#KAA001-001-001
Preferred name of definition class	23 fluid systems and components for general use
Status	60.60 - International Standard published
Date of original Definition	
Date of current version	
Date of current Revision	

6.11 18582#KAA012-001-001: type of pneumatic connections

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	**18582#KAA012-001-001**
Preferred name	**type of pneumatic connections**
Short name	
Synonymous name	
Preferred symbol	
Synonymous symbol	
Definition	geometric requirements for the standardised pneumatic connections
Source document of definition	
Note	
Remark	IEC classification: A56
Formula	
Unit of measure	
Alternative unit	
Type of property **D = dependent; N = non-dependent;** **C = condition**	N
Depends on	
Domain	
Property type classification	String
Value specification	EXPLICIT

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Hierarchy	Properties
List of values	1 2 3 4 5 6
List of value names	to ISO 16030 to ISO 5599 to ISO 15407 to ISO 14743 to ISO 16030 and ISO 14743 not to ISO
Value format	
Figure	
Classification to ICS	23.000
Definition class	18582#KAA001-001-001
Preferred name of definition class	23 fluid systems and components for general use
Status	60.60 - International Standard published
Date of original Definition	
Date of current version	
Date of current Revision	

6.12 18582#KAA013-001-001: type of shaft end

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	**18582#KAA013-001-001**
Preferred name	**type of shaft end**
Short name	
Synonymous name	
Preferred symbol	
Synonymous symbol	
Definition	design at the shaft end
Source document of definition	
Note	
Remark	IEC classification: A58
Formula	
Unit of measure	
Alternative unit	

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Hierarchy	Properties
Type of property **D = dependent; N = non-dependent;** **C = condition**	N
Depends on	
Domain	
Property type classification	String
Value specification	EXPLICIT
List of values	1 2 3 4 5 6 7
List of value names	through with flat chamfer at both ends through, hollow with flange with feather key toothed additional
Value format	
Figure	
Classification to ICS	23.000
Definition class	18582#KAA001-001-001
Preferred name of definition class	23 fluid systems and components for general use
Status	60.60 - International Standard published
Date of original Definition	
Date of current version	
Date of current Revision	

6.13 18582#KAA014-001-001: shifting-off time

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	**18582#KAA014-001-001**
Preferred name	**shifting off -time**

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Hierarchy	Properties
Short name	
Synonymous name	**switch off-time**
Preferred symbol	
Synonymous symbol	
Definition	length of time that elapses between the control signal (electric or pneumatic) being withdrawn and the pressure decreasing at the respective valve output until 90 % of the defined operating pressure is reached
Source document of definition	Based on ISO 12238:2001
Note	NOTE Only one pressure sensor is attached to the valve output.
Remark	UN ECE code for unit: C26 IEC classification: T07
Formula	
Unit of measure	ms
Alternative unit	
Type of property **D = dependent; N = non-dependent;** **C = condition**	N
Depends on	
Domain	
Property type classification	Real
Value specification	
List of values	
List of value names	
Value format	
Figure	
Classification to ICS	23.000
Definition class	18582#KAA001-001-001
Preferred name of definition class	23 fluid systems and components for general use
Status	60.60 - International Standard published
Date of original Definition	
Date of current version	
Date of current Revision	

6.14 18582#KAA015-001-001: size

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	**18582#KAA015-001-001**
Preferred name	**size**

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Hierarchy	Properties
Short name	
Synonymous name	
Preferred symbol	
Synonymous symbol	
Definition	unitless specification that implies a characteristic dimension for a fluidic device
Source document of definition	
Note	NOTE A characteristic dimension of a fluid power device is the piston diameter of actuators or the size of the fluid power connection of valves.
Remark	IEC classification: A58
Formula	
Unit of measure	
Alternative unit	
Type of property **D = dependent; N = non-dependent;** **C = condition**	N
Depends on	
Domain	
Property type classification	String
Value specification	
List of values	
List of value names	
Value format	
Figure	
Classification to ICS	23.000
Definition class	18582#KAA001-001-001
Preferred name of definition class	23 fluid systems and components for general use
Status	60.60 - International Standard published
Date of original Definition	
Date of current version	
Date of current Revision	

6.15 18582#KAA016-001-001: actuation type

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	**18582#KAA016-001-001**
Preferred name	**actuation type**
Short name	

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Hierarchy	Properties
Synonymous name	
Preferred symbol	
Synonymous symbol	
Definition	means of moving a fluidic valve from its normal position to its operating position or vice versa by means of external force
Source document of definition	
Note	
Remark	IEC classification: A58
Formula	
Unit of measure	
Alternative unit	
Type of property **D = dependent; N = non-dependent;** **C = condition**	N
Depends on	
Domain	
Property type classification	String
Value specification	EXPLICIT
List of values	1 2 3 4 5
List of value names	mechanical electrical pneumatic hydraulic manual
Value format	
Figure	
Classification to ICS	23.000
Definition class	18582#KAA001-001-001
Preferred name of definition class	23 fluid systems and components for general use
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6.16 18582#KAA017-001-001: operating pressure for max. vacuum

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	**18582#KAA017-001-001**
Preferred name	**operating pressure for max. vacuum**
Short name	
Synonymous name	
Preferred symbol	p
Synonymous symbol	
Definition	pressure in a vacuum generator based on the Venturi principle at which the maximum difference between the air pressure and absolute pressure is achieved under steady-state conditions
Source document of definition	
Note	
Remark	UN ECE code for unit: PAL IEC classification: K15
Formula	
Unit of measure	Pa
Alternative unit	
Type of property **D = dependent; N = non-dependent;** **C = condition**	N
Depends on	
Domain	
Property type classification	Real
Value specification	
List of values	
List of value names	
Value format	
Figure	
Classification to ICS	23.000
Definition class	18582#KAA001-001-001
Preferred name of definition class	23 fluid systems and components for general use
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6.17 18582#KAA018-001-001: moving mass

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	**18582#KAA018-001-001**
Preferred name	**moving mass**
Short name	
Synonymous name	
Preferred symbol	m
Synonymous symbol	
Definition	dead weight of the moving parts of the fluidic drive
Source document of definition	
Note	
Remark	UN ECE code for unit: KGM IEC classification: K01
Formula	
Unit of measure	kg
Alternative unit	
Type of property **D = dependent; N = non-dependent;** **C = condition**	N
Depends on	
Domain	
Property type classification	Real
Value specification	
List of values	
List of value names	
Value format	
Figure	
Classification to ICS	23.000
Definition class	18582#KAA001-001-001
Preferred name of definition class	23 fluid systems and components for general use
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6.18 18582#KAA019-001-001: moving mass with 0 mm stroke

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	**18582#KAA019-001-001**
Preferred name	**moving mass with 0 mm stroke**
Short name	
Synonymous name	
Preferred symbol	m
Synonymous symbol	
Definition	portion of the dead weight represented by the stroke-independent, moving parts of a fluidic drive
Source document of definition	
Note	
Remark	UN ECE code for unit: KGM IEC classification: K01
Formula	
Unit of measure	kg
Alternative unit	
Type of property **D = dependent; N = non-dependent;** **C = condition**	N
Depends on	
Domain	
Property type classification	Real
Value specification	
List of values	
List of value names	
Value format	
Figure	
Classification to ICS	23.000
Definition class	18582#KAA001-001-001
Preferred name of definition class	23 fluid systems and components for general use
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6.19 18582#KAA020-001-001: moving mass per 10 mm stroke

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	**18582#KAA020-001-001**
Preferred name	**moving mass per 10 mm stroke**
Short name	
Synonymous name	
Preferred symbol	M
Synonymous symbol	
Definition	portion of the dead weight represented by the stroke-independent, moving parts per 10 mm stroke of a fluidic drive
Source document of definition	
Note	
Remark	UN ECE code for unit: KGM IEC classification: K01
Formula	
Unit of measure	kg
Alternative unit	
Type of property **D = dependent; N = non-dependent;** **C = condition**	N
Depends on	
Domain	
Property type classification	Real
Value specification	
List of values	
List of value names	
Value format	
Figure	
Classification to ICS	23.000
Definition class	18582#KAA001-001-001
Preferred name of definition class	23 fluid systems and components for general use
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6.20 18582#KAA021-001-001: critical back-pressure ratio

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	**18582#KAA021-001-001**
Preferred name	**critical back-pressure ratio**
Short name	
Synonymous name	b value
Preferred symbol	
Synonymous symbol	
Definition	ratio of the downstream stagnation pressure to the upstream stagnation pressure when the mass flow rate of the gas through the component or piping just reaches the choked flow region of the flow-rate or conductance curve.
Source document of definition	Based on ISO 6358-1:2013
Note	NOTE The critical back-pressure ratio and C value can be used to calculate the flow rate of a device at an arbitrary pressure.
Remark	IEC classification: A59
Formula	
Unit of measure	
Alternative unit	
Type of property **D = dependent; N = non-dependent;** **C = condition**	N
Depends on	
Domain	
Property type classification	Real
Value specification	
List of values	
List of value names	
Value format	
Figure	
Classification to ICS	23.000
Definition class	18582#KAA001-001-001
Preferred name of definition class	23 fluid systems and components for general use
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6.21 18582#KAA022-001-001: sonic conductance C

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	**18582#KAA022-001-001**
Preferred name	**Sonic conductance C**
Short name	
Synonymous name	C value
Preferred symbol	
Synonymous symbol	
Definition	conductance in the choked flow region
Source document of definition	ISO 6358-1:2013
Note	NOTE Characteristic value not related to the pressure value. The critical back-pressure ratio and C value can be used to calculate the flow rate of a device at an arbitrary pressure.
Remark	IEC classification: A59
Formula	
Unit of measure	
Alternative unit	
Type of property **D = dependent; N = non-dependent;** **C = condition**	N
Depends on	
Domain	
Property type classification	Real
Value specification	
List of values	
List of value names	
Value format	
Figure	
Classification to ICS	23.000
Definition class	18582#KAA001-001-001
Preferred name of definition class	23 fluid systems and components for general use
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6.22 18582#KAA023-001-001: cushioning length

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	**18582#KAA023-001-001**
Preferred name	**cushioning length**
Short name	
Synonymous name	
Preferred symbol	
Synonymous symbol	
Definition	distance over which cushioning is active when advancing into the end position
Source document of definition	
Note	
Remark	UN ECE code for unit: MMT IEC classification: T03
Formula	
Unit of measure	mm
Alternative unit	
Type of property **D = dependent; N = non-dependent;** **C = condition**	N
Depends on	
Domain	
Property type classification	Real
Value specification	
List of values	
List of value names	
Value format	
Figure	
Classification to ICS	23.000
Definition class	18582#KAA001-001-001
Preferred name of definition class	23 fluid systems and components for general use
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6.23 18582#KAA024-001-001: cushioning angle

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	**18582#KAA024-001-001**
Preferred name	**cushioning angle**
Short name	
Synonymous name	
Preferred symbol	
Synonymous symbol	
Definition	sector over which cushioning is active when advancing into the end position
Source document of definition	
Note	
Remark	UN ECE code for unit: DD IEC classification: T01
Formula	
Unit of measure	Degree
Alternative unit	
Type of property **D = dependent; N = non-dependent;** **C = condition**	N
Depends on	
Domain	
Property type classification	Real
Value specification	
List of values	
List of value names	
Value format	
Figure	
Classification to ICS	23.000
Definition class	18582#KAA001-001-001
Preferred name of definition class	23 fluid systems and components for general use
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6.24 18582#KAA025-001-001: continuous load factor

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	**18582#KAA025-001-001**
Preferred name	**continuous load factor**
Short name	
Synonymous name	
Preferred symbol	
Synonymous symbol	
Definition	coefficient that restricts the measuring range with respect to the full scale value so that pressure forces that may act upon a component over an extended length of time do not damage that component
Source document of definition	
Note	NOTE Example: 0,75 X maximum scale reading = Measuring range within which the device is allowed to be operated given permanently constant pressure.
Remark	IEC classification: R81
Formula	
Unit of measure	
Alternative unit	
Type of property **D = dependent; N = non-dependent;** **C = condition**	N
Depends on	
Domain	
Property type classification	Real
Value specification	
List of values	
List of value names	
Value format	
Figure	
Classification to ICS	23.000
Definition class	18582#KAA001-001-001
Preferred name of definition class	23 fluid systems and components for general use
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6.25 18582#KAA026-001-001: sealing principle

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	**18582#KAA026-001-001**
Preferred name	**sealing principle**
Short name	
Synonymous name	
Preferred symbol	
Synonymous symbol	
Definition	method of avoiding compressed air losses in the main stage of fluidic valves
Source document of definition	
Note	
Remark	IEC classification: A58
Formula	
Unit of measure	
Alternative unit	
Type of property **D = dependent; N = non-dependent;** **C = condition**	N
Depends on	
Domain	
Property type classification	String
Value specification	EXPLICIT
List of values	1 2
List of value names	hard sealing soft sealing
Value format	
Figure	
Classification to ICS	23.000
Definition class	18582#KAA001-001-001
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6.26 18582#KAA027-001-001: seal on threaded plug

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	**18582#KAA027-001-001**
Preferred name	**seal on threaded plug**
Short name	
Synonymous name	
Preferred symbol	
Synonymous symbol	
Definition	element used to prevent leakage and/or the ingress of dirt at one end of a fitting with male thread for connection to a port
Source document of definition	
Note	
Remark	IEC classification: A56
Formula	
Unit of measure	
Alternative unit	
Type of property **D = dependent; N = non-dependent;** **C = condition**	N
Depends on	
Domain	
Property type classification	String
Value specification	EXPLICIT
List of values	1 2 3
List of value names	sealing ring thread coating sealing edge
Value format	
Figure	
Classification to ICS	23.000
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Hierarchy	Properties
Date of original Definition	
Date of current version	
Date of current Revision	

6.27 18582#KAA028-001-001: torque at 6 bar

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	**18582#KAA028-001-001**
Preferred name	**torque at 6 bar**
Short name	
Synonymous name	
Preferred symbol	
Synonymous symbol	
Definition	the torque at 6 bar that can be used under defined conditions at the shaft end
Source document of definition	Based on ISO 5598:2008, 3.2.237
Note	
Remark	UN ECE code for unit: NU IEC classification: K12
Formula	
Unit of measure	Nm
Alternative unit	
Type of property **D = dependent; N = non-dependent;** **C = condition**	N
Depends on	
Domain	
Property type classification	Real
Value specification	
List of values	
List of value names	
Value format	
Figure	
Classification to ICS	23.000
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Date of original Definition	
Date of current version	
Date of current Revision	

6.28 18582#KAA029-001-001: compressed air quality class at outlet

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	**18582#KAA029-001-001**
Preferred name	**compressed air quality class at outlet**
Short name	
Synonymous name	
Preferred symbol	
Synonymous symbol	
Definition	combined specification for the respective concentration of oil, water and solids using the categories defined in ISO 8573-1 at the outlet of a pneumatic device
Source document of definition	
Note	NOTE The concentrations of oil, water and solids are in each case specified with their own compressed air quality class index.
Remark	IEC classification: A59
Formula	
Unit of measure	
Alternative unit	
Type of property **D = dependent; N = non-dependent;** **C = condition**	N
Depends on	
Domain	
Property type classification	String
Value specification	CODED

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Hierarchy	Properties
List of values	1 2 3 4 5 6 7 8 9 10 11
List of value names	Compressed air according to ISO 8573-1:2010 [-:-:-] Compressed air according to ISO 8573-1:2010 [7:-:-] Compressed air according to ISO 8573-1:2010 [-:7:-] Compressed air according to ISO 8573-1:2010 [7:4:4] Compressed air according to ISO 8573-1:2010 [6:4:4] Compressed air according to ISO 8573-1:2010 [4:4:3] Compressed air according to ISO 8573-1:2010 [2:4:2] Compressed air according to ISO 8573-1:2010 [2:4:1] Compressed air according to ISO 8573-1:2010 [2:3:1] Compressed air according to ISO 8573-1:2010 [4:2:1] Inert gases
Value format	
Figure	
Classification to ICS	23.000
Definition class	18582#KAA001-001-001
Preferred name of definition class	23 fluid systems and components for general use
Status	60.60 - International Standard published
Date of original Definition	
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Date of current Revision	

6.29 18582#KAA030-001-001: compressed air quality class at inlet

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	**18582#KAA030-001-001**
Preferred name	**compressed air quality class at inlet**

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Hierarchy	Properties
Short name	
Synonymous name	
Preferred symbol	
Synonymous symbol	
Definition	combined specification for the respective concentration of oil, water and solids using the categories defined in ISO 8573-1 at the inlet of a pneumatic device
Source document of definition	
Note	NOTE The concentrations of oil, water and solids are in each case specified with their own compressed air quality class index.
Remark	IEC classification: A59
Formula	
Unit of measure	
Alternative unit	
Type of property **D = dependent; N = non-dependent;** **C = condition**	N
Depends on	
Domain	
Property type classification	String
Value specification	CODED
List of values	1 2 3 4 5 6 7 8 9 10 11

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Hierarchy	Properties
List of value names	Compressed air according to ISO 8573-1:2010 [-:-:-] Compressed air according to ISO 8573-1:2010 [7:-:-] Compressed air according to ISO 8573-1:2010 [-:7:-] Compressed air according to ISO 8573-1:2010 [7:4:4] Compressed air according to ISO 8573-1:2010 [6:4:4] Compressed air according to ISO 8573-1:2010 [4:4:3] Compressed air according to ISO 8573-1:2010 [2:4:2] Compressed air according to ISO 8573-1:2010 [2:4:1] Compressed air according to ISO 8573-1:2010 [2:3:1] Compressed air according to ISO 8573-1:2010 [4:2:1] Inert gases
Value format	
Figure	
Classification to ICS	23.000
Definition class	18582#KAA001-001-001
Preferred name of definition class	23 fluid systems and components for general use
Status	60.60 - International Standard published
Date of original Definition	
Date of current version	
Date of current Revision	

6.30 18582#KAA031-001-001: pressure medium

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	**18582#KAA031-001-001**
Preferred name	**pressure medium**
Short name	
Synonymous name	
Preferred symbol	
Synonymous symbol	
Definition	liquid or gas used as a medium for transmitting energy in a fluidic system
Source document of definition	ISO 5598:2008, 3.2.305
Note	
Remark	IEC classification: A91
Formula	
Unit of measure	
Alternative unit	

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Hierarchy	Properties
Type of property **D = dependent; N = non-dependent;** **C = condition**	N
Depends on	
Domain	
Property type classification	String
Value specification	
List of values	
List of value names	
Value format	
Figure	
Classification to ICS	23.000
Definition class	18582#KAA001-001-001
Preferred name of definition class	23 fluid systems and components for general use
Status	60.60 - International Standard published
Date of original Definition	
Date of current version	
Date of current Revision	

6.31 18582#KAA032-001-001: suitability for both directions of flow

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	**18582#KAA032-001-001**
Preferred name	**suitability for both directions of flow**
Short name	
Synonymous name	
Preferred symbol	
Synonymous symbol	
Definition	specification relating to the behaviour in the event of a change of flow direction in fluidic valves
Source document of definition	
Note	NOTE Reversible: flow is possible in both directions; non-reversible: flow is possible in one defined direction.
Remark	IEC classification: A58
Formula	
Unit of measure	
Alternative unit	

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