
**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*



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Published in Switzerland

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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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For an explanation on the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

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.

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.

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

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;	N
C = condition	
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	

6.2 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	

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

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

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

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

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; N C = condition	
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

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
Status	60.60 - International Standard published

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; N C = condition	
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

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

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; N C = condition	
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

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	

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

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

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	

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

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;	N
C = condition	
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

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	

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;	N
C = condition	
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
Status	60.60 - International Standard published
Date of original Definition	
Date of current version	
Date of current Revision	

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
Status	60.60 - International Standard published
Date of original Definition	
Date of current version	
Date of current Revision	

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
Status	60.60 - International Standard published
Date of original Definition	
Date of current version	
Date of current Revision	

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
Status	60.60 - International Standard published
Date of original Definition	
Date of current version	
Date of current Revision	

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
Status	60.60 - International Standard published
Date of original Definition	
Date of current version	
Date of current Revision	

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
Status	60.60 - International Standard published
Date of original Definition	
Date of current version	
Date of current Revision	

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
Status	60.60 - International Standard published
Date of original Definition	
Date of current version	
Date of current Revision	

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
Status	60.60 - International Standard published
Date of original Definition	
Date of current version	
Date of current Revision	

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
Status	60.60 - International Standard published
Date of original Definition	
Date of current version	
Date of current Revision	

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 Depends on	N
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	

6.25 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
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	

6.26 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
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

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; N C = condition	
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

Hierarchy	Properties
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; N C = condition	
Depends on	
Domain	
Property type classification	String
Value specification	CODED

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 [1:-:-] 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	

6.29 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

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	N
D = dependent; N = non-dependent;	
C = condition	
Depends on	
Domain	
Property type classification	String
Value specification	CODED
List of values	1 2 3 4 5 6 7 8 9 10 11

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	

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	

Hierarchy	Properties
Type of property	N
D = dependent; N = non-dependent;	
C = condition	
Depends on	
Domain	
Property type classification	String
Value specification	EXPLICIT
List of values	1 2
List of value names	reversible non reversible
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	

6.32 18582#KAA033-001-001: final value of pressure measuring range

Hierarchy	Properties
Identifier	18582#KAA033-001-001
[Information supplier-Code-Version-Revision]	
Preferred name	final value of pressure measuring range
Short name	
Synonymous name	
Preferred symbol	
Synonymous symbol	
Definition	upper 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 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.
Remark	UN ECE code for unit: BAR IEC classification: K15

Hierarchy	Properties
Formula	
Unit of measure	bar
Alternative unit	
Type of property	N
D = dependent; N = non-dependent;	
C = condition	
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	

6.33 18582#KAA034-001-001: grade of filtration

Hierarchy	Properties
Identifier	18582#KAA034-001-001
[Information supplier-Code-Version-Revision]	
Preferred name	grade of filtration
Short name	
Synonymous name	
Preferred symbol	
Synonymous symbol	
Definition	nominal value that specifies the maximum theoretical diameter of particles and suspended matter that will still be let through by a filter irrespective of the type of filter material
Source document of definition	
Note	
Remark	UN ECE code for unit: 4H IEC classification: T03

Hierarchy	Properties
Formula	
Unit of measure	µm
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	

6.34 18582#KAA035-001-001: filter efficiency

Hierarchy	Properties
Identifier	
[Information supplier-Code-Version-Revision]	18582#KAA035-001-001
Preferred name	filter efficiency
Short name	
Synonymous name	
Preferred symbol	
Synonymous symbol	
Definition	change in the concentration of oil, water or solids downstream of the filter, divided by the concentration upstream of the filter
Source document of definition	
Note	
Remark	UN ECE code for unit: P1 IEC classification: A59
Formula	

Hierarchy	Properties
Unit of measure	%
Alternative unit	
Type of property	D = dependent; N = non-dependent; N C = condition
D = dependent; N = non-dependent; N	
C = condition	
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	

6.35 18582#KAA036-001-001: function in normal position

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	18582#KAA036-001-001
Preferred name	function in normal position
Short name	
Synonymous name	
Preferred symbol	
Synonymous symbol	
Definition	specification about the flow paths for an unactuated pneumatic directional control valve
Source document of definition	
Note	
Remark	IEC classification: A58
Formula	
Unit of measure	
Alternative unit	

Hierarchy	Properties
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
List of value names	open closed pressurized exhausted open/open open/closed closed/closed
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	

6.36 18582#KAA037-001-001: mode of operation of drive

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	18582#KAA037-001-001
Preferred name	mode of operation of drive

Hierarchy	Properties
Short name	
Synonymous name	
Preferred symbol	
Synonymous symbol	
Definition	means by which the force action/torque of a fluidic, intermittent drive is generated as a function of the direction of movement
Source document of definition	
Note	NOTE Single-acting only in semi-rotary drives.
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	CODED
List of values	1 2 3 4
List of value names	double-acting single-acting single-acting, extending single-acting, 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	

6.37 18582#KAA038-001-001: noise reduction

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	18582#KAA038-001-001
Preferred name	noise reduction
Short name	
Synonymous name	
Preferred symbol	
Synonymous symbol	
Definition	minimum possible reduction in the noise level (when using a silencer) of a fluidic component
Source document of definition	
Note	
Remark	UN ECE code for unit: 2N IEC classification: G28
Formula	
Unit of measure	dB
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	

6.38 18582#KAA039-001-001: graphic symbol

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	18582#KAA039-001-001
Preferred name	graphic symbol
Short name	
Synonymous name	
Preferred symbol	
Synonymous symbol	
Definition	graphical representation of the function of a fluidic component
Source document of definition	
Note	NOTE Alphanumeric code of the graphical symbol according to ISO 1219-1, if provided.
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	
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	

6.39 18582#KAA040-001-001: number of gripper fingers

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	18582#KAA040-001-001
Preferred name	number of gripper fingers
Short name	
Synonymous name	
Preferred symbol	
Synonymous symbol	
Definition	number of fingers on a fluidic gripper
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	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
Date of original Definition	
Date of current version	
Date of current Revision	

6.40 18582#KAA041-001-001: gripping force with external gripping

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	18582#KAA041-001-001
Preferred name	gripping force with external gripping
Short name	
Synonymous name	
Preferred symbol	
Synonymous symbol	
Definition	theoretically usable force when actuating a pneumatic external gripper at 6 bar (from the outside to the inside), without taking into consideration the spring force for gripping force backup
Source document of definition	
Note	NOTE The information relates to a gripper jaw.
Remark	UN ECE code for unit: NEW IEC classification: K09
Formula	
Unit of measure	N
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	

6.41 18582#KAA042-001-001: gripping force with internal gripping

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	18582#KAA042-001-001
Preferred name	gripping force with internal gripping
Short name	
Synonymous name	
Preferred symbol	
Synonymous symbol	
Definition	theoretically usable force when actuating a pneumatic internal gripper at 6 bar (from the inside to the outside), without taking into consideration the spring force for gripping force backup
Source document of definition	
Note	NOTE The information relates to a gripper jaw.
Remark	UN ECE code for unit: NEW IEC classification: K09
Formula	
Unit of measure	N
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	

6.42 18582#KAA043-001-001: gripping torque with external gripping

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	18582#KAA043-001-001
Preferred name	gripping torque with external gripping
Short name	
Synonymous name	
Preferred symbol	
Synonymous symbol	
Definition	theoretically usable torque when actuating a pneumatic external gripper at 6 bar (from the outside to the inside), without taking into consideration the spring force for gripping force backup
Source document of definition	
Note	NOTE The information relates to a gripper jaw.
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
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	

6.43 18582#KAA044-001-001: gripping torque with internal gripping

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	18582#KAA044-001-001
Preferred name	gripping torque with internal gripping
Short name	
Synonymous name	
Preferred symbol	
Synonymous symbol	
Definition	theoretically usable torque when actuating a pneumatic internal gripper at 6 bar (from the inside to the outside), without taking into consideration the spring force for gripping force backup
Source document of definition	
Note	NOTE The information relates to a gripper jaw.
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
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	

6.44 18582#KAA045-001-001: manual override

Hierarchy		Properties
Identifier [Information supplier-Code-Version-Revision]		18582#KAA045-001-001
Preferred name		manual override
Short name		
Synonymous name		
Preferred symbol		
Synonymous symbol		
Definition		manually actuated device on a valve for priority actuation
Source document of definition		ISO 5598:2008, 3.2.425
Note		NOTE 1 This device can act directly or indirectly on the shifting element. NOTE 2 Lockable does not mean something can be locked with a lock; the direction (rotating, linear) is not specified. NOTE 3 The differentiating criteria for manual overrides is the type of return.
Remark		detenting: Storage of status after actuation non-detenting: Change in status only during multivalent actuation IEC classification: A56
Formula		
Unit of measure		
Alternative unit		
Type of property		
D = dependent; N = non-dependent; N		
C = condition		
Depends on		
Domain		
Property type classification		String
Value specification		CODED
List of values		1 2 3 4 5 6

Hierarchy	Properties
List of value names	None detenting pushing lockable non-lockable with tool
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	

6.45 18582#KAA046-001-001: stroke

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	18582#KAA046-001-001
Preferred name	stroke
Short name	
Synonymous name	
Preferred symbol	
Synonymous symbol ----- -----	
Definition	maximum travel of a fluidic linear drive
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	

Hierarchy	Properties
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	

6.46 18582#KAA047-001-001: stroke per gripper jaw

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	18582#KAA047-001-001
Preferred name	stroke per gripper jaw
Short name	
Synonymous name	
Preferred symbol	
Synonymous symbol	
Definition	maximum travel of a gripper jaw with a fluidic gripper
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	

Hierarchy	Properties
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	

6.47 18582#KAA048-001-001: piston diameter

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	18582#KAA048-001-001
Preferred name	piston diameter
Short name	
Synonymous name	
Preferred symbol	
Synonymous symbol	
Definition	nominal diameter of the piston of a fluidic drive with equivalent effective piston area
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

Hierarchy	Properties
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	

6.48 18582#KAA049-001-001: type of piston rod

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	18582#KAA049-001-001
Preferred name	type of piston rod
Short name	
Synonymous name	
Preferred symbol	
Synonymous symbol	
Definition	geometric form of the piston rod
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	CODED

Hierarchy	Properties
List of values	1 2 3 4 5 6 7 8 9 10
List of value names	Single-ended piston rod Reinforced piston rod Through piston rod Through, hollow piston rod Corrosion and acid resistant piston rod Round piston rod Square piston rod Single-ended, hollow piston rod Hexagonal piston rod Profiled piston rod
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	

6.49 18582#KAA050-001-001: type of piston rod end

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	18582#KAA050-001-001
Preferred name	type of piston rod end
Short name	
Synonymous name	cylinder piston rod end
Preferred symbol	

Hierarchy	Properties
Synonymous symbol	
Definition	geometric form at the end of the piston rod for transmitting the force or movement
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	CODED
List of values	1 2 3 4 5 6
List of value names	Without thread Female thread Male thread Female thread and Male thread Without thread and Female thread Without thread and Male thread
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	

6.50 18582#KAA051-001-001: piston rod thread

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	18582#KAA051-001-001
Preferred name	piston rod thread
Short name	
Synonymous name	
Preferred symbol	
Synonymous symbol	
Definition	thread that can be used to attach the piston rod to a component outside the 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	CODED
List of values	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

Hierarchy	Properties
	19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49
List of value names	M3 M4 M5 M6 M8 M10 M10 x 1,25 M12

Hierarchy	Properties
	M12 x 1,25 M14 x 1,5 M16 M16 x 1,5 M18 x 1,5 M20 x 1,5 M22 x 1,5 M24 x 2 M27 x 2 M30 x 2 M33 x 2 M36 x 2 M42 x 2 M48 x 2 M56 x 2 M3 at both ends M4 at both ends M5 at both ends M6 at both ends M8 at both ends M10 at both ends M10 x 1,25 at both ends M12 at both ends M12 x 1,25 at both ends M14 x 1,5 at both ends M16 at both ends M16 x 1,5 at both ends M18 x 1,5 at both ends M20 x 1,5 at both ends M22 x 1,5 at both ends M24 x 2 at both ends M27 x 2 at both ends M30 x 2 at both ends M33 x 2 at both ends M36 x 2 at both ends M42 x 2 at both ends M48 x 2 at both ends M56 x 2 at both ends M6/M8 M3/M4 M5/M6

Hierarchy	Properties
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	

6.51 18582#KAA052-001-001: condensate drain

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	18582#KAA052-001-001
Preferred name	condensate drain
Short name	
Synonymous name	
Preferred symbol	
Synonymous symbol	
Definition	design or operation of the condensate drain with fluidic filters and filter regulators
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	CODED

Hierarchy	Properties
List of values	1 2 3 4 5 6
List of value names	automatic semi-automatic manual without closed when depressurised open when depressurised
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	

6.52 18582#KAA053-001-001: logic valve function

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	18582#KAA053-001-001
Preferred name	logic valve function
Short name	
Synonymous name	
Preferred symbol	
Synonymous symbol	
Definition	emulation of a binary logic by a fluidic component
Source document of definition	
Note	NOTE 1 AND valves are also designated as dual-pressure valves. An input signal is sent to the output when pressure is applied simultaneously at both inputs. NOTE 2 OR valves are also designated as changeover valves. An input signal is sent to the output when pressure is applied to one input at least. NOTE 3 In valves with a NOT logic function, the input signal is inverted.

Hierarchy	Properties
Remark	IEC classification: A58
Formula	
Unit of measure	
Alternative unit	
Type of property	
D = dependent; N = non-dependent;	N
C = condition	
Depends on	
Domain	
Property type classification	String
Value specification	CODED
List of values	1 2 3
List of value names	AND OR NOT
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	

6.53 18582#KAA054-001-001: maximum impact energy

Hierarchy	Properties
Identifier	
[Information supplier-Code-Version-Revision]	18582#KAA054-001-001
Preferred name	maximum impact energy
Short name	
Synonymous name	max. impact energy\Impact energy, max.\Impact energy, maximum
Preferred symbol	
Synonymous symbol	

Hierarchy	Properties
Definition	maximum amount of kinetic energy that can occur in the elastic end positions when retracting a fluidic drive into the end position
Source document of definition	
Note	
Remark	UN ECE code for unit: JOU IEC classification: K26
Formula	
Unit of measure	J
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	

6.54 18582#KAA055-001-001: maximum stroke reduction per side

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	18582#KAA055-001-001
Preferred name	maximum stroke reduction per side
Short name	
Synonymous name	max. stroke reduction per side/Stroke reduction per side, max./Stroke reduction per side, maximum
Preferred symbol	
Synonymous symbol	

Hierarchy	Properties
Definition	maximum reduction in the maximum travel that can be achieved through adjustment referred to one side of the drive
Source document of definition	
Note	NOTE The minimum reduction is 0 mm.
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
Status	60.60 - International Standard published
Date of original Definition	
Date of current version	
Date of current Revision	

6.55 18582#KAA056-001-001: maximum piston speed

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	18582#KAA056-001-001
Preferred name	maximum piston speed
Short name	
Synonymous name	
Preferred symbol	
Synonymous symbol	

Hierarchy	Properties
Definition	highest speed that the component can reach within a cylinder moved by the pressure medium when retracting or advancing
Source document of definition	
Note	
Remark	UN ECE code for unit: C16 IEC classification: T10
Formula	
Unit of measure	mm/s
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	

6.56 18582#KAA057-001-001: maximum condensate volume

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	18582#KAA057-001-001
Preferred name	maximum condensate volume
Short name	
Synonymous name	
Preferred symbol	
Synonymous symbol	

Hierarchy	Properties
Definition	maximum volume of condensate that does not cause a malfunction in a fluidic filter
Source document of definition	
Note	
Remark	UN ECE code for unit: MLT IEC classification: T06
Formula	
Unit of measure	ml
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	

6.57 18582#KAA058-001-001: maximum swivel angle extension per side

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	18582#KAA058-001-001
Preferred name	maximum swivel angle extension per side
Short name	
Synonymous name	precision adjustment of swivel\Adjustment range of end position angle\ Max. swivel angle extension per side\Swivel angle extension per side, max.\Swivel angle extension per side, maximum
Preferred symbol	

Hierarchy	Properties
Synonymous symbol	
Definition	maximum increase in the movement range that can be achieved through adjustment referred to one side of the drive
Source document of definition	
Note	NOTE The minimum extension is 0 degree.
Remark	UN ECE code for unit: DD IEC classification: T01
Formula	
Unit of measure	Degree
Alternative unit	
Type of property D = dependent; N = non-de- pendent; 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	

6.58 18582#KAA059-001-001: maximum swivel angle reduction per side

Hierarchy	Properties
Identifier [Information supplier-Code-Ver- sion-Revision]	18582#KAA059-001-001
Preferred name	maximum swivel angle reduction per side
Short name	

Hierarchy	Properties
Synonymous name	precision adjustment of swivel\Adjustment range of end position angle\ Max. swivel angle reduction per side\Swivel angle reduction per side, max.\Swivel angle reduction per side, maximum
Preferred symbol	
Synonymous symbol	
Definition	maximum reduction in the movement range that can be achieved through adjustment referred to one side of the drive
Source document of definition	
Note	NOTE The minimum reduction is 0 degree.
Remark	UN ECE code for unit: DD IEC classification: T01
Formula	
Unit of measure	Degree
Alternative unit	
Type of property D = dependent; N = non-de- pendent; 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	

6.59 18582#KAA060-001-001: maximum temperature of pressure medium

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	18582#KAA060-001-001
Preferred name	maximum temperature of pressure medium
Short name	
Synonymous name	max. temperature\Temperature, max.\Temperature, maximum
Preferred symbol	
Synonymous symbol	
Definition	upper limit of the temperature range of the pressure medium for operating a fluidic system
Source document of definition	
Note	
Remark	UN ECE code for unit: CEL IEC classification: H02
Formula	
Unit of measure	°C
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	

6.60 18582#KAA061-001-001: maximum ambient temperature

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	18582#KAA061-001-001
Preferred name	maximum ambient temperature
Short name	
Synonymous name	max. ambient temperature\Ambient temperature, max.\Ambient temperature, maximum
Preferred symbol	
Synonymous symbol	
Definition	upper limit of the temperature range of the surrounding space in which the component, the pipework or the system can be operated
Source document of definition	Based on ISO 5598:2008, 3.2.38
Note	
Remark	UN ECE code for unit: CEL IEC classification: H02
Formula	
Unit of measure	°C
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	

6.61 18582#KAA062-001-001: maximum output pressure

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	18582#KAA062-001-001
Preferred name	maximum output pressure
Short name	
Synonymous name	max. output pressure\Output pressure, max.\Output pressure, maximum
Preferred symbol	
Synonymous symbol	
Definition	maximum regulated pressure at the outlet of a device with pressure regulation function
Source document of definition	
Note	
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	

6.62 18582#KAA063-001-001: maximum operating pressure

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	18582#KAA063-001-001
Preferred name	maximum operating pressure
Short name	
Synonymous name	max. operating pressure\Operating pressure, max.\Operating pressure, maximum
Preferred symbol	p
Synonymous symbol	
Definition	upper limit of the pressure range at which a fluidic device fulfils its function
Source document of definition	
Note	
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	

6.63 18582#KAA064-001-001: maximum pilot pressure

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	18582#KAA064-001-001
Preferred name	maximum pilot pressure
Short name	
Synonymous name	max. pilot pressure\Pilot pressure, max.\Pilot pressure, maximum
Preferred symbol	p
Synonymous symbol	
Definition	maximum pressure for actuating fluidic valves with pneumatic or piloted electrical actuation equipment
Source document of definition	
Note	
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	

6.64 18582#KAA065-001-001: maximum X-stroke

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	18582#KAA065-001-001
Preferred name	maximum X-stroke
Short name	
Synonymous name	
Preferred symbol	
Synonymous symbol	
Definition	maximum travel of a fluidic linear drive along the X-axis of the reference system
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
Status	60.60 - International Standard published
Date of original Definition	
Date of current version	
Date of current Revision	

6.65 18582#KAA066-001-001: maximum Y-stroke

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	18582#KAA066-001-001
Preferred name	maximum Y-stroke
Short name	
Synonymous name	
Preferred symbol	
Synonymous symbol	
Definition	maximum travel of a fluidic linear drive along the Y-axis of the reference system
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
Status	60.60 - International Standard published
Date of original Definition	
Date of current version	
Date of current Revision	

6.66 18582#KAA067-001-001: maximum torque in direction of X-axis

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	18582#KAA067-001-001
Preferred name	maximum torque in direction of X-axis
Short name	
Synonymous name	
Preferred symbol	
Synonymous symbol	
Definition	maximum torque of a guided fluidic drive in the direction of the X-axis
Source document of definition	
Note	NOTE This characteristic value occurs in processes.
Remark	UN ECE code for unit: NU IEC classification: K26
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
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	

6.67 18582#KAA068-001-001: maximum torque in direction of Y-axis

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	18582#KAA068-001-001
Preferred name	maximum torque in direction of Y-axis
Short name	
Synonymous name	
Preferred symbol	
Synonymous symbol	
Definition	maximum torque of a guided fluidic drive in the direction of the Y-axis
Source document of definition	
Note	NOTE This characteristic value occurs in processes.
Remark	UN ECE code for unit: NU IEC classification: K26
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
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	

6.68 18582#KAA069-001-001: maximum torque in direction of Z-axis

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	18582#KAA069-001-001
Preferred name	maximum torque in direction of Z-axis
Short name	
Synonymous name	
Preferred symbol	
Synonymous symbol	
Definition	maximum torque of a guided fluidic drive in the direction of the Z-axis
Source document of definition	
Note	NOTE This characteristic value occurs in processes.
Remark	UN ECE code for unit: NU IEC classification: K26
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
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	

6.69 18582#KAA070-001-001: maximum vacuum

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	18582#KAA070-001-001
Preferred name	maximum vacuum
Short name	
Synonymous name	max. vacuum\Vacuum, max.\Vacuum, maximum
Preferred symbol	
Synonymous symbol	
Definition	maximum pressure reduction that can be achieved by means of a vacuum generator in a gas that is below the prevailing atmospheric level in terms of pressure and mass density
Source document of definition	
Note	NOTE The value is specified in percentage (%). 0 % vacuum corresponds to ambient pressure. 100 % corresponds to 0 bar absolute.
Remark	UN ECE code for unit: P1 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
Status	60.60 - International Standard published
Date of original Definition	
Date of current version	
Date of current Revision	

6.70 18582#KAA071-001-001: minimum temperature of pressure medium

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	18582#KAA071-001-001
Preferred name	minimum temperature of pressure medium
Short name	
Synonymous name	min. temperature\Temperature, min.\Temperature, minimum
Preferred symbol	
Synonymous symbol	
Definition	lower limit of the temperature range of the pressure medium for operating a fluidic system
Source document of definition	
Note	
Remark	UN ECE code for unit: CEL IEC classification: H02
Formula	
Unit of measure	°C
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	

6.71 18582#KAA072-001-001: minimum ambient temperature

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	18582#KAA072-001-001
Preferred name	minimum ambient temperature
Short name	
Synonymous name	min. ambient temperature\Ambient temperature, min.\Ambient temperature, minimum
Preferred symbol	
Synonymous symbol	
Definition	lower limit of the temperature range of the surrounding space in which the component, the pipework or the system can be operated
Source document of definition	Based on ISO 5598:2008, 3.2.38
Note	
Remark	UN ECE code for unit: CEL IEC classification: H02
Formula	
Unit of measure	°C
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	

6.72 18582#KAA073-001-001: minimum output pressure

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	18582#KAA073-001-001
Preferred name	minimum output pressure
Short name	
Synonymous name	min. output pressure\Output pressure, min.\Output pressure, minimum
Preferred symbol	
Synonymous symbol	
Definition	lower limit of the pressure range at the outlet of a fluidic device for regulating pressure
Source document of definition	
Note	
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	

6.73 18582#KAA074-001-001: minimum operating pressure

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	18582#KAA074-001-001
Preferred name	minimum operating pressure
Short name	
Synonymous name	min. operating pressure\Operating pressure, min.\Operating pressure, minimum
Preferred symbol	p
Synonymous symbol	
Definition	lower limit of the pressure range at which a fluidic device fulfils its function
Source document of definition	
Note	
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	

6.74 18582#KAA075-001-001: minimum pilot pressure

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	18582#KAA075-001-001
Preferred name	minimum pilot pressure
Short name	
Synonymous name	min. pilot pressure\Pilot pressure, min.\Pilot pressure, minimum
Preferred symbol	p
Synonymous symbol	
Definition	smallest possible area force for actuating fluidic valves with pneumatic or piloted electrical actuation equipment
Source document of definition	
Note	
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	

6.75 18582#KAA076-001-001: driver coupling

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	18582#KAA076-001-001
Preferred name	driver coupling
Short name	
Synonymous name	
Preferred symbol	
Synonymous symbol	
Definition	type of connection between the piston and driver in a rodless 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	CODED
List of values	1 2
List of value names	Interlocking Magnetically coupled
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	

6.76 18582#KAA077-001-001: nominal size of pressure gauge

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	18582#KAA077-001-001
Preferred name	nominal size of pressure gauge
Short name	
Synonymous name	
Preferred symbol	
Synonymous symbol	
Definition	rounded characteristic relating to the measured variable of the pressure gauge
Source document of definition	Based on EN 837-1
Note	
Remark	IEC classification: T03
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 12 13 14 15

Hierarchy	Properties
List of value names	15 23 26 27 37 40 42 43 50 63 80 100 150 160 250
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	

6.77 18582#KAA078-001-001: nominal size

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	18582#KAA078-001-001
Preferred name	nominal size
Short name	
Synonymous name	
Preferred symbol	
Synonymous symbol	
Definition	numeric identifier for the measured variable referred to the flow cross section of a fluidic device
Source document of definition	

Hierarchy	Properties
Note	NOTE 1 In this case, the value for the nominal size largely corresponds to the diameter of the circle with the same area content as the smallest flow cross-section existing in the device. If several nominal sizes must be specified within a device, the reference to the required nominal size shall be made using the characteristic designation.
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
Status	60.60 - International Standard published
Date of original Definition	
Date of current version	
Date of current Revision	

6.78 18582#KAA079-001-001: nominal size of laval nozzle

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	18582#KAA079-001-001
Preferred name	nominal size of laval nozzle
Short name	
Synonymous name	
Preferred symbol	
Synonymous symbol	

Hierarchy	Properties
Definition	numeric identifier for the size of the laval nozzle in a vacuum generator
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
Status	60.60 - International Standard published
Date of original Definition	
Date of current version	
Date of current Revision	

6.79 18582#KAA080-001-001: pneumatic port

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	18582#KAA080-001-001
Preferred name	pneumatic port
Short name	
Synonymous name	
Preferred symbol	
Synonymous symbol	
Definition	type and size of the pressure media connection on a pneumatic component
Source document of definition	

Hierarchy	Properties
Note	NOTE Applies to products with one or more geometrically equivalent pneumatic connections.
Remark	IEC classification: A56
Formula	
Unit of measure	
Alternative unit	
Type of property	
D = dependent; N = non-dependent;	N
C = condition	
Depends on	
Domain	
Property type classification	String
Value specification	CODED
List of values	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

Hierarchy	Properties
	21
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Hierarchy	Properties
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Hierarchy	Properties
	101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125
List of value names	Connection area size 1 Connection area size 2 Connection area size 3 Connection area size 4 Connection area size 5 Connection area size 6 Connection area size 1E Connection area size 2E Connection area size 3E Connection area size 4E Connection area size 5E Connection area size 6E Connection area size 01 to ISO 15407-1 Connection area size 02 to ISO 15407-1 Connection area size 01 to ISO 15407-2 Connection area size 02 to ISO 15407-2

Hierarchy	Properties
	Connection area 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 M30x1,5 M32x2

Hierarchy	Properties
	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

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 tubing outside-Ø 1/2" For tubing outside-Ø 1/4" For tubing outside-Ø 1/8" For tubing outside-Ø 10 mm For tubing outside-Ø 12 mm For tubing outside-Ø 15 mm For tubing outside-Ø 16 mm For tubing outside-Ø 18 mm For tubing outside-Ø 22 mm For tubing outside-Ø 28 mm For tubing outside-Ø 3/16" For tubing outside-Ø 3/8" For tubing outside-Ø 3 mm For tubing outside-Ø 4 mm For tubing outside-Ø 5/16" For tubing outside-Ø 5/32" For tubing outside-Ø 5/8" For tubing outside-Ø 6 mm For tubing outside-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

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

6.80 18582#KAA081-001-001: pneumatic output port

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	18582#KAA081-001-001
Preferred name	pneumatic output port
Short name	
Synonymous name	
Preferred symbol	
Synonymous symbol	
Definition	type and size of the pressure media interface at the outlet of a pneumatic component
Source document of definition	
Note	NOTE 1 Use for products that have several pneumatic connections with different functions, such as valves and service units, for the type and dimension of the output to the subsequent device. NOTE 2 Multiple evaluation necessary.
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	CODED

Hierarchy	Properties
List of values	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

Hierarchy	Properties
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Hierarchy	Properties
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Hierarchy	Properties
	121 122 123 124 125
List of value names	Connection area size 1 Connection area size 2 Connection area size 3 Connection area size 4 Connection area size 5 Connection area size 6 Connection area size 1E Connection area size 2E Connection area size 3E Connection area size 4E Connection area size 5E Connection area size 6E Connection area size 01 to ISO 15407-1 Connection area size 02 to ISO 15407-1 Connection area size 01 to ISO 15407-2 Connection area size 02 to ISO 15407-2 Connection area G1 G1 1/2 G1 1/4 G1/2 G1/4 G1/8 G2 G3/4 G3/8 M10 M10x1 M10x1,25 M10x1,5

Hierarchy	Properties
	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 M30x1,5 M32x2 M36x2 M3x0,5 M4 M42x2 M45x1,5 M48x2 M4x0,7 M5 M5x0,8

Hierarchy	Properties
	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 Rp1 Rp1 1/2 Rp1 1/4 Rp1/2 Rp1/4 Rp2 Rp2 1/2 Rp3 Rp3/4

Hierarchy	Properties
	Rp3/8 Rp4 UNC10-24 UNC4-40 UNF10-32 For tubing outside-Ø 1/2" For tubing outside-Ø 1/4" For tubing outside-Ø 1/8" For tubing outside-Ø 10 mm For tubing outside-Ø 12 mm For tubing outside-Ø 15 mm For tubing outside-Ø 16 mm For tubing outside-Ø 18 mm For tubing outside-Ø 22 mm For tubing outside-Ø 28 mm For tubing outside-Ø 3/16" For tubing outside-Ø 3/8" For tubing outside-Ø 3 mm For tubing outside-Ø 4 mm For tubing outside-Ø 5/16" For tubing outside-Ø 5/32" For tubing outside-Ø 5/8" For tubing outside-Ø 6 mm For tubing outside-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
Date of original Definition	
Date of current version	
Date of current Revision	

6.81 18582#KAA082-001-001: pneumatic input port

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	18582#KAA082-001-001
Preferred name	pneumatic input port
Short name	
Synonymous name	
Preferred symbol	
Synonymous symbol	
Definition	type and size of the pressure media interface at the inlet of a pneumatic component
Source document of definition	
Note	NOTE Port use for products that have several pneumatic connections with different functions, such as valves and service units, for the type and dimension of the connection of the compressed air supply.
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	CODED
List of values	1 2 3 4 5 6 7 8 9 10

Hierarchy	Properties
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Hierarchy	Properties
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Hierarchy	Properties
	91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125
List of value names	Connection area size 1 Connection area size 2 Connection area size 3 Connection area size 4 Connection area size 5 Connection area size 6

Hierarchy	Properties
	Connection area size 1E Connection area size 2E Connection area size 3E Connection area size 4E Connection area size 5E Connection area size 6E Connection area size 01 to ISO 15407-1 Connection area size 02 to ISO 15407-1 Connection area size 01 to ISO 15407-2 Connection area size 02 to ISO 15407-2 Connection area 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

Hierarchy	Properties
	M24 M24x2 M24x3 M26x1,5 M27x1,5 M27x2 M3 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

Hierarchy	Properties
	PT1/4 PT1/8 R1 R1 1/2 R1/2 R1/4 R1/8 R2 R3/4 R3/8 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 tubing outside-Ø 1/2" For tubing outside-Ø 1/4" For tubing outside-Ø 1/8" For tubing outside-Ø 10 mm For tubing outside-Ø 12 mm For tubing outside-Ø 15 mm For tubing outside-Ø 16 mm For tubing outside-Ø 18 mm For tubing outside-Ø 22 mm For tubing outside-Ø 28 mm For tubing outside-Ø 3/16" For tubing outside-Ø 3/8" For tubing outside-Ø 3 mm For tubing outside-Ø 4 mm For tubing outside-Ø 5/16" For tubing outside-Ø 5/32"

Hierarchy	Properties
	For tubing outside-Ø 5/8" For tubing outside-Ø 6 mm For tubing outside-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
Date of original Definition	
Date of current version	
Date of current Revision	

6.82 18582#KAA083-001-001: pneumatic exhaust port

Hierarchy	Properties
Identifier	
[Information supplier-Code-Version-Revision]	18582#KAA083-001-001
Preferred name	pneumatic exhaust port
Short name	
Synonymous name	
Preferred symbol	
Synonymous symbol	
Definition	type and size of the pressure media interface for exhausting a pneumatic component
Source document of definition	
Note	NOTE Use for products that have several pneumatic connections with different functions, such as valves and service units, for the type and dimension of the air vent.
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

Hierarchy	Properties
Value specification	CODED
List of values	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43

Hierarchy	Properties
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Hierarchy	Properties
	89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125
List of value names	Connection area size 1 Connection area size 2 Connection area size 3 Connection area size 4 Connection area size 5 Connection area size 6

Hierarchy	Properties
	Connection area size 1E Connection area size 2E Connection area size 3E Connection area size 4E Connection area size 5E Connection area size 6E Connection area size 01 to ISO 15407-1 Connection area size 02 to ISO 15407-1 Connection area size 01 to ISO 15407-2 Connection area size 02 to ISO 15407-2 Connection area 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

Hierarchy	Properties
	M24 M24x2 M24x3 M26x1,5 M27x1,5 M27x2 M3 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

Hierarchy	Properties
	R1/8 R2 R3/4 R3/8 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 tubing outside-Ø 1/2" For tubing outside-Ø 1/4" For tubing outside-Ø 1/8" For tubing outside-Ø 10 mm For tubing outside-Ø 12 mm For tubing outside-Ø 15 mm For tubing outside-Ø 16 mm For tubing outside-Ø 18 mm For tubing outside-Ø 22 mm For tubing outside-Ø 28 mm For tubing outside-Ø 3/16" For tubing outside-Ø 3/8" For tubing outside-Ø 3 mm For tubing outside-Ø 4 mm For tubing outside-Ø 5/16" For tubing outside-Ø 5/32" For tubing outside-Ø 5/8" For tubing outside-Ø 6 mm For tubing outside-Ø 8 mm
Value format	
Figure	
Classification to ICS	23.000

Hierarchy	Properties
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	

6.83 18582#KAA084-001-001: pneumatic clamping port

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	18582#KAA084-001-001
Preferred name	pneumatic clamping port
Short name	
Synonymous name	
Preferred symbol	
Synonymous symbol	
Definition	type and size of the pressure media interface for clamping a pneumatic component
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	CODED

Hierarchy	Properties
List of values	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

Hierarchy	Properties
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Hierarchy	Properties
	81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108
List of value names	G1 G1 1/2 G1 1/4 G1/2 G1/4 G1/8

Hierarchy	Properties
	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 M30x1,5 M32x2 M36x2 M3x0,5 M4 M42x2 M45x1,5 M48x2 M4x0,7

Hierarchy	Properties
	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 Rp1 Rp1 1/2 Rp1 1/4 Rp1/2 Rp1/4

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

6.84 18582#KAA085-001-001: pneumatic pilot port

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	18582#KAA085-001-001
Preferred name	pneumatic pilot port
Short name	
Synonymous name	
Preferred symbol	
Synonymous symbol	
Definition	type and size of the pressure media interface for pilot control of a pneumatic component
Source document of definition	
Note	NOTE Use for products that have several pneumatic connections with different functions, such as valves and service units, for the type and dimension of the pilot port.
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	CODED
List of values	1 2 3 4 5 6 7 8 9 10

Hierarchy	Properties
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Hierarchy	Properties
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Hierarchy	Properties
	91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125
List of value names	Connection area size 1 Connection area size 2 Connection area size 3 Connection area size 4 Connection area size 5 Connection area size 6

Hierarchy	Properties
	Connection area size 1E Connection area size 2E Connection area size 3E Connection area size 4E Connection area size 5E Connection area size 6E Connection area size 01 to ISO 15407-1 Connection area size 02 to ISO 15407-1 Connection area size 01 to ISO 15407-2 Connection area size 02 to ISO 15407-2 Connection area 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

Hierarchy	Properties
	M24 M24x2 M24x3 M26x1,5 M27x1,5 M27x2 M3 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

Hierarchy	Properties
	R1 R1 1/2 R1/2 R1/4 R1/8 R2 R3/4 R3/8 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 tubing outside-Ø 1/2" For tubing outside-Ø 1/4" For tubing outside-Ø 1/8" For tubing outside-Ø 10 mm For tubing outside-Ø 12 mm For tubing outside-Ø 15 mm For tubing outside-Ø 16 mm For tubing outside-Ø 18 mm For tubing outside-Ø 22 mm For tubing outside-Ø 28 mm For tubing outside-Ø 3/16" For tubing outside-Ø 3/8" For tubing outside-Ø 3 mm For tubing outside-Ø 4 mm For tubing outside-Ø 5/16" For tubing outside-Ø 5/32" For tubing outside-Ø 5/8" For tubing outside-Ø 6 mm For tubing outside-Ø 8 mm
Value format	

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	

6.85 18582#KAA086-001-001: position sensing

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	18582#KAA086-001-001
Preferred name	position sensing
Short name	
Synonymous name	type of position sensing\Type of position monitoring
Preferred symbol	
Synonymous symbol	
Definition	possible system with which the product is or can be equipped for determining the piston position
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	CODED

Hierarchy	Properties
List of values	1 2 3 4 5 6 7 8 9 10 11
List of value names	without prepared for Hall sensor prepared for inductive sensors prepared for length measuring system prepared for proximity switch prepared for angular displacement encoder equipped with Hall sensor equipped with inductive sensors equipped with length measuring system equipped with proximity switch equipped with angular displacement encoder
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	

6.86 18582#KAA087-001-001: principle of filter contamination indicator

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	18582#KAA087-001-001
Preferred name	principle of filter contamination indicator

Hierarchy	Properties
Short name	
Synonymous name	
Preferred symbol	
Synonymous symbol	
Definition	physical mode of operation of the device that indicates an obstructed filter element
Source document of definition	ISO 5598:2008, 3.2.264
Note	
Remark	IEC classification: A56
Formula	
Unit of measure	
Alternative unit	
Type of property	
D = dependent; N = non-dependent;	N
C = condition	
Depends on	
Domain	
Property type classification	String
Value specification	CODED
List of values	1 2 3 4
List of value names	optical electronic mechanical not present
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	

6.87 18582#KAA088-001-001: shear force

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	18582#KAA088-001-001
Preferred name	shear force
Short name	
Synonymous name	
Preferred symbol	
Synonymous symbol	
Definition	force that acts perpendicular to the axis of the piston rod
Source document of definition	
Note	NOTE The lateral force can be represented as a lateral force/stroke diagram.
Remark	UN ECE code for unit: NEW IEC classification: K09
Formula	
Unit of measure	N
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	

6.88 18582#KAA089-001-001: grid dimension

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	18582#KAA089-001-001
Preferred name	grid dimension
Short name	
Synonymous name	
Preferred symbol	
Synonymous symbol	
Definition	centre-to-centre distance when fluidic devices are arranged in a series
Source document of definition	
Note	NOTE Grid dimensions are used, for example in valves (plate mounting) and compressed air service units.
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
Status	60.60 - International Standard published
Date of original Definition	
Date of current version	
Date of current Revision	

6.89 18582#KAA090-001-001: controller function

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	18582#KAA090-001-001
Preferred name	controller function
Short name	
Synonymous name	
Preferred symbol	
Synonymous symbol	
Definition	description of the output behaviour of a pressure regulator as well as further functions
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	CODED
List of values	1 2 3 4 5
List of value names	Output pressure constant Differential pressure constant with return flow function with secondary venting with primary pressure compensation
Value format	
Figure	
Classification to ICS	23.000
Definition class	18582#KAA001-001-001

Hierarchy	Properties
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	

6.90 18582#KAA091-001-001: RoHS conformity

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	18582#KAA091-001-001
Preferred name	RoHS conformity
Short name	
Synonymous name	
Preferred symbol	
Synonymous symbol	
Definition	product conforms to the European RoHS Directive (Restriction of Hazardous Substances)
Source document of definition	
Note	
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
List of value names	compliant non compliant
Value format	
Figure	

Hierarchy	Properties
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	

6.91 18582#KAA092-001-001: IP protection class with connector

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	18582#KAA092-001-001
Preferred name	IP protection class with connector
Short name	
Synonymous name	
Preferred symbol	
Synonymous symbol	
Definition	scope of protection that can be achieved with a fluidic device in combination with the connector recommended by the manufacturer with respect to the ingress of foreign bodies and water
Source document of definition	Based on EN 60529
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	CODED

Hierarchy	Properties
List of values	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
List of value names	IP 00, no protection against accidental contact, no foreign matter protection, no water protection IP 10, no access protection, protection against foreign matter >50 mm, no water protection IP 11, no access protection, protection against foreign matter >50 mm, vertical water drop protection IP 12, no access protection, protection against foreign matter >50 mm, water drop protection up to 15 degrees inclination IP 20, finger protection, foreign matter protection >12 mm, no water protection IP 21, finger protection, foreign matter protection >12 mm, vertical water drop protection IP 22, finger protection, foreign matter protection >12 mm, water drop protection up to 15 degrees inclination IP 23, finger protection, foreign matter protection >12 mm, water spray protection up to 60 degrees inclination IP 31, tool contact protection, foreign matter protection >2,5 mm, vertical water drop protection

Hierarchy	Properties
	IP 32, tool contact protection, foreign matter protection >2,5 mm, water drop protection up to 15 degrees inclination IP 33, tool contact protection, foreign matter protection >2,5 mm, water spray protection up to 60 degrees inclination IP 34, tool contact protection, foreign matter protection >2,5 mm, water spray protection IP 41, keeping tool/wire at a distance, foreign matter protection >1 mm, vertical water drop protection IP 42, keeping tool/wire at a distance, foreign matter protection >1 mm, water drop protection up to 15 degrees inclination IP 43, keeping tool/wire at a distance, foreign matter protection >1 mm, water spray protection up to 60 degrees inclination IP 44, keeping tool/wire at a distance, foreign matter protection >1 mm, water spray protection IP 54, complete protection against accidental contact and foreign matter protection, dust protection, water spray protection IP 55, complete protection against accidental contact and foreign matter protection, dust protection, water jet protection IP 65, complete protection against accidental contact and foreign matter protection, dust-tight, water jet protection IP 66, complete protection against accidental contact and foreign matter protection, dust-tight, powerful water jet protection IP 67, complete protection against accidental contact and foreign matter protection, dust-tight, water protection for brief immersion IP 68, complete protection against accidental contact and foreign matter protection, dust-tight, water-tight acc. to manufacturer's conditions IP 69, complete protection against accidental contact and foreign matter protection, dust-tight, water-tight up to 100 bar
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	

6.92 18582#KAA093-001-001: IP protection class without connector

Hierarchy	Properties
Identifier [Information supplier-Code-Version-Revision]	18582#KAA093-001-001
Preferred name	IP protection class without connector
Short name	
Synonymous name	
Preferred symbol	
Synonymous symbol	
Definition	scope of protection that can be achieved with a fluidic device without connector with respect to the ingress of foreign bodies and water
Source document of definition	Based on EN 60529
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	CODED
List of values	1 2 3 4 5 6 7 8 9 10