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**Fluid power — Specification of  
reference dictionary —**

**Part 2:  
Definitions of classes and properties  
of pneumatics**

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

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



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Published in Switzerland

# Contents

Page

|                                                                                                    |          |
|----------------------------------------------------------------------------------------------------|----------|
| Foreword.....                                                                                      | vi       |
| Introduction.....                                                                                  | vii      |
| <b>1 Scope.....</b>                                                                                | <b>1</b> |
| <b>2 Normative references.....</b>                                                                 | <b>1</b> |
| <b>3 Terms and definitions.....</b>                                                                | <b>1</b> |
| <b>4 General principles.....</b>                                                                   | <b>1</b> |
| <b>5 Definition class: fluid systems and components for general use, 18582#KAA001-001-001.....</b> | <b>2</b> |
| <b>6 Properties.....</b>                                                                           | <b>2</b> |
| 6.1 18582#KAA002-001-001: initial value of pressure measuring range.....                           | 2        |
| 6.2 18582#KAA003-001-001: shifting-on time.....                                                    | 4        |
| 6.3 18582#KAA004-001-001: condensate drain connection.....                                         | 5        |
| 6.4 18582#KAA005-001-001: number of pneumatic connections.....                                     | 11       |
| 6.5 18582#KAA006-001-001: number of pneumatic output connections.....                              | 12       |
| 6.6 18582#KAA007-001-001: number of pneumatic input connections.....                               | 13       |
| 6.7 18582#KAA008-001-001: number of pneumatic exhaust connections.....                             | 14       |
| 6.8 18582#KAA009-001-001: number of pneumatic pilot ports.....                                     | 15       |
| 6.9 18582#KAA010-001-001: type of cushioning.....                                                  | 16       |
| 6.10 18582#KAA011-001-001: type of stroke reduction.....                                           | 17       |
| 6.11 18582#KAA012-001-001: type of pneumatic connections.....                                      | 18       |
| 6.12 18582#KAA013-001-001: type of shaft end.....                                                  | 19       |
| 6.13 18582#KAA014-001-001: shifting-off time.....                                                  | 20       |
| 6.14 18582#KAA015-001-001: size.....                                                               | 21       |
| 6.15 18582#KAA016-001-001: actuation type.....                                                     | 22       |
| 6.16 18582#KAA017-001-001: operating pressure for max. vacuum.....                                 | 24       |
| 6.17 18582#KAA018-001-001: moving mass.....                                                        | 25       |
| 6.18 18582#KAA019-001-001: moving mass with 0 mm stroke.....                                       | 26       |
| 6.19 18582#KAA020-001-001: moving mass per 10 mm stroke.....                                       | 27       |
| 6.20 18582#KAA021-001-001: critical back-pressure ratio.....                                       | 28       |
| 6.21 18582#KAA022-001-001: sonic conductance C.....                                                | 29       |
| 6.22 18582#KAA023-001-001: cushioning length.....                                                  | 30       |
| 6.23 18582#KAA024-001-001: cushioning angle.....                                                   | 31       |
| 6.24 18582#KAA025-001-001: continuous load factor.....                                             | 32       |
| 6.25 18582#KAA026-001-001: sealing principle.....                                                  | 33       |
| 6.26 18582#KAA027-001-001: seal on threaded plug.....                                              | 34       |
| 6.27 18582#KAA028-001-001: torque at 6 bar.....                                                    | 35       |
| 6.28 18582#KAA029-001-001: compressed air quality class at outlet.....                             | 36       |
| 6.29 18582#KAA030-001-001: compressed air quality class at inlet.....                              | 37       |
| 6.30 18582#KAA031-001-001: pressure medium.....                                                    | 39       |
| 6.31 18582#KAA032-001-001: suitability for both directions of flow.....                            | 40       |
| 6.32 18582#KAA033-001-001: final value of pressure measuring range.....                            | 41       |
| 6.33 18582#KAA034-001-001: grade of filtration.....                                                | 42       |
| 6.34 18582#KAA035-001-001: filter efficiency.....                                                  | 43       |
| 6.35 18582#KAA036-001-001: function in normal position.....                                        | 44       |
| 6.36 18582#KAA037-001-001: mode of operation of drive.....                                         | 45       |
| 6.37 18582#KAA038-001-001: noise reduction.....                                                    | 47       |
| 6.38 18582#KAA039-001-001: graphic symbol.....                                                     | 48       |
| 6.39 18582#KAA040-001-001: number of gripper fingers.....                                          | 49       |
| 6.40 18582#KAA041-001-001: gripping force with external gripping.....                              | 50       |
| 6.41 18582#KAA042-001-001: gripping force with internal gripping.....                              | 51       |
| 6.42 18582#KAA043-001-001: gripping torque with external gripping.....                             | 52       |
| 6.43 18582#KAA044-001-001: gripping torque with internal gripping.....                             | 53       |
| 6.44 18582#KAA045-001-001: manual override.....                                                    | 54       |

|       |                                                                        |     |
|-------|------------------------------------------------------------------------|-----|
| 6.45  | 18582#KAA046-001-001: stroke.....                                      | 55  |
| 6.46  | 18582#KAA047-001-001: stroke per gripper jaw .....                     | 56  |
| 6.47  | 18582#KAA048-001-001: piston diameter .....                            | 57  |
| 6.48  | 18582#KAA049-001-001: type of piston rod.....                          | 58  |
| 6.49  | 18582#KAA050-001-001: type of piston rod end .....                     | 59  |
| 6.50  | 18582#KAA051-001-001: piston rod thread.....                           | 61  |
| 6.51  | 18582#KAA052-001-001: condensate drain.....                            | 64  |
| 6.52  | 18582#KAA053-001-001: logic valve function.....                        | 65  |
| 6.53  | 18582#KAA054-001-001: maximum impact energy.....                       | 66  |
| 6.54  | 18582#KAA055-001-001: maximum stroke reduction per side.....           | 67  |
| 6.55  | 18582#KAA056-001-001: maximum piston speed.....                        | 68  |
| 6.56  | 18582#KAA057-001-001: maximum condensate volume.....                   | 69  |
| 6.57  | 18582#KAA058-001-001: maximum swivel angle extension per side.....     | 70  |
| 6.58  | 18582#KAA059-001-001: maximum swivel angle reduction per side.....     | 71  |
| 6.59  | 18582#KAA060-001-001: maximum temperature of pressure medium.....      | 73  |
| 6.60  | 18582#KAA061-001-001: maximum ambient temperature.....                 | 74  |
| 6.61  | 18582#KAA062-001-001: maximum output pressure.....                     | 75  |
| 6.62  | 18582#KAA063-001-001: maximum operating pressure.....                  | 76  |
| 6.63  | 18582#KAA064-001-001: maximum pilot pressure .....                     | 77  |
| 6.64  | 18582#KAA065-001-001: maximum X-stroke.....                            | 78  |
| 6.65  | 18582#KAA066-001-001: maximum Y-stroke.....                            | 79  |
| 6.66  | 18582#KAA067-001-001: maximum torque in direction of X-axis.....       | 80  |
| 6.67  | 18582#KAA068-001-001: maximum torque in direction of Y-axis.....       | 81  |
| 6.68  | 18582#KAA069-001-001: maximum torque in direction of Z-axis .....      | 82  |
| 6.69  | 18582#KAA070-001-001: maximum vacuum.....                              | 83  |
| 6.70  | 18582#KAA071-001-001: minimum temperature of pressure medium .....     | 84  |
| 6.71  | 18582#KAA072-001-001: minimum ambient temperature .....                | 85  |
| 6.72  | 18582#KAA073-001-001: minimum output pressure.....                     | 86  |
| 6.73  | 18582#KAA074-001-001: minimum operating pressure .....                 | 87  |
| 6.74  | 18582#KAA075-001-001: minimum pilot pressure .....                     | 88  |
| 6.75  | 18582#KAA076-001-001: driver coupling.....                             | 89  |
| 6.76  | 18582#KAA077-001-001: nominal size of pressure gauge.....              | 90  |
| 6.77  | 18582#KAA078-001-001: nominal size.....                                | 91  |
| 6.78  | 18582#KAA079-001-001: nominal size of laval nozzle.....                | 92  |
| 6.79  | 18582#KAA080-001-001: pneumatic port.....                              | 93  |
| 6.80  | 18582#KAA081-001-001: pneumatic output port.....                       | 101 |
| 6.81  | 18582#KAA082-001-001: pneumatic input port.....                        | 109 |
| 6.82  | 18582#KAA083-001-001: pneumatic exhaust port.....                      | 116 |
| 6.83  | 18582#KAA084-001-001: pneumatic clamping port.....                     | 123 |
| 6.84  | 18582#KAA085-001-001: pneumatic pilot port.....                        | 130 |
| 6.85  | 18582#KAA086-001-001: position sensing .....                           | 137 |
| 6.86  | 18582#KAA087-001-001: principle of filter contamination indicator..... | 138 |
| 6.87  | 18582#KAA088-001-001: shear force.....                                 | 140 |
| 6.88  | 18582#KAA089-001-001: grid dimension.....                              | 141 |
| 6.89  | 18582#KAA090-001-001: controller function.....                         | 142 |
| 6.90  | 18582#KAA091-001-001: RoHS conformity.....                             | 143 |
| 6.91  | 18582#KAA092-001-001: IP protection class with connector .....         | 144 |
| 6.92  | 18582#KAA093-001-001: IP protection class without connector .....      | 147 |
| 6.93  | 18582#KAA094-001-001: swivel direction .....                           | 149 |
| 6.94  | 18582#KAA095-001-001: swivel angle.....                                | 150 |
| 6.95  | 18582#KAA096-001-001: clamping area.....                               | 151 |
| 6.96  | 18582#KAA097-001-001: shut-off valve function.....                     | 152 |
| 6.97  | 18582#KAA098-001-001: control characteristics.....                     | 153 |
| 6.98  | 18582#KAA099-001-001: type of control.....                             | 155 |
| 6.99  | 18582#KAA100-001-001: flow control valve function.....                 | 156 |
| 6.100 | 18582#KAA101-001-001: theoretical cylinder force, advancing.....       | 157 |
| 6.101 | 18582#KAA102-001-001: theoretical cylinder force, retracting .....     | 158 |
| 6.102 | 18582#KAA103-001-001: shifting time.....                               | 159 |

|          |                                                                                      |            |
|----------|--------------------------------------------------------------------------------------|------------|
| 6.103    | 18582#KAA104-001-001: shifting-on time of dominant side .....                        | 160        |
| 6.104    | 18582#KAA105-001-001: valve return .....                                             | 161        |
| 6.105    | 18582#KAA106-001-001: torsional tolerance .....                                      | 162        |
| 6.106    | 18582#KAA107-001-001: volumetric flow rate due to secondary venting .....            | 163        |
| 6.107    | 18582#KAA108-001-001: volumetric flow rate through vacuum filter .....               | 164        |
| 6.108    | 18582#KAA109-001-001: volumetric flow rate with respect to atmosphere .....          | 165        |
| 6.109    | 18582#KAA110-001-001: directional control valve function .....                       | 166        |
| 6.110    | 18582#KAA111-001-001: active direction of gripping force backup .....                | 168        |
| 6.111    | 18582#KAA112-001-001: effective torque .....                                         | 169        |
| 6.112    | 18582#KAA113-001-001: limit of the axial force .....                                 | 170        |
| 6.113    | 18582#KAA114-001-001: permissible lateral force .....                                | 171        |
| 6.114    | 18582#KAA115-001-001: certification .....                                            | 172        |
| 6.115    | 18582#KAA116-001-001: ISO standard conformity of cylinder .....                      | 173        |
| 6.116    | 18582#KAA117-001-001: accessory type .....                                           | 174        |
| <b>7</b> | <b>Application classes .....</b>                                                     | <b>175</b> |
| 7.1      | 18582#KAA801-001-001: pneumatics .....                                               | 175        |
| 7.2      | 18582#KAA802-001-001: actuators .....                                                | 176        |
| 7.3      | 18582#KAA803-001-001: valves and valve manifolds .....                               | 178        |
| 7.4      | 18582#KAA804-001-001: compressed air .....                                           | 179        |
| 7.5      | 18582#KAA805-001-001: vacuum technology .....                                        | 181        |
|          | <b>Annex A (informative) Hierarchical structure of the application classes .....</b> | <b>183</b> |
|          | <b>Bibliography .....</b>                                                            | <b>184</b> |

## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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](http://www.iso.org/directives)).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see [www.iso.org/patents](http://www.iso.org/patents)).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

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](http://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](http://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.



# 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.