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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 28781-2012

**Pneumatic fluid power -- Compact cylinders, bores from 20mm
to 100mm -- Basic dimensions and mounting dimensions**

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Table of Contents

- Foreword
- Introduction
- 1 Scope
- 2 Normative references
- 3 Terms and Definitions
- 4 cylinder bore specifications

Foreword

This standard rule according to GB/T 1.1-2009 given draft.

This standard uses the translation method identical with ISO 21287.2004 "Pneumatic cylinder 1000kPa (10bar) series, cylinder bore

20mm to 100mm compact cylinder. "

Correspondence between the consistency of the standards of international documents and normative references of the following documents.

--- GB/T 2348-1993 hydraulic and pneumatic systems and components - Cylinder bores and piston rod diameters (neqISO 3320. 1987);

--- GB/T 2349-1980 hydraulic and pneumatic systems and components series cylinder piston stroke (eqvISO 4393. 1978);

--- GB/T 9094-2006 Cylinders mounting dimensions and mounting types (ISO 6099.2001, IDT);

--- GB/T 14038-2008 pneumatic inlet connection and stud ends (ISO 16030.2001/Amd.1.2005, IDT);

--- GB/T 17446-2012 fluid power systems and components vocabulary (ISO 5598.2008, IDT).

This standard made the following editorial changes.

--- Consistent with the existing standard series, the standard name will be changed to "pneumatic cylinder bore from 20mm to 100mm compact gas

Cylinder basic dimensions, installation dimensions ";

--- Pressure unit "kPa" switch "MPa";

--- Remove the table code "AL";

--- Drawing standards according to China's national standards.

The standard proposed by China Machinery Industry Federation.

This standard by the National Standardization Technical Committee of hydraulic and pneumatic (SAC/TC3) centralized.

This standard was drafted. Yantai Future Automatic Equipment Co., Ltd., Guangdong Zhaoqing Fangda Pneumatic Co., Ltd., Weihai Bo wins pneumatic

Hydraulic Co., Ltd., Festo (China) Co., Ltd., Ningbo Jia Ling Er Pneumatic Machinery Co., Ltd.

Introduction

In the pneumatic system, power is transmitted to the control loop by compressed gas.

Cylinder is one of the components of the pneumatic system, it is the gas pressure into linear motion and force output devices.

Compact cylinder used in the installation space is limited occasions.

GB/T 28781-2012/ISO 21287.2004

Pneumatic cylinder bore from 20mm to 100mm compact

Cylinder basic dimensions, installation dimensions

1 Scope

This standard specifies the maximum working pressure of 1MPa, bores from 20mm to 100mm single rod compact cylinder without a (with or

Magnetic) Basic and installation dimensions.

This series is not equipped with adjustable cushioning cylinder means therefore limited to the application without requiring adjustable cushioning device system.

20mm and 25mm cylinder bore of the cylinder may be conforming to this standard cover mounting. Cylinder bore of 32mm to 100mm

Cylinder can be installed in line with the ISO 15552 stand above cylinder bore of the cylinder can be used in line with ISO 8139 or ISO 8140 live

Piston rod connector.

2 Normative references

The following documents for the application of this document is essential. For dated

references, only the dated edition applies to this article

Member. For undated references, the latest edition (including any amendments) applies to this document.

ISO 3320 fluid power systems and components - Cylinder bores and piston rod diameters - Metric series (Fluidpowersystems and

components-Cylinderbores and piston rod diameters-Metric series)

ISO 4393 fluid power systems and components cylinder piston stroke basic series (Fluidpowersystems and

components-Cylinders-Basic series of piston strokes)

ISO 5598 fluid power systems and components vocabulary (Fluidpowersystems and components-Vocabulary)

ISO 6099 fluid power systems and components cylinder mounting dimensions and mounting types of identification code (Fluidpowersystems

and components-Cylinders-Identification code for mounting dimensions and mounting types)

ISO 8139 Pneumatic cylinder, 1000kPa (10bar) series rod end spherical eyes - Mounting dimensions (Pneumatic fluid

power-Cylinders, 1000kPa (10bar) series-Rod end spherical eyes-Mounting dimensions)

ISO 8140 Pneumatic cylinder, 1000kPa (10bar) series rod end clevis mounting dimensions (Pneumatic fluid

power-Cylinders 1000kPa (10bar) -Rod end clevis-Mounting dimensions)

1000kPa ISO 15552 pneumatic drive with removable installation (10bar) series, went 32mm to 320mm of cylinder

Basic cylinder size, mounting and accessories dimensions (Pneumatic fluid power-Cylinders with detachable mountings,

1000kPa (10bar) series, bores from 32mm to 320mm-Basic, mounting and accessories dimensions)

ISO 16030 Pneumatic connection Ports and stud ends (Pneumatic fluid power-Connections-Ports and

stud ends)

3 Terms and Definitions

ISO 5598 terms and definitions apply to this document defined.

4 cylinder bore specifications

This includes the following in line with ISO 3320 standard cylinder bore size (in mm)
Cylinder series.

20-25-32-40-50-63-80-100

GB/T 28781-2012/ISO 21287.2004

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