

## SLOVENSKI STANDARD SIST ISO 3320:1995

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### Fluidna tehnika - Premeri valjev in batnic - Metrska vrsta

Fluid power systems and components -- Cylinder bores and piston rod diameters -- Metric series

Transmissions hydrauliques et pneumatiques -- Alésages des vérins et diamètres des tiges de piston -- Série métrique standards.iteh.ai)

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ICS:

23.100.20 Pãa læç lã }ãóçæ lã Cylinders

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# INTERNATIONAL STANDARD

ISO 3320

Second edition 1987-10-01



INTERNATIONAL ORGANIZATION FOR STANDARDIZATION ORGANISATION INTERNATIONALE DE NORMALISATION МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ

Fluid power systems and components — Cylinder bores and piston rod diameters — Metric series

Transmissions hydrauliques et pneumatiques — Alésages des vérins et diamètres des tiges de piston — Série métrique (standards.iteh.ai)

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Reference number ISO 3320: 1987 (E)

### **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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting. TANDARD PREVIEW

International Standard ISO 3320 was prepared by Technical Committee ISO/TC 131, Fluid power systems.

The second edition cancels and replaces the first edition (ISO 3320 331975) 9 fable 1 (cylinder bores) of which has been technically revised, ai/catalog/standards/sist/c00dc3c5-feaf-45de-a90e-0130b1ecd332/sist-iso-3320-1995

Users should note that all International Standards undergo revision from time to time and that any reference made herein to any other International Standard implies its latest edition, unless otherwise stated.

### ISO 3320: 1987 (E)

# Fluid power systems and components — Cylinder bores and piston rod diameters - Metric series

### 0 Introduction

In fluid power systems, power is transmitted and controlled through a fluid (liquid or gas) under pressure within an enclosed circuit. iTeh STANDAR

One component of such systems is the fluid power cylinder. This is a device which converts power into linear mechanical S. 142 Dimensions force and motion. It consists of a movable element, i.e. a piston and piston rod, operating within a cylindrical bore.

3.2 cylinder bore: The internal diameter of the cylinder.

3.3 piston rod: The element transmitting mechanical force and motion from the piston.

Bore and rod dimensions are illustrated and identified in the

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This International Standard establishes a metric series of cylinder bores and piston rod diameters for application to hydraulic and pneumatic fluid power cylinders.

This International Standard only applies to the dimensional criteria of products manufactured in conformity with this International Standard; it does not apply to their functional characteristics.

### 2 Reference

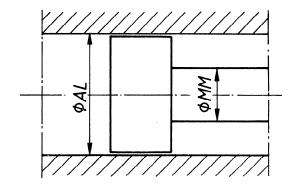
ISO 5598, Fluid power systems and components Vocabulary.

### **Definitions**

For the purposes of this International Standard, the definitions given in ISO 5598 and the following definitions apply.

3.1 cylinder: A device which converts fluid power into linear mechanical force and motion.

Scope and field of application 0130b1ecd332/sist-iso-3cylinder bores and piston rod diameters shall be selected from the dimensions given in tables 1 and 2.



AL = cylinder boreMM = piston rod diameter

NOTE — Letter codes as specified in ISO 6099.

Figure - Identification of bore and rod dimensions

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### Table 1 — Cylinder bores 1)

Dimensions in millimetres

AL	8	10	12	16	20	25	32	40	50	63	80	(90)	100	(110)
	125	(140)	160	(180)	200	(220)	250	(280)	320	(360)	400	(450)	500	

<sup>1)</sup> An extension upwards of the diameter ranges may, if required, be made using the series of preferred numbers: R 10 for diameters  $AL \le 100$  mm and R 20 for diameters AL > 100 mm.

Values in parentheses are non-preferred values and should be used only for special applications.

Table 2 - Piston rod diameters 1)

Dimensions in millimetres

	4	5	6	8	10	12	14	16	18	20	22	25
MM	28	32	36	40	45	50	56	63	70	80	90	100
	110	125	140	160	180	200	220	250	280	320	360	

<sup>1)</sup> An extension upwards of the diameter ranges may, if required, be made using the R 20 series of preferred numbers.

### 5 Identification statement (Reference to this International Standard)

Use the following statement in test reports, catalogues and sales literature when electing to comply with this International Standard:

"Cylinder bores and piston rod diameters selected in accordance with ISO 3320. Fluid power systems and components — Cylinder bores and piston rod diameters — Metric series."

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### **Bibliography**

### SIST ISO 3320:1995

The following International Standard is referred to the this international Standard for information purposes only: 0130b1ecd332/sist-iso-3320-1995

ISO 6099, Fluid power systems and components — Cylinders — Identification code for mounting dimensions and mounting types.

UDC 62-222: 621.8.032/.033

**Descriptors**: hydraulic fluid power, pneumatic fluid power, hydraulic equipment, pneumatic equipment, hydraulic cylinders, pneumatic cylinders, bores, piston-rods, dimensions.

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