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

*Transmissions et composants hydrauliques et pneumatiques —  
Alésages des vérins et diamètres des tiges de piston et rapports de  
surface — Série métrique*

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Published in Switzerland

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## Foreword

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The committee responsible for this document is ISO/TC 131, *Fluid power systems*, Subcommittee SC 3, *Cylinders*.

This third edition of ISO 3320 cancels and replaces the second edition (ISO 3320:1987) and the second edition of ISO 7181:1991, which have been combined and technically revised.

## Introduction

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

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

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