BS ISO 10094-1:2010

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Pneumatic fluid power — Electro-pneumatic pressure control valves

Part 1: Main characteristics to include in the supplier's literature

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National foreword

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Part 1: Main characteristics to include in the supplier's literature

Transmissions pneumatiques — Appareils électropneumatiques de distribution à commande continue de pression —

Partie 1: Principales caractéristiques à inclure dans la documentation des fournisseurs

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Foreword

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ISO 10094-1 was prepared by Technical Committee ISO/TC 131, *Fluid power systems*, Subcommittee SC 5, *Control products and components*.

ISO 10094 consists of the following parts, under the general title *Pneumatic fluid power — Electro-pneumatic pressure control valves*:

— *Part 1: Main characteristics to include in the supplier's literature*

— *Part 2: Test methods to determine main characteristics to include in the supplier's literature*

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Introduction

In pneumatic fluid power systems, power is transmitted and controlled through a gas under pressure within a circuit.

When it is required to track precisely a variable pressure set point or when precise pressure regulation is needed, electro-pneumatic continuous pressure control valves can be used.

These control valves continuously modulate the pneumatic power of a system in response to a continuous electrical input signal and link the electrical input value to a proportional pressure value.

It is therefore necessary to know some performance characteristics of these electro-pneumatic continuous pressure control valves in order to determine their suitability.

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