

# ISO 6953-1:2024-01 (E)

## Pneumatic fluid power - Compressed air pressure regulators and filter-regulators - Part 1: Main characteristics to include in supplier's literature and product-marking requirements

---

<b>Contents</b>		<b>Page</b>
Foreword .....		iv
Introduction .....		v
<b>1</b>	<b>Scope .....</b>	<b>1</b>
<b>2</b>	<b>Normative references .....</b>	<b>1</b>
<b>3</b>	<b>Terms and definitions .....</b>	<b>2</b>
<b>4</b>	<b>Technical requirements .....</b>	<b>3</b>
4.1	General .....	3
4.2	General characteristics .....	3
4.2.1	General dimensions .....	3
4.2.2	Port forms .....	4
4.2.3	Rated pressure .....	4
4.2.4	Range of operating temperatures .....	4
4.3	Particular requirements .....	4
4.3.1	General .....	4
4.3.2	Adjustable pressure ranges (outlet regulated pressure) .....	4
4.3.3	Flow rate-pressure characteristics .....	5
4.3.4	Pressure regulation characteristic .....	6
4.3.5	Pilot pressure/regulated pressure characteristics .....	6
4.3.6	Repeatability .....	8
4.3.7	Output resolution in the case of manual air pressure .....	8
4.3.8	Resolution in the case of pressure-pilot air pressure regulator .....	8
4.3.9	Sensitivity for manual and pressure-pilot air pressure regulator .....	8
4.3.10	Maximum air consumption at null forward flow rate or relief flow rate for pilot- operated regulator with air bleed .....	8
4.3.11	Useful retention capacity of the reservoir .....	8
4.3.12	Filter-regulator draining devices .....	9
4.3.13	Materials of construction .....	9
<b>5</b>	<b>Operation and maintenance .....</b>	<b>9</b>
<b>6</b>	<b>Marking .....</b>	<b>9</b>
<b>7</b>	<b>Identification statement -- Reference to ISO 6953-1 (this document) .....</b>	<b>9</b>
Bibliography .....		11