

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

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	2
4	Technical requirements	3
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
5	Operation and maintenance	9
6	Marking	9
7	Identification statement -- Reference to ISO 6953-1 (this document)	9
Bibliography		11