

ISO 10524-3:2005-05 (E)

Pressure regulators for use with medical gases - Part 3: Pressure regulators integrated with cylinder valves

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	2
4	Symbols	4
5	General requirements	4
5.1	Safety	4
5.2	Alternative construction	4
5.3	Materials	4
5.4	Design requirements	5
5.5	Constructional requirements	12
6	Test methods	13
6.1	Conditions	13
6.2	Test methods for outlet pressure	14
6.3	Test method for pressure-relief valve	15
6.4	Test methods for leakage	15
6.5	Test method for mechanical strength	16
6.6	Test method for resistance to ignition	17
6.7	Test method for accuracy of flow of pressure regulators integrated with cylinder valves fitted with flowmeters or flowgauges	20
6.8	Test method for the stability of flow of pressure regulators integrated with cylinder valves fitted with flowmeters or flowgauges	20
6.9	Test method for stability and accuracy of flow of pressure regulators integrated with cylinder valves fitted with fixed orifices	20
6.10	Test method for flow setting and loosening torques	20
6.11	Drop test	21
6.12	Impact test	21
6.13	Test method for means of gas shut-off	22
6.14	Test method for non-return valve of filling port	22
6.15	Test method for durability of markings and colour coding	22
7	Marking, colour coding, packaging	22
7.1	Marking	22
7.2	Colour coding	23
7.3	Packaging	23
8	* Information to be supplied by the manufacturer	24
Annex A (informative) Examples of pressure regulators integrated with cylinder valves		26
Annex B (normative) Rationale		29
Annex C (informative) Reported regional and national deviations of colour coding and nomenclature for medical gases		31
Bibliography		33