

ISO 23826:2021-10 (E)

Gas cylinders - Ball valves - Specification and testing

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	2
4	Valve description	4
5	Valve design requirements	7
5.1	General	7
5.2	Materials	7
5.3	Valve connections	8
5.4	Mechanical strength	8
5.4.1	Resistance to hydraulic burst pressure	8
5.4.2	Resistance to mechanical impact	9
5.5	Valve operating mechanism	9
5.6	Valve operating device	10
5.7	Leakage	10
5.8	Securing arrangements	10
5.9	Manufacturing tests and examinations	11
6	Type testing	11
6.1	General	11
6.2	Documentation	13
6.3	Test samples	13
6.4	Test report	14
6.5	Test temperatures	14
6.6	Test pressures	14
6.6.1	Valve burst test pressure	14
6.6.2	Valve test pressure	14
6.7	Test gases	14
6.7.1	Gas quality	14
6.7.2	Leak tightness tests	15
6.7.3	Endurance tests	15
6.8	Test schedule	15
6.9	Hydraulic burst pressure test	16
6.10	Flame impingement test	16
6.11	Excessive torque test	16
6.12	Leak tightness test	17
6.12.1	General	17
6.12.2	Internal leak tightness test	17
6.12.3	External leak tightness test	18
6.13	Endurance test	19
6.14	Visual examination	19
7	Marking	19
8	Operating instructions	20

Annex A (normative) Endurance test machine	21
Bibliography	23