

# ISO 23826:2021-10 (E)

## Gas cylinders - Ball valves - Specification and testing

---

<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>Valve description .....</b>	<b>4</b>
<b>5</b>	<b>Valve design requirements .....</b>	<b>7</b>
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
<b>6</b>	<b>Type testing .....</b>	<b>11</b>
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
<b>7</b>	<b>Marking .....</b>	<b>19</b>
<b>8</b>	<b>Operating instructions .....</b>	<b>20</b>

<b>Annex A (normative) Endurance test machine .....</b>	<b>21</b>
<b>Bibliography .....</b>	<b>23</b>