

# DIN EN ISO 7291:2021-03 (E)

Gas welding equipment - Pressure regulators for manifold systems used in welding, cutting and allied processes up to 30 MPa (300 bar) (ISO 7291:2010 + Amd 1:2015) (includes Amendment :2015)

---

<b>Contents</b>		<b>Page</b>
Foreword .....		3
"Foreword to Amendment" .....		4
<b>1</b>	<b>Scope .....</b>	<b>5</b>
<b>2</b>	<b>Normative references .....</b>	<b>5</b>
<b>3</b>	<b>Terms and definitions .....</b>	<b>6</b>
<b>4</b>	<b>Units .....</b>	<b>7</b>
<b>4.1</b>	<b>Pressure .....</b>	<b>7</b>
<b>4.2</b>	<b>Flow .....</b>	<b>7</b>
<b>4.3</b>	<b>Temperature .....</b>	<b>7</b>
<b>5</b>	<b>Manufacturing requirements .....</b>	<b>7</b>
<b>5.1</b>	<b>Materials .....</b>	<b>7</b>
<b>5.2</b>	<b>Design, machining and assembly .....</b>	<b>8</b>
<b>6</b>	<b>Physical characteristics .....</b>	<b>10</b>
<b>6.1</b>	<b>General .....</b>	<b>10</b>
<b>6.2</b>	<b>Pressures .....</b>	<b>11</b>
<b>6.3</b>	<b>Flow rates .....</b>	<b>11</b>
<b>6.4</b>	<b>Operating characteristics .....</b>	<b>13</b>
<b>7</b>	<b>Marking .....</b>	<b>14</b>
<b>7.1</b>	<b>Pressure regulator .....</b>	<b>14</b>
<b>7.2</b>	<b>Pressure relief devices .....</b>	<b>14</b>
<b>8</b>	<b>Instructions for use .....</b>	<b>14</b>
<b>9</b>	<b>Type test procedure .....</b>	<b>15</b>
<b>9.1</b>	<b>General .....</b>	<b>15</b>
<b>9.2</b>	<b>Test conditions .....</b>	<b>15</b>
<b>9.3</b>	<b>Functional tests .....</b>	<b>16</b>
<b>9.4</b>	<b>Tests for mechanical resistance of pressure regulators .....</b>	<b>18</b>
<b>9.5</b>	<b>Test for durability of markings .....</b>	<b>22</b>
<b>Bibliography .....</b>		<b>23</b>