

# DIN EN ISO 4126-5:2013-12 (E)

## Safety devices for protection against excessive pressure - Part 5: Controlled safety pressure relief systems (CSPRS) (ISO 4126-5:2013)

---

<b>Contents</b>		<b>Page</b>
Foreword .....		3
<b>1</b>	<b>Scope .....</b>	<b>4</b>
<b>2</b>	<b>Normative references .....</b>	<b>4</b>
<b>3</b>	<b>Terms and definitions .....</b>	<b>4</b>
<b>4</b>	<b>Symbols and units .....</b>	<b>10</b>
<b>5</b>	<b>Design .....</b>	<b>10</b>
<b>5.1</b>	<b>General .....</b>	<b>10</b>
<b>5.2</b>	<b>Valve end connections .....</b>	<b>12</b>
<b>5.3</b>	<b>Minimum requirements for springs .....</b>	<b>13</b>
<b>5.4</b>	<b>Materials .....</b>	<b>13</b>
<b>6</b>	<b>Production testing .....</b>	<b>13</b>
<b>6.1</b>	<b>Purpose .....</b>	<b>13</b>
<b>6.2</b>	<b>General .....</b>	<b>13</b>
<b>6.3</b>	<b>Hydrostatic testing .....</b>	<b>14</b>
<b>6.4</b>	<b>Pneumatic testing .....</b>	<b>14</b>
<b>6.5</b>	<b>Adjustment of set or cold differential test pressure .....</b>	<b>15</b>
<b>6.6</b>	<b>Seat leakage test .....</b>	<b>15</b>
<b>6.7</b>	<b>Pressure seals .....</b>	<b>15</b>
<b>7</b>	<b>Type testing .....</b>	<b>15</b>
<b>7.1</b>	<b>General .....</b>	<b>15</b>
<b>7.2</b>	<b>Tests to determine operating characteristics .....</b>	<b>17</b>
<b>7.3</b>	<b>Tests to determine flow characteristics .....</b>	<b>18</b>
<b>7.4</b>	<b>Determination of the coefficient of discharge .....</b>	<b>20</b>
<b>7.5</b>	<b>Certification of coefficient of discharge .....</b>	<b>20</b>
<b>7.6</b>	<b>Certification of CSPRS .....</b>	<b>20</b>
<b>8</b>	<b>Determination of CSPRS performance .....</b>	<b>20</b>
<b>9</b>	<b>Sizing of CSPRS .....</b>	<b>20</b>
<b>10</b>	<b>Marking and sealing .....</b>	<b>21</b>
<b>10.1</b>	<b>Marking .....</b>	<b>21</b>
<b>10.2</b>	<b>Sealing of a CSPRS .....</b>	<b>22</b>
<b>Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 97/23/EC (PED) .....</b>		<b>23</b>
<b>Bibliography .....</b>		<b>24</b>