

# ISO 19973-4:2007-08 (E)

## Pneumatic fluid power - Assessment of component reliability by testing - Part 4: Pressure regulators

---

<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>Symbols and units .....</b>	<b>2</b>
<b>5</b>	<b>Test equipment .....</b>	<b>2</b>
<b>5.1</b>	<b>Basic test equipment .....</b>	<b>2</b>
<b>5.2</b>	<b>Directional control valve .....</b>	<b>3</b>
<b>5.3</b>	<b>Connecting piping .....</b>	<b>3</b>
<b>6</b>	<b>Test conditions .....</b>	<b>3</b>
<b>6.1</b>	<b>General test conditions .....</b>	<b>3</b>
<b>6.2</b>	<b>Inlet and outlet pressures .....</b>	<b>3</b>
<b>6.3</b>	<b>Pressure-cycle trace for the endurance test .....</b>	<b>3</b>
<b>7</b>	<b>Test procedure .....</b>	<b>3</b>
<b>7.1</b>	<b>Selection of test units .....</b>	<b>3</b>
<b>7.2</b>	<b>Timing of checks and measurements .....</b>	<b>3</b>
<b>7.3</b>	<b>Type and scope of checks and measurements .....</b>	<b>4</b>
<b>7.4</b>	<b>Endurance test .....</b>	<b>4</b>
<b>8</b>	<b>Threshold levels .....</b>	<b>5</b>
<b>8.1</b>	<b>General .....</b>	<b>5</b>
<b>8.2</b>	<b>Functional failure .....</b>	<b>5</b>
<b>8.3</b>	<b>Failure due to leakage .....</b>	<b>5</b>
<b>8.4</b>	<b>Failure due to pressure characteristics .....</b>	<b>6</b>
<b>9</b>	<b>Data analysis .....</b>	<b>6</b>
<b>10</b>	<b>Test report .....</b>	<b>6</b>
<b>11</b>	<b>Identification statement .....</b>	<b>6</b>
<b>Annex A (informative) Flow chart illustrating the test procedure specified in this part of ISO 19973 ...</b>		<b>7</b>
<b>Bibliography .....</b>		<b>8</b>