

# ISO 12619-10:2017-08 (E)

## Road vehicles - Compressed gaseous hydrogen (CGH<sub>2</sub>) and hydrogen/natural gas blends fuel system components - Part 10: Pressure relief device (PRD)

---

<b>Contents</b>		<b>Page</b>
Foreword .....		iv
<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>1</b>
<b>4</b>	<b>Marking .....</b>	<b>2</b>
<b>5</b>	<b>Construction and assembly .....</b>	<b>3</b>
<b>6</b>	<b>Tests .....</b>	<b>3</b>
6.1	Applicability .....	3
6.2	Hydrostatic strength .....	4
6.2.1	Housing .....	4
6.2.2	Fusible material .....	4
6.3	Leakage .....	4
6.4	Bending moment .....	5
6.5	Continued operation .....	5
6.5.1	Test procedure .....	5
6.5.2	Requirements .....	5
6.6	Accelerated life .....	5
6.6.1	General .....	5
6.6.2	Test procedure .....	5
6.6.3	Accelerated-life test temperature .....	6
6.6.4	Requirements .....	6
6.7	Benchtop activation .....	6
6.7.1	General .....	6
6.7.2	Thermally activated relief devices .....	6
6.7.3	Parallel-combination relief devices .....	7
6.8	Thermal cycling .....	7
6.8.1	Test procedure .....	7
6.8.2	Requirements .....	8
6.9	Condensate-corrosion resistance .....	8
6.9.1	Test procedure .....	8
6.9.2	Test solution .....	8
6.10	Flow capacity .....	8
6.10.1	General .....	8
6.10.2	Test procedure .....	8
6.11	Impact due to drop and vibration .....	9
6.11.1	Impact due to drop .....	9
6.11.2	Vibration .....	9
<b>7</b>	<b>Production batch inspection and acceptance testing .....</b>	<b>9</b>
<b>Annex A (normative)</b>	<b>Determination of fusible material yield temperature and PRD activation temperature .....</b>	<b>10</b>
<b>Bibliography .....</b>		<b>12</b>