

# DIN 2459:2011-06 (E)

## Inseparable elastomer sealed connectors made of metal for metallic pipes for use in drinking water system installations - General requirements and test methods

---

<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>5</b>
<b>4</b>	<b>Requirements .....</b>	<b>6</b>
4.1	Materials .....	6
4.1.1	General .....	6
4.1.2	Metals .....	6
4.1.3	Elastomers .....	7
4.2	Connections .....	8
4.2.1	Leak-tightness .....	8
4.2.2	Surface quality/homogeneity .....	8
4.2.3	Hydrostatic pressure .....	8
4.2.4	Vacuum .....	8
4.2.5	Pressure cycling .....	8
4.2.6	Temperature cycling .....	9
4.2.7	Vibration .....	9
4.2.8	Non-pressed fitting detection .....	9
4.2.9	Resistance of copper-zinc alloys to stress corrosion cracking .....	9
4.2.10	Resistance to dezincification .....	9
4.2.11	Leak-tightness of connectors which are produced by casting, welding or soldering processes .....	9
4.3	Hygiene .....	9
<b>5</b>	<b>Testing .....</b>	<b>10</b>
5.1	Materials .....	10
5.1.1	Metals .....	10
5.1.2	Elastomers .....	10
5.2	Connections .....	10
5.2.1	Preparing connections for testing .....	10
5.2.2	Connector dimensions .....	11
5.2.3	Surface quality/homogeneity .....	11
5.2.4	Hydrostatic pressure .....	11
5.2.5	Vacuum .....	11
5.2.6	Pressure cycling .....	12
5.2.7	Temperature cycling .....	13
5.2.8	Vibration .....	14
5.2.9	Non-pressed fitting detection .....	15
5.2.10	Resistance of copper-zinc alloys to stress corrosion cracking .....	16
5.2.11	Resistance to dezincification .....	16
5.2.12	Leak-tightness of connectors which are produced by casting, welding or soldering processes .....	16
<b>6</b>	<b>Quality assurance .....</b>	<b>16</b>
6.1	General .....	16
6.2	Tests to be carried out .....	17
6.2.1	Pipe joints .....	17
6.2.2	Elastomers .....	18
<b>7</b>	<b>Classification, marking and coding .....</b>	<b>19</b>