

# DIN EN 15092:2008-09 (E)

## Building valves - Inline hot water supply tempering valves - Tests and requirements

---

<b>Contents</b>		<b>Page</b>
Foreword .....		3
Introduction .....		4
1	Scope .....	5
2	Normative references .....	5
3	Terms and definitions .....	6
4	Materials and surface finishes .....	7
4.1	General .....	7
4.2	Nature of materials .....	7
5	Design and dimensional requirements .....	8
5.1	Backflow prevention .....	8
5.2	Dimensional characteristics .....	8
5.3	Set temperature adjustment .....	10
5.4	Temperature override function .....	10
6	Mechanical tests and requirements .....	10
6.1	Body strength test .....	10
6.2	Bending moment test for tempering valves .....	10
6.3	Torque tests for temperature stops .....	11
7	Performance tests and requirements .....	12
7.1	General .....	12
7.2	Standard test conditions .....	12
7.3	Verification of valve temperature settings .....	13
7.4	Determination of minimum flow rate .....	14
7.5	Test for temperature stability starting from ambient .....	16
7.6	Test for temperature stability with changing flow rates .....	17
7.7	Test for thermal shutoff with cold water supply failure .....	18
7.8	Test for temperature stability with changing inlet pressure .....	18
7.9	Test for temperature stability with changing inlet temperature .....	19
7.10	Endurance test on the thermostat .....	20
8	Acoustic tests and requirements .....	21
8.1	General .....	21
8.2	Test method .....	21
8.3	Expression of results .....	21
8.4	Requirements .....	21
9	Classification .....	21
10	Designation .....	21
11	Marking .....	22
11.1	Temperature marking .....	22
11.2	Flow marking .....	22
11.3	Identification marking .....	22

<b>12</b>	<b>Instructions .....</b>	<b>22</b>
	<b>Annex A (informative) Apparatus for endurance test on thermostat .....</b>	<b>24</b>
	<b>Annex B (informative) Apparatus for performance test .....</b>	<b>26</b>
	<b>Annex C (normative) Measurement of parameters .....</b>	<b>28</b>
	<b>Annex D (informative) Temperature transient requirements .....</b>	<b>29</b>
	<b>Bibliography .....</b>	<b>30</b>