DIN EN ISO 10497:2024-04 (E)

Testing of valves - Fire type-testing requirements (ISO 10497:2022)

Contents

Page

European foreword ... **3**

Foreword ... **4**

Introduction ... **5**

1 Scope ... **6**

2 Normative references ... **6**

3 Terms and definitions ... **6**

4 Test conditions ... **8**
4.1 Direction and conditions for valves to be tested ... 8
4.2 Pressure relief provision ... 8

5 Fire test method ... **9**
5.1 General warning ... 9
5.2 Principle ... 9
5.3 Apparatus ... 9
5.3.1 General ... 9
5.3.2 Specific apparatus ... 10
5.4 Test fluid ... 10
5.5 Test fuel ... 11
5.6 Procedure ... 11

6 Performance ... **16**
6.1 General ... 16
6.2 Through-seat leakage during burn period ... 16
6.3 External leakage during burn and cool-down periods ... 16
6.4 Low-pressure test through-seat leakage after cool-down ... 16
6.5 Operability ... 17
6.6 External leakage following operational test ... 17
6.7 Test report ... 17

7 Qualification of other valves by representative size, pressure rating, design considerations and materials of construction ... **19**
7.1 General ... 19
7.2 Design considerations ... 19
7.3 Materials of construction ... 20
7.4 Decisions by purchaser ... 21
7.5 Qualification of valves by nominal size and pressure rating ... 21

8 Special marking ... **22**

Bibliography ... **23**