ISO 8224-1:2003-02 (E)

Traveller irrigation machines - Part 1: Operational characteristics and laboratory and field test methods

Contents

Page

Foreword iv

1 Scope 1

2 Normative references 1

3 Terms, definitions and symbols 1

4 Functional aspects and technical information 8

5 Test specifications 8
5.1 General 8
5.2 Test liquid 8
5.3 Calculation of field resistance coefficient 9
5.4 Sampling and general preparation of test traveller irrigation machine 10
5.5 Specific machines 10

6 Laboratory uniformity tests 10
6.1 General 10
6.2 Test conditions 11
6.3 Apparatus 14
6.4 Required pre-test data 17
6.5 Procedure 18
6.6 Processing laboratory uniformity test data 20
6.7 Presentation of results 22

7 Laboratory drive tests 27
7.1 General 27
7.2 Laboratory drive test equipment 27
7.3 Laboratory drive test conditions 27
7.4 Laboratory drive test procedure 28
7.5 Laboratory drive test results 28

8 Field uniformity tests 28
8.1 General 28
8.2 Apparatus 29
8.3 Field uniformity test procedure 30
8.4 Field uniformity test data processing and results 32
8.5 Graphs of field uniformity test results 36