DIN EN 13618:2011-12 (E)

Flexible hose assemblies in drinking water installations - Functional requirements and test methods

Contents

Page

Foreword 4

1 Scope 5

2 Normative references 5

3 Terms and definitions 6

4 Requirements 7
4.1 Materials 7
4.1.1 General 7
4.1.2 Chemical and hygienic requirements 8
4.1.3 Hoses 8
4.1.4 Fittings and sleeves 8
4.1.5 Braiding 8
4.1.6 Seals 8
4.2 Functional requirements 8
4.2.1 General 8
4.2.2 Fittings 9
4.2.3 Hose assemblies 13

5 Designation 15

6 Marking 16

Annex A (normative) Tests on fittings 17

A.1 Dimensions and thread control 17
A.2 Mercury nitrate test or ammonium test 17
A.3 Tightening test 17
A.3.1 Test samples 17
A.3.2 Procedure 17
A.4 Bending test 19
A.4.1 Test samples 19
A.4.2 Procedure 19
A.5 Endurance of the seat of female fittings 20
A.5.1 Test samples 20
A.5.2 Procedure 20

Annex B (normative) Hose assembly tests 22

B.1 Flow rate test 22
B.1.1 Test samples 22
B.1.2 Procedure 22
B.2 Ageing treatment by hot storage 23
B.2.1 Test samples 23
B.2.2 Procedure 23
B.3 Tensile test 23
B.3.1 Test samples 23
B.3.2 Procedure 23
B.4 Hydrostatic pressure test 23

B.4.1 Test samples 23
B.4.2 Procedure 23
B.5 Hydraulic performance and durability test 24
B.5.1 Test samples 24
B.5.2 Test conditions 24
B.5.3 Procedure 24
B.6 Test of resistance to pressure jumps 25
B.6.1 Test samples 25
B.6.2 Test conditions 25
B.6.3 Procedure 25
B.7 Temperature cycling test 26
B.7.1 Test samples 26
B.7.2 Procedure 26
B.8 Corrosion resistance test 26
B.8.1 Test samples 26
B.8.2 Procedure 26
B.9 Bending test 26
B.9.1 Test samples 26
B.9.2 Procedure 26
B.10 Test of resistance to frost 28
B.10.1 Test samples 28
B.10.2 Procedure 28

Bibliography 29