ISO 16486-4:2022-01 (E)

Plastics piping systems for the supply of gaseous fuels - Unplasticized polyamide (PA-U) piping systems with fusion jointing and mechanical jointing - Part 4: Valves

Contents

Page

Foreword v

Introduction vii

1 Scope 1

2 Normative references 1

3 Termsanddefinitions 2
3.1 General 3
3.2 Terms relating to design 3

4 Symbols and abbreviated terms 3

5 Material 4
5.1 Compound for valve body 4
5.1.1 Compound 4
5.1.2 Fusion compatibility 4
5.2 Material for non-polyamide parts 4
5.2.1 General 4
5.2.2 Metal parts 4
5.2.3 Elastomers 5
5.2.4 Greases and lubricants 5
5.2.5 Assembly 5

6 General characteristics 5
6.1 Appearance of the valve 5
6.2 Colour 5
6.3 Design 5
6.3.1 General 5
6.3.2 Valve body 5
6.3.3 Valve terminal ends 5
6.3.4 Operating device 5
6.3.5 Seals 6

7 Geometrical characteristics 6
7.1 General 6
7.2 Measurement of dimensions 6
7.3 Dimensions of spigot ends for valves 6
7.4 Dimensions of valves with electrofusion sockets 6
7.5 Dimensions of the operating device 6

8 Mechanical characteristics of assembled valves and regional requirements 7
8.1 General 7
8.2 Conditioning 7
8.3 Requirements 7
8.3.1 Generals 7
8.3.2 Air flow rate 12
8.4 Regional requirement 12

9 Physical characteristics 13

9.1 Conditioning 13
9.2 Requirement 13

10 Performance requirements 13

11 Technical File 13

12 Marking 14
12.1 General 14
12.2 Minimum required marking of valves 14
12.3 Additional marking 15

ISO 16486-4:2022(E) ISO 16486-4:2022(E) 13 Delivery Conditions 15

Annex A (normative) Determination of the leaktightness of seat(s) and packing 16

Annex B (normative) Test method for leaktightness and ease of operation after tensile loading 18

Bibliography 20