

ISO 16486-4:2025-06 (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.....	vi
1	Scope	1
2	Normative references	1
3	Terms and definitions	2
	3.1 General terms.....	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 Components and elements.....	4
	5.2.3 Metal parts.....	4
	5.2.4 Elastomers.....	5
	5.2.5 Greases and lubricants.....	5
	5.2.6 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.....	6
	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 General.....	7
	8.3.2 Air flow rate.....	13
	8.4 Regional requirement.....	13
9	Physical characteristics	13
	9.1 Conditioning.....	13
	9.2 Requirement.....	14
10	Performance requirements	14

11	Technical file	14
12	Marking	15
	12.1 General.....	15
	12.2 Minimum required marking of valves.....	15
	12.3 Additional marking.....	15
13	Delivery conditions	16
	Annex A (normative) Determination of the leaktightness of seat(s) and packing	17
	Annex B (normative) Test method for leaktightness and ease of operation after tensile loading	19
	Bibliography	21