

DIN EN ISO 16138:2019-12 (E)

Industrial valve s - Diaphragm valves of thermoplastics materials (ISO 16138:2006 +
Amd 1:2019) (includes Amendment :2019)

Contents

Page

European foreword.....	4
[A1] European foreword to Amendment A1 [A1]	5
[A1] Annex ZA (informative) Relationship between this European Standard and the essential requirements of Directive 2014/68/EU (Pressure Equipment Directive) aimed to be covered [A1]	6
[A1] Foreword to Amendment 1 [A1]	7
1 Scope	8
2 Normative references	8
3 Terms and definitions	9
4 Requirements	11
4.1 Design	11
4.1.1 Valve function.....	11
4.1.2 Design characteristics	11
4.1.3 Types of valve end connection	11
4.2 Materials.....	12
4.2.1 Materials for the shell.....	12
4.2.2 Materials for other valve components.....	12
4.3 Pressure/temperature rating.....	12
4.4 Dimensions.....	13
4.4.1 Face-to-face dimensions	13
4.4.2 Joint dimensions of the valve end connections	13
4.5 Operation	14
4.6 Functional characteristics.....	14
4.6.1 Design strength.....	14
4.6.2 Flow characteristics	14
4.6.3 Seat and packing/shell leaktightness.....	14
4.6.4 Operating torque	14
4.6.5 Permissible manual forces	15
4.6.6 Durability	15
4.7 Manufacture	15
4.7.1 Control of the manufacture of the body	15
4.7.2 Permanent jointing.....	15
4.8 Other requirements	15
4.8.1 Wear.....	15
4.8.2 Corrosion resistance or other chemical attack	15
4.8.3 Operating instructions	16
5 Test procedures.....	16
5.1 Documentation of test results	16
5.2 Initial type tests	16
5.2.1 General.....	16
5.2.2 Testing materials	16
5.2.3 Shell test	16

5.2.4	Seat leaktightness test	16
5.2.5	Long-term behaviour test of the complete valve.....	17
5.2.6	Durability test.....	17
5.2.7	Operating torque test.....	17
5.2.8	Final test.....	17
6	Declaration of compliance.....	17
7	Designation	17
8	Marking and preparation for storage and transportation	18
8.1	Marking and documentation	18
8.2	Preparation for storage and transportation.....	19
	Annex A (informative) Procurement information.....	20
	Bibliography	21