

DIN EN ISO 17292:2016-05 (E)

Metal ball valves for petroleum, petrochemical and allied industries (ISO 17292:2015)

Contents		Page
European foreword		4
Foreword		5
Introduction		7
1	Scope	8
2	Normative references	8
3	Terms and definitions	10
4	Pressure/temperature ratings	11
4.1	Valve rating.....	11
4.2	Shell rating.....	11
4.3	Seat and seal rating.....	11
5	Design	12
5.1	Flow passageway.....	12
5.2	Body.....	12
5.2.1	Body wall thickness.....	12
5.2.2	Flanged ends.....	14
5.2.3	Butt-welding ends.....	14
5.2.4	Socket welding ends.....	15
5.2.5	Threaded ends.....	17
5.2.6	Body openings.....	17
5.2.7	Anti-static design.....	18
5.2.8	Anti-blow-out stem.....	18
5.2.9	Ball-stem construction.....	18
5.2.10	Ball construction.....	18
5.2.11	Operating means.....	18
5.2.12	Glands.....	19
5.2.13	End flange facing interruptions.....	19
5.2.14	Shell joints.....	20
5.2.15	Packing gland bolting.....	21
5.2.16	Fluid thermal expansion.....	21
6	Materials	22
6.1	Shell.....	22
6.2	Shell material repair.....	22
6.3	Trim.....	22
6.4	Identification plate.....	22
6.5	Bolting.....	22
6.6	Seals.....	22
6.7	Threaded plugs.....	22
6.8	Low temperature service.....	22
6.9	Hydrogen sulfide environment.....	22

7	Marking	23
	7.1 Legibility.....	23
	7.2 Body marking.....	23
	7.3 Ring joint marking.....	23
	7.4 Identification plate.....	23
	7.5 Special marking for unidirectional valves.....	24
8	Testing and inspection	24
	8.1 Pressure tests.....	24
	8.1.1 General.....	24
	8.1.2 Shell test.....	24
	8.1.3 Closure tightness test.....	25
	8.2 Inspection.....	26
	8.2.1 Extent of inspection.....	26
	8.2.2 Site inspection.....	26
	8.3 Examination.....	26
	8.4 Supplementary examination.....	26
9	Preparation for despatch	27
	Annex A (informative) Information to be specified by the purchaser	28
	Annex B (informative) Identification of valve parts	30
	Bibliography	32