

E DIN EN ISO 15761:2020-11 (E)

Erscheinungsdatum: 2020-10-09

Steel gate, globe and check valves for sizes DN 100 and smaller, for the petroleum and natural gas industries (ISO 15761:2020); English version EN ISO 15761:2020

Contents

Page

Foreword.....	v
Introduction.....	vi
1 Scope	1
2 Normative references	1
3 Terms and definitions.....	3
4 Pressure/temperature ratings	4
4.1 Valve ratings.....	4
4.2 Temperature constraints.....	4
5 Design	4
5.1 Reference design.....	4
5.2 Flow passageway	5
5.3 Wall thickness.....	6
5.4 Valve body	7
5.4.1 General	7
5.4.2 Socket welding ends	7
5.4.3 Threaded ends.....	8
5.4.4 Flanged ends	10
5.4.5 Butt-welding ends.....	11
5.4.6 Body seats	12
5.5 Valve bonnet or cover	12
5.6 Obturator.....	14
5.6.1 Seating surfaces	14
5.6.2 Gate valve obturators	14
5.6.3 Globe valve obturators.....	14
5.6.4 Check valve obturators	14
5.7 Stem	15
5.8 Stem nut or stem bushing.....	17
5.9 Packing, packing chamber, and gland.....	17
5.10 Packing retention	18
5.11 Handwheel	18
6 Materials	18
6.1 Trim materials.....	18
6.2 Materials other than trim	18

7	Marking.....	19
7.1	Legibility.....	19
7.2	Body marking	19
7.3	Ring joint groove marking.....	21
7.4	Identification plate marking.....	21
7.5	Weld fabrication marking.....	22
8	Testing and inspection.....	22
8.1	Pressure tests	22
8.1.1	General	22
8.1.2	Shell test.....	22
8.1.3	Closure leakage test	23
8.1.4	Optional closure leakage test for gate valves	24
8.1.5	Backseat leakage test.....	24
8.1.6	Fugitive emission testing.....	24
8.2	Inspection	24
9	Preparation for despatch	25
Annex A (normative)	Requirements for extended body gate valve bodies	26
Annex B (normative)	Requirements for valves with bellows stem seals.....	31
Annex C (normative)	Type testing of bellows stem seals	35
Annex D (informative)	Identification of valve parts.....	38
Annex E (informative)	Information to be specified by the purchaser	41
Annex F (informative)	Valve material combinations	43
Bibliography.....		47

ISO 15761:2020(E)