

ISO 4778:2019 (E)

Round steel short link chains for lifting purposes — Chain slings of welded construction — Grade 8

Contents

	Foreword
1	Scope
2	Normative references
3	Terms and definitions
4	Requirements
4.1	Chain sling
4.2	Components
4.2.1	Chain legs
4.2.2	Master links
4.2.3	Intermediate master links, joining links and end links
4.2.4	Hooks
4.2.5	Other forged components
4.3	Working load limit (WLL)
4.4	Mechanical requirements
4.4.1	General
4.4.2	Single leg chain sling
4.4.3	Double leg chain sling
4.4.4	Three and four leg chain sling
5	Marking
5.1	General
5.2	Single leg chain sling
5.3	Double leg chain sling
5.4	Three and four leg chain sling
6	Manufacturer's certificate
7	Examples of chain slings
Annex A	(informative) Bases for calculation
A.1	Working load limit (WLL)
A.1.1	General
A.1.2	Single leg chain sling with inclination angle $\beta = 0^\circ$
A.1.3	Double leg chain sling with inclination angle $0^\circ < \beta \leq 45^\circ$
A.1.4	Double leg chain sling with inclination angle $45^\circ < \beta \leq 60^\circ$
A.1.5	Intermediate master link with inclination angle $0^\circ < \beta \leq 37,5^\circ$ 1 1 Developed at the National Physical Laboratory, United Kingdom.
A.1.6	Three and four leg chain sling with inclination angle $0^\circ < \beta \leq 45^\circ$
A.1.7	Three and four leg chain sling with inclination angle $45^\circ < \beta \leq 60^\circ$
A.2	Manufacturing proof force (MPF)
A.2.1	General
A.2.2	Test section 1 (TS1)
A.2.3	Test section 2 (TS2)
A.2.4	Test section 3 (TS3)
A.2.5	Test section 4 (TS4)
A.3	Breaking force (BF)
A.3.1	General
A.3.2	Test section 1 (TS1)
A.3.3	Test section 2 (TS2)

A.3.4 Test section 3 (TS3)

A.3.5 Test section 4 (TS4)

Annex B (informative) Correlations, grade 8

Annex C (informative) Compatibility of chain slings to shank hooks

Annex D (informative) Information for the calculation of the nominal diameter of links

Page count: 26