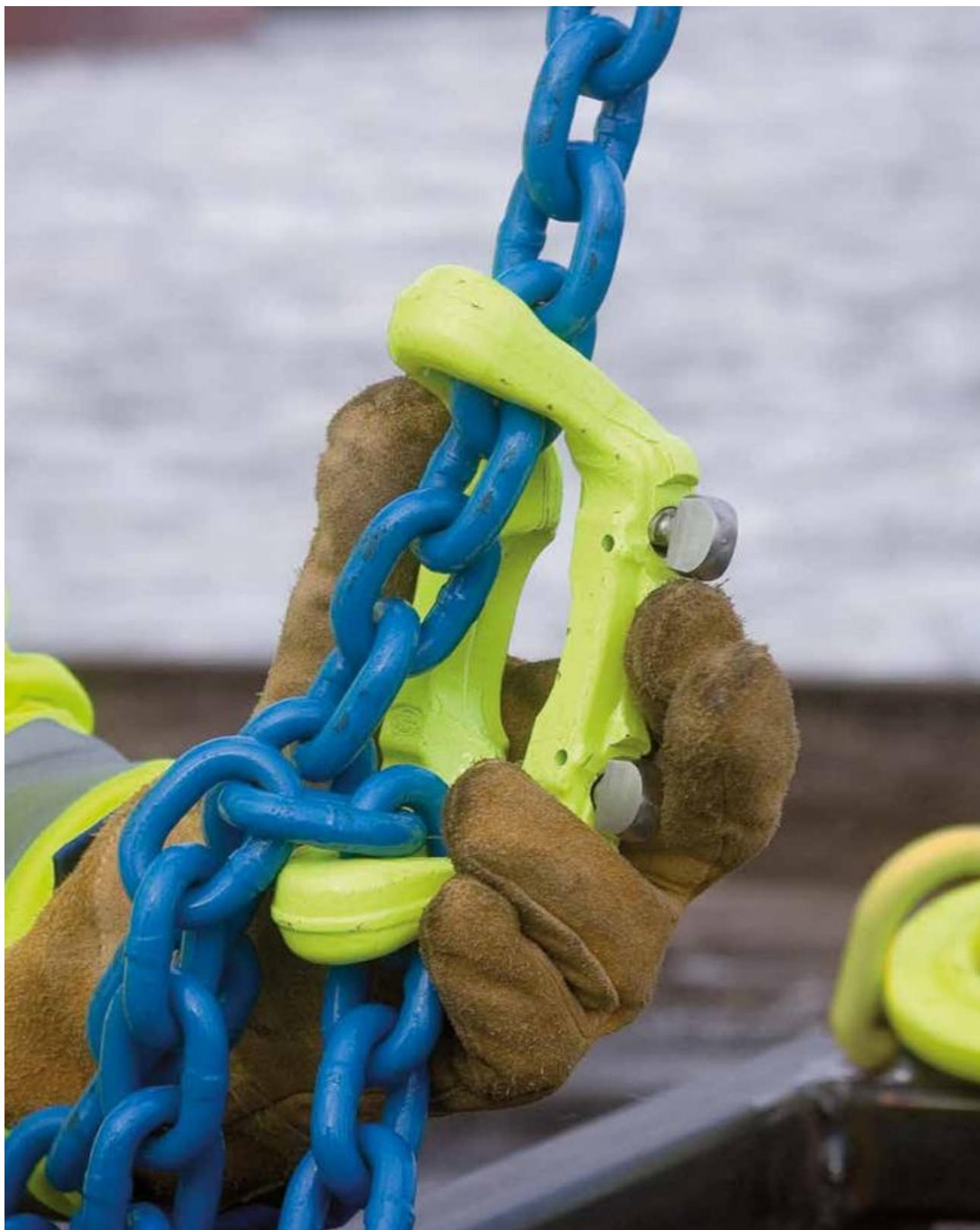




**LIFTING CHAIN AND RIGGING HARDWARES**

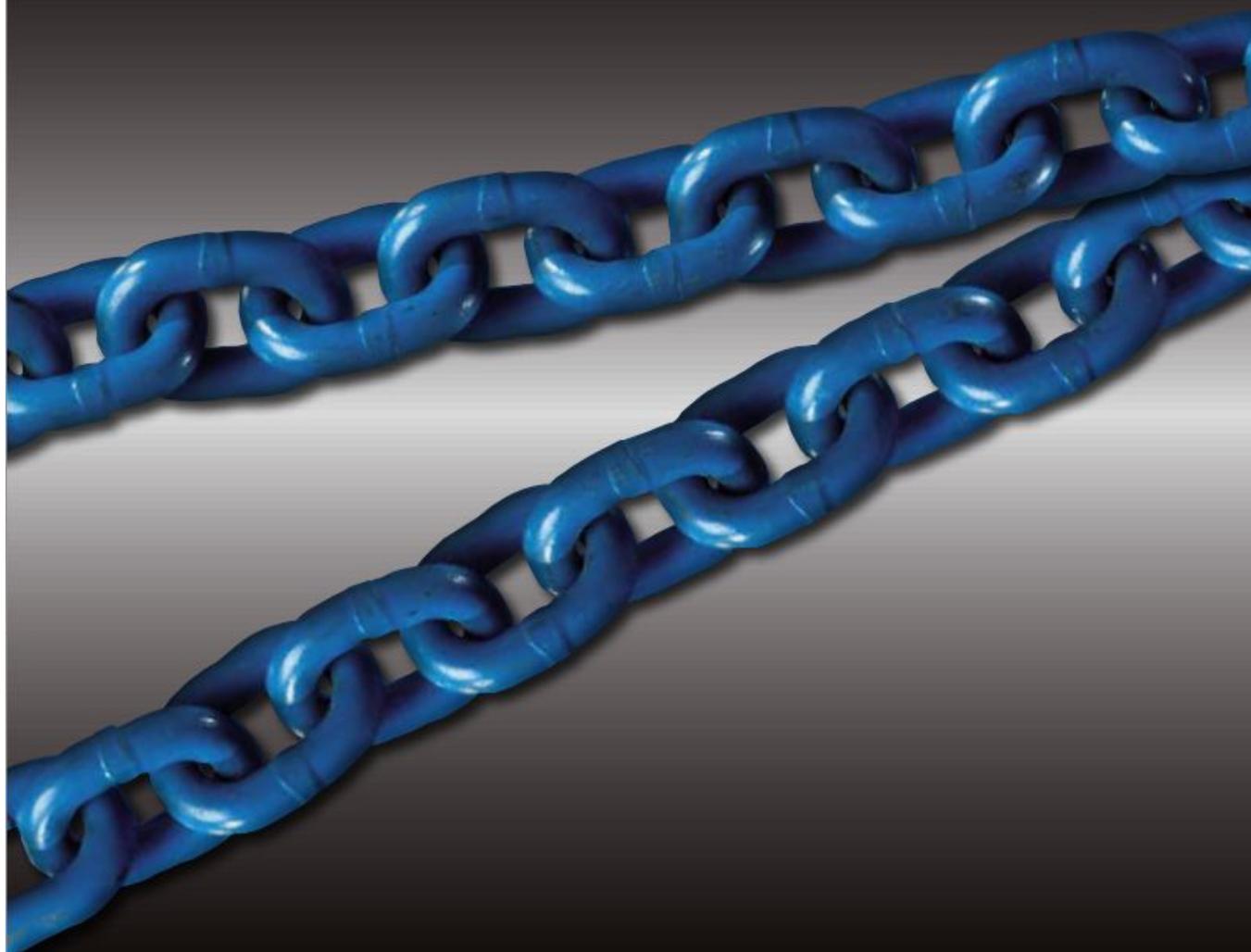




**CHAIN DIVISION**

# Chain

Grade 10 • Grade 8 • Short Link • Mid-link • Long-link





## Short Link Chain Grade 100

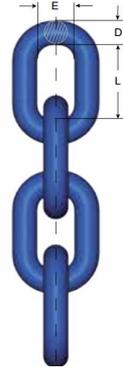
**Heat treatment:** Quenched and tempered.

**Surface treatment:** Painted blue

**Marking:** G10/G100

Note! For chain grade 100 (200) the maximum in-service temperature is 200°C.

<b>WLL. RANGE</b>	1.5ton~27ton
<b>DIA. RANGE</b>	6mm~26mm



## Short Link Chain Grade 80 EN818-2

**Heat treatment:** Quenched and tempered.

**Surface treatment:** Painted black

**Marking:** G8/G80

<b>WLL. RANGE</b>	1.12ton~31.5ton
<b>DIA. RANGE</b>	6mm~32mm



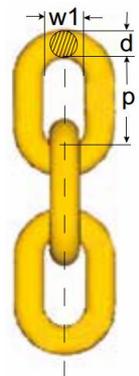
## Short Link Chain Grade 80 EN818-2

**Heat treatment:** Quenched and tempered.

**Surface treatment:** Painted yellow

**Marking:** G8/G80

<b>WLL. RANGE</b>	1.12ton~31.5ton
<b>DIA. RANGE</b>	6mm~32mm





## Mid-link Chain Grade 80

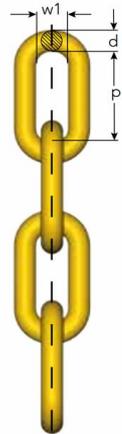
Heat treatment: Quenched and tempered, Stress relieved.

Surface treatment: Painted yellow.

Marking: ???

**Note! Not for lifting purpose.**

<b>DIA. RANGE</b>	10mm~26mm
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## Long-link Chain Grade 80

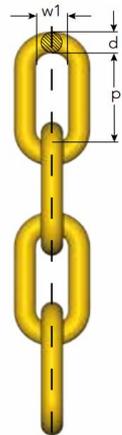
Heat treatment: Quenched and tempered, Stress relieved.

Surface treatment: Painted yellow.

Marking: ???

**Note! Not for lifting purpose.**

<b>DIA. RANGE</b>	6mm~22mm
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## Chain Manufacturing - Quality and Strength Requirements

Chains are divided into grades based on minimum nominal breaking stress.

Chain Grade	Surface treatment	Code	Minimum breaking load N/mm <sup>2</sup>	Load factors			Typical use
				WLL	MPF	Breaking force	
8	Yellow U Black B	KL	800	1	2.5	4	General lifting (KL), Container lashing (LL). Extra heavy towing (ML), Lashing (KL, LL). Fishing (KL, ML, LL)
		ML	800	1	2.5	5	
		LL	800	1	2.5	5	
10	Blue A	KL	1000	1	2.5	4	General lifting

## Testing and Quality Control- Classic Chain (Grade 10 & 8)

In each step of the manufacturing of the chain, our systematic quality monitoring will ensure the highest safety and the longest life span in the product. Here are some especially important aspects of quality:

### Material

The incoming material is supplied with test certificates only from qualified manufacturers and according to





our stated material specifications.

## **Manufacturing**

During forming and welding, the operators continuously control that the links meet the specified dimensions both before and after welding.

Single link samples are continuously mandrel tested on the weld. Shape, dimensions and deburring are then inspected visually.

Sample lengths are heat treated and then destruction load tested. Following these tests, the chain is heat treated.

Hardening and tempering is carried out continuously in computer controlled induction furnaces with regular samplings.

## **Proof Load:**

The entire chain is test loaded. The test force for short link chain is 2.5 times the permitted working load limit. This gives the chain high safety in use. The chain is then visually inspected and cut into delivery lengths. A sample is taken from every length and tested to destruction. Dimensions and shape are also checked. All results are documented.

