

# 8 - Lifting assembly

## CAUTION !

Only a genuine, manufacturer's chain may be used.  
 Never use the lifting chain as a sling.  
 Never twist the lifting chain.  
 Do not bundle the chain into the chain bucket.  
 Always keep the chain clean and oiled and check that it is in good condition every day.

### 8-1 Slack fall stop (in the chain bucket)

## CAUTION !

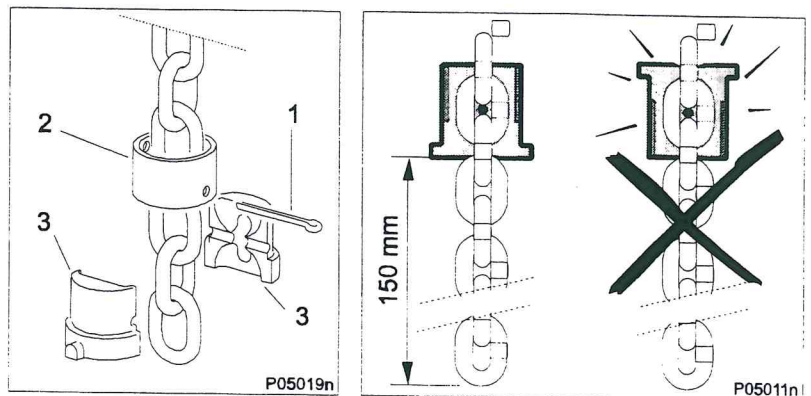
The slack fall stop is a safety component, not a functional one.  
 A correct length of chain is required to avoid using it.

#### REMOVAL:

1. Remove the pin.
2. Remove the tube from the stop.
3. Remove the two halves of the stop.

#### REPLACEMENT:

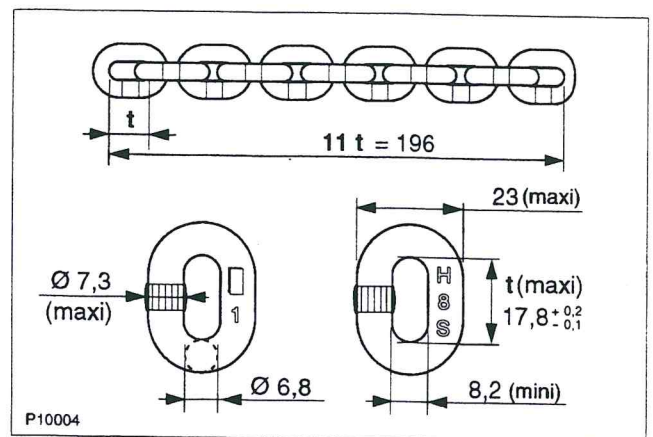
1. Check that there is at least 150 mm of chain under the slack fall stop.  
 Position the two halves of the stop around the chain.
2. Insert the tube around the stop.
3. Insert the pin.



**Note:** Make sure that the stop is correctly fitted. The locking tube should be turned towards the hoist.

### 8-2 Chain « certificate »

Chain type:	standard
Diameter (d) / pitch (t):	6.8 mm / 17.8 mm
Class:	DAT
Grade:	H8S or HE G80 RAS
Maximum working stress:	135.1 N/mm <sup>2</sup>
Hardened surface:	580 or 700 HV
Thickness:	0.14 to 0.28 mm
Standard:	DIN 5684 - 8
Marking (6 x t):	□1 or □16 H 8 S or A 8
Maximum working load, 1 fall:	1000 kg
Breaking load:	58,1 kN
Maximum breaking stress:	800 N/mm <sup>2</sup>
Total breaking elongation:	>10% min.
Weight for 1 m :	1.08 kg



#### Measuring the wear on the chain

This should be done by measuring the dimensions, at several points of the chain, of one link (d) and (t), and over 11 links (11 t).

#### Maximum wear allowed:

Minimum link thickness allowed (d):	6,1 mm
Maximum pitch allowed (t):	18,7 mm
Maximum length allowed (11 t):	199,7 mm

If these limits are exceeded, the chain must be replaced immediately. In this case, the wear on the guide chain and chain sprocket should also be checked and they should be replaced if necessary. If a single link is defective in any way whatsoever, the chain must be replaced.