

EC TYPE-EXAMINATION CERTIFICATE

Acting under the Warenwetbesluit liften issued by Liftinstituut B.V.
identification number Notified Body 0400,
commissioned by Besluit no. 2014-0000003574 of January 10th, 2014

Certificate nr. : NL15-400-1002-187-04 Revision nr.:

Description of the product : Energy dissipation type buffer

Trademark, type : LP 40 x 175

Name and address of the manufacturer : Henning GmbH & Co. KG
Loher Strasse 30
D-58332 Schwelm
Germany

Name and address of the certificate holder : Henning GmbH & Co. KG
Loher Strasse 30
D-58332 Schwelm
Germany

Certificate issued on the following requirements : Lifts Directive 95/16/EC

Certificate based on the following standards : EN 81-20:2014, EN 81-50:2014 5.5
EN 81-1:1998+A3:2009, EN 81-2:1998+A3:2009

Test laboratory : Liftinstituut, Alphen aan den Rijn

Date and number of the laboratory report : Test report belonging to the EC type-examination certificate
nr.: NL15-400-1002-187-04

Date of EC type-examination : April 2015 – December 2015

Additional documents with this certificate : Report belonging to the EC type-examination certificate
nr.: NL15-400-1002-187-04

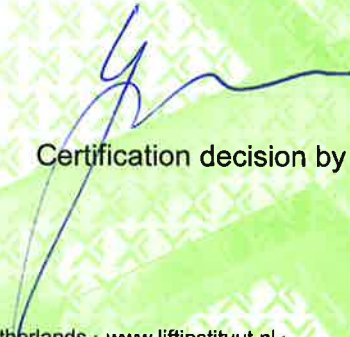
Additional remarks : Maximum nominal speed 1.6 m/s
Load range 450 kg – 3200 kg

Conclusion : The safety component meets the requirements of the Lifts
Directive 95/16/EC taking into account any additional remarks
mentioned above.

Issued in Amsterdam
Date of issue : 07-12-2015
Valid until : 07-12-2020



ing. A.J. van Ommen
Manager Business Unit
Certification



Certification decision by

Report EC type-examination

Report belonging to EC type-examination certificate no. : NL15-400-1002-187-04
 Date of issue of original certificate : December 7th, 2015
 Concerns : Safety component
 No. and date of revision : -.-
 Requirements : Lifts Directive 95/16/EC
 Standards: EN 81-20:2014,
 EN 81-50:2014 5.5,
 EN 81-1:1998+A3:2009,
 EN 81-2:1998+A3:2009
 Project no. : P150320-01

1. General specifications

Name and address manufacturer : Henning GmbH & Co. KG
 Loher Strasse 30
 D-58332 Schwelm
 Germany
 Description of safety component : Energy dissipation type buffer
 Type : LP 40 x 175
 Laboratory : Liftinstituut. Alphen aan den Rijn
 Data of examination : April 2015 – December 2015
 Examination performed by : R. E. Kaspersma

2. Description safety component

The LP 40 x 175 is an energy dissipation type buffer or hydraulic buffer and is designed for lifts with a nominal speed up to 1.6 m/s. A contact is provided which checks if the plunger of the hydraulic buffer is in the extended position. The contact of the buffer is reset automatically.

Specifications hydraulic buffer LP 40 x 175

Total buffer height	495 mm
Diameter	140 mm
Buffer stroke	175 mm
Standard Oil (-10 °C .. +50 °C)	HLP ISO VG 46 DIN 51524-2
Low temperature oil (-20 °C .. +40 °C)	HVLP ISO VG 22 DIN 51524-3



3. Examinations and tests

The examination covered a check whether compliance with the Lift Directive 95/16/EC is met, if possible based on the harmonized product standards of EN 81-20:2014 and EN 81-50:2014 clause 5.5.

The examination included:

- Examination of the technical file (See annex 2):
- Check of performed calculations
- Examination of the representative model in order to establish conformity with the technical file.
- Inspections and tests to check compliance with the requirements.

4. Results

After the final examination the product and the technical file were found in accordance with the requirements. The functional tests passed without remarks. The load tests passed without remarks and did not lead to permanent deformations or loss of stability.

4.1 Calculations

The calculations were found accordance with the requirements.

4.2. Measurements

According clause 5.5.3 of EN 81-50 the buffer was tested with the aid of weights, corresponding to the minimum and maximum masses, falling in free fall to reach at the moment of impact the maximum speed called for.

A description of the tests performed is given in "Test report belonging to EC-type examination nr.: NL15-400-1002-187-04".

5. Conditions

On the EC type-examination certificate the following conditions apply:

- The energy dissipating (hydraulic) buffer is used only for lifts with nominal speed up to 1.6 m/s
- The maximum impact speed is 1.84 m/s
- A contact is provided to check if the buffer is in its extended position.
- The maintenance instructions for the user's manual of the lift shall be provided with the lift.
- Load range is 450 – 3200 kg

6. Conclusions

Based upon the results of the EC type-examination Liftinstituut B.V. issues an EC type-examination certificate.


The EC type-examination certificate is only valid for products which are in conformity with the same specifications as the type certified product. The EC type-examination certificate is issued based on the requirements that are valid at the date of issue. In case of changes of the product specifications, changes in the requirements or changes in the state of the art the certificate holder shall request Liftinstituut B.V. to reconsider the validity of the EC type-examination certificate.

7. CE marking and EC Declaration of conformity

Every safety component that is placed on the market in complete conformity with the examined type must be provided with a CE marking according to annex III of the Directive under consideration that conformity with eventually other applicable Directives is proven. Also every safety component must be accompanied by an EC declaration of conformity according to annex II of the Directive in which the name, address and Notified Body identification number of Liftinstituut B.V. must be included as well as the number of the EC type-examination certificate.

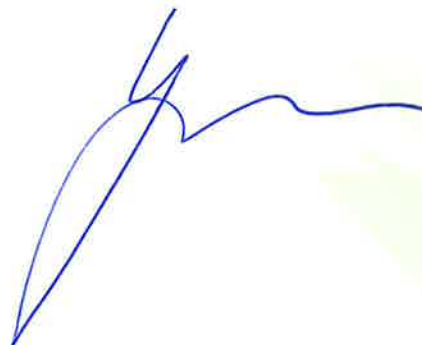
An EC type-certified safety component shall be random checked according to annex XI of the Lift directive 95/16/EC before these safety components may be CE-marked and may be placed on the market. For further information see regulation 2.0.1 'Regulations for product certification' on www.liftinstituut.com.

Prepared by:



R.E. Kaspersma
Product Specialist Certification
Liftinstituut B.V.

Certification decision by:



Annex 2	: Documents of the Technical File which were subject of the examination
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title	document number	date
Betriebsanleitung Liftpuffer LP	Ausgabe 3.1DE	27-11-2015
Druckprüfung Oilschaugläser	-	25-07-2000
Ölempfehlung für Hydraulikpuffer Bauart LP und LPSA	-	-
Berechnungen zur Baumusterprüfung für Aufzugspuffer LP 40 x 80 bis LP 40 x 430	-	16-11-2015
LP40x175-Doku	24017590	12-11-2015
HYDRAULIKROHR-LP40X175B2d	97410303	16-10-2015

Annex 3 : Revision overview

REVISIONS OF THE CERTIFICATE

Rev.:	Date	Summary of revision
-	December 7 th , 2015	Original

REVISIONS OF THE REPORT, BELONGING TO THE CERTIFICATE

Rev.:	Date	Summary of revision
-	December 7 th , 2015	Original