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SINCE 1933

PRODUCTEN
RvA C 067

EU-TYPE EXAMINATION CERTIFICATE

Issued by Liftinstituut B.V.
identification number Notified Body 0400,
commissioned by Decision no. 2023-0000172941

Certificate no.	: NL19-400-1002-187-19	Revision no.: 1
Description of the product	: Energy dissipation type buffer	
Trademark	: Henning	
Type no.	: HPM 40 x 430	
Name and address of the manufacturer	: Henning GmbH & Co. KG Loher Strasse 4 D-58332 Schwelm Germany	
Name and address of the certificate holder	: Henning GmbH & Co. KG Loher Strasse 4 D-58332 Schwelm Germany	
Certificate issued on the following requirements	: Lifts Directive 2014/33/EU	
Certificate based on the following standard	: EN 81-20:2020, EN 81-50:2020 clause 5.5	
Test laboratory	: Liftinstituut, Alphen aan den Rijn	
Date and number of the laboratory report	: 04-06-2019, Test report belonging to the EU type-examination certificate nr.: NL19-400-1002-187-19	
Date of EU-type examination	: June 2024	
Additional document with this certificate	: Report belonging to the EU-type examination certificate no.: NL19-400-1002-187-19 rev.1	
Additional remarks	: This revision replaces certificate NL19-400-1002-187-19 of 04-06-2019 Maximum nominal speed 2.5 m/s Load range 450 kg – 3500 kg	
Conclusion	: The safety component meets the requirements of the Lifts Directive 2014/33/EU considering any additional remarks mentioned above	

Certification decision by

Amsterdam
Date : 03-06-2024
Valid until : 03-06-2029

W.G. Kasteleijn
Product Manager Certification

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Report EU-type examination

Report belonging to EU-type examination certificate number	:	NL19-400-1002-187-19
Date of issue of original certificate	:	04.06.2019
Certificate applies to	:	Safety component
Revision number / date	:	1 / 03.06.2024
Assessment basis	:	Lifts Directive 2014/33/EU Standards: EN 81-20:2020 EN 81-50:2020 section 5.5
Project number	:	P200374

1. General specifications

Description of the product	:	Energy dissipation type buffer
Trademark	:	Henning
Type no.	:	HPM 40 x 430
Name and address of the manufacturer	:	Henning GmbH & Co. KG Loher Strasse 4 D-58332 Schwelm Germany
Laboratory	:	Liftinstituut. Alphen aan den Rijn
Address of examined safety component	:	-
Date of examination	:	June 2024
Examination performed by	:	E. Verkaik

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2. Description safety component

The HPM 40 x 430 is an energy dissipation type buffer or hydraulic buffer and is designed for lifts with a nominal speed up to 2.5 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 HPM 40 x 430

Total buffer height	1122 mm
Diameter	100 mm
Buffer stroke	430 mm
Oil for flame retardant and biodegradable applications (-10 °C .. +50°C)	Shell Naturelle HF-E 46
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
Low temperature oil (-30 °C .. +40 °C)	MOBIL DTE 10 Excel 22

See annex 1 for a general overview of the product.

3. Examinations and tests

The examination covered a check whether compliance with the Lifts Directive 2014/33/EU is met, if possible, based on the harmonized product standards of EN 81-20:2020 and EN 81-50:2020 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.

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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 to 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 EU-type examination nr.: NL19-400-1002-187-19”.

5. Conditions

Additional to or in deviation of the applicable demands in the considered requirements / standards (see certificate and/or page 1 of this report), the following conditions shall be taken into account:

- The energy dissipating (hydraulic) buffer is used only for lifts with nominal speed up to 2.5 m/s.
- The maximum impact speed is 2.87 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 – 3500 kg.

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6. Conclusions

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

The EU-type examination certificate is only valid for products which are in conformity with the same specifications as the type-certified product. The 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 certificate.

7. CE marking and EU 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 article 18 of the Lifts Directive 2014/33/EU under consideration that conformity with eventually other applicable Directives is proven. Also, every safety component must be accompanied by an EU 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 EU-type examination certificate.

An EU-type certified safety component shall be random checked e.g. according to annex IX of the Lifts Directive 2014/33/EU 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:

E. Verkaik
Product Specialist Certification

Certification decision by:

W.G. Kasteleijn
Product Manager Certification

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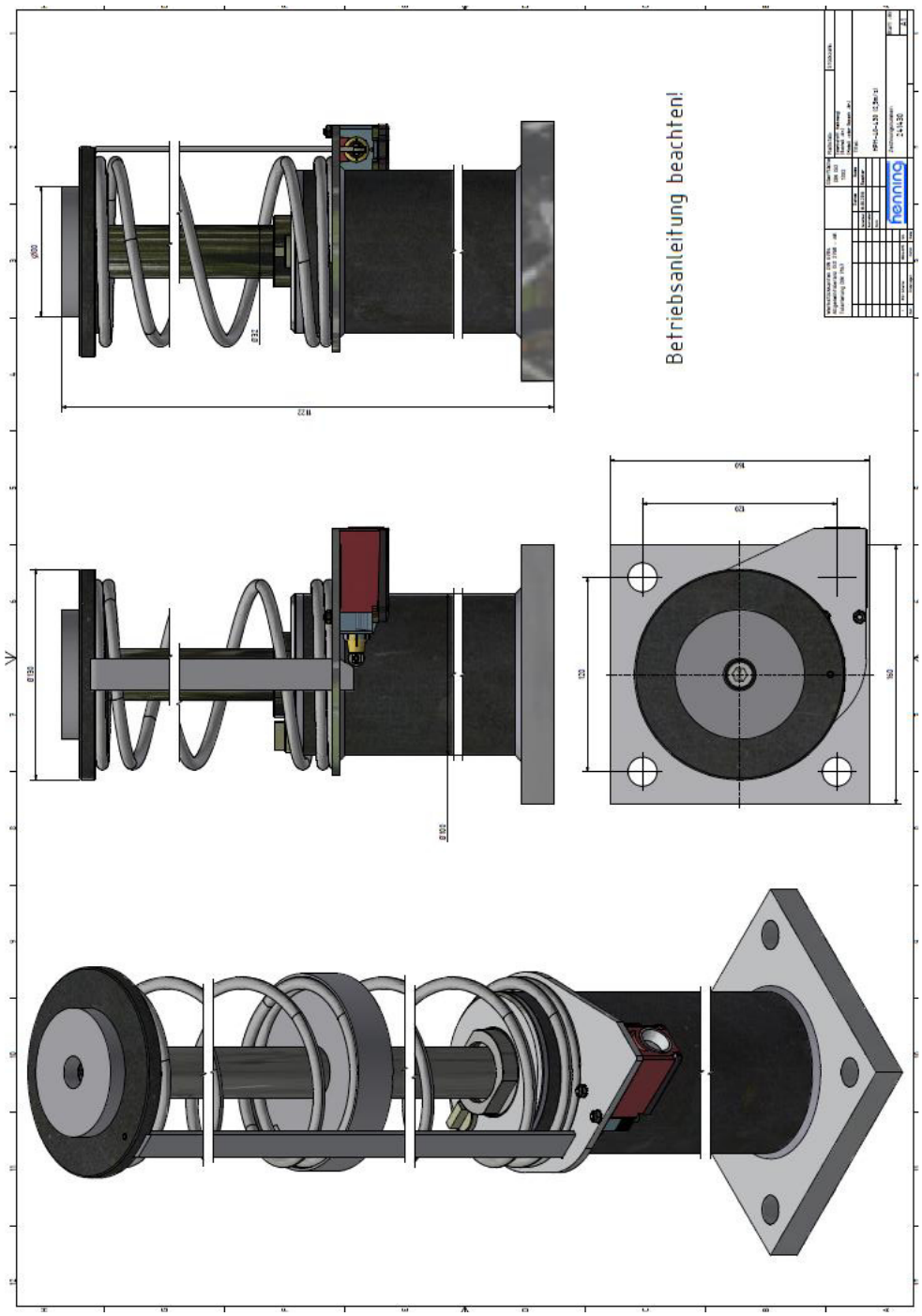
Annexes

Annex 1. General overview of the product



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Annex 2. Documents of the Technical File which were subject of the examination

title	document number	date
Liftpuffer HPL / HPM Rev 1.0	-	07-05-2019
Betriebsanleitung für Liftpuffer HPL & HPM rev. 1.0	-	07-05-2019
Ölempfehlung für Liftpuffer LP und Schrägaufzugspuffer HSAP	-	03-04-2017
Berechungen zur Baumusterprüfung für Aufzugspuffer HPL 40 x 80 bis HPM 40 x 430	-	07-05-2019
Drawing HPL 40 x 275	241275	08-04-2019
Drawing pipe HPL 40 x 275	97401430	29-10-2018

Annex 3. Reviewed deviations from the standards

EN xx-x par.	**Requirement**	**Accepted design**
x.x.x		

Annex 4. Revision of the certificate and its report

Rev.:	**Date**	**Summary of revision**
-	04.06.2019	Original
1	03.06.2024	Renewal, EN 81-20/-50:2020, Shell and MOBIL oil added

--- End of report ---

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