



Industrie Service

Type-examination certificate

Certificate no.:	ESVH 022
Notified body:	TÜV SÜD Industrie Service GmbH Westendstr. 199 80686 München - Germany
Applicant/ Certificate holder:	OMARLIFT S.R.L. Via F.lli. Kennedy 22/D 24060 Bagnatica (BG) – Italy
Date of application:	2014-01-29
Manufacturer of the test sample:	OMARLIFT S.R.L. Via F.lli. Kennedy 22/D 24060 Bagnatica (BG) – Italy
Product:	Hydraulic valve for a brake element as part of a protection means against unintended downward car movement
Type:	HDU 35 STAND ALONE and INTEGRATED
Test laboratory:	TÜV SÜD Industrie Service GmbH Zentralbereich Fördertechnik-Sonderbauten Abteilung Aufzüge und Sicherheitsbauteile Gottlieb-Daimler Str. 7 70794 Filderstadt - Germany
Date and number of the test report:	2014-07-28 ESVH 019-022
Test specification:	EN 81-2:1998+A3:2009 (D)
Result:	The safety component conforms to the essential safety requirements of the Directive for the respective scope of application stated on the annex (one page) to this type-examination certificate.
Date of issue:	2014-07-28

Certification body for lifts and safety components

W. Rau

Werner Rau



**Annex to the EC type-examination certificate
no. ESVH 022 dated 2014-07-28**

1 Scope of application

1.1 Flow, pressure, viscosity, ambient temperature

Range of flow	[l/min]	8 – 35
Range of pressure	[bar]	10 – 50
Range of viscosity	[cSt]	25 – 400
Range of ambient temperature	[° C]	0 – 65

2 Conditions

2.1 The graph "HDU Valves braking distance P=10 – Rev. 03" dated 2014-05-12 with certification stamp of 2014-07-28 as well as the written notes and dimension details have to be observed.

2.2 The above mentioned safety component represents only one part of the protective equipment against movements of the car in downward direction. Only in combination with a detection and triggering component (also two different components are possible), which must be subjected to an own type examination according to the test procedure specified in Annex F.8 of EN 81-2:1998+A3:2009 (D), the system created can fulfil the requirements for a protection means in accordance with section 9.13 of EN 81-2:1998+A3:2009 (D).

2.3 For each lift system the maximum possible braking distance must be determined and documented by the installer.

This can be done with the help of the graph „HDU Valves braking distance P=10 – Rev. 03“ dated 2014-05-12 with certification stamp dated 2014-07-28.

The determined maximum possible braking distance as well the information in accordance with EN 81-2:1998+A3:2009 (D), section 9.13.5 and section 9.13.6 shall be checked after the installation of the lift system.

2.4 To fulfil the overall concept for the lift installation(s) the installer of the lift has to create a guidance for tests, add it to the documentation of the lift and provide any necessary tools or measuring devices which allow a safe test (e. g. closed landing doors by using a test plug which simulates an open door).

2.5 In the instruction manual of the lift it has to be written what is necessary to do if the "protection against unintended car movement" has been activated – in a way that competent persons according to section 9.13.9 of EN 81-2:1998+A3:2009 (D) can recognize it.

3 Remarks

3.1 The type-examination covers the housing of the braking element (hydraulic valve) and the piston only. The pump connection and the cylinder connection is not included within this type-examination.

3.2 In case that there is a risk of unintended car movement in the upward direction, appropriate measures must be taken by the installer.

3.3 The type-examination certificate may only be used in connection with the pertinent annex and the list of the authorized manufacturers (according to enclosure). This enclosure shall be updated and re-edited following information of the certificate holder.

Note: The English text is a translation of the German original. In case of any discrepancy, the German version is valid only.



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**Enclosure of type-examination certificate
no. ESVH 022 dated 2014-07-28**

Authorized manufacturers – production sites (stated: 2014-07-28):

OMARLIFT S.R.L.
Via F.lli. Kennedy 22/D
24060 Bagnatica (BG) – Italy

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Base: letter of Co. OMARLIFT S.R.L. dated 2014-01-15

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