

## Type Approval Certificate Extension

This is to certify that Certificate No. 92/00135(E4) for the undernoted products is extended and renumbered as shown.

This certificate is issued to:

|                             |   |  |
|-----------------------------|---|--|
| <b>PRODUCER</b>             | LK Valves AB<br>Garnisonsgatan 49<br>254 66 Helsingborg<br>Sweden   |  |
| <b>PLACES OF PRODUCTION</b> | LK Valves AB<br>Garnisonsgatan 49<br>254 66 Helsingborg<br>Sweden   | Changzhou LK Valves Co Ltd<br>East Avenue 111, Building 13<br>213025 Changzhou<br>Jiangsu Province<br>Peoples' Republic of China |
| <b>DESCRIPTION</b>          | Spring loaded quick-closing valves of straight or angled construction.<br>Remote control by hydraulic, pneumatic or mechanical operation.<br>Local operation by hand or melting ring. |  |
| <b>TYPE</b>                 | Quick Closing Valves<br>Bellow Sealed Quick Closing Valves  |  |
| <b>APPLICATION</b>          | Marine, offshore and industrial applications  |  |
| <b>SPECIFIED STANDARDS</b>  | Lloyd's Register's Rules and Regulations for the Classification of Ships  |  |

|                        |                   |
|------------------------|-------------------|
| <b>Certificate No.</b> | 92/00135(E5)      |
| <b>Issue Date</b>      | 25 March 2010     |
| <b>Expiry Date</b>     | 29 September 2013 |
| <b>Sheet</b>           | 1 of 2            |



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|                |                              |  |
|----------------|------------------------------|--|
| <b>RATINGS</b> | Nominal Diameter, DN, (mm)   | 15, 20, 25, 32, 40, 50, 65, 80, 100, 125, 150, 200 & 250     |
|                | Nominal Pressure, PN, (bar): |  |
|                | DN 15 to 150                 | 16   |
|                | DN 200 & 250                 | 10   |
|                | Body Material                | Nodular Cast Iron<br>Cast Steel<br>Bronze<br>Stainless Steel |


**OTHER CONDITIONS** For marine applications please refer to the approval conditions listed in Design Appraisal Document no. ENG 58083, Issue 1.

*"This Certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid certificate."*

*The attached Design Appraisal Document No. 92/00135(E5) and its supplementary Type Approval Terms and Conditions form part of this Certificate.*

All other details remain as the previous Certificate No. 92/00135(E4) to which this extension should be attached.

|                        |                   |
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**Lloyd's Register EMEA (London Office)**

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|                                 |
|---------------------------------|
| Page<br>1 of 1                  |
| Document number<br>92/00135(E5) |
| Issue number<br>1               |

**DESIGN APPRAISAL DOCUMENT**

|                       |  |
|-----------------------|--|
| Date<br>25 March 2010 | Quote this reference on all future communications<br>LDSS/TA/W02237900/PFM/WP1556414 |
|-----------------------|--|

**LLOYD'S REGISTER TYPE APPROVAL SYSTEM, 2002.**

**Issued to: LK VALVES AB**

**for: QUICK CLOSING VALVES**

**TYPE APPROVAL CERTIFICATE No. 92/00135(E5)**

The undernoted documents have been reviewed for compliance with the requirements of the Lloyd's Register Type Approval System, 2002 and this Design Appraisal Document forms part of the Certificate.

**APPROVAL DOCUMENTATION**

Request form  
LR Jiangyin visit report, ref. 2237900

25-Nov-2009  
26-Jan-2010

**Supplementary Type Approval Terms and Conditions**

*Type Approval certifies that a representative sample of the product(s) referred to herein has/have been found to meet the applicable design criteria for the use specified herein. It does not mean or imply approval for any other use, nor approval of any product(s) designed or manufactured otherwise than in strict conformity with the said representative sample.*

*Type Approval is based on the understanding that the manufacturer's recommendations and instructions and any relevant requirements of the Rules and Regulations are complied with.*

*Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations.*

*Lloyd's Register EMEA reserves the right to cancel or withdraw this Type Approval Certificate in accordance with the Lloyd's Register Type Approval System Procedure.*

P.F. Moysey  
Type Approval,  
London Design Support Services  
Lloyd's Register EMEA/London Office  
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PFM

**Part 1A**  
**Subject: Valves**  
**Product: Line Systems (Part 1A)**

| Producer/Licence No.  | Description of Product   |   |   |   | Cert. No.    |
|---|--|---|---|---|--------------|
|   | Type   | Details of Approval   | Application   | Remarks   |              |
| LK Valves AB,<br>Garnisonsgatan 49,<br>254 66 Helsingborg,<br>Sweden. | Quick Closing<br>Valves<br><br>Bellow Sealed Quick<br>Closing Valves | Spring loaded quick-closing valves of straight or angled<br>construction. Remote control by hydraulic, pneumatic or<br>mechanical operation.<br>Local operation by hand or melting ring.<br><br>Nominal diameter DN, (mm): 15 to 250<br>Nominal Pressure, PN, (bar): 16<br>DN 15 to 150:<br>DN 200 & 250:<br>Body Material:<br>Nodular Cast Iron<br>Cast Steel<br>Bronze<br>Stainless Steel | Marine, offshore and<br>industrial use in piping<br>systems | Expires: 29 September 2013<br><br>For marine application see Design<br>Appraisal Document ENG 58083,<br>Issue 1, for approval conditions. | 92/00135(E5) |

