



## Environmental Product Declaration

|                        |  |   |                              |
|------------------------|--|---|------------------------------|
| <b>Product</b>         | Type of equipment / Product No.  | SKB32.50  | Hydraulic Actuator, Type SKB |
|                        |  | SKB32.50/F  | Hydraulic Actuator, Type SKB |
|                        |  | SKB32.51  | Hydraulic Actuator, Type SKB |
|                        |  | SKB32.51/F  | Hydraulic Actuator, Type SKB |
|                        |  | SKB82.50  | Hydraulic Actuator, Type SKB |
|                        |  | SKB82.50U   | Hydraulic Actuator, Type SKB |
|                        |  | SKB82.51  | Hydraulic Actuator, Type SKB |
|                        |  | SKB82.51U   | Hydraulic Actuator, Type SKB |
|                        | Product line   | Acvatix - Large Stroke Actuators - Electrohydraulic |                              |
| <b>Process control</b> | Siemens Switzerland Ltd<br>Building Technologies Division<br>Gubelstrasse 22<br>CH-6301 Zug                          |   |                              |
|                        | Management System  | since   | by                           |
|                        | ISO 14001 (Environment)  | 01.09.2002  | SEMKO-DEKRA                  |
|                        | ISO 9001 (Quality)   | 01.09.2002  | SEMKO-DEKRA                  |
| <b>Product use</b>     | Typical energy consumption   | 7 ... 11kWh/a                                       |                              |
|                        | Maintenance  | Not necessary                                       |                              |
| <b>Risk of fire</b>    | Fire protection according to   | EN 60730-1  |                              |
|                        | Fire load  | 60 ... 65MJ   |                              |
| <b>Packaging</b>       | 20-PAP Corrugated fiber board  | Folded Box  | 663 ... 678g                 |
|                        | 22-PAP paper   | Printed Paper                                       | 21 ... 39g                   |
|                        | Notes on disposal  | One-way, recyclable                                 |                              |
| <b>Materials</b>       | Total weight of device   | 8'943 ... 9'481g                                    |                              |
|                        | The total weight of a device may deviate from the total of the weights of all individual components due to rounding. |   |                              |
| Plastics               | ABS  | Cabling Cover                                       | 46 ... 192g                  |
|                        | Flour Rubber FPM   | Sealings  | 2g                           |
|                        | NBR  | Sealings  | 37g                          |
|                        | PA   |   | 169 ... 170g                 |
|                        | PBT  | Cabling entrance                                    | 18 ... 22g                   |
|                        | ABS+PC   | Cover Complete, Manual Adjuster                     | 86 ... 308g                  |
|                        | POM  | Guidance  | 32g                          |
|                        | Metals   | Al  | Parts                        |
| Al alloy               |  | Housing, Console, Cylinder                          | 2'884 ... 3'193g             |
| Cu                     |  | Coils   | 64 ... 83g                   |
| Cu alloy               |  | Parts   | 3 ... 4g                     |
| Steel                  |  | Parts   | 550 ... 585g                 |
| Steel <=5% alloyed     |  | Spring, Parts                                       | 3'687 ... 3'737g             |
| Steel >5% alloyed      |  | Screws, Springs                                     | 185 ... 195g                 |

|        |   |                 |                  |
|--------|---|-----------------|------------------|
|        | Zn / Zn alloy   | Parts           | 11g              |
|        | Sn / Sn alloy   | Parts           | 1g               |
| Others | Mineral oil   | Hydraulic Fluid | 1'012 ... 1'014g |
|        | Housing: PA6, Spring: steel, Insert: brass, Screw: steel Terminal |                 | 14g              |
|        |   | Microswitch     | 4g               |
|        | Wire: copper, Insulation :ETFE                                    | Cable / Wire    | 4 ... 6g         |

**\*Variant parts list**

|                                 | SKB32.50 | SKB32.50/F | SKB32.51 | SKB32.51/F | SKB82.50 | SKB82.50U | SKB82.51 | SKB82.51U |  |  |  |  |
|---------------------------------|----------|------------|----------|------------|----------|-----------|----------|-----------|--|--|--|--|
| Total weight of device [g]      | 9'150    | 8'943      | 9'203    | 8'996      | 9'148    | 9'427     | 9'202    | 9'481     |  |  |  |  |
| Cabling Cover                   | 192      | 157        | 192      | 157        | 192      | 46        | 192      | 46        |  |  |  |  |
|                                 | 168      | 168        | 169      | 169        | 168      | 168       | 169      | 169       |  |  |  |  |
| Cabling entrance                | 18       | 18         | 20       | 20         | 18       | 19        | 20       | 21        |  |  |  |  |
| Cover Complete, Manual Adjuster | 204      | 85         | 204      | 85         | 202      | 307       | 202      | 307       |  |  |  |  |
| Parts                           | 25       | 20         | 25       | 20         | 25       | 25        | 25       | 25        |  |  |  |  |
| Housing, Console, Cylinder      | 2'883    | 2'893      | 2'883    | 2'893      | 2'883    | 3'193     | 2'883    | 3'193     |  |  |  |  |
| Coils                           | 64       | 64         | 82       | 82         | 65       | 65        | 83       | 83        |  |  |  |  |
| Parts                           | 3        | 3          | 3        | 3          | 3        | 3         | 3        | 3         |  |  |  |  |
| Parts                           | 561      | 549        | 578      | 566        | 559      | 567       | 576      | 585       |  |  |  |  |
| Spring, Parts                   | 3'730    | 3'687      | 3'737    | 3'693      | 3'730    | 3'730     | 3'737    | 3'737     |  |  |  |  |
| Screws, Springs                 | 186      | 184        | 195      | 193        | 186      | 186       | 195      | 195       |  |  |  |  |
| Hydraulic Fluid                 | 1'014    | 1'012      | 1'014    | 1'012      | 1'014    | 1'014     | 1'014    | 1'014     |  |  |  |  |
| Cable / Wire                    | 5        | 5          | 3        | 3          | 6        | 6         | 5        | 5         |  |  |  |  |

Typical energy consumption

|         |   |   |    |    |   |   |   |   |  |  |  |  |
|---------|---|---|----|----|---|---|---|---|--|--|--|--|
| [kWh/a] | 8 | 8 | 11 | 11 | 7 | 7 | 8 | 8 |  |  |  |  |
|---------|---|---|----|----|---|---|---|---|--|--|--|--|

Packaging

|                |     |     |     |     |     |     |     |     |  |  |  |  |
|----------------|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|--|
| Folded Box [g] | 663 | 677 | 663 | 677 | 663 | 663 | 663 | 663 |  |  |  |  |
| Printed Paper  | 20  | 20  | 20  | 20  | 20  | 39  | 20  | 39  |  |  |  |  |

**Disposal**

The device should not be disposed of as unsorted municipal waste. The special treatment for specific components may be mandated by law or ecologically sensible. Observe all local and applicable laws.

**Comments**

**EU-directive 2011/65/EU (RoHS)**

The device does not contain substances in concentrations and applications banned under the EU RoHS Directive.

**Regulation (EC) No. 1907/2006 (REACH)**

To the best of our knowledge and according to the information of our suppliers the above mentioned device and its packaging contain no substances of the candidate list according to Article 59 (1, 10) of the regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) in concentrations above 0.1 % w/w.

(Status according to the creation date of this document.)

The device is free from substances which interfere with lacquer wetting.

The device is halogen-free with exception of:

Cables; Insulation tubing

## Environmental benefits

The actuator reduces consumption of energy due to switch off in end position. \*\*

\*\* Not valid for the U.S. Market

**Legal Disclaimer: This declaration is for information purpose only.**

This Environmental Product Declaration does not constitute a guarantee of the composition of a product, neither does it guarantee that the product will retain a particular composition for a particular period.

Siemens Switzerland Ltd therefore does not assume liability for any error or for any consequences which may arise from the use of this information to the maximum extent under the law.

Please contact your local Siemens branch office to get further information on environmental aspects and disposal.

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