

## Environmental declaration Type II

### GENERAL PRODUCT INFORMATION

|                                |           |
|--------------------------------|-----------|
| <b>Name of product series</b>  | Packaging |
| <b>GF2 &amp; GF3, DN25-200</b> | N/A       |

### COMPANY INFORMATION

#### **Company, address and telephone**

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#### **Company description**

Regin is the collected trademark for products and systems within building automation. The company's knowledge is based on many years of wide experience within control, automation and flow control. Regin AB has a certified quality assurance system according to ISO 9001

#### **Ongoing environmental work**

Regin designs products on commission from clients as well as for resale. Regin can control environmental aspects related to product development and when choosing suppliers and components. Regin AB intend to begin working with environmental certification according to ISO 14001. Regin AB intend to gradually start developing MVD Type II (Regin's own environmental declaration) for our products.

### PRODUCT INFORMATION

#### **General**

Recommended field of application is stated in the technical documentation. There is an unambiguous and lasting label (manufacturer, product name, serial number etc.) on the product. *The labelling is linked to the technical documentation which makes the product clearly identifiable.*

#### **Product design**

These two-way and three-way valves consist of the following parts, valve body with connection for the electro-mechanical actuator. The main movable part inside the valve body is the plug that regulates the flow through the valve. The plug is connected to a stem and the seal between the stem and the body consists of O-rings.

| <b>Component modules</b>        | Weight<br>kg | Weight<br>% |
|---------------------------------|--------------|-------------|
| Metal, Grey cast iron, SS 0125  | 4,6-122      | 85-90       |
| Metal, Gun metal, SS 5204       | 0,45-10,8    | 4,3-7,9     |
| Metal, Brass, SS 5170           | 0,47-0,71    | 0,35-1,3    |
| Metal, Stainless Steel, SS 2346 | 0,1-0,4      | 0,3-1,3     |
| Metal, other                    | 0,25-2       | 1,5-1,7     |
| EPDM                            | 0,015-0,05   | <1          |
| Aramide reinforced rubber       | 20-70        | <1          |
| Other                           | 10           | <1          |

## PRODUCT INFORMATION, RESOURCES AND HAZARDOUS SUBSTANCES

| <b>Component modules</b>   | <b>Resources</b><br>(metals, organic, non-organic substances) | <b>Hazardous substances</b><br>(Kd, Hg, Pb, PCB, PVC, PBB, PBBE etc) |
|----------------------------|---|--|
| Valve Body                 | Fe, C, Si, Mn   |  |
| Third port or bottom cover | Fe, C, Si, Mn   |  |
| Actuator mount             | Cu, Pb, Zn  | Pb   |
| Stuffing box               | Cu, Pb, Zn  | Pb   |
| Plug                       | Cu, Pb, Zn, Sn  | Pb   |
| Seat                       | Cu, Pb, Zn, Sn  | Pb   |
| Stem                       | Fe, Cr, Ni  | Cr, Ni   |
| Screws                     | Fe, C, Mn   |  |
| Gaskets                    | Aramide reinforced rubber                                     |  |
| O-rings (EPDM)             | Ethylene propylene diene<br>(M-class rubber)                  |  |

### Notes, the products content

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## PRODUCTION

The operation does not need licensing

## DISTRIBUTION

**Production district** Osby  
**Mode of transportation** Lorry  
**Mode of distribution** The commodity is normally distributed via a warehouse/wholesaler.  
**Wrapping Material** Wood, paper, plastic  
Packaging material can not be returned  
Regin AB is connected to REPA

## BUILDING PHASE

Documented instructions for mounting and commissioning are included with the commodity.

In the instructions there are recommendations concerning

- Safeguard measurement for handling procedures and mounting.
- Handling of the commodity at the workplace and during mounting.

## USAGE PHASE

### Running

The product does not need any surplus energy (electricity) during normal operation.

The product does not have any environmental impact to the surrounding environments during normal operation.

Normally, the product does not need any maintenance.

It is not possible to estimate the products life span in advance.

There is no documentation concerning expected life span at different conditions.

Documented instructions for appropriate operation and maintenance are appended with the product.

### Emergency

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### **DEMOLITION**

The product is prepared for environmentally sound dismantling.

Dismantling of the product:

1. The product is easily disassembled with wrenches in suitable sizes.

### **WASTE MANAGEMENT**

The long life span of the product means that the recycling situation can be different from today when the product shall be recycled.

The product is required, by law, to be handled according to standard waste management procedures.

The materials can easily be separated into a high separation degree.

All the components in the product are recyclable. Either by recycling the material (all the metal) or by recycling the energy (O-rings, packings etc).