



MD 56.100
56.101

SAUTER Declaration on materials and the environment

Product



VUN

BUN

| | |
|------------------------------|--|
| Type | VUN 015...05, PN16 BUN 015...05, PN16 |
| Designation | Globe valve with male thread |
| Product range | SAUTER valve |
| Product group of eco-balance | Control valves and Valve control group |

Manufacturer

Fr. Sauter AG
Im Surinam 55, CH-4058 Basel

Management system certified according to

| | Since | With |
|----------------|---------------------|-------------|
| ISO 9001:2015 | 10 Oct. 2018 | SQS |
| ISO 14001:2015 | 10 Oct. 2018 | SQS |
| ISO 45001:2018 | 10 Oct. 2018 | SQS |

Environmentally-compatible product design

| | |
|---------|--|
| Basis | Management system Fr. Sauter AG |
| Process | Business process <ul style="list-style-type: none"> • Product innovation • Ecological accounting |

| | | |
|----------------------------|--|---|
| Product description | CE conformity, function, operation, maintenance, servicing | See: PDS 56.100 / 56.101 |
| Environmental risk | Fire protection according to Fire load | EN 60695-2-11, EN 60695-10-2 Max. 0,4 MJ |
| | Hazardous substances ¹ according to | REACH 1907/2006/ EC compliant. |
| | Liquids polluting the aquatic environment | None |

Materials

| | Total weight of product ² | 836...3595 g | Material Safety Data Sheet (MSDS) | EU waste code ³ |
|---|---|---------------------|--------------------------------------|----------------------------|
| Plastic | | | | |
| EPDM (O-ring) | | 4...13 g | Not required | 20 01 39 |
| Metal | | | | |
| Brass housing | | 768...3240 g | Not required | 20 01 40 |
| CrNi Steel (spindle) | | 50...190 g | Not required | 20 01 40 |
| Steel (safety ring) | | 2...10 g | Not required | 20 01 40 |
| Various components | | | | |
| Lubricant Berutox T2 500 | | 1...3 g | yes | 20 01 26 |
| Lubricant Berutox VPT 64 | | 1...3 g | yes | 20 01 26 |
| Packaging ⁴ | | | | |
| Paper PAP22 (instruction manual) | | 6 g | Not required | 20 01 01 |
| PE (protective cap + plug, for transport only) | | 4...130 g | Not required | 15 01 02 |

¹ SVHC substances >0.1%w/w: see **Hazardous ingredients**

² see remarks last page

³ Directive 75/442/EEC and follow-on documents, ruling 2001/118/EC

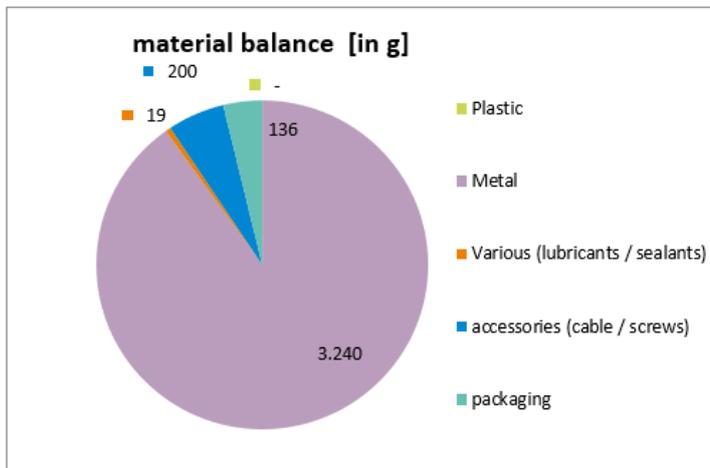
⁴ Directive 94/62/EC, 2004/12/EC, 2005/20/EC, 2018/852/EC

Hazardous ingredients

| SVHC ingredient | | Name of the ingredient | Effective concentration per article, %w/w |
|-----------------|-----------|------------------------|---|
| CAS number | EN number | | |
| 7439-92-1 | 231-100-4 | Lead | 2,5 |

[Link to the candidate list of ECHA](#)

Materials balance

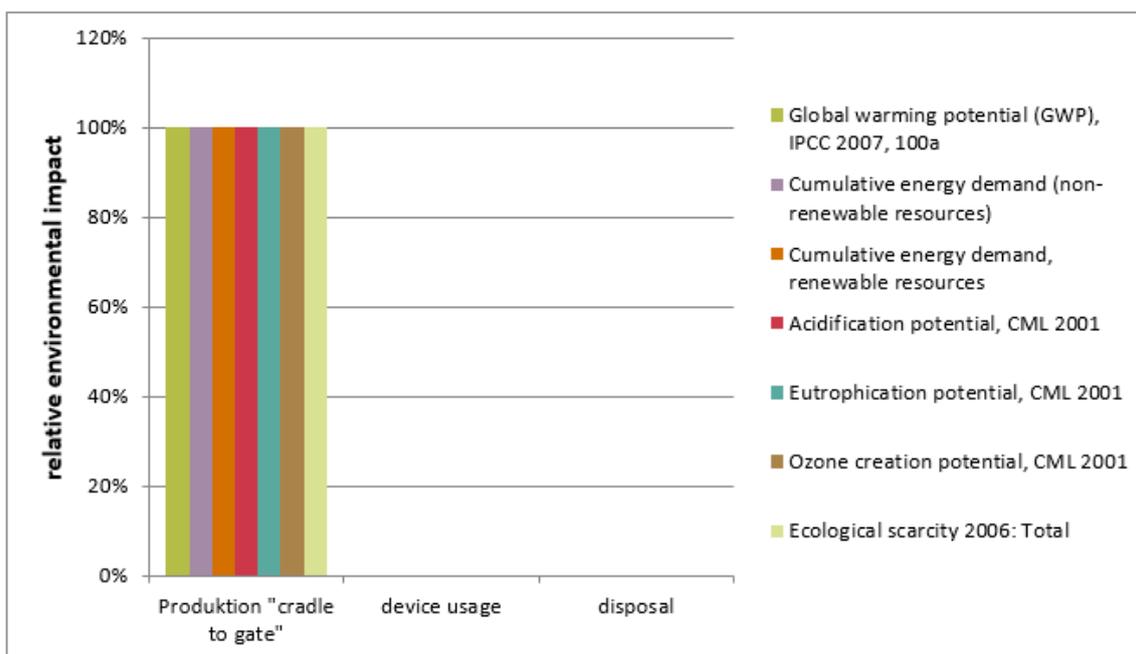


| Material balance | g |
|---------------------------------|--------------|
| Plastic | - |
| Metal | 3.240 |
| Various (lubricants / sealants) | 19 |
| accessories (cable / screws) | 200 |
| packaging | 136 |
| | 3.595 |

Calculation of the environmental impact

Evaluation over the entire life stage of 8 years in a typical utilisation scenario. The results shown are based on a method of ecological scarcity that combines various environmental effects into an “environmental impact points” key figure. The method is based on Switzerland’s environmental targets and evaluates the individual effects depending on the “Distance to Target”.

| Indikator | unit | Produktion "cradle to gate" | device usage | disposal |
|--|--------------|-----------------------------|--------------|----------|
| Global warming potential (GWP), IPCC 2007, 100a | kg CO2 eq. | 13,0 | - | - |
| Cumulative energy demand (non-renewable resources) | MJ eq. | 250 | - | - |
| Cumulative energy demand, renewable resources | MJ eq. | 37 | - | - |
| Acidification potential, CML 2001 | kg SO2 eq. | 4,62E-01 | - | 0,00E+00 |
| Eutrophication potential, CML 2001 | kg PO4-- eq. | 4,96E-01 | - | 0,00E+00 |
| Ozone creation potential, CML 2001 | kg C2H4 eq. | 1,75E-02 | - | 0,00E+00 |
| Ergänzend ausgewiesene Indikatoren | | | | |
| Human toxicity, cancer effects, ILCD 2011 | CTUh | 1,01E-05 | - | 0,00E+00 |
| Particulate matter, ILCD 2011 | kg PM2.5 eq. | 3,84E-02 | - | 0,00E+00 |
| Ecological scarcity 2006: Total | UBP | 183.800 | - | - |



The relationship of the contributions made by the utilisation in comparison to those made by the reduction and disposal depends on the intensity of the utilisation (utilisation scenario).



Disposal

Product:

The device must not be disposed of as household waste.

Special treatment for special components may be mandatory by law or environmentally appropriate.

Packaging:

Can be recycled without any problems. Packaging disposal fees, if applicable, are to be paid by the importer.

Remarks, weight depending on type ²:

| | |
|-------------------------|-------|
| VUN/BUN 015 F300...F350 | 820g |
| VUN/BUN 020 F300 | 1000g |
| VUN/BUN 025 F300 | 1300g |
| VUN/BUN 032 F300 | 1740g |
| VUN/BUN 040 F300 | 2520g |
| VUN/BUN 050 Fx00 | 3440g |

Note

Silicone-free. Replace spare parts only in a depressurized state, refer to assembly instructions.

Environment benefits

The valves are extremely durable and maintenance-free due to their robust design. Optimized use due to the recyclable raw material

Extent of applicability

This declaration is an environmental declaration based on ISO 14025 and describes the environmental impact of the product over its entire life stage. The declaration is made in a compact form without an external check or registration.

The data gathered with existing data inventories for production processes has been evaluated from the ecoinvent 2.2 European database.

For the determination of the energy requirement during the utilisation phase of the product, standard HVAC applications and average climatic conditions in Switzerland were assumed, based on the ecological accounting for the corresponding product group.



Disclaimer: This declaration is for information purposes only.

Deviations from the information it contains can occur without notification. Fr. Sauter AG explicitly rules out any liability for any consequences that may result due to the above information.



Your local SAUTER representative will provide further information on environmental aspects, and specifically on disposal.

References

Ecoinvent 2010 ecoinvent data v2.2, Swiss Centre for Life Cycle Inventories, Dübendorf

FOEN 2008 eco-balances: method of ecological scarcity – eco-factors 2006, FOEN