SAUTER Declaration on materials and the environment

Product

Designation Product range Product group of eco-balance Product group of eco-balance Product description CE conformity Function, operation, maintenance, service Fire protection according to EN 60695-2-11, EN 60695-10-2 Fire load 1 Hazardous substances 2 Banned substances (see link below) Parts containing halogen (causing corrosive smoke) Liquids polluting the aquatic environment Explosive substances Packaging 3 Cardboard box Paper CElectric drives, control walves, butterfly valves Electric drives, control valves, butterfly alleves. Electric drives, control valves, butterfly valves Valves, dampers, ball valves Valves, dampe		Туре	BKTI015F300 BKTI020F300 BKTI025F300 BKTI032F300 BKTI040F300 BKTI050F300
Manufacturer Fr. Sauter AG Im Surinam 55, CH-4016 Basel Product description CE conformity Function, operation, maintenance, service Prive protection according to EN 60695-2-11, EN 60695-10-2 Fire load 1 0.10.7 MJ Hazardous substances 2 Conforming to RoHS 2011/65/EU Banned substances (see link below) Conforming to REACH 1907/2006/EC Parts containing halogen (causing corrosive smoke) Liquids polluting the aquatic environment Explosive substances None Packaging 3 Cardboard box 36117 g		Designation	
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Product description CE conformity Function, operation, maintenance, service PDS 56.095 Environmental risk Fire protection according to EN 60695-2-11, EN 60695-10-2 Fire load 1 0.10.7 MJ Hazardous substances 2 Conforming to RoHS 2011/65/EU Banned substances (see link below) Conforming to REACH 1907/2006/EC Parts containing halogen (causing corrosive smoke) Liquids polluting the aquatic environment Explosive substances None Packaging 3 Cardboard box Sensons EN 60695-2-11, EN 60695-10-2 Conforming to RoHS 2011/65/EU None None Sensons Roackaging 3 Cardboard box Sensons Anne Sensons Anne Sensons Sens	Manufacturer	Fr. Sauter AG	
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environment Explosive substances None Packaging 3 Cardboard box 36117 g			None
Packaging ³ Cardboard box 36117 g			None
		Explosive substances	None
Paper 5 g	Packaging ³	Cardboard box	36117 g
		Paper	5 g

¹ See **Remarks** on last page
² Only applies to electrical devices
³ Directive 94/62/EC and follow-on document, ruling 97/129/EC

Materials

	Total weight of product ⁴		Material Safety Data Sheet (MSDS)	EU waste code ⁵
Plastic				
EPDM	(o-rings)	13 g	Yes	20 01 39
PTFE	(glide ring, collar)	235 g	Yes	20 01 39
Metal				
	cation resistant brass CW602N indle, ball)	3072260 g	Not required	20 01 40
Printed of	circuit board			
None				
Various				
None				

Special components

None



Note

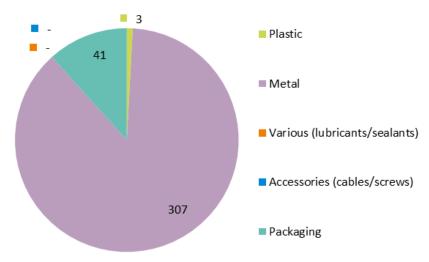
The following materials balance and the calculation of the environmental impact relate to types BKTI015F300 and BKTI050F300.

⁴ See **Remarks** on last page

⁵ Directive 75/442/EEC and follow-on document, ruling 2001/118/EC

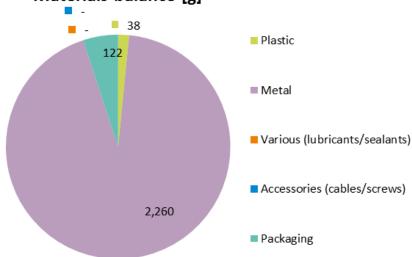
Materials balance

Materials balance [g]



BKTI015F300

Materials balance [g]



BKTI050F300

Calculation of the environmental impact

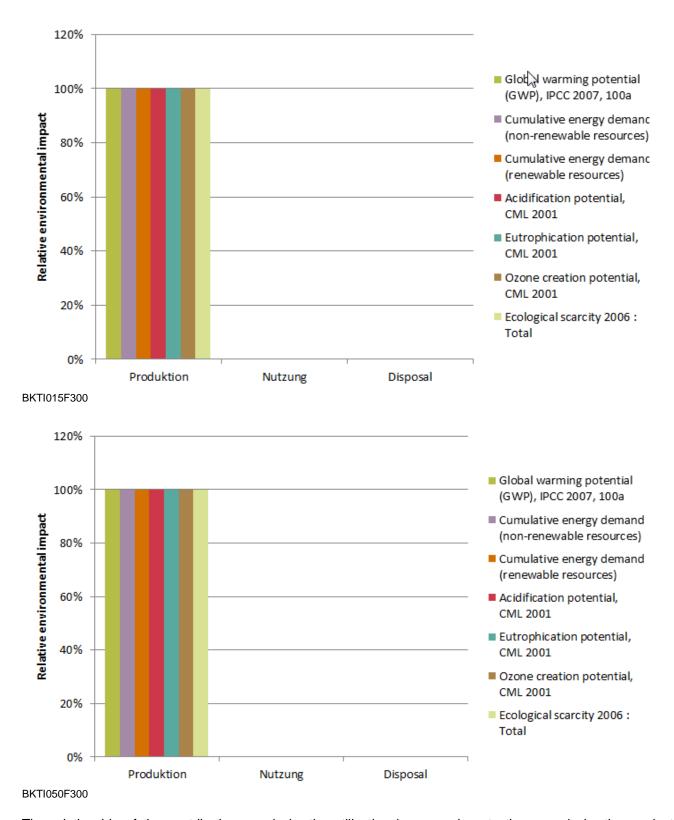
Evaluation over the entire life stage of 8 years in a typical utilisation scenario. The results additionally shown are based on a method of ecological scarcity that combines various environmental effects into an "environmental impact points" key figure. The method is based on Switzerland's environmental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

Standard Indicators	Unit	Production "cradle to gate"	Utilisation	Disposal
Global warming potential (GWP), IPCC 2007, 100a	kg CO2 eg.	1.9		0.00
Cumulative energy demand	kg CO2 eq.	1.9		0.00
(non-renewable resources)	MJ eq.	20	-	0.0
Cumulative energy demand (renewable resources)	MJ eq.	4	-	0.00
Acidification potential, CML 2001	kg SO2 eq.	4.20E-02	-	1.07E-05
Eutrophication potential, CML 2001	kg PO4 eq.	4.52E-02	-	4.01E-06
Ozone creation potential, CML 2001	kg C2H4 eq.	1.64E-03	-	4.29E-07
Complementary indicators				
Human toxicity, cancer effects, ILCD 2011	CTUh	8.47E-07	-	1.80E-10
Particulate matter, ILCD 2011	kg PM2.5 eq	3.45E-03	-	1.32E-06
Ecological scarcity 2006 : Total	UBP	17'100	-	20

BKTI015F300

Standard Indicators	Unit	Production "cradle to gate"	Utilisation	Disposal
Standard maleuters	O III			
Global warming potential				
(GWP), IPCC 2007, 100a	kg CO2 eq.	20.6	-	0.02
Cumulative energy demand				
(non-renewable resources)	MJ eq.	170	_	0.1
	mo oq.			0.1
Cumulative energy demand				
(renewable resources)	MJ eq.	27	-	0.00
Acidification potential,				
CML 2001	kg SO2 eg.	2.84E-01		7.45E-05
SIII 2001	kg 302 eq.	2.04E-01		7.45E-05
Eutrophication potential,				
CML 2001	kg PO4 eq.	3.02E-01	-	2.45E-05
O				
Ozone creation potential, CML 2001	l= 00114 ==	4.445.00		0.005.00
CWL 2001	kg C2H4 eq.	1.11E-02		2.98E-06
Complementary indicators				
Human toxicity, cancer effects, ILCD 2011	OT: !!	5745.00		404500
Human toxicity, cancer effects, IECD 2011	CTUh	5.71E-06	-	1.21E-09
Particulate matter, ILCD 2011	kg PM2.5 eq	2.31E-02	-	9.19E-06
Ecological scarcity 2006 :				
Total	UBP	117'900	_	140
Total	UBP	117 900		140

BKTI050F300



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



Product:

The device must be disposed of as waste from electrical and electronic equipment (electrical/electronic scrap) and must not be disposed of as household waste. This applies in particular to the PCB assembly.

It is possible that special treatment for special components is compulsory by law or makes ecological sense.

Packaging:

Recyclable

The local and currently valid laws (WEEE2012/19/EU) must be observed.

Special information:

- Observe operating temperature
- Remove pressure before changing any spare parts
- Observe fitting instructions on drawing

Remarks

(1) Depending on the fire load for the type:

ΑII 0.1...0.7 MJ

(2) Depending on the weight of the type:

BKLI015F300	310 g
BKLI020F300	375 g
BKLI025F300	604 g
BKLI032F300	949 g
BKLI040F300	1364 g
BKLI050F300	2298 g

How the environment benefits

With these products we make a significant contribution to energy savings in buildings and to reducing global warming.

In the Green Building area, our products ensure that customer requirements are fulfilled optimally and that there is cost efficiency over the entire building life-cycle.

- These heavy-duty valves have an extremely long serviceable life and require no maintenance.
- Energy savings on heating and cooling due to good regulability of the flow.
- Optimum use of raw materials.

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 have been evaluated with existing data inventories for production processes 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.

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- Disclaimer: This declaration is only for information purposes.

Deviations from the information it contains can occur without being reported. 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 Center for Life Cycle Inventories, Dübendorf FOEN 2008 eco-balances: method of ecological scarcity – eco-factors 2006, FOEN