



MD 58.001

SAUTER Declaration on materials and the environment

Product



Type	B2KL015F400 B2KL015F401 B2KL020F411
Designation	6-way ball 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 58.001
Environmental risk	Fire protection according to Fire load	EN 60695-2-11, EN 60695-10-2 Max. 0,6 MJ
	Hazardous substances ¹ according to	REACH 1907/2006/ EC compliant.
	Liquids polluting the aquatic environment	None

Materials

	Total weight of product ²	1075...1960 g	Material Safety Data Sheet (MSDS)	EU waste code ³
Plastic				
EPDM (O-ring)		1,77 g	Not required	20 01 39
PPS Polyphenylensulfid (Zubehör Kvs)		8,5 g	Not required	20 01 39
various plastics, TPE		6,0 g	Not required	20 01 39
Metal				
brass housing CW602N		1001,14...1886,2 g	Not required	20 01 40
Packaging ⁴				
paper PAP22 (instruction manual)		2 g	Not required	20 01 01
Packaging PAP20		56 g	Not required	20 01 01

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

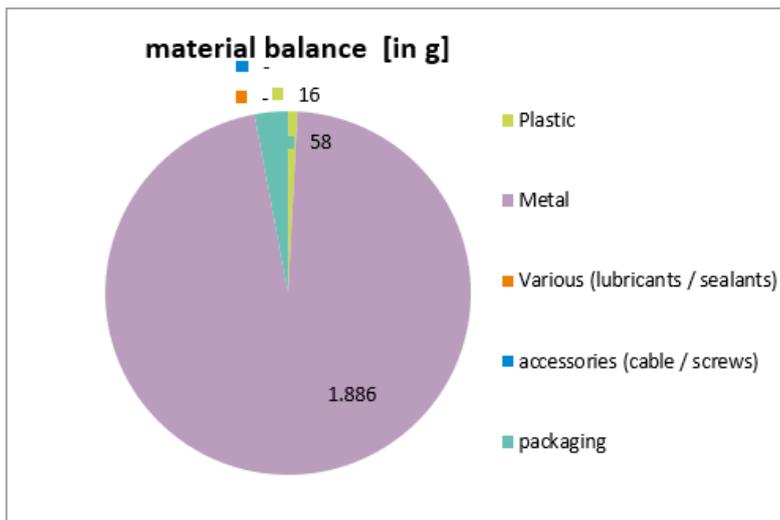
⁴ Directive 94/62/EC, 2004/12/EC, 2005/20/EC, 2018/852/EC

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	2,2

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

Materials balance

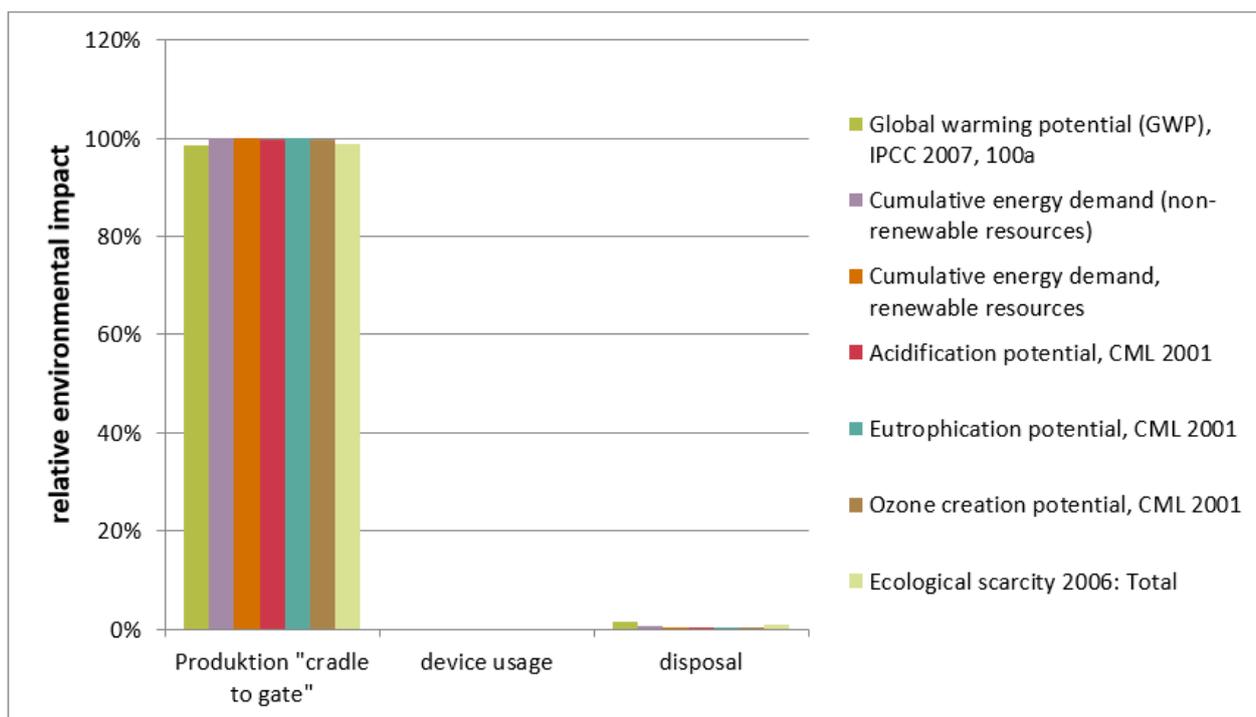


Material balance	g
Plastic	16
Metal	1.886
Various (lubricants / sealants)	-
accessories (cable / screws)	-
packaging	58
	1.960

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.	7,0	-	0,10
Cumulative energy demand (non-renewable resources)	MJ eq.	140	-	1,1
Cumulative energy demand, renewable resources	MJ eq.	22	-	0,01
Acidification potential, CML 2001	kg SO2 eq.	2,53E-01	-	5,95E-04
Eutrophication potential, CML 2001	kg PO4-- eq.	2,73E-01	-	1,77E-04
Ozone creation potential, CML 2001	kg C2H4 eq.	9,86E-03	-	2,40E-05
Ergänzend ausgewiesene Indikatoren				
Human toxicity, cancer effects, ILCD 2011	CTUh	5,12E-06	-	7,60E-09
Particulate matter, ILCD 2011	kg PM2.5 eq	2,06E-02	-	7,40E-05
Ecological scarcity 2006: Total	UBP	102.400	-	1.120



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:

B2KL015F400 – 1075 g

B2KL015F401 – 1075 g

B2KL020F411 – 1960 g

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