

SAUTER Declaration on materials and the environment

Product



Туре

	VKRA020F300 / F310 / F320 VKRA025F300 / F310 / F320
	VKRA032F300 / F310 / F320
	VKRA040F300 / F310 / F320
	VKRA050F300 / F310 / F320
Designation	2-way regulating ball valve with male thread, PN 40
Product range	Electric drives, control valves, butterfly valves
Product group of eco-balance	Valves, dampers, ball valves

F350

VKRA015F310 / F320 / F330 / F340 /

1/7

Manufacturer	Fr. Sauter AG Im Surinam 55, CH-4016 Basel	
Product description	CE conformity	
	Function, operation, maintenance, service	PDS 56.092
Environmental risk	Fire protection according to	EN 60695-2-11, EN 60695-10-2
	Fire load ¹	0.10.5 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)	None
	Liquids polluting the aquatic environment	None
	Explosive substances	None
Packaging ³	Cardboard box	36117 g
	Paper	5 g

Materials

	Total weight	259 2025 a	Matarial Safaty Data	EU waste code ⁵
	Total weight of product ⁴	5562025 Y	Material Safety Data Sheet (MSDS)	EU WASIE COUE
Plastic				
EPDM	(o-rings)	13 g	Yes	20 01 39
PTFE	(glide ring, collar)	231 g	Yes	20 01 39
Metal				
Dezincification resistant brass CW602N		355…1991 g	Not required	20 01 40
(body, sp	indle, ball)			
Printed c	ircuit board			
None				
Various				
None				
Special c	omponents			

None



Note

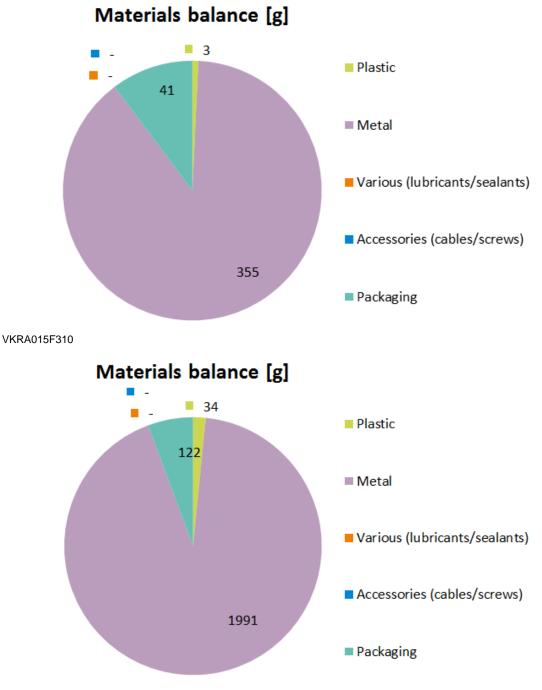
The following materials balance and the calculation of the environmental impact relate to types VKRA015F310 and VKRA050F320.

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

⁴ See **Remarks** on last page

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



VKRA050F320

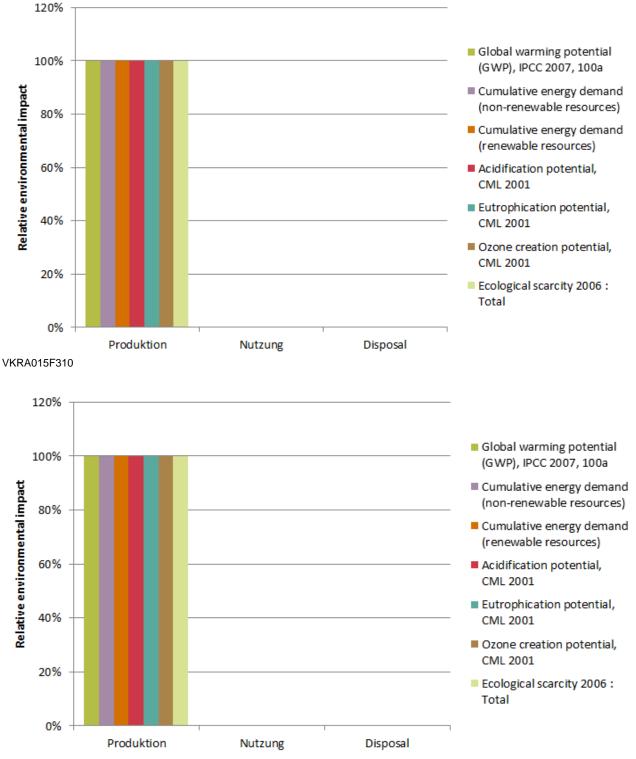
Evaluation over the entire life stage of 8 years in a typical utilisation scenario. The results additionally shown are based on a method of ecological scarcity that combines various environmental effects into an "environmental impact points" key figure. The method is based on Switzerland's environmental 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	ka 000 aa	2.1		0.00
(GWF), IFCC 2007, 100a	kg CO2 eq.	2.1	-	0.00
Cumulative energy demand (non-renewable resources)	MJ eq.	30	-	0.0
Cumulative energy demand (renewable resources)	MJ eq.	5	_	0.00
Acidification potential, CML 2001	kg SO2 eq.	4.85E-02	-	1.22E-05
Eutrophication potential, CML 2001	kg PO4 eq.	5.22E-02	-	4.39E-06
Ozone creation potential, CML 2001	kg C2H4 eq.	1.89E-03	-	4.88E-07
Complementary indicators				
Human toxicity, cancer effects, ILCD 2011	CTUh	9.78E-07	-	1.93E-10
Particulate matter, ILCD 2011	kg PM2.5 eq	3.98E-03	-	1.50E-06
Ecological scarcity 2006 : Total	UBP	19'700	-	20

VKRA015F310

Standard Indicators	Unit	Production "cradle to gate"	Utilisation	Disposal
Global warming potential				
(GWP), IPCC 2007, 100a	kg CO2 eq.	18.2	-	0.02
Cumulative energy demand				
(non-renewable resources)	MJ eq.	150	-	0.1
Cumulative energy demand				
(renewable resources)	MJ eq.	24	-	0.00
Acidification potential,				
CML 2001	kg SO2 eq.	2.50E-01	-	6.61E-05
Eutrophication potential,				
CML 2001	kg PO4 eq.	2.66E-01	-	2.21E-05
Ozone creation potential,				
CML 2001	kg C2H4 eq.	9.79E-03	-	2.64E-06
Complementary indicators				
Human toxicity, cancer effects, ILCD 2011	CTUh	5.03E-06	-	1.09E-09
Particulate matter, ILCD 2011	kg PM2.5 eq	2.04E-02	-	8.14E-06
Ecological scarcity 2006 :				
Total	UBP	103'900	-	120

VKRA050F320



VKRA050F320

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 c	drawing		
Remarks	⁽¹⁾ Depending on the fire load for the	nding on the fire load for the type:		
	All	0.10.7 MJ		
	⁽²⁾ Depending on the weight of the typ	De:		
	VKRA015F310 / F320 / F330 / F340 / F350	358 g		
	VKRA020F300 / F310 / F320	440 g		
	VKRA025F300 / F310 / F320	570 g		
	VKRA032F300 / F310 / F320	840 g		
	VKRA040F300 / F310 / F320	1290 g		
	VKRA050F300 / F310 / F320	2025 g		
How the environment benefits	 With these products we make a signific buildings and to reducing global warmin. In the Green Building area, our product are fulfilled optimally and that there is c life-cycle. These heavy-duty valves have and require no maintenance. 	ng. s ensure that customer requirements		
	 Energy savings on heating and cooling due to good regulability the flow. 			
	Optimum use of raw materials.			
Extent of applicability	This declaration is an environmental declaration based on ISO 1402 describes the environmental impact of the product over its entire life The declaration is made in a compact form without an external checl registration.			
	The data gathered have been evaluated with existing data inventories production processes from the ecoinvent 2.2 European database.			
	For the determination of the energy req of the product, standard HVAC applicat in Switzerland were assumed, based or corresponding product group.	ions and average climatic conditions		



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