

Environmental Declaration -Type II Self-declared Environmental Claims

General information

Declaration type Owner of this declaration	Environmental labels and declarations - Self-declared environmental claims - Type II environmental labelling - compliant with ISO 14021:2016 This document encompasses a range of products with similar material compositions and specifically highlights the product with the greatest weight within that range. BELIMO Automation AG Brunnenbachstrasse 1 8340 Hinwil Switzerland
Description of the organisation	BELIMO Automation AG is a leading global developer, manufacturer, and distributor of actuator solutions, which are crucial in the precise control of heating, ventilation, and air conditioning systems. Our consistent commitment to innovation, reliability, and energy efficiency directly influences system performance and efficiency.
	Our global headquarters is in Hinwil, Switzerland, and we have a presence in more than 80 countries worldwide. Our focus on providing localised customer support and service underlines our role as a reliable international partner. Our dedication to sustainability and environmental protection is evident in our corporate strategies, daily operations, and especially in our approach to product development.
Product-related or management system- related certifications	Quality management ISO 9001 Environmental management ISO 14001
Belimo and the UN Sustainable Developme	nt Goals (UN SDGs)
	At Belimo, our product portfolio, business processes, and values are naturally aligned with UN Sustainable Development Goals, focusing on the environment, health and well-being, and society.
	Trust, integrity, competence, and responsibility – values that lie at the foundation of environmental, economic, and social sustainability – define our corporate culture. As an employer, we support personal commitment, teamwork, cultural diversity, and the courage to take risks to inspire customers. Our product portfolio is designed and optimised to maximise energy efficiency and longevity. One hundred per cent of our sales are linked to the UN Sustainable Development Goals.
	Our overall sustainability mission is to promote global sustainability by creating healthier

Health and well-beingBelimo products offer improved indoor air quality, promoting the health, comfort, and well-
being of building occupants and enabling critical applications. Our intelligent HVAC
components control the major factors affecting room climate and assure a stable and healthy
environment (SDG 3).

Environment Our products save energy and reduce CO2 emissions. Moreover, they drive the energy efficiency of buildings (SDG 7) and contribute to their resilience (SDG 9), while making our cities safer and more sustainable (SDG 11). Through our activities, we contribute to the doubling of the global rate of improvement in energy efficiency, creating measurable sustainability benefits and strengthening resilience and adaptive capacity to climate-related disasters (SDG 13).



Belimo and the UN Sustainable Development Goals (UN SDGs)

Society As an employer, we continuously create excellent jobs that emphasise personal commitment, engagement, growth, teamwork, and cultural diversity (SDG 8). We uphold sustainable procurement practices and localised sourcing, minimising waste and optimising logistics through modularising our product ranges and applying environmental management standards at our central production sites (SDG 12).

Covered product	S				
Product group:	Globe valve actuator big c	onsole with Fail-	Safe	Representative product:	AVK24A-MOD
This document is b declaration.	ased on the representative p	roduct with the ł	nighest product group	. The list that follows includes a	ll products covered by th
Product family:	AVK				
AVK24A-3-TPC AVK230A-3	AVK24A-MOD AVK2	24A-MP-TPC	AVK24A-SR-TPC	AVK24A-SR-TPC HRZ	AVK24A-SZ-TPC
Product informat	tion				
	Chemical disclosure	RoHS	EU Directive 20'	11/65/EU (RoHS)	
		specific hazarc REACH This product co	lous materials in elect 1907/2006 (EC F omplies with the provi	irective 2011/65/EU (RoHS), wh rical and electronic equipment. Regulation REACH) sions of EC Regulation No 1907 horisation, and Restriction of C	'/2006, also known as
Recycling and en	d-of-life information				
	Recycling quota	77.75 %			
5 5 1		The recycling quota (metal material proportion) is calculated using the following formula:			
		Recycling quot	a = 100 x Metal weigh	t / Total weight	
	Recycling rate				
		For calculating formula is use		etal and plastic material propor	tion), the following
		Recycling rate	= 100 x (Metal weight	+ Plastic material weight) / Tota	al weight
	Disposal	Product			
		and should no		mily should be properly dispose regular domestic waste. oly.	ed of after their life cycle
		Packaging			
		Belimo's packa Packagings are		m their work according to RESY	' guidelines.
Environmental b	enefit				
			for fully to customer d uilding life cycle.	emands in an optimized way, a	nd towards cost efficien
			ts and processes are o ation with suppliers an	continuously optimized and enh d partners.	nanced. This is achieved
Logistics					
	Transport		ategic presence of our inimize transport rout	Customizing Centres globally, l es.	Belimo has effectively



Logistics

Environmental Declaration – Globe valve actuator big console with Fail-Safe

	Component	Material	Weight	
Packaging values	Single packaging box AV-RV	56409-00001	593 g	
	Single packaging inlet AV-RV	56410-00001	105 g	
	Single packaging inlet bag SV RV	L-56410-00002	50 g	
	Insert transport protection GVA SVL-RV	56514-00001	72 g	

Product components & fire load

Material	Weight	% Weight	Fire load
Plastic ABS	1.5 g	<0.5%	0.05 MJ
PA	17.54 g	<0.5%	0.49 MJ
PC	360.7 g	10%	10.46 MJ
PET	0.05 g	<0.5%	
РОМ	68.56 g	2%	1.17 MJ
Silicone	0.3 g	<0.5%	0.01 MJ
Other plastic mat	erials 95.14 g	3%	2.85 MJ
ectronics Electronics	297.33 g	8%	5.95 MJ
Metal Aluminium	1364.1 g	36%	
Brass	4.1 g	<0.5%	
Steel	1572.03 g	42%	
Others Cardboard	0.42 g	<0.5%	
Total	3781.78 g		20.98 M

* without packaging materials

Fire load calculation according to the formula:

Fire load [MJ] = weight [kg] x energy value [MJ/kg]

Basic embodied carbon calculation			
Calculation methodology	The embodied carbon calculation herein follows the 'Basic' methodology outlined in TM65 by the Chartered Institution of Building Services Engineers (CIBSE). This approach relies on data pertaining to the product's material composition to compute embodied carbon for both the A1 (Material Extraction) stage and the B3 (Repair) stage. To account for additional life cycle stages such as A2 (Transport to Factory), A3 (Manufacturing), A4 (Transport to Site), C2 (Transport to Waste Processing), C3 (Waste Processing), and C4 (Disposal), scale-up and buffer factors are employed.		
Product life service	15 years		
Product complexity	Category 2 (CIBSE TM65 Table 4.3)		
Embodied carbon results [kgCO ₂ e]	A1: Material extraction (components that are replaced in B3)	1.48 kgCO₂e	
	A1: Material extraction (original product)	14.84 kgCO₂e	
	A1–A4, B3, C2–C4: Total embodied carbon with scale-up and buffer factors	29.71 kgCO ₂ e	



Basic embodied carbon calculation				
Assumption	 A1: Material carbon coefficient source B3: Materials replaced as part of repair (%) 	CIBSE TM65, Table 2.1 CIBSE TM65, Table 2.1		
Disclaimer				
	This environmental self-declaration, classified as Type II, was prepared by Belimo Automation			

AG in alignment with ISO 14021 standards. This document is provided solely for informational purposes. As Belimo products continue to advance technically, we reserve the right to introduce technical modifications without prior notice or announcement.

The information in the product confirmation is based on Belimo's best knowledge at the time of release of this document. This declaration is provided on an "as is" basis without express or implied warranties or commitments of any kind.