

Environmental Declaration -Type II Self-declared Environmental Claims

General information

Declaration type	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.			
Owner of this declaration	BELIMO Automation AG Brunnenbachstrasse 1 8340 Hinwil Switzerland			
Description of the organisation	BELIMO Automation AG is a leading global developer, manufacturer, and distributor of field devices, 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			
mo and the UN Sustainable Development Goals (SDGs)				

Belimo and the UN Sustainable Development Goals (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. We have designed and optimised our product portfolio to maximise energy efficiency and longevity. One hundred percent of our sales align with the UN Sustainable Development Goals.

Our overall sustainability mission is to promote global sustainability by creating healthier indoor environments that consume less energy.

Health and well-being Belimo products offer improved indoor air quality, promoting the health, comfort, and wellbeing 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 increase 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 doubling 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 (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 products				
Product group:	Ball valve flange cast	iron Repre	sentative product:	R6150W320-S8
This document is base covered by this declar		roduct with the greatest weight	in the product group. The l	ist that follows includes all products
Product family:	R6W			
R6065W63-S8	R6080W100-S8	R6100W160-S8	R6125W250-S8	R6150W320-S8
Product information	n			
	Chemical disclosure	RoHSEU Directive 2011/65/EU (RoHS)This product complies with the EU Directive 2011/65/EU (RoHS), which restricts the use of specific hazardous materials in electrical and electronic equipment.REACH1907/2006 (EC Regulation REACH)This product complies with the provisions of EC Regulation No 1907/2006, also known as REACH (Registration, Authorisation, and Restriction of Chemicals).		
Recycling and end-	of-life information			
	Recycling quota	95.82 % The recycling quota (metal material proportion) is calculated using the following formula: Recycling quota = 100 x Metal weight / Total weight		
	Recycling rate	97.59 % For calculating the recycling rate (metal and plastic material proportion), the following formula is used: Recycling rate = 100 x (Metal weight + Plastic material weight) / Total weight		
	Disposal	Product Devices belonging to this prod and should not be disposed o Local and applicable regulatio Packaging Belimo's packaging providers Packaging is recyclable.	with regular domestic was ns apply.	
Environmental ben	efit			
		Belimo offers tailored and opt improve cost efficiency over th Belimo products and processe close collaboration with suppl	ne entire building life cycle. es are continuously optimise	to all customer demands, and ed and enhanced. This is achieved by
Logistics				
	Transport	Due to the strategic presence managed to minimise transpo		es globally, Belimo has effectively



Logistics

	Component	Material	Weight				
Packaging values	>>> Packaging NV 500x390x300	56124	949 g	949 g			
Product materials and fire load							
	Material	Weight	% Weight	Fire load			
Plastic	EPDM	20.98 g	<0.5%	0.76 MJ			
	PE	3.5 g	<0.5%	0.15 MJ			
	PET	0.15 g	<0.5%				
	Other plastic materials	670.36 g	2%	20.11 MJ			
Metal	Cast iron	33998.62 g	86%				
	Steel	3686.83 g	9%				
Others	Cardboard	949 g	2%				
Total		39363.26 g		21.02 MJ			

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) Scale-up and buffer factors are employed 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).				
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)	4.23 kgCO ₂ e			
	A1: Material extraction (original product)	42.3 kgCO₂e			
	A1–A4, B3, C2–C4: Total embodied carbon with scale-up and buffer factors	78.63 kgCO₂e			
Assumptions		55, Table 2.1 55, Table 2.1			



Disclaimer

This environmental 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.