



## Environmental Product Declaration

<b>Product</b>	Type of equipment / Product No.	MXG461S15-1.5 MXG461S20-5.0 MXG461S25-8.0 MXG461S32-12		
	Designation	Modulating control valves with magnetic actuator PN 16 in Stainless Steel		
	Product line	Valves and actuators		
<b>Process control</b>	Siemens Schweiz AG Building Technologies Division Gubelstrasse 22 6301 Zug - CH			
	Management System	since	by	
	ISO 9001 (Quality)	22.07.1986	SQS	
	ISO 14001 (Environment)	20.10.1998	SQS	
<b>Environmentally compatible product design</b>	Product responsibility of Siemens covers the entire product life cycle. Siemens already assesses, avoids and minimizes the environmental impact of its products with respect to production, procurement, sales, use, services and disposal during the product and process planning phases by complying with Siemens EP Standard No. 1 (former SN 36350) "Specifications on Environmentally Compatible Product and System Design".			
<b>Product use</b>	Typical energy consumption	44kWh/a		
	Maintenance	Not necessary		
<b>Risk of fire</b>	Fire protection according to	EN 60730		
	Fire load	12MJ		
<b>Packaging</b>	20-PAP Corrugated fiber board	Carton Box	variant	
	6-PS	Half-shell	57g	
	22-PAP paper	Paper printed	2g	
	Notes on disposal	One-way, recyclable		
<b>Materials</b>	Total weight of device	variant *) see below		
	The total weight of a device may deviate from the total of the weights of all individual components due to rounding.			
Plastics	PC; halogenated	cover, base, hand wheel, insert	177g	
	PBT; halogenated	coil- cover (overmoulding)	142g	
	EPDM; halogen-free	o-rings, wiper ring	5g	
Metals	Steel; nickel plated	screws, anchor, cores, discs, bushing	631g	
	CuSn; lacquered	coil winding	518g	
	steel CrNi	stems, bellow, discs, seats	variant	
	steel CrNi	bolt, spring, stuffing box	65g	
	Steel; powder-coated	U-bracket	1'155g	
	steel CrNi	valve body	variant	
	CuZn	spring guide, disc	15g	
Others	silicon grease	Oil, grease	3 ... 5g	
	aramid fiber	seals	5 ... 8g	

PCBAs (Printed Circuit Board assembled)

FR4; TBBA; solder SnAgCu

PCB (circuit board with components)

69g

**\*Variant parts list**

	MXG461S15-1.5	MXG461S20-5.0	MXG461S25-8.0	MXG461S32-12							
Total weight of device stems, bellow, discs, seats valve body	3'656	4'142	4'530	5'476							
Packaging Carton Box	224	224	287	374							

**Disposal**



The device is classified as waste electronic equipment in terms of the European Directive 2012/19/EU (WEEE) and must not be disposed of as unsorted municipal waste. The relevant national legal rules are to be adhered too. Regarding disposal, use the systems setup for collecting electronic waste. Observe all local and applicable laws.

**Comments**

**EU-directive 2011/65/EU (RoHS)**

The device does not contain substances in concentrations and applications banned under the EU RoHS Directive.

**Regulation (EC) No. 1907/2006 (REACH)**

To the best of our knowledge and according to the information of our suppliers the above mentioned device and its packaging contain no substances of the candidate list according to Article 59 (1, 10) of the regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) in concentrations above 0.1 % w/w.

(Status according to the creation date of this document.)

**Environmental benefits**

- Reduced energy consumption (domestic hot water, cold water) for HVAC and industrial applications due to high control accuracy and positioning speed.
- Long lifetime due to few moving parts in the magnetic actuator. Thus high protection of investment and significant savings in raw material resources.

**Legal Disclaimer: This declaration is for information purpose only.**  
 This Environmental Product Declaration does not constitute a guarantee of the composition of a product, neither does it guarantee that the product will retain a particular composition for a particular period.  
 Siemens Schweiz AG therefore does not assume liability for any error or for any consequences which may arise from the use of this information to the maximum extent under the law.

Please contact your local Siemens branch office to get further information on environmental aspects and disposal.