



Environmental Product Declaration

Product

Type of equipment / Product No.	GDBxx1.9x/xx	Ball Valve Actuator; 5Nm
	GLBxx1.9x/xx	Ball Valve Actuator; 10Nm
	GLDxx1.9x/xx	Ball Valve Actuator; 8Nm
	GLA161.9E/HR	Ball Valve Actuator; 10Nm
	GDD161.9E	Ball Valve Actuator; 5Nm
Product line, Product range	Ball Valve Actuator Baby GAP MK3 / OpenAirTM	

Process control

Siemens Schweiz AG Smart Infrastructure Theilerstrasse 1a CH-6300 Zug		
Management System	since	by
ISO 14001 (Environment)	20-October-1998	SQS
ISO 9001 (Quality)	22-July-1986	SQS

Environmentally compatible product design

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 (former SN 36350) "Specifications on Environmentally Compatible Product and System Design".

Product use

Typical energy consumption	variant *) see below Energy consumption is between 0.6 and 7 kWh/a (depending mainly on running time of the actuator)
Maintenance	Not necessary None

Risk of fire

Fire protection according to	EN 60730 & UL 60730
Fire load	variant *) see below

Packaging

20-PAP Corrugated fiber board	Cardboard & Paper	variant
22-PAP paper	Label	1.0g
22-PAP paper	Installation Instruction	15.1g
Notes on disposal	One-way, recyclable	

Materials

Total weight of device	variant *) see below	
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The total weight of a device may deviate from the total of the weights of all individual components due to rounding.

Plastics

POM	Various Gears, Indicator	9.3g
PC	Cover	46.2g
PC; GF 10%; halogenated	Housing & Various Mech. Parts	66.8g
ABS	Various Mechanical Parts	1.1g
PA66; AF 20%	Various Gears	variant
PA66	Gear Wheel 3	6.5g
POM; GF 25%	CW/CCW Switch	variant
EPDM+PP (TPV)	Various Sealing Parts	0.2g
PBT FR(17); GF 30%; halogenated	Various Parts Ball Valve Kit	126.6g

Metals	PA6	Cable Gland M16	variant
	PA6	Cable Gland M20	variant
	PA6T/6I; GF 50%	Universal Shaft	18.7g
	Steel; zinc plated	Gear Plate, Square Nut, Socket Head Screw	152.3g
	Steel	Axles, Plate Spring	5.3g
Others	CuZn (Pb>0,1%)	Hexagon Nut	0.9g
	Sintered Steel	Various Gears	variant
	Steel stainless	Various Parts Bal Valve Kit	variant
	Steel, Copper, PCB	Motors	variant
	PVC	PVC Cable Power	67.1g
PCBAs (Printed Circuit Board assembled)	Grease with PTFE	Lubricant	3.1g
	FR4; TBBA; solder SnAgCu	PCBA	variant

*Variant parts list

	[g]	GDBxx1.9x/xx	GLBxx1.9x/xx	GLDxx1.9x/xx	GLA161.9E/HR	GDD161.9E
Total weight of device		637.2	649.2	650.6	668.7	644.2
Various Gears		1.7	4.2	4.2	4.2	4.2
CW/CCW Switch		0.3				
Cable Gland M16					8.1	
Cable Gland M20					11.4	
Various Gears		69.3	74.9	74.9	74.9	74.9
Various Parts Bal Valve Kit		3.0	3.4	3.4	3.4	3.4
Motors		30.6	30.6	32.0	30.6	30.6
PCBA		28.2	32.0	32.0	32.0	27.0
Fire load	[MJ]	9	10	10	10	10
Typical energy consumption	[kWh/a]	1.76	6.14	1.76	1.32	1.32
Packaging						
Cardboard & Paper	[g]	39.1	39.1	39.1	90.6	39.1

Disposal



The symbol or any other national label indicates the product, its packaging and where applicable, any removed batteries may not be disposed as part of normal waste. Delete any personal data and dispose of the item via separate collection and recycling facilities in accordance with local and national regulations. For additional details, refer to www.siemens.com/bt/disposal.

For country-specific requirements regarding further disposal information:
<http://www.siemens.com/download?A6V13734633>

Comments

EU-directive 2011/65/EU (RoHS)

The device does not contain substances in concentrations and applications banned under the EU RoHS Directive, including the 4 phthalates added to Annex II in 2015.

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

The device contains the following 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. Contained REACH candidate substances, including those which will become known at a later date, are listed on the delivery note.

6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol, CAS-Nr.119-47-1 ; Silicic acid (H₂SiO₅), barium salt (1:1), lead-doped, CAS-Nr.68784-75-8; Diboron trioxide, CAS-Nr.1303-86-2; BPA, CAS-Nr.80-05-7; Lead titanium trioxide, CAS-Nr.12060-00-3 ; Cobalt dichloride, CAS-Nr.7646-79-9

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

The device is low-halogen with exception of:

PVC cable; PCB (TBBA); Various Parts Ball Valve Kit PBT GF30 FR(17); flame retardants; Lubricant (PTFE)

Smart Infrastructure
Building Products

Further notes and comments:

SPECIAL COMPONENTS

PVC POWER CABLE: 1.5m => +35g / 2.5m => +105g / 5m => +280g

PVC OPT. POTENTIOMETER CABLE: 1.5m => +35g / 2.5m => +105g / 5m => +280g

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.

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