



Environmental product declaration

Product

Device type	MXF461.65-50, MXF461.65-50P
Designation	Precision valve with magnetic actuator for standard applications to 120°C
Product range	Valves and actuators

Process control

Siemens Building Technologies AG, HVAC Products
Laubisrütistrasse 50, CH-8712 Stäfa

Management system certified	since	by
ISO 14001 (environment)	13 Dec. 1996	BVQI
ISO 9001 (quality)	7 Feb. 1991	BVQI

Product use

Typical energy consumption per year	105 kW at 100% ON time
Maintenance	no maintenance
Environmental benefits	see notes on page 2

Environmental risk (fire)

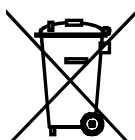
Fire protection as per	EN 60730
Fire load	approx. 12 MJ
Parts containing halogens (result in corrosive smoke)	pc board without components cover, base, hand wheel, insert

Packaging

Paperboard, cardboard boxes, paper	folding box with insert	615 g
Transportation protection	styrofoam	144 g
Notes on disposal	can be recycled	

Materials		total weight of device	27,343g
Plastics	PC; GF10, FR(16) containing halogens	cover, base, hand wheel, insert	134 g
	PBT; GF30, FR(62) halogen-free	coil cover, coil D38	242 g
	Rubber	O-ring seal	12 g
Metals	Brass, bronze	stem, bushing, seat, disc	617 g
	Steel, zinc-plated, nickel-plated	screws, core, cover	32 g
	Copper wire	coil winding	1,580 g
	Cr/Ni steel	bolt, disc, stem	525 g
	Steel	U-bracket, bushing	3,346 g
	Free-cutting steel 95MnPb	armature, core	1,525 g
	Cast iron	valve body	18,720 g
	Hot-pressed brass	valve seat, above	327 g
	Zinc	cover	202 g
	Miscellaneous	Oil, grease	silicone oil, silicon grease
Circuit board	FR 4; containing halogens	circuit board with components	69 g
		pc board without components	(21 g)
Special Components	FR4, containing halogens, SnPb solder	on the circuit board	(4 g)
	1x Al capacitor	on the circuit board	(36 g)
	Misc. components	stroke measurement element, on the circuit board	(8 g)
	Copper wire		

Disposal



Do not dispose of the device as part of standard household garbage, but as special waste from electrical and electronic components. This particularly applies to electronic circuit boards. Additionally, the law may mandate special treatment for specific components or special treatment may be ecologically sensible.

Observe all local and applicable laws.

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.

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If you require further information on environmental aspects and disposal, contact your local Siemens branch office.