



# *Environmental product declaration*

**Product**

Device type	<b>MXF461.32-12 MXF461.40-20 MXF461.50-30</b>
Designation	<b>Precision valve with magnetic actuator for standard applications to 120°C</b>
Product range	<b>Valves and actuators</b>

**Process control**

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

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

**Product use**

Typical energy consumption per year	<b>53 kW at 100% ON time</b>
Maintenance	<b>no maintenance</b>
Environmental benefits	<b>see notes on page 2</b>

**Environmental risk (fire)**

Fire protection as per	<b>EN 60730</b>
Fire load	<b>approx. 10 MJ</b>
Parts containing halogens (result in corrosive smoke)	<b>pc board without components cover, base, hand wheel, insert</b>

**Packaging**

Paperboard, cardboard boxes, paper	<b>(*) folding box with insert</b>	<b>439 g</b>
Transportation protection	<b>(*) styrofoam</b>	<b>78 g</b>
Notes on disposal	<b>can be recycled</b>	

Materials		total weight of device	(*) 9,711 g
Plastics	PC; GF10, FR(16) containing halogens	cover, base, hand wheel	(*) 172 g
	PBT; GF30, FR(62) halogen-free	coil cover, coil	(*) 142 g
	Rubber, Vetronit	O-ring, wiper, insulating ring(*)	2 g
Metals	Brass, bronze	stem, bushing, seat, disc	(*) 265 g
	Steel, zinc-plated, nickel-plated	screws, core, cover	(*) 18 g
	Copper wire	coil winding	(*) 540 g
	Cr/Ni steel	bolt, disc, stem	(*) 54g
	Steel	U-bracket, bushing	(*) 1,212 g
	Free-cutting steel 95MnPb	armature, core	(*) 577 g
	Cast iron	valve body	(*) 6,650 g
	Zinc	cover	(*) 0 g
Miscellaneous	Oil, grease	silicone oil, silicon grease	8 g
Circuit board	FR 4; containing halogens	circuit board with components	69 g
<b>Special Components</b>	FR4, containing halogens, SnPb solder	pc board without components	(21 g)
	1x Al capacitor	on the circuit board	(4 g)
	Misc. components	on the circuit board	(36 g)
	Copper wire	stroke measurement element, on the circuit board	(8 g)

### 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.

(\*) Information applies to **MXF461.32-12**.

	PC; FR(16)	PBT; FR(62)	Rubber	Brass/bronze	Steel, zinc-plated	Copper wire.	Cr/Ni steel
<b>MXF461.40-20</b>	121 g	198 g	8 g	407 g	22 g	926 g	87 g
<b>MXF461.50-30</b>	121 g	198 g	8 g	640 g	22 g	926 g	101 g
	Steel	95MnPb	Cast iron	Zinc	Box.	Styrofoam	Tot. weight
<b>MXF461.40-20</b>	2,076 g	1,063 g	8,810 g	202 g	410 g	112 g	13,997 g
<b>MXF461.50-30</b>	2,076 g	1,063 g	12,00 g	202 g	525 g	112 g	18,335 g

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