



Environmental Product Declaration

Product	Type of equipment	MVF461H15..	MVF461H32..
		MVF461H20..	MVF461H40..
		MVF461H25..	MVF461H50..
	Designation	Modulating control valves with magnetic actuator	
	Product line	Acvatix™, Valves & Actuators	
Process control	Siemens Switzerland Ltd. Building Technologies Division Gubelstrasse 22, CH-6301 Zug		
	Management system certified	since	by
	ISO 14001 (environment)	Rastatt 12. Dec. 1997	BSI
	ISO 9001 (quality)	Rastatt 30. May 1986	BSI
Product use	Typical energy consumption per year	MVF461H.., DN15...25	29 kWh/J
		MVF461H32.., DN32	38 kWh/J
		MVF461H.., DN40...50	57 kWh/J
	Maintenance	Maintenance free	
Risk of fire	Fire protection according to	EN 60730	
	Fire load	11 MJ	
Packaging	Fiber board	Single packaging	265...440 g
	Polystyrene (Transport protection)		285...510 g
	Notes on disposal	One-way, recyclable	

Materials		MVF461H., DN15...25	Total weight of device	6928...8678 g
Plastics	Mask, cover, switches, hand wheel, cover of hand wheel, switch jack		PC, PC-GF10	219 g
	Coil		PA6, PA66, GF25, GF30	38 g
	Insulating hose, plug-in		PVC soft	42 g
	O-ring, bag		EPDM, Ethylene/Propylene, EP80, PP	18 g
	Seal		Mix of synthetic fabric and GF	2 g
	Metals	Contacts, cover, stem		Brass
Core, armature, coupler, spacer screw			Steel coated, nickel-plated	1020 g
Copper coils			Copper	780 g
Valve cage, spring, spindle, bellow			CrNi-Steel	244...284 g
Casing, bearing bush, flange			Steel	1245 g
Valve body, covering flange			Modular cast iron EN-GJS-400-18-LT	2702...4412 g
	Clamping ring, base		Cast aluminum	470 g
PCB assembled	PCB assembled		FR 4; TBBA; lead-free solder	108 g
Grease	Grease containing silicone			5 g
The total weight of a device may deviate from the total of the weights of all individual components due to rounding.				
Special components	PCB without components		FR 4; TBBA; lead-free solder	(46 g)
	Various components		on PCB	(70 g)

Materials		MVF461H.., DN32...50	Total weight of device	14052...25128 g
Plastics	Mask, cover, switches, hand wheel, cover of hand wheel, switch jack	PC, PC-GF10		219 g
	Coil	PA6, PA66, GF25, GF30		45 g
	Insulating hose, plug-in	PVC soft		51 g
	O-ring, bag	EPDM, Ethylene/Propylene, EP80, PP		14 g
	Seal	Mix of synthetic fabric and GF		3 g
	Metals	Contacts, cover, stem	Brass	
Core, armature, coupler, spacer screw		Steel coated, nickel-plated		1864...4777 g
Copper coils		Copper		1950 g
Valve cage, spring, spindle, bellow		CrNi-Steel		482...1190 g
Casing, bearing bush, flange		Steel		2160...4775 g
Valve body, covering flange		Modular cast iron EN-GJS-400-18-LT		6600...11440 g
Clamping ring, base		Cast aluminum		525 g
PCB assembled	PCB assembled	FR 4; TBBA; lead-free solder		108 g
Grease	Grease containing silicone			6 g

* (Weights in brackets are already included in components declared under materials.)

¹⁾ Details see page 4

The total weight of a device may deviate from the total of the weights of all individual components due to rounding.

Special components	PCB without components	FR 4; TBBA; lead-free solder	(46 g)
	Various components	on PCB	(62 g)

Disposal

The device should not be disposed of as unsorted municipal waste. The special treatment for specific components may be mandated by law or ecologically sensible.

Observe all local and applicable laws.

Comments

Materials:

The device is free from substances banned by the Directive 2002/95/EC (RoHS):

Pb, Hg, Cr6+, PBB, PBDE: < 0.1 % by weight in homogeneous materials

Cd: < 0.01 % by weight in homogeneous materials

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 Switzerland Ltd. 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.