

# Product Environmental Profile

## STE Q3 Actuator





## General information

**Representative product (commercial reference)**

STE Q3 Actuator - (0044551517026)

**Description of the product**

The main purpose of the STE Q3 Actuator range (1,2 Nm – 10 Nm) is to provide a special damper or valve actuator for different applications to optimize the burning process on oil or gas burners.

**Description of the range**

This range consists of STE Q3 Actuators

The environmental impacts of this referenced product are representative of the impacts of the other products of the range which are developed with a similar technology.

**Functional unit**

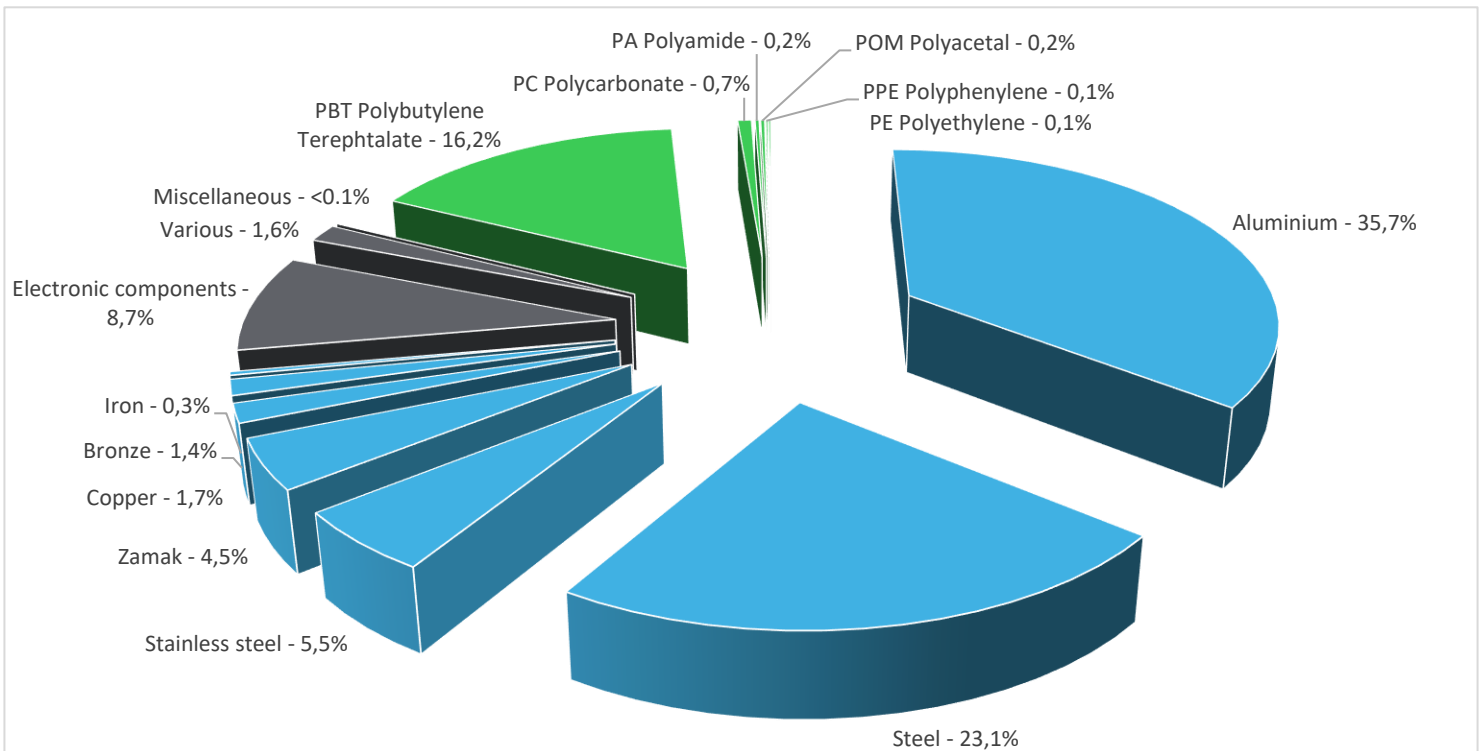
To optimize burning processes up to 7,5W during 10 years and a use rate of 25%.



## Constituent materials

**Reference product mass**

1394,6 g including the product and additional elements and accessories



Plastics	17,5%
Metals	72,2%
Others	10,3%



## Substance assessment

Products of this range are designed in conformity with the requirements of the RoHS directive (European Directive 2011/65/EU of 2 January 2013, amended in March 2015, 2015/863/EU and in November 2017, 2017/2102/EU) and do not contain, or only contain in the authorised proportions, lead, mercury, cadmium, hexavalent chromium or flame retardants (polybrominated biphenyls - PBB, polybrominated diphenyl ethers – PBDE), Bis (2-ethylhexyl)phthalate - DEHP, Benzyl butyl phthalate– BBP, Dibutyl phthalate - DBP, Diisobutyl phthalate - DIBP) as mentioned in the Directive.

Details of ROHS and REACH substances information are available on the Schneider-Electric Green Premium website

<http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page>

## Additional environmental information

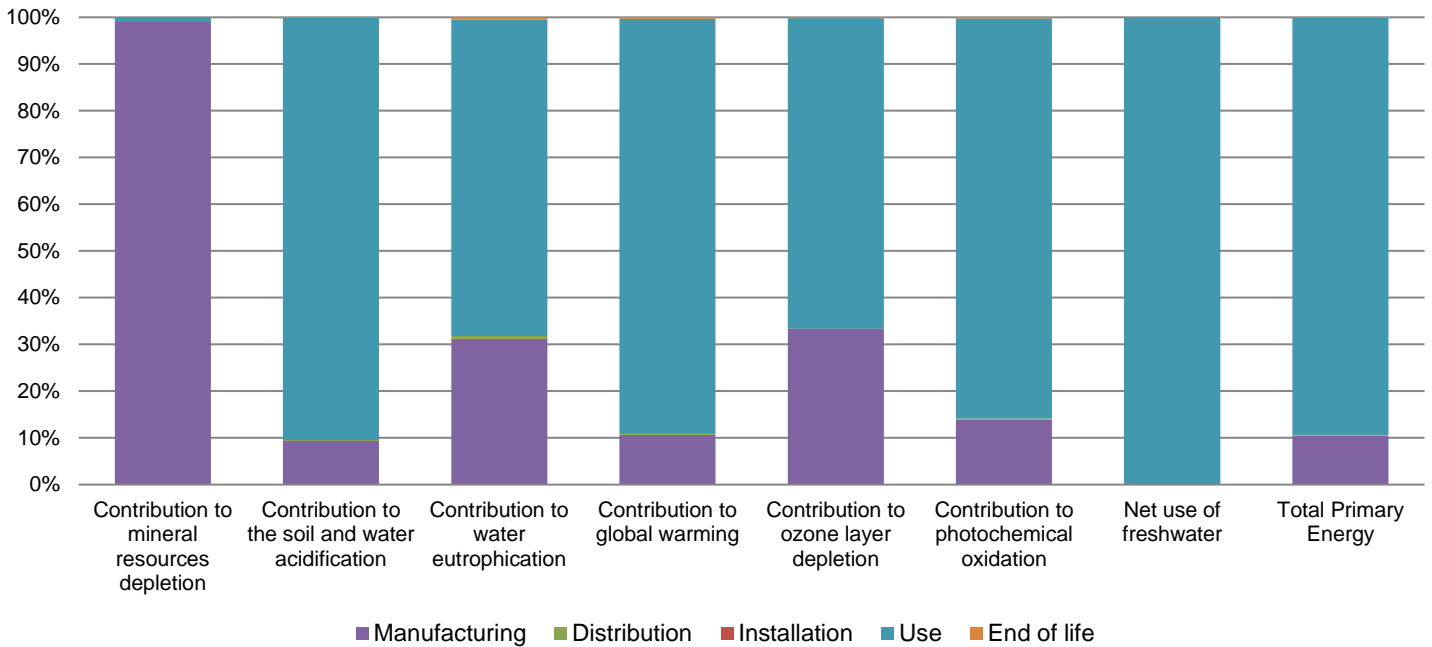
The STE Q3 Actuator presents the following relevant environmental aspects

<b>Manufacturing</b>	Manufactured at a Schneider Electric production site ISO14001 certified
	Product distribution optimised by setting up local distribution centres
<b>Installation</b>	0044551517026 does not require any installation operations.
<b>Use</b>	The product does not require special maintenance operations.
<b>End of life</b>	End of life optimized to decrease the amount of waste and allow recovery of the product components and materials
	This product contains one cable (6,2%) and one electronic card (2,1%) that should be separated from the stream of waste so as to optimize end-of-life treatment.
	The location of these components and other recommendations are given in the End of Life Instruction document which is available on the Schneider-Electric Green Premium website <a href="http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page">http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page</a>
	Recyclability potential: <b>67%</b> Based on "ECO'DEEE recyclability and recoverability calculation method" (version V1, 20 Sep. 2008 presented to the French Agency for Environment and Energy Management: ADEME).

## Environmental impacts

<b>Reference life time</b>	10 years			
<b>Installation elements</b>	No special components needed			
<b>Use scenario</b>	The use scenario is : - Active phase: consumed power 7,5 W during 25% uptime. - Off phase: consumed power 0 W during 75% uptime.			
<b>Geographical representativeness</b>	Europe			
<b>Technological representativeness</b>	The main purpose of the STE Q3 Actuator range (1,2 Nm – 10 Nm) is to provide a special damper or valve actuator for different applications to optimize the burning process on oil or gas burners.			
<b>Energy model used</b>	<b>Manufacturing</b>	<b>Installation</b>	<b>Use</b>	<b>End of life</b>
	Energy model used: Germany	Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27	Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27	Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27

Compulsory indicators		STE Q3 Actuator - 0044551517026					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	7,12E-04	7,05E-04	0*	0*	6,99E-06	0*
Contribution to the soil and water acidification	kg SO <sub>2</sub> eq	3,72E-01	3,47E-02	8,22E-04	0*	3,36E-01	4,65E-04
Contribution to water eutrophication	kg PO <sub>4</sub> <sup>3-</sup> eq	2,99E-02	9,34E-03	1,89E-04	0*	2,03E-02	1,36E-04
Contribution to global warming	kg CO <sub>2</sub> eq	9,06E+01	9,64E+00	1,80E-01	0*	8,05E+01	2,96E-01
Contribution to ozone layer depletion	kg CFC11 eq	7,89E-06	2,63E-06	0*	0*	5,24E-06	1,37E-08
Contribution to photochemical oxidation	kg C <sub>2</sub> H <sub>4</sub> eq	2,15E-02	2,98E-03	5,86E-05	0*	1,84E-02	4,91E-05
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	2,92E+02	2,15E-01	0*	0*	2,92E+02	0*
Total Primary Energy	MJ	1,80E+03	1,89E+02	2,54E+00	0*	1,61E+03	2,43E+00



Optional indicators		STE Q3 Actuator - 0044551517026					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	1,01E+03	9,12E+01	2,53E+00	0*	9,13E+02	1,85E+00
Contribution to air pollution	m <sup>3</sup>	5,11E+03	1,62E+03	7,65E+00	0*	3,46E+03	1,67E+01
Contribution to water pollution	m <sup>3</sup>	4,18E+03	7,21E+02	2,96E+01	0*	3,32E+03	1,13E+02
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	3,68E-01	3,68E-01	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	2,09E+02	4,39E+00	0*	0*	2,04E+02	0*
Total use of non-renewable primary energy resources	MJ	1,59E+03	1,84E+02	2,54E+00	0*	1,40E+03	2,43E+00
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	2,09E+02	4,39E+00	0*	0*	2,04E+02	0*
Use of renewable primary energy resources used as raw material	MJ	0,00E+00	0*	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1,58E+03	1,74E+02	2,54E+00	0*	1,40E+03	2,43E+00
Use of non renewable primary energy resources used as raw material	MJ	1,01E+01	1,01E+01	0*	0*	0*	0*
Use of non renewable secondary fuels	MJ	0,00E+00	0*	0*	0*	0*	0*
Use of renewable secondary fuels	MJ	0,00E+00	0*	0*	0*	0*	0*
Waste categories	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Hazardous waste disposed	kg	1,65E+01	1,45E+01	0*	0*	4,20E-02	1,98E+00
Non hazardous waste disposed	kg	3,10E+02	1,00E+01	0*	0*	3,00E+02	0*
Radioactive waste disposed	kg	2,08E-01	7,83E-03	0*	0*	2,00E-01	0*
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	1,06E+00	1,24E-01	0*	0*	0*	9,34E-01
Components for reuse	kg	0,00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	2,74E-02	0*	0*	0*	0*	2,74E-02
Exported Energy	MJ	0,00E+00	0*	0*	0*	0*	0*

\* represents less than 0.01% of the total life cycle of the reference flow

Life cycle assessment performed with EIME version EIME v5.8.1, database version 2016-11 in compliance with ISO14044.

The use phase is the life cycle phase which has the greatest impact on the majority of environmental indicators (based on compulsory indicators).

According to this environmental analysis, proportionality rules may be used to evaluate the impacts of other products of this range.

Depending on the impact analysis, the environmental indicators (without "contribution to Mineral Resources Depletion", "contribution to water eutrophication" and "contribution to ozone layer depletion") of other products in this family may be proportional extrapolated by energy consumption values". For mineral resources depletion impact may be proportional extrapolated by mass of the product. For both water eutrophication and ozone layer depletion, 30% is caused by manufacturing and 70% is caused by the use phase therefore 30% of the impact may be proportional extrapolated by mass of the product and 70% may be proportional extrapolated by energy consumption values.

Please note that the values given above are only valid within the context specified and cannot be used directly to draw up the environmental assessment of an installation.

Registration number	ENVPEP1509011_V2	Drafting rules	PCR-ed3-EN-2015 04 02
Date of issue	05/2020		
Validity period	5 years	Information and reference documents	<a href="http://www.pep-ecopassport.org">www.pep-ecopassport.org</a>
Independent verification of the declaration and data			
Internal	X	External	
The elements of the present PEP cannot be compared with elements from another program.			
Document in compliance with ISO 14021:2016 « Environmental labels and declarations - Self-declared environmental claims (Type II environmental labelling) »			

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