

This appendix refers to the EPD MD-23001-EN, developed according to EN15804+A2:2019. Results in the appendix communicates LCA results in the format described in EN15804+A1:2013, in order to accommodate a need in the transition period between the two standard revisions. The appendix cannot stand alone, as the reference EPD describes the basis of the assessment.

ENVIRONMENTAL IMPACTS PER 1 KG FLOW REGULATOR									
Parameter	Unit	A1	A2	A3	C1	C2	C3	C4	D
GWP	[kg CO ₂ -eq.]	3,99E+00	3,52E-01	-1,05E+00	0,00E+00	1,61E-02	5,12E-01	0,00E+00	-5,73E+00
ODP	[kg CFC11-eq.]	1,54E-07	6,37E-08	-3,53E-08	0,00E+00	2,98E-09	2,34E-08	0,00E+00	-2,13E-07
AP	[kg SO ₂ -eq.]	2,10E-02	2,03E-03	-6,17E-03	0,00E+00	3,85E-05	1,89E-03	0,00E+00	-3,04E-02
EP	[kg PO ₄ ³⁻ -eq.]	7,07E-03	2,90E-04	-1,71E-03	0,00E+00	7,76E-06	1,31E-03	0,00E+00	-9,56E-03
POCP	[kg ethene-eq.]	9,64E-04	6,93E-05	-2,74E-04	0,00E+00	1,91E-06	9,56E-05	0,00E+00	-1,40E-03
ADPE	[kg Sb-eq.]	1,06E-04	1,10E-06	-3,60E-05	0,00E+00	5,54E-08	1,40E-06	0,00E+00	-1,70E-04
ADPF	[MJ]	3,58E+01	3,87E-01	-1,11E+01	0,00E+00	1,88E-02	3,73E+00	0,00E+00	-5,29E+01
Caption	GWP = Global warming potential; ODP = Ozone depletion potential; AP = Acidification potential of soil and water; EP = Eutrophication potential; POCP = Photochemical ozone creation potential; ADPE = Abiotic depletion potential for non fossil resources; ADPF = Abiotic depletion potential for fossil resources								
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 ² or 195, while 1,12E-11 is the same as 1,12*10 ⁻¹¹ or 0,0000000000112.								

RESOURCE USE PER 1 KG FLOW REGULATOR									
Parameter	Unit	A1	A2	A3	C1	C2	C3	C4	D
PERE	[MJ]	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PERM	[MJ]	9,64E+00	5,26E-02	8,52E+00	0,00E+00	2,65E-03	1,03E+00	0,00E+00	-1,41E+01
PERT	[MJ]	9,64E+00	5,26E-02	8,52E+00	0,00E+00	2,65E-03	1,03E+00	0,00E+00	-1,41E+01
PENRE	[MJ]	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PENRM	[MJ]	4,26E+01	4,89E-01	0,00E+00	0,00E+00	2,40E-02	6,87E+00	0,00E+00	-5,99E+01
PENRT	[MJ]	4,26E+01	4,89E-01	-1,19E+01	0,00E+00	2,40E-02	6,87E+00	0,00E+00	-5,99E+01
SM	[kg]	1,23E+00	5,17E-03	-3,93E-02	0,00E+00	2,53E-04	9,46E-02	0,00E+00	-4,17E-01
RSF	[MJ]	8,43E-02	1,45E-03	-7,74E-03	0,00E+00	7,53E-05	4,92E-02	0,00E+00	-7,11E-02
NRSF	[MJ]	1,16E-01	5,80E-03	-2,29E-02	0,00E+00	3,06E-04	3,28E-02	0,00E+00	-1,43E-01
FW	[m ³]	8,42E+01	2,88E-01	-2,85E+01	0,00E+00	1,44E-02	4,43E+00	0,00E+00	-1,29E+02
Caption	PERE = Use of renewable primary energy excluding renewable primary energy resources used as raw materials; PERM = Use of renewable primary energy resources used as raw materials; PERT = Total use of renewable primary energy resources; PENRE = Use of non renewable primary energy excluding non renewable primary energy resources used as raw materials; PENRM = Use of non renewable primary energy resources used as raw materials; PENRT = Total use of non renewable primary energy resources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non renewable secondary fuels; FW = Use of net fresh water								
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 ² or 195, while 1,12E-11 is the same as 1,12*10 ⁻¹¹ or 0,0000000000112.								

WASTE CATEGORIES AND OUTPUT FLOWS PER 1 KG FLOW REGULATOR									
Parameter	Unit	A1	A2	A3	C1	C2	C3	C4	D
HWD	[kg]	1,31E+01	1,12E-01	-3,76E+00	0,00E+00	5,54E-03	1,79E+00	0,00E+00	-1,87E+01
NHWD	[kg]	6,07E-01	2,41E-01	1,22E-01	0,00E+00	1,28E-02	2,07E-01	0,00E+00	-6,86E-01
RWD	[kg]	4,33E-03	9,99E-05	-5,24E-04	0,00E+00	4,95E-06	1,96E-03	0,00E+00	-4,40E-03
CRU	[kg]	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
MFR	[kg]	1,63E-01	4,33E-03	-7,58E-03	0,00E+00	2,10E-04	9,22E-02	0,00E+00	-1,41E-01
MER	[kg]	6,69E-03	1,34E-03	8,85E-04	0,00E+00	5,78E-05	7,80E-04	0,00E+00	-9,51E-03
EEE	[MJ]	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
EET	[MJ]	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Caption	HWD = Hazardous waste disposed; NHWD = Non hazardous waste disposed; RWD = Radioactive waste disposed; CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported electrical energy; EET = Exported thermal energy								
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 ² or 195, while 1,12E-11 is the same as 1,12*10 ⁻¹¹ or 0,0000000000112.								

Checked and approved by



Kim Christiansen
Third party verifier of MD-23001-EN



Martha Katrine Sørensen
EPD Danmark