Environmental Declaration

Company			Date	Edition	ID No	Page
IMI Hydronic Engineering AB SE-524 80 LJUNG	Tel Fax E-mail	+46 (0)513 540 00 +46 (0)513 508 44 support.se@imi-hydronic.com	2021-02-22	4	ED-2500-en	1 (6)

Issuer	Approved	Title
Jesper Rapp	Christofer Sundqvist	Environmental Declaration for product: PRK (TA 401-406; 418; 410; 415; 423)

Manufacturer

Name	IMI Hydronic Engineering AB
Address	SE-524 80 Ljung, Sweden
Phone	+46 (0)513-54000
Management system	IMI Ljung has a certified quality, environment, and safety management system. The management system is also certified according to the Pressure Equipment Directive. The certificates are published at our homepage, www.imi-hydronic.com

General product information

Designation:	PRK (TA 401-406; 418; 410; 415)
Type of product:	Plastic pipe couplings
Product approvals acc. to:	Approved for tap water systems by RISE Certification, Sweden (does not cover sliding couplings 53 423-0XX).
Technical service life:	>20 years
The product is acc. to REACH defined as:	Product

Material composition

Product components	Material	Specification of material composition	CAS-no	Weight%	Comments
Body	Ametal (brass)	Cu 65 %, Pb 2%, Si 0,7 % Zn 32 %	Cu 7440-50-8 Pb 7439-92-1 Si 7440-21-3 Zn 7440-66-6	71,4-99,5 (TA 406 items with gun metal body excluded)	For product specific material composition, see appendix A.
Thrust screw; cone; support bush	Plastic	POM		0,4-20.9	For product specific material composition, see appendix A.
O-ring	Synthetic rubber	Nitrile rubber		0-0,2	For product specific material composition, see appendix A.
Body	Gun metal (only used in 2 TA 406 items)	CuSn5Zn5Pb5 acc. to SS-EN 1982	Cu 7440-50-8 Sn 7440-31-5 Zn 7440-66-6 Pb 7439-92-1	76,3-93,7 (only valid for 2 TA 406 items)	For product specific material composition, see appendix A.

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Other material information

	Yes	No	Additional information
Product is Chrome plated		X	
Product is Nickel plated	X		Only applicable for TA 418.
Product is galvanized		X	
Is product containing recycled material	X		Ametal is made of approx. 80% recycled raw materials. Splits and scrap from the own production are recycled in the in-house foundry.

REACH and SVHC

Information about SVHC (Candidate list) acc. to REACH	
The product contains	
Packaging	The packaging is not containing any substances on the Candidate list
X Brass X Gun metal	The Copper alloy are containing > 0,1% Lead (Pb), CAS No 7439-92-1, which was put in the Candidate list 2018-06-27. Gun metal is only used in two TA 406 couplings. See Appendix A for details.

Packaging

IMI Hydronic Engineering AB complies with Swedish regulation 2018:1463 regarding producer responsibility of wastepaper, and 2018:1462 regarding producer responsibility of packaging material.

Materials	Yes	No	
Cardboard / Paper	X		Produced of recycled material at packaging supplier.
Plastic		X	

Manufacturing stage

Energy consumption	The company has worked with energy savings since 1989. The company has an in-house foundry, there for example heat excess is used for heating of the offices.
Sustainability	The owner of the company, IMI plc, has made an overall commitment to fulfil UN Global Compact. Sustainability work is covered in for example IMI Code of Conduct, and is yearly reported in the annual report. For more information, see https://www.imiplc.com/ The overall commitment from IMI plc, has been introduced as daily routines at IMI Ljung.

Transports

Transport contractors	Transport contractors with pronounced sustainability work are chosen in first hand.
To and from the company	Lorry or parcel post. The company is working with transports optimization.

Usage stage

Storage	No special demands. Normal practice.
Instructions for use	Can be found on homepage: www.imi-hydronic.com
Emissions	No emissions, if used according to normal practice and instructions for use.
Energy	The products are not energy labelled. To lower the energy usage as much as possible, balancing of the products is recommended,

Waste/ Worn out product

IMI Hydronic Engineering AB complies with Swedish regulation 2018:1463 regarding producer responsibility of wastepaper, and 2018:1462 regarding producer responsibility of packaging material.

Materials	Yes	No	
Worn out product can be recycled	X		Leave worn out products for recycling.
Cardboard / Paper	X		Recycle packing/paper.
Plastic	X		Recycle plastic.

Waste codes

Waste	EWC code
Brass	17 04 01
Steel	17 04 05
Cardboard	15 01 01
Paper (Packaging)	15 01 01
Plastic	15 01 02

CO_2-load

CO_2 -load for foundry castings	Climate indicator from Swedish Foundry Association (SFA) shows that Swedish foundries has the lowest emission of CO_2 per tonne casting. **The climate indicator from SFA shows for Brass, 60 kg CO_2 per tonne casting.** See also homepage https://en.gjuteriforeningen.se/climate-indicator/

Appendix A – Product specific material composition
Straight couplings

PRK TA 401 Straight	53 401-032	53 401-040	53 401-050	53 401-063	53 401-116	53 401-120	53 401-125
Ametal	80,66%	81,82%	79,06%	99,28%	85,88%	83,71%	83,91%
POM	19,34%	18,18%	20,94%	0,72%	14,12%	16,29%	16,09%

PRK TA 402 Straight	53 402-116	53 402-120	53 402-125	53 402-032	53 402-040	53 402-050	53 402-720	53 402-725	53 402-632	53 402-010	53 402-640	53 402-650	53 402-663
Ametal	92,41%	91,14%	91,25%	89,30%	90,00%	88,30%	91,00%	90,53%	89,13%	89,07%	90,54%	89,06%	99,05%
POM	7,59%	8,86%	8,75%	10,70%	10,00%	11,70%	9,00%	9,47%	10,87%	10,93%	9,46%	10,94%	0,95%

PRK TA 403 Straight	53 403-116	53 403-120	53 403-125	53 403-032	53 403-040	53 403-050	53 403-720	53 403-725	53 403-006	53 403-632	53 403-010	53 403-640	53 403-650	53 403-663	53 403-240
Ametal	86,86%	85,61%	86,83%	83,99%	83,71%	83,40%	87,45%	86,73%	83,99%	84,27%	87,21%	86,06%	83,59%	98,88%	88,32%
POM	13,14%	14,39%	13,17%	16,01%	16,29%	16,60%	12,55%	13,27%	16,01%	15,73%	12,79%	13,94%	16,41%	1,12%	11,68%

Elbow couplings

TA 404 Elbow	53 404-116	53 404-120	53 404-125	53 404-032	53 404-040	53 404-050	53 404-063
Ametal	88,55%	85,25%	85,10%	81,94%	84,07%	84,29%	99,48%
POM	11,45%	14,75%	14,90%	18,06%	15,93%	15,71%	0,52%

TA 405 Elbow	53 405-116	53 405-120	53 405-125	53 405-032	53 405-040	53 405-050	53 405-063
Ametal	93,93%	92,04%	91,95%	90,07%	91,35%	91,48%	99,36%
POM	6,07%	7,96%	8,05%	9,93%	8,65%	8,52%	0,64%

TA 406 Elbow	53 406-116	53 406-120	53 406-125	53 406-032	53 406-040	53 406-050	53 406-006	53 406-007	53 406-010	53 406-011	53 406-663	53 406-232	53 406-240
Ametal	93,25%	93,38%	92,90%	91,15%	92,42%	0,00%	91,98%	90,85%	91,22%	92,39%	23,06%	91,49%	90,86%
POM	6,75%	6,62%	7,10%	8,85%	7,58%	6,26%	8,02%	9,15%	8,78%	7,61%	0,65%	8,51%	9,14%
Red metal	0,00%	0,00%	0,00%	0,00%	0,00%	93,74%	0,00%	0,00%	0,00%	0,00%	76,30%	0,00%	0,00%

Elbow couplings with wall plate

TA 418 Wall plate	53 418-716	53 418-720	53 418-725
Ametal	96,69%	93,45%	92,35%
POM	3,17%	6,55%	7,65%
Nitrile rubber	0,14%	0,00%	0,00%

Tee couplings

TA 410 Tee	53 410-116	53 410-120	53 410-125	53 410-032	53 410-040	53 410-062	53 410-050	53 410-079	53 410-063	53 410-093
Ametal	86,32%	85,31%	85,06%	82,40%	84,34%	86,84%	84,10%	88,24%	99,61%	97,75%
POM	13,68%	14,69%	14,94%	17,60%	15,66%	13,14%	15,90%	11,67%	0,39%	2,25%
Nitrile rubber	0,00%	0,00%	0,00%	0,00%	0,00%	0,01%	0,00%	0,09%	0,00%	0,00%

TA 415 Tee	53 415-125	53 415-032	53 415-040	53 415-050	53 415-063
Ametal	89,43%	87,54%	88,98%	88,84%	99,55%
POM	10,57%	12,46%	11,02%	11,16%	0,45%

Sliding straight couplings (for renovation)

TA 423 Sliding coupling	53 423-032	53 423-040	53 423-050	53 423-063
Ametal	85,14%	85,86%	84,92%	97,56%
POM	14,86%	14,14%	15,08%	2,44%