

Environmental Declaration

Företag/Company IMI Hydronic Engineering AB SE-524 80 LJUNG		Tel +46 (0)513 540 00 Fax +46 (0)513 508 44 E-mail info@tahydrronics.com		Datum/Date 2022-01-19	Utgåva/Edition 1	ID/ID No ED-22-02	Sida/Page 1 (4)
Utfärdare/Issuer Andreas Jonsson		Godkänd/Approved Christofer Sundqvist		Titel/Title Environmental Declaration for product: STAF*-R DN65-150			

Manufacturer

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

General product information

Designation:	STAF*-R DN65-150
Type of product:	Valve
Product approvals acc to:	CE-marked
Technical service life:	>20 years
The product is acc to REACH defined as:	Product
ROHS-directive (covers electric- and electronical equipment):	Brass alloys which contains <4% Lead(Pb) are excluded in ROHS.

Material composition

Product components	Material	Specification of material composition	CAS-no	Weight%	Comments
Valve body	Gun metal	CuSn5Zn5Pb5 acc. to SS-EN 1982		75-86	For product specific material composition, see appendix A.
Valve bonnet and plug	DZR Brass	Ms Ametal acc. to CC751S	Cu 7440-50-8 Zn 7440-66-6 Pb 7439-92-1 Si 7440-21-3	9,7-22,8	For product specific material composition, see appendix A.
Valve spindle, inner spindle, PT-ports	DZR Brass	Ms Ametal acc. to CW709R	Cu 7440-50-8 Zn 7440-66-6 Pb 7439-92-1 Si 7440-21-3	1,25,2,79	For product specific material composition, see appendix A.
PT-port caps; washer, guiding rings	Plastic	PA6; PP; PTFE; TPE;		0,31-1,1	For product specific material composition, see appendix A.
Screws	Stainless steel	Steel strength class 8.8 EN-ISO 4762		0,01-0,03	For product specific material composition, see appendix A.

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Product components	Material	Specification of material composition	CAS-no	Weight%	Comments
Sealings (O-rings)	Synthetic rubber	EPDM		0,11-0,15	For product specific material composition, see appendix A.

Other material information	Yes	No	Ev comment
Product is Chrome plated		X	
Product is Nicel plated		X	
Product is galvanized		X	
Is product containing recycled material	X		Ametal ingots are made of approx. 90% 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
<input checked="" type="checkbox"/> Brass <input checked="" type="checkbox"/> Redmetal	The Copper alloy are containing > 0,1% Lead (Pb), CAS No 7439-92-1, which was put in the Candidate list 2018-06-27.

Packaging

IMI Hydronic Engineering AB is listed in REPA-register: Reg no 55603362-5601.			
Materials	Yes	No	
Cardboard / Paper	X		Produced of recycled material at packaging supplier.
Plastic (Polyethylene)		X	
Wood (pallet)	X		Multiple products are delivered on wooden pallets that can be reused or recycled.

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 FN Global Compact. Sustainability work is covered in for example "IMI Code of Conduct", and is reported in the Annual report. See also: https://www.imiplc.com/ The overall commitment from IMI plc, has been introduced through routines at IMI Ljung.

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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 labeled. To lower the energy usage as much as possible, balancing of the products is recommended,

Waste/ Worn out product

IMI Hydronic Engineering is listed in the REPA-register: Reg no 55603362-5601.			
Materials	Yes	No	
Worn out product can be recycled	X		Leave worn out products for recycling.
Card board / Paper	X		Recycle packing/paper.
Plastic (Polyethylene)	X		Recycle plastic.

Waste codes

Waste	EWC code
Brass	17 04 01
Steel	17 04 05
Card Board	15 01 01
Paper(Packing)	15 01 01
Plastic	15 01 02

CO₂-load

CO₂-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 CO₂ per tonne casting. For further information, see https://en.gjuteriforeningen.se/climate-indicator/
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Appendix A – Product specific material composition

STAF*-R DN65-150	52 186-765 STAF*-R DN65	52 186-780 STAF*-R DN80	52 186-790 STAF*-R DN100	52 186-791 STAF*-R DN125	52 186-792 STAF*-R DN150
CuSn5Zn5Pb5 acc. to SS-EN 1982	85,64%	85,16%	79,59%	75,42%	75,65%
Ms Ametal acc. to CC751S	9,87%	10,84%	17,32%	21,54%	22,08%
Ms Ametal acc. to CW709R	2,79%	2,35%	1,89%	1,69%	1,25%
PA6-GF30	0,805%	0,678%	0,457%	0,310%	0,231%
Steel 8.8	0,466%	0,589%	0,397%	0,758%	0,563%
EPDM	0,140%	0,133%	0,149%	0,133%	0,114%
PP	0,233%	0,196%	0,132%	0,090%	0,067%
PTFE	0,012%	0,010%	0,036%	0,039%	0,033%
SS	0,031%	0,026%	0,018%	0,012%	0,009%
TPE	0,018%	0,015%	0,010%	0,007%	0,005%