

Environmental Declaration

Company IMI Hydronic Engineering AB SE-524 80 LJUNG		Tel +46 (0)513 540 00 Fax +46 (0)513 508 44 E-mail support.se@imi-hydronic.com	Datum/Date 2021-03-09	Edition 1	ID No ED-21-05-en	Page 1 (4)
Issuer Jesper Rapp	Approved Christofer Sundqvist	Title Environmental Declaration for product: STAG DN 65-300				

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:	STAG DN 65-300
Type of product:	Balancing valve
Product approvals acc. to:	CE-marking
Technical service life:	>20 years
The product is acc. to REACH defined as:	Product

Material composition

Material	Components	Material specification	CAS-no	Weight%	Comments
Aluminium	Handwheel (only in DN >150)	Acc. SS-EN 1706	Al 7429-90-5	0-2,1	For product specific material composition, see appendix A.
Ametal (brass)	All DN: Spindle; PT-ports DN65–150: Bonnet; cone	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	1,9-37	For product specific material composition, see appendix A.
Cast iron	All DN: Valve body. DN200–300: Bonnet; cone	Acc. to EN-GJS-400-15		60,8-96	For product specific material composition, see appendix A.
Plastic	PT-ports caps; sliding gaskets; marking details on wheel	PA6; PP; PTFE; TPE; HDPE; LDPE; PBTP; POM		0,1-1,9	For product specific material composition, see appendix A.
Stainless steel	Guiding pin; screws; gaskets; spring			0,9-1,6	For product specific material composition, see appendix A.
Synthetic rubber	Sealings (O-rings)	EPDM		0,03-0,2	For product specific material composition, see appendix A.

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Other material information

	Yes	No	Additional information
Surface treatment DN 65–200	X		Epoxy lacquer
Surface treatment DN 250–300	X		Duasolid lacquer
Product is Chrome plated		X	
Product is Nickel plated		X	
Product is galvanized		X	
Is product containing recycled material	X		Components in cast iron, EN-GJS-400-15, is made from 45-55% recycled material. 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	
Packaging	The packaging is not containing any substances on the Candidate list
<input checked="" type="checkbox"/> Brass <input type="checkbox"/> 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.

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		
Wood (pallet)	X		DN >150 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, where excess heat is utilised 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 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 works with transport optimization.

Usage stage

Storage	No special requirements. Follow common practice.
Instructions for use	Can be found on homepage: www.imi-hydronic.com
Emissions	No emissions if used according to instructions for use and common practice.
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

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. See also homepage https://en.gjuteriforeningen.se/climate-indicator/
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Appendix A – Product specific material composition

STAG DN65-300	52 183-073	52 183-076	52 183-089	52 183-114	52 183-140	52 183-141	52 183-165	52 183-168	52 183-219	52 183-273	52 183-324
Aluminium	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%	2,08%	1,21%	0,90%
Brass	32,65%	31,92%	33,83%	35,74%	37,05%	36,76%	36,48%	35,93%	5,39%	3,13%	1,93%
Cast iron	63,70%	64,52%	63,07%	62,13%	60,83%	61,15%	61,92%	62,49%	91,10%	93,97%	95,99%
HDPE	0,01%	0,01%	0,01%	0,01%	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%
LDPE	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%
PA	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%	0,16%	0,09%	0,07%
PA6	1,70%	1,66%	1,27%	0,85%	0,53%	0,53%	0,40%	0,39%	0,16%	0,09%	0,07%
PBTP 7,5% GF	0,07%	0,07%	0,06%	0,04%	0,02%	0,02%	0,02%	0,02%	0,02%	0,01%	0,01%
POM 30% GF	0,05%	0,04%	0,03%	0,02%	0,01%	0,01%	0,01%	0,01%	0,01%	0,00%	0,00%
PTFE	0,03%	0,03%	0,02%	0,02%	0,01%	0,01%	0,01%	0,01%	0,01%	0,01%	0,00%
TPE	0,03%	0,03%	0,02%	0,02%	0,01%	0,01%	0,01%	0,01%	0,00%	0,00%	0,00%
Stainless steel	1,59%	1,55%	1,53%	1,03%	1,39%	1,38%	1,04%	1,03%	1,02%	1,43%	0,99%
Synthetic rubber	0,17%	0,16%	0,15%	0,14%	0,13%	0,12%	0,11%	0,11%	0,04%	0,04%	0,03%