

iBVD

Dokument Id  
5564419918-00006  
Version  
8

Skapad  
2017-07-10  
Publicerad  
2026-03-18



Uppgiftslämnaren reserverar sig för eventuella fel i produktinformationen eller felaktigt registrerade uppgifter och förbehåller sig rätten att korrigera och/eller komplettera produktinformation utan föregående avisering

## 1 GRUNDDATA

### Varubeskrivning

Klämringsskoppling för koppar, stålrör, rostfria rör, elförzinkade stålrör, PEX-rör i dimension Dy 6-54.

### Övriga upplysningar

Användningsområde:

Tappvatten, Värmeanläggningar, Luft, Oljor, Fotogen, Bensin, Gasol, Naturgas, Kylanläggningar (kylmediet får absolut inte vara aggressivt mot mässing, vid osäkerhet kontakta oss).

Max arbetstryck: 1600 kPa (16 bar)

Max arbetstemperatur: 120°C

### Klassificeringar

|                 |  |
|-----------------|--|
| <b>ETIM</b> ›   | <ul style="list-style-type: none"> <li>-EC003024 - Rördel med 2 anslutningar</li> <li>-EC003025 - Rördel med 3 anslutningar</li> <li>-EC003099 - Ventilfäste</li> <li>-EC010170 - Förminskningsset</li> <li>-EC003023 - Rördel med 1 anslutning</li> </ul> |
| <b>BK04</b> ›   | -20503 - Metallrörkopplingar   |
| <b>BSAB</b> ›   | <ul style="list-style-type: none"> <li>-PPC.61 - Röranslutningar m m</li> <li>-PPC.64 - Proppningar av rörledning</li> </ul>   |
| <b>UNSPSC</b> › |  |

## Leverantörsuppgifter

**Företagsnamn**  
Gustavsberg AB

**Organisationsnummer**  
5564419918

**Adress**  
Odelbergs väg 11

**Hemsida**  
www.gustavsberg.se

### Miljökontaktperson

**Namn**  
Mattias Virsgård

**Telefon**  
0706381313

**E-post**  
mattias.virsgard@gustavsberg.com

## 2 HÅLLBARHETSARBETE

### Företagets certifiering

- ISO 9001
- ISO 14001
- ISO45001, ISO 50001

### Polisy och riktlinjer

## 3 INNEHÅLLSDEKLARATION

|                                   |                 |
|-----------------------------------|-----------------|
| Kemisk produkt                    | Nej             |
| Innehåller produkten elektronik   | Nej             |
| Omfattas varan av RoHS-direktivet | Nej             |
| Varans vikt                       | 0,044 - 1,66 kg |

### Vara / Delkomponenter

Koncentrationen har beräknats på hela varan

| Ingående material /komponenter  | Vikt-% i komponent | CAS-nr (alt legering) | EG-nr (alt legering) | Vikt % i produkt | Kommentar  |
|---|--------------------|-----------------------|----------------------|------------------|--|
| Mässing CW625N*<br>(CuZn35Pb1.5AlAs) Pb<br>≤1,6%, As ≤0,15%, Ni ≤<br>0,2% (*=4MS B,C) |                    | Övrigt, metaller      |                      | 70 - 90%         | 4MS-mässing som innehåller >0,1% bly, CAS nr. 7439-92-1 och som finns upptaget på den europeiska kemikaliemyndighetens (ECHA) kandidatförteckning över SVHC-ämnen. |

|  |  |                  |          |  |
|--|--|------------------|----------|--|
| Mässing CW614N*<br>(CuZn39Pb3), Pb ≤ 3,5%,<br>Ni* ≤ 0,2% (*=4MS C) |  | Övrigt, metaller | 10 - 30% | 4MS-mässing som innehåller >0,1% bly, CAS nr. 7439-92-1 och som finns upptaget på den europeiska kemikaliemyndighetens (ECHA) kandidatförteckning över SVHC-ämnen. |
|--|--|------------------|----------|--|

Del av materialinnehållet som är deklarerat

100%

### Särskilt farliga ämnen

Följande ämnen finns med på kandidatförteckningen i en koncentration och som överstiger 0,1 vikts-%:

| Namn | CAS-nr    | EG-nr     | Vikt % i produkt |
|------|-----------|-----------|------------------|
| Bly  | 7439-92-1 | 231-100-4 | ≤2,49%           |

Utgåva av kandidatförteckningen som har använts

2026-03-18

### Nanomaterial

Innehåller produkten tillsatt nanomaterial, som är medvetet tillsatta för att uppnå en viss funktion?: Nej

### Tillsatt högflourerade ämnen (PFAS)

Innehåller produkten tillsatt högflourerade ämnen (PFAS), som är aktivt tillsatta för att uppnå en specifik funktion?: Nej

### Begränsningslistan

Innehåller varan/produkten, eller någon av dess delkomponenter, ämnen som gör att produkten inte uppfyller villkoren i Begränsningslistan (Reach Bilaga XVII)?: Ja

Specification av ämnen på begränsningslistan och andel som utgörs av den totala varans vikt:

| Ingående material | CAS-nr    | Vikt % i produkt |
|-------------------|-----------|------------------|
| bly               | 7439-92-1 | ≤2,49%           |

### POPs-förordningen

Innehåller varan (eller någon av dess delkomponenter) ämnen som finns i POPs-förordningen?: Vet ej

### Övrigt

Ämnen är redovisade ned till 0,01% viktprocent enligt iBVDs redovisningskrav. Eventuell avvikelser från redovisningskraven redovisas nedan

### Kompletterande information

Klämringskopplingarna består av två olika 4 MS mässingslegeringar vars inbördes vikt varierar beroende på kopplingens storlek.

## 4

### RÅVAROR

#### Återvunnet material

Innehåller varan återvunnet material: Ja

Specifikation av vilka material och andel som utgörs av den totala varans vikt

1. Återvunnet material
2. Andel (%) av totala varans vikt
3. Andel (%) av det återvunna materialet vilket **inte** har passerat konsumentledet
4. Andel (%) av det återvunna materialet vilket har passerat konsumentledet

| 1       | 2     | 3   | 4    |
|---------|-------|-----|------|
| Mässing | 100 % | 2 % | 98 % |

#### Träråvara

Träråvara ingår i varan: Nej

## 5

### MILJÖPÅVERKAN

Finns en miljövarudeklaration framtagen enligt EN15804 eller ISO14025 för varan

Ja

Finns annan miljövarudeklaration

Nej

**Om miljövarudeklaration eller annan livscykelanalys saknas, beskriv hur miljöpåverkan av varan beaktas ur ett livscykelperspektiv**

Mässing ingår i kretsloppet, närmare 100% kan materialåtervinnas efter demontering. För att sedan smältas ned och bli till ny mässingsråvara för produktion av nya produkter.

6

**DISTRIBUTION****Beskrivning av emballagehantering för distribution av varan**

Produkterna levereras i plastpåse, större mängd i kartong gjord av wellpapp  
Företaget är anslutet till NPA.

7

**BYGGSCKEDET**

Ställer varan särskilda krav vid lagring?

Nej

Ställer varan särskilda krav på omgivande byggvaror?

Nej

8

**BRUKSSKEDET**

Finns skötselanvisningar/skötselråd?

Ja

Finns en energimärkning enligt energimärkningsdirektivet (2017/1369/EU) för varan?

Ej relevant

9

**RIVNING**

Kräver varan särskilda åtgärder för skydd av hälsa och miljö vid rivning/demontering?

Nej

10

**AVFALLSHANTERING**

Omfattas den levererade varan av förordningen (2014:1075) om producentansvar för elektriska och elektroniska produkter när den blir avfall?

Nej

Är återanvändning möjlig för hela eller delar av varan?

Ja

Kopplingshus och mutter kan återanvändas med ny klämring  
Utgör 85-95% av varans totala vikt.

Men då livslängden är minst 50 år bör produkten återvinnas i de fall produkten suttit uppe länge.

Är materialåtervinning möjlig för hela eller delar av varan?

Ja

Ja mässingen kan materialåtervinnas = 100% av produkten

Är energiåtervinning möjlig för hela eller delar av varan?

Nej

**Har leverantören restriktioner och rekommendationer för återanvändning, material- eller energiåtervinning eller deponering?** Ja

Mässingen bör materialåtervinnas

---

**När den levererade varan blir avfall, klassas den då som farligt avfall?** Nej

**Avfallskod (EWC) för den levererade varan** 170401

| RSK-nummer | Eget Artikel-nr | GTIN          |
|------------|-----------------|---------------|
| 194 01 05  | FG0310100       | 7393792000017 |
| 194 01 13  | FG0310200       | 7393792000024 |
| 194 01 21  | FG0310300       | 7393792000031 |
| 194 01 39  | FG0310400       | 7393792000048 |
| 194 01 47  | FG0310500       | 7393792000055 |
| 194 01 54  | FG0310800       | 7393792000062 |
| 194 01 62  | FG0311100       | 7393792000079 |
| 194 01 70  | FG0311500       | 7393792000086 |
| 194 02 12  | FG0310302       | 7393792000123 |
| 194 02 38  | FG0310402       | 7393792000130 |
| 194 02 53  | FG0310403       | 7393792000147 |
| 194 02 79  | FG0310502       | 7393792000154 |
| 194 02 81  | FG0321837       | 7393792008075 |
| 194 02 83  | FG0322138       | 7393792008099 |
| 194 02 87  | FG0310503       | 7393792000161 |
| 194 02 90  | FG0351837       | 7393792008068 |
| 194 02 95  | FG0310504       | 7393792000178 |
| 194 03 03  | FG0310605       | 7393792000215 |
| 194 03 37  | FG0310805       | 7393792000222 |
| 194 03 38  | FG0311105       | 7393792005920 |
| 194 03 52  | FG0311800       | 7393792000093 |
| 194 03 60  | FG0312100       | 7393792000109 |
| 194 03 78  | FG0312400       | 7393792000116 |
| 194 03 86  | FG0310603       | 7393792000192 |
| 194 03 94  | FG0310604       | 7393792000208 |
| 194 04 10  | FG0320232       | 7393792000376 |
| 194 04 12  | FG0321536       | 7393792006545 |
| 194 04 14  | FG0330536       | 7393792006286 |
| 194 04 15  | FG0331536       | 7393792006538 |
| 194 04 18  | FG0376758       | 7393792006491 |
| 194 04 19  | FG0376759       | 7393792006514 |
| 194 04 21  | FG0350536       | 7393792006194 |
| 194 04 22  | FG0351536       | 7393792006415 |
| 194 04 23  | FG0351137       | 7393792006224 |
| 194 04 24  | FG0360534       | 7393792007962 |
| 194 04 26  | FG0360536       | 7393792006200 |
| 194 04 44  | FG0320334       | 7393792000383 |
| 194 04 51  | FG0320434       | 7393792000390 |
| 194 04 69  | FG0320534       | 7393792000406 |
| 194 04 93  | FG0320335       | 7393792000420 |
| 194 05 01  | FG0320435       | 7393792000437 |
| 194 05 19  | FG0320535       | 7393792000444 |

|           |           |               |
|-----------|-----------|---------------|
| 194 05 27 | FG0320835 | 7393792000468 |
| 194 05 28 | FG0321135 | 7393792005944 |
| 194 05 35 | FG0320635 | 7393792000451 |
| 194 05 43 | FG0320536 | 7393792005937 |
| 194 05 68 | FG0320836 | 7393792000475 |
| 194 05 76 | FG0321136 | 7393792000482 |
| 194 05 77 | FG0321137 | 7393792004770 |
| 194 05 84 | FG0321537 | 7393792000499 |
| 194 07 09 | FG0321838 | 7393792000505 |
| 194 07 17 | FG0322139 | 7393792000512 |
| 194 07 25 | FG0322440 | 7393792000529 |
| 194 09 07 | FG0330334 | 7393792002325 |
| 194 09 15 | FG0330434 | 7393792002332 |
| 194 09 23 | FG0330534 | 7393792002349 |
| 194 09 56 | FG0330335 | 7393792002363 |
| 194 09 64 | FG0330435 | 7393792002370 |
| 194 09 72 | FG0330535 | 7393792002387 |
| 194 09 80 | FG0330835 | 7393792002394 |
| 194 10 20 | FG0330836 | 7393792002400 |
| 194 10 38 | FG0331136 | 7393792002417 |
| 194 10 46 | FG0331537 | 7393792002424 |
| 194 10 61 | FG0331135 | 7393792004688 |
| 194 11 03 | FG0331838 | 7393792002431 |
| 194 11 11 | FG0332139 | 7393792002448 |
| 194 11 29 | FG0332440 | 7393792002455 |
| 194 14 18 | FG0340200 | 7393792000604 |
| 194 14 26 | FG0340300 | 7393792000611 |
| 194 14 34 | FG0340400 | 7393792000628 |
| 194 14 42 | FG0340500 | 7393792000635 |
| 194 14 59 | FG0340800 | 7393792000642 |
| 194 14 67 | FG0341100 | 7393792000659 |
| 194 14 75 | FG0341500 | 7393792000666 |
| 194 15 58 | FG0340403 | 7393792000703 |
| 194 15 74 | FG0340504 | 7393792000710 |
| 194 15 82 | FG0340605 | 7393792000727 |
| 194 16 40 | FG0341800 | 7393792000673 |
| 194 16 57 | FG0342100 | 7393792000680 |
| 194 16 65 | FG0342400 | 7393792000697 |
| 194 19 13 | FG0350232 | 7393792001458 |
| 194 19 47 | FG0350334 | 7393792001465 |
| 194 19 54 | FG0350434 | 7393792001472 |
| 194 20 10 | FG0350435 | 7393792001496 |
| 194 20 28 | FG0350535 | 7393792001502 |
| 194 20 36 | FG0350835 | 7393792001519 |
| 194 20 77 | FG0350836 | 7393792001526 |
| 194 20 85 | FG0351136 | 7393792001533 |

|           |             |               |
|-----------|-------------|---------------|
| 194 20 93 | FG0351537   | 7393792001540 |
| 194 21 01 | FG0351838   | 7393792001557 |
| 194 21 19 | FG0352139   | 7393792001564 |
| 194 21 27 | FG0352440   | 7393792001571 |
| 194 24 16 | FG0360434   | 7393792001625 |
| 194 24 73 | FG0360435   | 7393792001649 |
| 194 24 81 | FG0360535   | 7393792001656 |
| 194 24 99 | FG0360835   | 7393792001663 |
| 194 25 23 | FG0360836   | 7393792001670 |
| 194 25 31 | FG0361136   | 7393792001687 |
| 194 25 49 | FG0361537   | 7393792001694 |
| 194 25 72 | FG0361838   | 7393792001700 |
| 194 25 80 | FG0362139   | 7393792001717 |
| 194 25 98 | FG0362440   | 7393792001724 |
| 194 27 70 | FG0371800   | 7393792000888 |
| 194 27 88 | FG0372100   | 7393792000895 |
| 194 27 96 | FG0372400   | 7393792000901 |
| 194 28 04 | FG0370100   | 7393792000802 |
| 194 28 12 | FG0370200   | 7393792000819 |
| 194 28 20 | FG0370300   | 7393792000826 |
| 194 28 38 | FG0370400   | 7393792000833 |
| 194 28 46 | FG0370500   | 7393792000840 |
| 194 28 53 | FG0370800   | 7393792000857 |
| 194 28 61 | FG0371100   | 7393792000864 |
| 194 28 79 | FG0371500   | 7393792000871 |
| 194 31 25 | FG0370405   | 7393792000970 |
| 194 32 16 | FG0370550   | 7393792001021 |
| 194 32 24 | FG0370551   | 7393792001052 |
| 194 32 40 | FG0370504   | 7393792001038 |
| 194 32 65 | FG0370511   | 7393792001076 |
| 194 34 71 | FG0370805   | 7393792001120 |
| 194 35 47 | FG0371153   | 7393792001168 |
| 194 35 54 | FG0371151   | 7393792001212 |
| 194 36 04 | FG0371104   | 7393792001151 |
| 194 36 12 | FG0371105   | 7393792001175 |
| 194 36 53 | FG0371511   | 7393792001243 |
| 194 45 03 | FG037060509 | 7393792003926 |
| 194 48 67 | FG0376654   | 7393792001816 |
| 194 49 41 | FG0376753   | 7393792001823 |
| 194 49 66 | FG0376754   | 7393792001830 |
| 194 50 54 | FG0397052   | 7393792002547 |
| 194 53 93 | FG0395056   | 7393792006392 |
| 194 57 32 | FG0395103   | 7393792004046 |
| 194 57 40 | FG0395104   | 7393792004053 |
| 194 57 57 | FG0395105   | 7393792004060 |
| 194 57 65 | FG0395108   | 7393792004077 |

|           |             |               |
|-----------|-------------|---------------|
| 194 57 73 | FG0395111   | 7393792004084 |
| 194 57 81 | FG0395115   | 7393792004091 |
| 194 64 74 | FG0398050   | 7393792004824 |
| 194 64 75 | FG0398052   | 7393792004817 |
| 194 64 76 | FG0398053   | 7393792004800 |
| 194 64 82 | FG0398051   | 7393792004831 |
| 194 70 13 | FG031110009 | 7393792002837 |
| 194 70 14 | FG031150009 | 7393792002844 |
| 194 76 72 | FG0340503   | 7393792104975 |
| 196 23 49 | FG0352138   | 7391530090740 |
| 196 23 50 | FG0322439   | 7391530090818 |
| 196 23 51 | FG0332439   | 7391530090757 |

**Produktdatablad**

**Prestandadeklaration**

**Säkerhetsblad**

**RoHs-intyg**

**Miljövarudeklaration**      EPD\_0000670.pdf

**Skötselansvisning**      KOPPLING rak.pdf

**Övriga bifogade dokument**

---

# Environmental Product Declaration



In accordance with ISO 14025:2006 and EN 15804:2012+A2:2019/AC:2021 for:

## Fittings and ball valves

EPD of multiple products, based on the average results of the product group of fittings and ball valves

from

**Vatette**



|                          |   |
|--------------------------|---|
| Programme:               | The International EPD® System, <a href="http://www.environdec.com">www.environdec.com</a> |
| Programme operator:      | EPD International AB  |
| EPD registration number: | EPD-IES-0017898   |
| Publication date:        | 2025-05-27  |
| Valid until:             | 2030-05-27  |

*An EPD should provide current information and may be updated if conditions change. The stated validity is therefore subject to the continued registration and publication at [www.environdec.com](http://www.environdec.com)*



## General information

### Programme information

|                   |   |
|-------------------|---|
| <b>Programme:</b> | The International EPD® System                                       |
| <b>Address:</b>   | EPD International AB<br>Box 210 60<br>SE-100 31 Stockholm<br>Sweden |
| <b>Website:</b>   | <a href="http://www.environdec.com">www.environdec.com</a>          |
| <b>E-mail:</b>    | <a href="mailto:info@environdec.com">info@environdec.com</a>        |

|  |
|--|
| <b>Accountabilities for PCR, LCA and independent, third-party verification</b>   |
| <b>Product Category Rules (PCR)</b>  |
| CEN standard EN 15804 serves as the Core Product Category Rules (PCR)  |
| Product Category Rules (PCR): Construction Products 2019:14, Version 1.3.2 and EN 15804:2012+A2:2019 Sustainability of Construction Works  |
| PCR review was conducted by: The Technical Committee on the International EPD® System.<br>Contact via <a href="http://www.environdec.com">www.environdec.com</a> <a href="mailto:info@environdec.com">info@environdec.com</a>  |
| <b>Life Cycle Assessment (LCA)</b>   |
| LCA accountability: Alexander Kyriakidis, AFRY, <a href="http://www.afry.com">www.afry.com</a>   |
| <b>Third-party verification</b>  |
| Independent third-party verification of the declaration and data, according to ISO 14025:2006, via:<br><input checked="" type="checkbox"/> EPD verification by individual verifier<br><br>Third-party verifier: Katrin Molina-Besch. Miljögiraff AB<br><br>Approved by: The International EPD® System<br><br>Procedure for follow-up of data during EPD validity involves third party verifier:<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |

The EPD owner has the sole ownership, liability, and responsibility for the EPD.

EPDs within the same product category but registered in different EPD programmes, or not compliant with EN 15804, may not be comparable. For two EPDs to be comparable, they must be based on the same PCR (including the same version number) or be based on fully-aligned PCRs or versions of PCRs; cover products with identical functions, technical performances and use (e.g. identical declared/functional units); have equivalent system boundaries and descriptions of data; apply equivalent data quality requirements, methods of data collection, and allocation methods; apply identical cut-off rules and impact assessment methods (including the same version of characterisation factors); have equivalent content declarations; and be valid at the time of comparison. For further information about comparability, see EN 15804 and ISO 14025.

### Company information

Owner of the EPD:

Villeroy & Boch Gustavsberg AB  
Odelbergs väg 11  
134 40 Gustavsberg  
Tel: +46 8-570 391 00

Contact:

Mattias Virsgård

Description of the organisation:

Vatette is owned by Villeroy & Boch Gustavsberg, which head office is situated on Värmdö, just outside Stockholm, Sweden, and we have production facilities in Gustavsberg and Vårgårda, Sweden. In addition to our production facilities in Sweden, we also have sales offices around the Nordic countries and in the Baltics. The company is a wholly owned subsidiary of the German Villeroy & Boch AG Group and thus belongs to one of the largest manufacturers of bathroom furnishing solutions in Europe.

Product-related or management system-related certifications:

SS-EN ISO 9001:2015 – Quality Management System  
SS-EN ISO 14001:2015 – Environmental Management System  
SS-EN ISO 45001:2018 – Occupational Health and Safety Management Systems  
SS-EN ISO 50001:2018 – Energy Management System  
EMAS, Eco Management and Audit Scheme – register, Site Vårgårda

Name and location of production site(s):

Villeroy & Boch Gustavsberg AB, Vårgårda, Sweden

## **Product information**

Product name:

Vatette fittings

Product identification: All Vatette's fittings as presented in table under "Other environmental performance indicators "

Product description:

Vatette Clamp ring fittings consists of screw part, clamping ring and nut for copper pipes, stainless and galvanized steel pipes and PEX pipes in the dimension range Dy6-54. All products with Vatette end can be completed with connection sets for different pipe types, e.g. Vatette Plast and Vatette PE that fit Vatette Wall tiles etc. Some fittings exist in a chromed variant and unchromed

The results are presented for an average product. The average product is calculated as an arithmetic mean by assuming an uniform distribution between all included products.

UN CPC code:

41516 - Tubes, pipes and tube or pipe fittings, of copper

Geographical scope:

Northern Europe and the Baltic region

## **LCA information**

Functional unit / declared unit:

1kg

Reference service life:

No RSL is declared. This EPD is based on a cradle-to-gate assessment

Time representativeness:

The information underlying this EPD is taken from the reference year 2023, taking into account inputs and outputs for the whole calendar year.

Database(s) and LCA software used:

Ecoinvent 3.10, Industry Data 2.0, ELCD and SimaPro 9.6.0.1

Description of system boundaries:

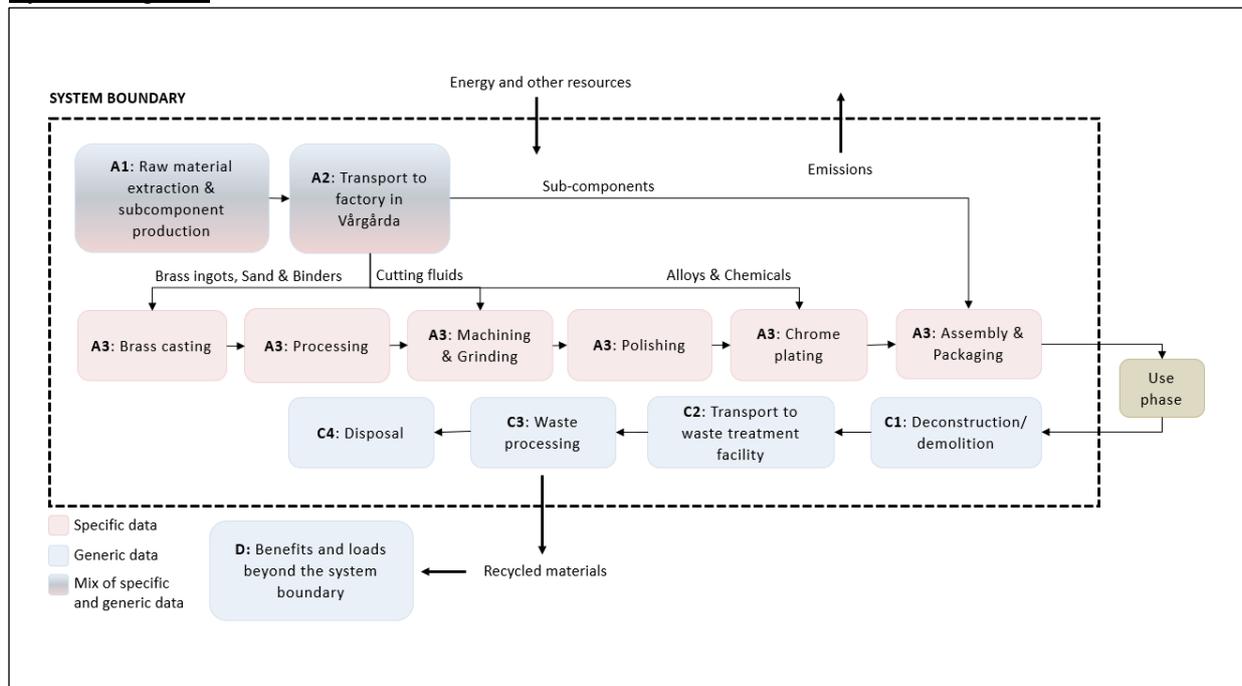
Cradle to gate with modules C1–C4 and module D (A1–A3 + C + D)

Allocation:

The "polluter pays principle" has been used to allocate recycled materials in accordance with the standards used. The recycling of materials does not imply benefits for the system, and the effects of using recycled materials do not have a negative impact on the results, but rather an environmental gain. The allocation procedure applied is based on the cut-off approach, where the environmental burdens associated with recycling processes are attributed to the previous product system, while the recycled material enters the system burden-free.

According to data provided by the supplier, the product system includes 64% post-industrial recycled content and 13% post-consumer recycled content. No co-product allocation is applied.

System diagram:



More information:

Modules declared, geographical scope, share of specific data (in GWP-GHG results) and data variation (in GWP-GHG results):

| Module               | Product stage  |           |               | Construction process stage |                           | Use stage |             |        |             |               |                        |                       | End of life stage          |           |                  |          | Resource recovery stage            |
|----------------------|--|-----------|---------------|----------------------------|---------------------------|-----------|-------------|--------|-------------|---------------|------------------------|-----------------------|----------------------------|-----------|------------------|----------|------------------------------------|
|                      | Raw material supply                                      | Transport | Manufacturing | Transport                  | Construction installation | Use       | Maintenance | Repair | Replacement | Refurbishment | Operational energy use | Operational water use | De-construction demolition | Transport | Waste processing | Disposal | Reuse-Recovery-Recycling-potential |
|                      | A1   | A2        | A3            | A4                         | A5                        | B1        | B2          | B3     | B4          | B5            | B6                     | B7                    | C1                         | C2        | C3               | C4       | D                                  |
| Modules declared     | X  | X         | X             | ND                         | ND                        | ND        | ND          | ND     | ND          | ND            | ND                     | ND                    | X                          | X         | X                | X        | X                                  |
| Geography            | GLO  | GLO       | SE            |                            |                           |           |             |        |             |               |                        |                       | EUR                        | EUR       | EUR              | EUR      |                                    |
| Specific data used   | 36% of the total GWP-GHG impact stems from specific data |           |               |                            |                           |           | -           | -      | -           | -             | -                      | -                     | -                          | -         | -                | -        | -                                  |
| Variation – products | +8%  |           |               |                            |                           |           | -           | -      | -           | -             | -                      | -                     | -                          | -         | -                | -        | -                                  |

### A1: Raw Material

This stage includes raw material extraction and production of bought components. The total input of recycled brass and zinc is 85%. To account for this, the amount of brass and zinc input has been reduced by 25% for 70% of the recycled material, based on supplier communications, and 40% for 30% of the recycled material, based on national recycling profiles where a supplier-specific number could not be found. These values reflect the post-consumer share of recycled material, whereas no action was taken to specifically represent the post-industrial share – it was conservatively assumed to cause the same impact as virgin material extraction. This gives a total input reduction of 25.1%.

### A2: Transport

This stage includes transportation of raw materials to production sites and of components to final site of assembly.

### A3: Manufacturing

This stage includes resource use in the manufacturing facility in Vårgårda such as use of energy. It also includes treatment of waste generated from the manufacturing processes. The manufacturing includes casting, chrome plating, assembling, and packing. Data from the full year of 2023 has been used in the calculations.

The climate impact of the electricity mix is 13.4 gCO<sub>2</sub>-eq/kWh.

**C1: Deconstruction**

No impacts are assumed to be associated with the deconstruction phase.

**C2: Waste Transport**

Includes the transportation of the discarded product to a waste treatment facility. 100 km transportation is assumed.

**C3: Waste Processing**

This stage includes sorting of waste and waste incineration with energy recovery. Incineration is assumed for plastics, 95% of the brass is assumed to be recycled, other metals are assumed to have a recycling rate of 90%

**C4: Waste disposal**

This stage includes waste disposal processes, such as landfill.

**D: Benefits and loads outside the system boundary**

This stage includes benefits and burdens associated with recovery/recycling that affects future life cycles. For this product it includes benefits from the recycling of brass and metals, as well as energy recovery from waste incineration

## Content information

| Product components  | Weight, g | Post-consumer material, weight-% | Biogenic material, weight-% and kg C/kg |
|---------------------|-----------|----------------------------------|---|
| Brass               | 993       | 35%                              |   |
| EPDM                | 1.1       |                                  |   |
| PES                 | 0.6       |                                  |   |
| PA6                 | 4.2       |                                  |   |
| Stainless steel     | 0.7       |                                  |   |
| TOTAL               | 1000      |                                  |   |
| Packaging materials | Weight, g | Weight-% (versus the product)    | Weight biogenic carbon, kg C/kg         |
| Cardboard           | 20.7      | 0.2%                             | 0.011                                   |
| Plastic bag         | 4.19      | 0.4%                             |   |
| TOTAL               |           |                                  |   |

The weighted average content is calculated as an arithmetic mean by assuming a uniform distribution between all included products.

| Dangerous substances from the candidate list of SVHC for Authorisation | EC No.    | CAS No.   | Weight-% per functional or declared unit |
|--|-----------|-----------|--|
| Lead   | 231-100-4 | 7439-92-1 | 0.05 - <0.8*                             |

\* Lead free products contain maximum 0.1% lead while products with conventional brass contain <0.8% lead.

## Results of the environmental performance indicators

### Mandatory impact category indicators according to EN 15804

| Results per functional or declared unit |   |          |          |          |          |          |           |
|---|---|----------|----------|----------|----------|----------|-----------|
| Indicator                               | Unit  | A1-A3    | C1       | C2       | C3       | C4       | D         |
| GWP-fossil                              | kg CO <sub>2</sub> eq.  | 9.61E+00 | 0.00E+00 | 1.90E-02 | 1.48E-02 | 1.15E-03 | -4.15E-01 |
| GWP-biogenic                            | kg CO <sub>2</sub> eq.  | 9.35E-02 | 0.00E+00 | 1.32E-05 | 2.64E-05 | 9.19E-07 | -2.11E-03 |
| GWP-luluc                               | kg CO <sub>2</sub> eq.  | 3.16E-02 | 0.00E+00 | 6.31E-06 | 2.30E-06 | 5.02E-07 | -8.56E-04 |
| GWP-total                               | kg CO <sub>2</sub> eq.  | 9.74E+00 | 0.00E+00 | 1.90E-02 | 1.49E-02 | 1.15E-03 | -4.18E-01 |
| ODP                                     | kg CFC 11 eq.   | 1.15E-07 | 0.00E+00 | 3.78E-10 | 2.01E-11 | 2.43E-11 | -3.97E-09 |
| AP                                      | mol H <sup>+</sup> eq.  | 6.24E-01 | 0.00E+00 | 3.96E-05 | 8.29E-06 | 6.63E-06 | -2.91E-02 |
| EP-freshwater                           | kg P eq.  | 4.96E-02 | 0.00E+00 | 1.29E-06 | 7.31E-07 | 1.28E-07 | -2.32E-03 |
| EP-marine                               | kg N eq.  | 3.34E-02 | 0.00E+00 | 9.51E-06 | 2.48E-06 | 2.93E-06 | -1.54E-03 |
| EP-terrestrial                          | mol N eq.   | 4.53E-01 | 0.00E+00 | 1.03E-04 | 2.53E-05 | 2.80E-05 | -2.11E-02 |
| POCP                                    | kg NMVOC eq.  | 1.29E-01 | 0.00E+00 | 6.58E-05 | 7.06E-06 | 9.53E-06 | -5.93E-03 |
| ADP-minerals&metals*                    | kg Sb eq.   | 8.59E-03 | 0.00E+00 | 6.18E-08 | 1.10E-08 | 3.20E-09 | -4.04E-04 |
| ADP-fossil*                             | MJ  | 1.02E+02 | 0.00E+00 | 2.22E-02 | 1.29E-02 | 2.34E-03 | -2.95E+00 |
| WDP*                                    | m <sup>3</sup>  | 1.14E+01 | 0.00E+00 | 1.11E-03 | 6.68E-04 | 5.11E-04 | -4.86E-01 |
| Acronyms                                | GWP-fossil = Global Warming Potential fossil fuels; GWP-biogenic = Global Warming Potential biogenic; GWP-luluc = Global Warming Potential land use and land use change; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential, Accumulated Exceedance; EP-freshwater = Eutrophication potential, fraction of nutrients reaching freshwater end compartment; EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment; EP-terrestrial = Eutrophication potential, Accumulated Exceedance; POCP = Formation potential of tropospheric ozone; ADP-minerals&metals = Abiotic depletion potential for non-fossil resources; ADP-fossil = Abiotic depletion for fossil resources potential; WDP = Water (user) deprivation potential, deprivation-weighted water consumption |          |          |          |          |          |           |

\* Disclaimer: The results of this environmental impact indicator shall be used with care as the uncertainties of these results are high or as there is limited experience with the indicator.

## Additional mandatory and voluntary impact category indicators

| Results per functional or declared unit |                        |          |          |          |          |          |           |
|---|------------------------|----------|----------|----------|----------|----------|-----------|
| Indicator                               | Unit                   | A1-A3    | C1       | C2       | C3       | C4       | D         |
| GWP-GHG <sup>1</sup>                    | kg CO <sub>2</sub> eq. | 9.65E+00 | 0.00E+00 | 1.90E-02 | 1.48E-02 | 1.15E-03 | -4.16E-01 |

## Resource use indicators

| Results per functional or declared unit |  |          |          |          |           |          |           |
|---|--|----------|----------|----------|-----------|----------|-----------|
| Indicator                               | Unit   | A1-A3    | C1       | C2       | C3        | C4       | D         |
| PERE                                    | MJ   | 1.14E+01 | 0.00E+00 | 4.59E-03 | 4.73E-03  | 3.59E-04 | -1.49E+00 |
| PERM                                    | MJ   | 3.50E-01 | 0.00E+00 | 0.00E+00 | -3.50E-01 | 0.00E+00 | 0.00E+00  |
| PERT                                    | MJ   | 1.18E+01 | 0.00E+00 | 4.59E-03 | -3.45E-01 | 3.59E-04 | -1.49E+00 |
| PENRE                                   | MJ   | 4.86E+01 | 0.00E+00 | 2.32E-02 | 1.33E-02  | 2.45E-03 | -3.08E+00 |
| PENRM                                   | MJ   | 1.93E-01 | 0.00E+00 | 0.00E+00 | -1.93E-01 | 0.00E+00 | 0.00E+00  |
| PENRT                                   | MJ   | 4.88E+01 | 0.00E+00 | 2.32E-02 | -1.79E-01 | 2.45E-03 | -3.08E+00 |
| SM                                      | kg   | 2.49E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00  | 0.00E+00 | 0.00E+00  |
| RSF                                     | MJ   | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00  | 0.00E+00 | 0.00E+00  |
| NRSF                                    | MJ   | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00  | 0.00E+00 | 0.00E+00  |
| FW                                      | m <sup>3</sup>   | 6.14E-02 | 0.00E+00 | 3.95E-05 | 5.30E-06  | 3.58E-05 | -1.56E-02 |
| Acronyms                                | 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 re-sources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Use of net fresh water |          |          |          |           |          |           |

<sup>1</sup> This indicator accounts for all greenhouse gases except biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. As such, the indicator is identical to GWP-total except that the CF for biogenic CO<sub>2</sub> is set to zero.

## Waste indicators

| Results per functional or declared unit |      |          |          |          |          |          |          |
|---|------|----------|----------|----------|----------|----------|----------|
| Indicator                               | Unit | A1-A3    | C1       | C2       | C3       | C4       | D        |
| Hazardous waste disposed                | kg   | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Non-hazardous waste disposed            | kg   | 9.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Radioactive waste disposed              | kg   | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

## Output flow indicators

| Results per functional or declared unit |      |          |          |          |          |          |          |
|---|------|----------|----------|----------|----------|----------|----------|
| Indicator                               | Unit | A1-A3    | C1       | C2       | C3       | C4       | D        |
| Components for re-use                   | kg   | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Material for recycling                  | kg   | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Materials for energy recovery           | kg   | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Exported energy, electricity            | MJ   | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Exported energy, thermal                | MJ   | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

## Other environmental performance indicators

| Indicator                               | Variation (A-C) |
|---|-----------------|
| Climate change                          | 8%              |
| Climate change - Fossil                 | 8%              |
| Climate change - Biogenic               | 39%             |
| Climate change - Land use and LU change | 46%             |
| Ozone depletion                         | 115%            |
| Acidification                           | 6%              |
| Eutrophication, freshwater              | 6%              |
| Eutrophication, marine                  | 5%              |
| Eutrophication, terrestrial             | 5%              |
| Photochemical ozone formation           | 5%              |
| Resource use, minerals and metals       | 6%              |
| Resource use, fossils                   | 39%             |
| Water use                               | 13%             |
| Particulate matter                      | 6%              |
| Ionising radiation                      | 73%             |
| Ecotoxicity, freshwater                 | 6%              |
| Human toxicity, cancer                  | 6%              |
| Human toxicity, non-cancer              | 6%              |
| Land use                                | 6%              |
| Non renewable                           | 38%             |
| Renewable                               | 20%             |
| Fresh water                             | 6%              |

## Additional environmental information



THE INTERNATIONAL EPD® SYSTEM

---

With over 50 years of experience and a complete product range, System Vatette is a long-term supplier of tap water systems with a strong focus on the environment and sustainability. The obvious choice for HVAC-installers. By using common components, the number of articles is reduced, and tap water systems can easily be updated over time, contributing to a more resource-efficient and environmentally friendly installation.

All products are approved according to Säker Vatten and Rise, which underlines our commitment to the highest quality and safety.

Quality and environmental awareness are central to the entire organization, from material selection to production. Every employee is proud and committed, aware of their crucial role in creating sustainable and environmentally friendly tap water system solutions.

## References

EPD International (2021): General Programme Instructions of the International EPD® System. Version 4.0.

EPD International (2023): PCR 2019:14. Construction products 2019:14. Version 1.3.2

Ecoinvent v.3. Wernet, G., Bauer, C., Steubing, B., Reinhard, J., Moreno-Ruiz, E., and Weidema, B. (2016): The ecoinvent database version 3 (part I): overview and methodology. The International Journal of Life Cycle Assessment, [online] 21(9), pp.1218–1230. Available at: <<http://link.springer.com/10.1007/s11367-016-1087-8>>

Folkesson, B., Fernqvist, N., Normann, A. (2017): Vattenanvändning med energieffektiva blandare. Report 2017:11, Swedish Energy Agency.

Näslund, J. (2024): Life Cycle Assessment of Vatette fittings

SimaPro. SimaPro LCA Package, Pré Consultants, the Netherlands, [www.pre-sustainability.com](http://www.pre-sustainability.com)



# KOPPLING RAK



## Produktegenskaper

Dy6 x Dy6 (förminskning), för koppar-, rostfria-, elförzinkade- och PEX-rör

RSK-nr: 1940105 | ART-nr: FG0310100 | EAN-nr: 7393792000017

- För kopparrör, rostfria- och elförzinkade stålrör och PEX-rör
- Samtliga produkter med Vatette-ända kan kompletteras med kopplingsset för olika rörtyper
- Kopplingarna är försmorda

## Produktinformation

### Egenskaper

- Vatette Klämringskoppling består av skruvdel, klämring och mutter. För kopparrör, rostfria- och elförzinkade stålrör och PEX-rör
- Kopplingarna är försmorda och kräver normalt ingen ytterligare smörjning
- Lättrade rörgångor på raka kopplingar med planända (typ 1136)
- Samtliga produkter med Vatette-ända kan kompletteras med kopplingsset för olika rörtyper
- Vattenberörda delar samt muttrar (märkta med CR) är av typgodkänd avzinkningshärdig mässing

