Environmental Product Declaration (EPD)

Declaration code EPD-VSP-GB-67.0

Viega GmbH & Co. KG

connecting technology

Sanpress press connectors and pipes

Basis:

DIN EN ISO 14025
EN 15804 + A2

Company EPD
Environmental
Product **D**eclaration

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Declaration holder	Viega GmbH & Co. KG Viega Platz 1 57439 Attendorn. Germany www.viega.de		
Declaration code	EPD-VSP-GB-67.0		
Designation of declared product	Sanpress press connectors and pipes		
Scope	Connecting and fitting technology for use in piping systems.		
Basis	This EPD was prepared on the basis of EN ISO 14025:2011 and DIN EN 15804:2012+A2:2019. In addition. the "Allgemeiner Leitfaden zur Erstellung von Typ III Umweltproduktdeklarationen" (General guideline for preparation of Type III Environmental Product Declarations) applies. The declaration is based on the PCR documents “PCR Part A” PCR-A-0.3:2018 and “Piping systems including connecting and fitting technology” PCR-RS-1.0:2022.		
Validity	Publication date: 18.12.2023	Last revision: 29.10.2025	Valid until: 18.12.2028
	This verified Company Environmental Product Declaration (company EPD) applies solely to the specified products and is valid for a period of five years from the date of publication in accordance with DIN EN 15804.		
LCA Basis	The LCA was prepared in accordance with DIN EN ISO 14040 and DIN EN ISO 14044. The base data includes the data collected at one production plant of Viega GmbH & Co. KG. and the generic data derived from the Ecoinvent 3 data base (v3.8 with aggregated inputs) and Ecoinvent EN 15804. LCA calculations were carried out for the included “cradle to grave” including all upstream chains (e.g. raw material extraction. etc.).		
Notes	The ift-Guidance Sheet “Conditions and Guidance for the Use of ift Test Documents” applies. The declaration holder assumes full liability for the underlying data. certificates and verifications.		

Christoph Seehauser Deputy Head of Sustainability	Dr. Torsten Mielecke Chairman of Expert Committee ift-EPD and PCR	Prof. Dr. Eric Brehm External verifier

1 General Product Information

Product definition

The EPD relates to the product group connecting technology and applies to:

1 kg Sanpress press connector and 1 linear metre Sanpress pipe of company Viega GmbH & Co. KG

These are divided into the following product groups:

Product group (PG)		Unit weight
PG1	Sanpress	0.022 - 5.355 kg
PG2	Sanpress LF	0.0394 - 5.200 kg
PG3	Sanpress pipe	0.266 - 5.202 kg

*The respective conversion values can be found in Annex B.

Table 1 Product groups*

The declared unit is obtained by summing up:

PG	Assessed product	Unit weight	Declared unit
1	Weighted average	177.05 g[1]	1 kg
2	Adapter with SC (Item no. 430863)	39.35 g[1]	1 kg
3	Sanpress pipe (Item no. 354848)	4.653.00 g[1]	1 linear metre

[1]A conversion for different unit weights/length weights is possible by dividing the results by the balanced unit weight/length weight and multiplying them by the respective unit weight/length weight from Annex B.

Table 2 Functional unit per reference product

Averaging is explained in the background report.

The average unit is declared as follows:
Directly used material flows are determined by means of manufactured masses (kg) and allocated to the declared unit. All other inputs and outputs in the production were scaled to the declared unit in their entirety since there is no typical functional unit due to the high number of variants. The reference period is the year 2022.

The validity of the EPD is restricted to the systems listed in *The respective conversion values can be found in Annex B.
Table 1.

Product description

Sanpress
Flow-optimized press connector system with press connectors made of gunmetal or silicon bronze (change of material due to the current production changeover from gunmetal to silicon bronze alloy standardised for Viega worldwide) and pipes made of stainless steel 1.4401 and 1.4521. The press connector features a cylindrical pipe guide to protect the sealing element. Press connector sizes ranging from d76.1 diameter with stainless steel cutting ring to ensure the mechanical strength of the connection. Pipes are fitted with pipe plugs for protection. The pressing force is applied in front and behind the sealing element seat. Suitable for wall mounting and concealed applications of risers and storey installations.

Sanpress LF
Flow-optimized press connector system with press connectors made of gunmetal or silicon bronze (change of material due to the current production changeover from gunmetal to silicon bronze alloy standardised for Viega worldwide) and pipes made of stainless steel 1.4401 and 1.4521. Free from paint wetting impairing substances (labs-free) such as: Silicone. grease or oil. Particularly suitable for use in pipe installations in paint shops. The press connector features a cylindrical pipe guide to protect the sealing element. Press connector sizes ranging from d76.1 diameter with stainless steel cutting ring to ensure the mechanical strength of the connection. Pipes are fitted with pipe plugs for protection. The pressing force is applied in front and behind the sealing element seat. Suitable for wall mounting and concealed applications of risers and storey installations.

For a detailed product description refer to the manufacturer specifications or the product specifications of the respective offer/quotation.

Product manufacture

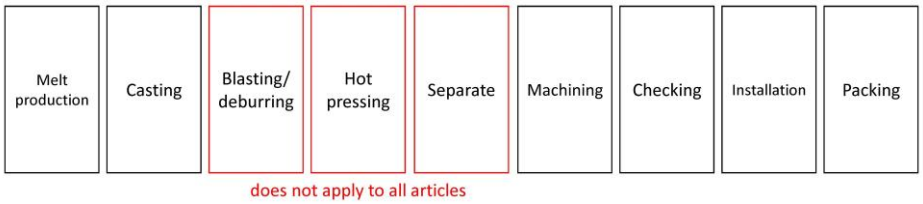


Illustration 1 Manufacturing process

Note: Depending on the product type. not all production steps are carried out.

Application

- Drinking water
- Rainwater
- Compressed air systems
- Agriculture
- Industrial applications

Test evidence / reports

For information on updated verifications (incl. other national approvals) refer to Sanpress | viega.de.

Management systems

The following management systems are held:

- Quality management system as per DIN EN ISO 9001:2015
- Energy management system as per DIN EN ISO 50001:2018
- Environmental management system as per DIN EN ISO 14001:2015
- Occupational health and safety management system as per DIN EN ISO 45001:2018

Additional information

For additional verifications of applicability or conformity refer to the CE marking and the documents accompanying the product. if applicable.

2 Materials used

Primary materials

The raw materials used can be found in Section 6.2 Inventory analysis (Inputs).

Declarable substances

Substances according to REACH candidate list are included (declaration of 04.10.2023). Further information on the listed substance and the corresponding SCIP number are available on request from the manufacturer.

All relevant safety data sheets are available from Viega GmbH & Co. KG.

3 Construction process stage

Processing recommendations. installation

Observe the instructions for assembly/installation. operation. maintenance and disassembly. provided by the manufacturer. For this. see www.viega.de

4 Use stage

Emissions to the environment

No emissions to indoor air. water and soil are known. There may be VOC emissions. There is no contact with the indoor/outdoor air.

Reference service life (RSL)

The RSL information was provided by the manufacturer. The RSL must be established under specified reference conditions of use and relate to the declared technical and functional performance of the product within the building. It must be determined according to all specific rules given in European product standards or. if none are available. according to a c-PCR. It must also take into account ISO 15686-1. -2. -7 and -8. If there is guidance on deriving RSLs from European Product Standards or a c-PCR. then such guidance must take precedence.
If it is not possible to determine the service life as the RSL in accordance with ISO 15686. the BBSR table “Nutzungsdauer von Bauteilen zur Lebenszyklusanalyse nach BNB” (service life of building components for life cycle assessment in accordance with the sustainable construction evaluation system) can be used. For further information and explanations refer to www.nachhaltigesbauen.de.

For this EPD the following applies:
For a "cradle to grave" EPD and Module D (A + B + C + D). a reference service life (RSL) must be specified.
The service life for Sanpress press connectors and pipes of company Viega GmbH & Co. KG is specified as 50 years according to the manufacturer.

The service life is dependent on the characteristics of the product and in-use conditions. The conditions and characteristics described in the EPD are applicable. in particular the characteristics listed below:

- Outdoor environment: Climatic influences may have a negative impact on the service life.

- Indoor environment: No impacts (e.g. humidity. temperature) known that have a negative effect on the service life.

The service life solely applies to the characteristics specified in this EPD or the corresponding references.
The RSL does not reflect the actual life time. which is usually determined by the service life and the redevelopment of a building. It does not give any information on the useful life. warranty referring to performance characteristics or guarantees.

5 End-of-life stage

Possible end-of-life stages

Sanpress press connectors and pipes are sent to central collection points. There the products are usually shredded and sorted into their constituents. The end-of-life stage depends on the site where the products are used and is therefore subject to the local regulations. Observe the locally applicable regulatory requirements.

In this EPD. the modules of after-use are presented according to the market situation. Metal and plastics are recycled to certain parts. Residual fractions are sent to landfill or. in part. thermally recycled.

Disposal routes

The LCA includes the average disposal routes.

All life cycle scenarios are detailed in the Annex.

6 Life Cycle Assessment (LCA)

Environmental product declarations are based on life cycle assessments (LCAs) which use material and energy flows for the calculation and subsequent representation of environmental impacts.

As a basis for this. life cycle assessments were prepared for Sanpress press connectors and pipes. These LCAs are in conformity with the requirements set out in DIN EN 15804 and the international standards DIN EN ISO 14040. DIN EN ISO 14044. ISO 21930 and EN ISO 14025.

The LCA is representative of the products presented in the Declaration and the specified reference period.

6.1 Definition of goal and scope

Aim

The goal of the LCA is to demonstrate the environmental impacts of the products. In accordance with DIN EN 15804. the environmental impacts covered by this Environmental Product Declaration are presented for the entire product life cycle in the form of basic information. No other additional environmental impacts are specified.

Data quality. data availability and geographical and time-related system boundaries	The specific data originate exclusively from the 2022 fiscal year. They were collected on-site at the plant located in Ennest and originate in parts from company records and partly from values directly obtained by measurement. Generic data are selected as accurately as possible in terms of geographic reference. If no country-specific data sets are available or if the regional reference cannot be determined. European or globally valid data sets are used. Data gaps were either filled with comparable data or conservative assumptions. or the data were cut off in compliance with the 1% rule. The life cycle was modelled using the sustainability software tool “Umberto 11” for the development of life cycle assessments. The data quality complies with the requirements of prEN 15941:2022.
Scope / system boundaries	The system boundaries refer to the supply of raw materials and purchased parts. manufacture/production. use and end-of-life stage of the Sanpress press connectors and pipes. No additional data from pre-suppliers/subcontractors or other sites were taken into consideration.
Cut-off criteria	All company data collected. i.e. all commodities/input and raw materials used. the thermal energy and electricity consumption. were taken into consideration. The boundaries cover only the product-relevant data. Building sections/parts of facilities that are not relevant to the manufacture of the products. were excluded. The transport distances of the pre-products used were taken into consideration as a function of 100% of the mass of the products. The following means of transport was assumed: >32 t truck/semitrailer. Euro 6. diesel. 53 % capacity utilization Other transport distances of the pre-products were not taken into consideration. The criteria for the exclusion of inputs and outputs as set out in DIN EN 15804 are fulfilled. From the data analysis it can be assumed that the total of negligible processes per life cycle stage does not exceed 1% of the mass/primary energy. This way the total of negligible processes does not exceed 5% of the energy and mass input. The life cycle calculation also includes material and energy flows that account for less than 1%.

6.2 Inventory analysis

Aim

All material and energy flows are described below. The processes covered are presented as input and output parameters and refer to the declared units.

Life cycle stages

The complete life cycle of Sanpress press connectors and pipes is shown in the annex. The product stage "A1 – A3". construction process stage "A4 – A5". use stage "B1 – B7". end-of-life stage "C1 – C4" and the benefits and loads beyond the system boundaries "D" are considered.

Benefits

The below benefits have been defined as per DIN EN 15804:

- Benefits from recycling
- Benefits (thermal and electrical) from incineration

Allocation of co-products

Allocations occur during production.
Allocation was based on the masses (units) of products produced.

Allocations for re-use. recycling and recovery

If the products are reused/recycled and recovered during the product stage (rejects). the elements are shredded. if necessary and then sorted into their constituents. This is done by various process plants. e.g. magnetic separators.
The system boundaries were set following their disposal. reaching the end-of-waste status.

Allocations beyond life cycle boundaries

The use of recycled materials in the manufacturing process was based on the current market-specific situation. In parallel to this. a recycling potential was taken into consideration that reflects the economic value of the product after recycling (recyclate).
The system boundary set for the recycled material refers to collection.

Secondary material

The use of secondary material in module A3 by Viega GmbH & Co. KG was considered. Secondary material is not used.

Inputs

The following production-related inputs were recorded in the life cycle assessment for each **1 kg Sanpress press connector** and **1 linear metre of Sanpress pipe**:

Energy
For the input material natural gas. "natural gas. high pressure (GER). domestic supply with seasonal storage" was assumed. For the electricity mix. "electricity. high voltage. production mix (GER)" was assumed.

A portion of the process heat is used for space heating. This can. however. not be quantified. hence a “worst case” figure was taken into account for the product.

Water
There is no water consumption in the individual process steps for production.

The consumption of fresh water specified in Section 6.3 originates (among others) from the process chain of the pre-products and the process water for cooling.

Raw material/Pre-products
The charts below show the share of raw materials/pre-products in percent.

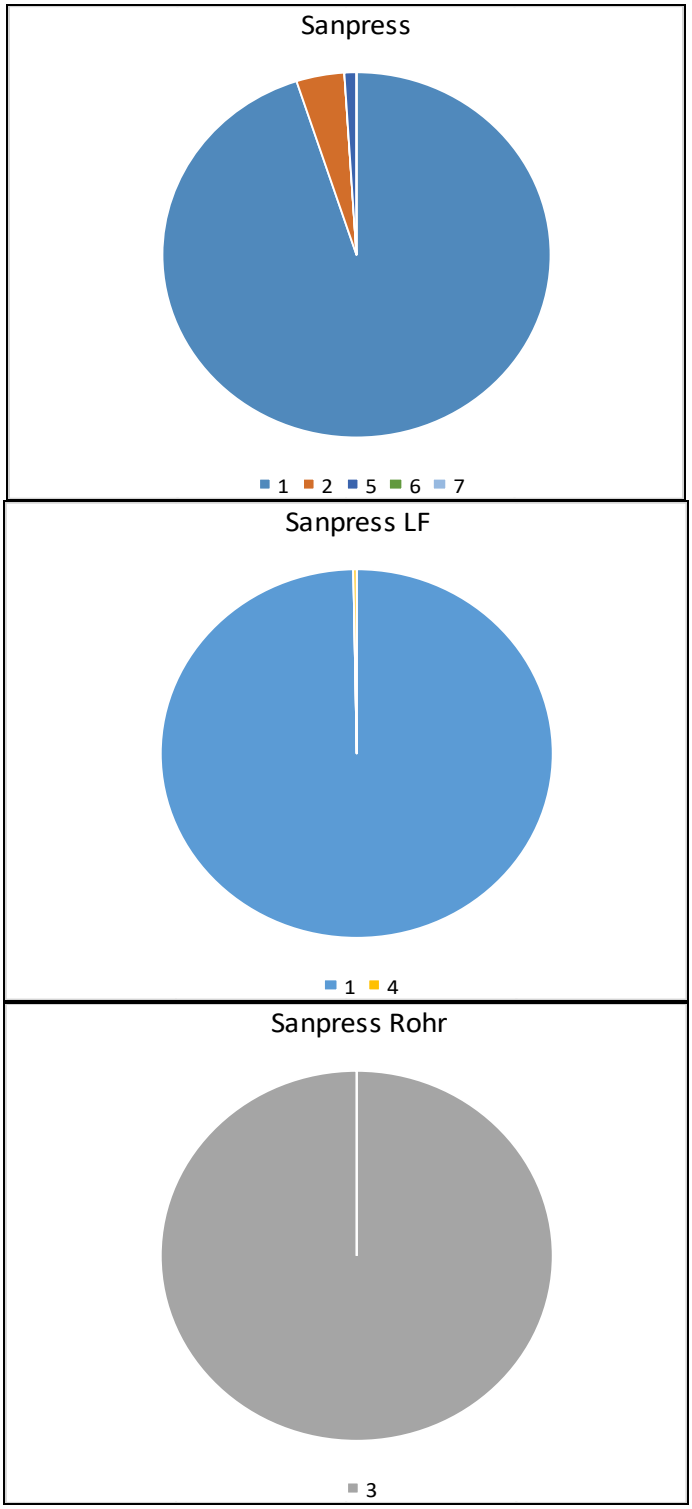


Illustration 2 Percentage of individual materials per declared unit

Ref.	Material	Mass in %		
		Sanpress	Sanpress LF	Sanpress pipe
1	Silicon bronze (SiBr)	94.75 %	99.72 %	0.00 %
2	Stainless steel	3.79 %	0.00 %	0.00 %
3	Stainless steel alloy 1.4401	0.00 %	0.00 %	100.00 %
4	EPDM seal	0.29 %	0.28 %	0.00 %
5	Brass	1.17 %	0.00 %	0.00 %
6	PE	0.00 %	0.00 %	0.00 %
7	PA	0.00 %	0.00 %	0.00 %

Table 3 Percentage of individual materials per declared unit

Ancillary materials and consumables
1 g of ancillary materials and consumables are used for Sanpress. There are no ancillary materials and consumables for the other product groups.

Product packaging
The amounts used for product packaging are as follows:

Material	Mass in kg		
	Sanpress	Sanpress LF	Sanpress pipe
Film	0.02	0.19	0.52
Paper/cardboard	0.01	0.00	0.00

Table 4 Weight in kg of packaging per declared unit

Biogenic carbon content
Only the biogenic carbon content of the associated packaging is reported. as the total mass of biogenic carbon-containing materials is less than 5% of the total mass of the product and associated packaging. According to EN 16449. the following amounts of biogenic carbon are generated for packaging:

Product	Part	Content in kg C
Sanpress	In the corresponding packaging	0.01
Sanpress LF	In the corresponding packaging	0.00
Sanpress pipe	In the corresponding packaging	0.00

Table 5 Biogenic carbon content of the packaging at the factory gate per declared unit

Outputs

The following manufacturing-related outputs were included in the LCA per 1 kg Sanpress press connector or 1 linear metre Sanpress pipe:

Waste
Secondary raw materials were included in the benefits.
See Section 6.3 Impact assessment.

Waste water
Manufacture of Sanpress produces 0.258 kg waste water. There are no ancillary materials and consumables for the other product groups.

6.3 Impact assessment

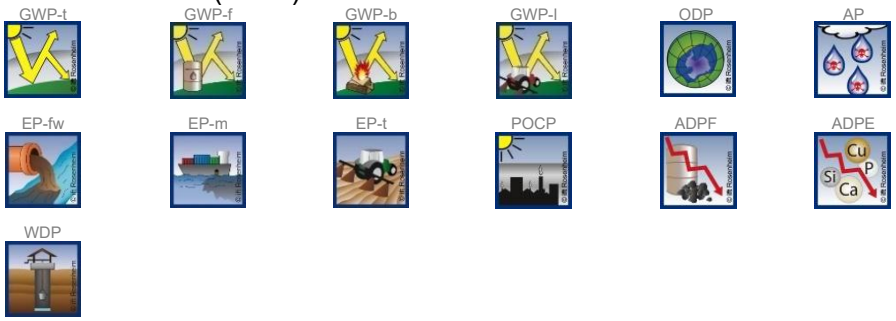
Aim

The impact assessment covers both inputs and outputs. The impact categories applied are stated below:

Core indicators

The models for impact assessment were applied as described in DIN EN 15804-A2.
The core indicators presented in the EPD are as follows:

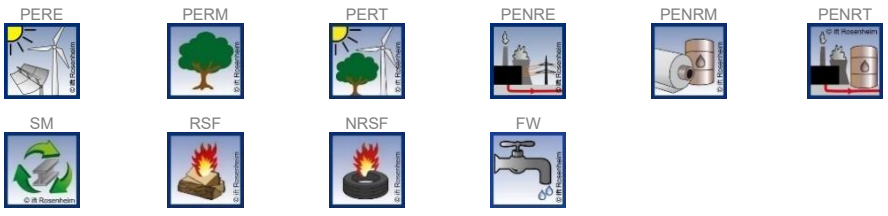
- Climate change - total (GWP-t)
- Climate change - fossil (GWP-f)
- Climate change - biogenic (GWP-b)
- Climate change - land use & land use change (GWP-l)
- Ozone depletion (ODP)
- Acidification (AP)
- Eutrophication freshwater (EP-fw)
- Eutrophication salt water (EP-m)
- Eutrophication land (EP-t)
- Photochemical ozone creation (POCP)
- Depletion of abiotic resources - fossil fuels (ADPF)
- Depletion of abiotic resources - minerals and metals (ADPE)
- Water use (WDP)



Resource management

The models for impact assessment were applied as described in DIN EN 15804-A2.
The following resource use indicators are presented in the EPD:

- Renewable primary energy as energy source (PERE)
- Renewable primary energy for material use (PERM)
- Total use of renewable primary energy (PERT)
- Non-renewable primary energy as energy source (PENRE)
- Renewable primary energy for material use (PENRM)
- Total use of non-renewable primary energy (PENRT)
- Use of secondary materials (SM)
- Use of renewable secondary fuels (RSF)
- Use of non-renewable secondary fuels (NRSF)
- Net use of freshwater resources (FW)

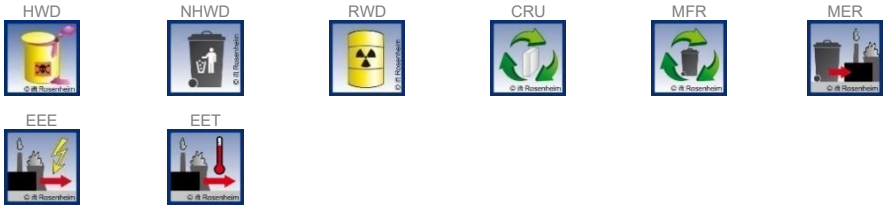


Waste

The waste generated during the production of 1 kg Sanpress press connector or 1 linear metre of Sanpress pipe is evaluated and shown separately for the fractions trade wastes. special wastes and radioactive wastes. Since waste handling is modelled within the system boundaries. the amounts shown refer to the deposited wastes. A portion of the waste indicated is generated during the manufacture of the pre-products.

The models for impact assessment were applied as described in DIN EN 15804-A2.
The following waste categories and indicators for output closures are presented in the EPD:

- Disposed hazardous waste (HWD)
- Non-hazardous waste disposed (NHWD)
- Radioactive waste disposed (RWD)
- Components for re-use (CRU)
- Materials for recycling (MFR)
- Materials for energy recovery (MER)
- Exported electrical energy (EEE)
- Exported thermal energy (EET)



Additional environmental impact indicators

The models for impact assessment were applied as described in DIN EN 15804-A2.
The additional impact categories presented in the EPD are as follows:

- Particulate matter emissions (PM)
- Ionizing radiation. human health (IRP)
- Ecotoxicity – freshwater (ETP-fw)
- Human toxicity. carcinogenic effects (HTP-c)
- Human toxicity. non-carcinogenic effects (HTP-nc)
- Impacts associated with land use/soil quality (SQP)

	Results per 1 kg Sanpress														
	Unit	**A1-A3**	**A4**	**A5**	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**C1**	**C2**	**C3**	**C4**	**D**
Core indicators																
GWP-t	kg CO_2 equivalent	9.99E+00	6.46E-02	4.21E-02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.05E-02	3.65E-02	4.50E-04	-6.81E+00
GWP-f	kg CO_2 equivalent	9.79E+00	6.45E-02	1.22E-02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.05E-02	3.21E-02	4.47E-04	-6.77E+00
GWP-b	kg CO_2 equivalent	1.88E-01	2.25E-05	2.99E-02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.47E-06	4.32E-03	2.72E-06	-2.54E-02
GWP-l	kg CO_2 equivalent	1.56E-02	3.31E-05	1.10E-06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.21E-06	5.44E-05	3.25E-07	-1.23E-02
ODP	kg CFC-11-eq.	2.14E-05	1.09E-09	3.09E-11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.72E-10	4.26E-10	1.06E-11	-7.13E-06
AP	mol H^+-eq.	4.31E-01	2.52E-04	4.61E-05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.47E-05	2.53E-04	4.30E-06	-8.88E-02
EP-fw	kg P-eq.	3.46E-02	5.40E-06	2.85E-07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.52E-07	1.43E-05	1.17E-07	-3.45E-02
EP-m	kg N-eq.	2.47E-02	4.61E-05	4.44E-05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.68E-05	7.95E-05	1.19E-06	-2.29E-02
EP-t	mol N-eq.	3.31E-01	4.76E-04	1.17E-04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.80E-04	8.37E-04	1.27E-05	-3.15E-01
POCP	kg NMVOC-eq.	9.49E-02	1.76E-04	2.52E-05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.59E-05	3.05E-04	3.18E-06	-4.31E-01
ADPF*²	MJ	1.20E+02	0.00E+00	5.84E-09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.91E-08	1.39E-06	9.36E-10	-6.61E-03
ADPE*²	kg Sb equivalent	6.43E-03	9.77E-01	2.06E-02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.54E-01	3.91E-01	9.76E-03	-8.07E+01
WDP*²	m^3 world-eq. deprived	9.27E+03	4.88E-03	1.40E-03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.74E-04	5.81E-03	5.40E-05	-5.31E+00
Resource management																
PERE	MJ	2.37E+01	1.23E-02	1.61E-01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.94E-03	4.59E-02	1.66E-04	-2.11E+01
PERM	MJ	1.90E-01	0.00E+00	-1.60E-01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PERT	MJ	2.39E+01	1.23E-02	1.00E-03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.94E-03	4.59E-02	1.66E-04	-2.11E+01
PENRE	MJ	1.19E+02	9.78E-01	4.31E-01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.54E-01	1.42E+00	5.07E-02	-8.07E+01
PENRM	MJ	1.44E+00	0.00E+00	-4.10E-01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00E+00	-1.03E+00	-4.10E-02	0.00E+00
PENRT	MJ	1.20E+02	9.78E-01	2.06E-02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.54E-01	3.91E-01	9.76E-03	-8.07E+01
SM	kg	3.54E-01	4.10E-04	7.38E-05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.48E-05	3.94E-04	3.73E-06	-3.37E-01
RSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	m^3	1.68E-01	1.34E-04	5.07E-06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.13E-05	1.49E-04	9.80E-06	-1.56E-01
Categories of waste																
HWD	kg	1.00E+00	7.17E-04	5.40E-05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.13E-04	1.05E-03	8.38E-06	-8.45E-01
NHWD	kg	1.25E+02	2.29E-02	1.30E-03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.62E-03	5.50E-02	2.50E-04	-1.24E+02
RWD	kg	2.48E-04	0.00E+00	1.40E-08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.34E-08	3.70E-07	3.08E-09	-1.77E-04
Output material flows																
CRU	kg	0.00E+00	0.00E+00	0.00E+00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MFR	kg	6.32E-02	0.00E+00	7.60E-03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.20E-06	9.50E-01	6.81E-08	-1.25E-02
MER	kg	4.62E-05	0.00E+00	8.62E-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.52E-09	5.44E-08	3.06E-10	-4.40E-05
EE	MJ	1.25E-01	0.00E+00	6.31E-03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.76E-05	2.14E-04	1.68E-06	-1.02E-01

Key:
GWP-t – global warming potential - total **GWP-f** – global warming potential fossil fuels **GWP-b** – global warming potential - biogenic **GWP-l** – global warming potential - land use and land use change **ODP** – ozone depletion potential **AP** - acidification potential **EP-fw** - eutrophication potential - aquatic freshwater **EP-m** - eutrophication potential - aquatic marine **EP-t** - feutrophication potential - terrestrial **POCP** - photochemical ozone formation potential **ADPF*²** - abiotic depletion potential – fossil resources **ADPE*²** - abiotic depletion potential - minerals&metals **WDP*²** - Water (user) deprivation potential **PERE** - Use of renewable primary energy **PERM** - use of renewable primary energy resources **PERT** - total use of renewable primary energy resources **PENRE** - use of non-renewable primary energy **PENRM** - use of non-renewable primary energy resources **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** - net use of fresh water **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 **EE** - exported energy

	Results per 1 kg Sanpress														
	Unit	**A1-A3**	**A4**	**A5**	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**C1**	**C2**	**C3**	**C4**	**D**
Additional environmental impact indicators																
PM	Disease incidence	1.15E-06	6.26E-09	1.36E-08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.08E-09	5.86E-09	6.85E-11	-1.08E-06
IRP*1	kBq U235-eq.	9.45E-01	8.87E-04	6.46E-05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.41E-04	1.49E-03	1.28E-05	-6.83E-01
ETP-fw*2	CTUe	5.23E+02	5.16E-01	1.67E-01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.13E-02	3.66E-01	4.24E-03	-5.28E+02
HTP-c*2	CTUh	7.13E-08	0.00E+00	8.39E-11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.57E-12	5.49E-11	2.51E-13	-6.96E-08
HTP-nc*2	CTUh	5.51E-06	2.87E-11	3.12E-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.12E-10	1.71E-09	2.84E-12	-5.64E-06
SQP*2	dimensionless	1.48E+02	9.61E-01	1.91E-02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.55E-01	6.85E-01	2.21E-02	-1.42E+02

Key:
PM – particulate matter emissions potential **IRP*1** – ionizing radiation potential – human health **ETP-fw*2** - Eco-toxicity potential – freshwater **HTP-c*2** - Human toxicity potential – cancer effects **HTP-nc*2** - Human toxicity potential – non-cancer effects **SQP*2** – soil quality potential

Disclaimers:
*1 This impact category deals mainly with the eventual impact of low dose ionizing radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents. occupational exposure nor due to radioactive waste disposal in underground facilities. Potential ionising radiation from the soil. from radon and from some building materials is also not measured by this indicator.

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

	Results per 1 kg Sanpress LF														
	Unit	**A1-A3**	**A4**	**A5**	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**C1**	**C2**	**C3**	**C4**	**D**
Core indicators																
GWP-t	kg CO_2 equivalent	1.29E+01	7.46E-02	1.16E-01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.05E-02	2.79E-02	4.65E-04	-7.30E+00
GWP-f	kg CO_2 equivalent	1.28E+01	7.45E-02	1.16E-01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.05E-02	2.85E-02	4.62E-04	-7.27E+00
GWP-b	kg CO_2 equivalent	5.89E-02	2.60E-05	1.30E-04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.47E-06	-6.49E-04	2.81E-06	-1.48E-02
GWP-l	kg CO_2 equivalent	1.65E-02	3.82E-05	1.99E-06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.21E-06	4.15E-05	3.36E-07	-1.42E-02
ODP	kg CFC-11-eq.	7.75E-05	1.26E-09	9.03E-11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.72E-10	3.79E-10	1.09E-11	-7.54E-06
AP	mol H^+-eq.	5.26E-01	2.91E-04	2.63E-04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.47E-05	2.27E-04	4.45E-06	-1.04E-01
EP-fw	kg P-eq.	4.15E-02	6.24E-06	4.93E-07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.52E-07	1.46E-05	1.21E-07	-4.14E-02
EP-m	kg N-eq.	3.01E-02	5.32E-05	3.55E-04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.68E-05	6.87E-05	1.23E-06	-2.66E-02
EP-t	mol N-eq.	4.04E-01	5.50E-04	8.51E-04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.80E-04	7.62E-04	1.32E-05	-3.69E-01
POCP	kg NMVOC-eq.	1.16E-01	2.03E-04	1.53E-04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.59E-05	2.93E-04	3.29E-06	-5.18E-01
ADPF*²	MJ	1.52E+02	0.00E+00	1.08E-08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.91E-08	1.52E-06	9.68E-10	-7.89E-03
ADPE*²	kg Sb equivalent	7.68E-03	1.13E+00	4.31E-02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.54E-01	3.49E-01	1.01E-02	-8.82E+01
WDP*²	m^3 world-eq. deprived	7.27E+00	5.64E-03	3.98E-03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.74E-04	5.47E-03	5.58E-05	-7.58E+00
Resource management																
PERE	MJ	2.66E+01	1.42E-02	1.52E-03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.94E-03	4.82E-02	1.72E-04	-2.81E+01
PERM	MJ	0.00E+00	0.00E+00	0.00E+00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PERT	MJ	2.66E+01	1.42E-02	1.52E-03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.94E-03	4.82E-02	1.72E-04	-2.81E+01
PENRE	MJ	1.48E+02	1.13E+00	3.94E+00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.54E-01	5.25E-01	1.73E-02	-8.82E+01
PENRM	MJ	4.07E+00	0.00E+00	-3.90E+00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00E+00	-1.75E-01	-7.19E-03	0.00E+00
PENRT	MJ	1.52E+02	1.13E+00	4.31E-02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.54E-01	3.49E-01	1.01E-02	-8.82E+01
SM	kg	3.34E-01	4.73E-04	1.02E-04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.48E-05	3.65E-04	3.85E-06	-3.18E-01
RSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	m^3	2.08E-01	1.54E-04	6.64E-05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.13E-05	1.43E-04	1.01E-05	-2.10E-01
Categories of waste																
HWD	kg	9.36E-01	8.28E-04	2.58E-04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.13E-04	1.02E-03	8.66E-06	-7.85E-01
NHWD	kg	1.50E+02	2.65E-02	2.23E-03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.62E-03	5.70E-02	2.58E-04	-1.49E+02
RWD	kg	2.67E-04	0.00E+00	2.10E-08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.34E-08	3.71E-07	3.18E-09	-2.13E-04
Output material flows																
CRU	kg	0.00E+00	0.00E+00	0.00E+00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MFR	kg	6.55E-02	0.00E+00	9.22E-03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.20E-06	9.54E-01	7.04E-08	-1.51E-02
MER	kg	4.31E-05	0.00E+00	2.75E-09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.52E-09	5.23E-08	3.16E-10	-4.16E-05
EE	MJ	1.30E-01	0.00E+00	7.66E-03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.76E-05	2.04E-04	1.74E-06	-1.03E-01

Key:
GWP-t – global warming potential - total **GWP-f** – global warming potential fossil fuels **GWP-b** – global warming potential - biogenic **GWP-l** – global warming potential - land use and land use change **ODP** – ozone depletion potential **AP** - acidification potential **EP-fw** - eutrophication potential - aquatic freshwater **EP-m** - eutrophication potential - aquatic marine **EP-t** - feutrophication potential - terrestrial **POCP** - photochemical ozone formation potential **ADPF*²** - abiotic depletion potential – fossil resources **ADPE*²** - abiotic depletion potential - minerals&metals **WDP*²** - Water (user) deprivation potential **PERE** - Use of renewable primary energy **PERM** - use of renewable primary energy resources **PERT** - total use of renewable primary energy resources **PENRE** - use of non-renewable primary energy **PENRM** - use of non-renewable primary energy resources **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** - net use of fresh water **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 **EE** - exported energy

	Results per 1 kg Sanpress LF														
	Unit	**A1-A3**	**A4**	**A5**	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**C1**	**C2**	**C3**	**C4**	**D**
Additional environmental impact indicators																
PM	Disease incidence	1.51E-06	7.23E-09	1.08E-07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.08E-09	4.18E-09	7.08E-11	-1.25E-06
IRP*1	kBq U235-eq.	1.02E+00	1.02E-03	9.31E-05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.41E-04	1.50E-03	1.32E-05	-7.99E-01
ETP-fw*2	CTUe	6.14E+02	5.96E-01	1.14E+00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.13E-02	2.72E-01	4.39E-03	-6.00E+02
HTP-c*2	CTUh	8.74E-08	0.00E+00	6.67E-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.57E-12	4.04E-11	2.59E-13	-7.81E-08
HTP-nc*2	CTUh	6.68E-06	3.31E-11	2.30E-09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.12E-10	1.73E-09	2.93E-12	-6.79E-06
SQP*2	dimensionless	1.75E+02	1.11E+00	6.74E-02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.55E-01	6.09E-01	2.29E-02	-1.67E+02

Key:
PM – particulate matter emissions potential **IRP*1** – ionizing radiation potential – human health **ETP-fw*2** - Eco-toxicity potential – freshwater **HTP-c*2** - Human toxicity potential – cancer effects **HTP-nc*2** - Human toxicity potential – non-cancer effects **SQP*2** – soil quality potential

Disclaimers:
*1 This impact category deals mainly with the eventual impact of low dose ionizing radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents. occupational exposure nor due to radioactive waste disposal in underground facilities. Potential ionising radiation from the soil. from radon and from some building materials is also not measured by this indicator.

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

	Results per 1 linear metre of Sanpress pipe															
	Unit	**A1-A3**	**A4**	**A5**	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**C1**	**C2**	**C3**	**C4**	**D**
Core indicators																
GWP-t	kg CO_2 equivalent	4.95E+01	3.24E-01	3.13E-01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.87E-02	4.34E-01	-4.10E-02	-2.37E+01
GWP-f	kg CO_2 equivalent	4.91E+01	3.24E-01	3.13E-01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.87E-02	2.60E-01	-4.07E-02	-2.34E+01
GWP-b	kg CO_2 equivalent	2.58E-01	1.13E-04	1.05E-05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.62E-05	1.74E-01	-2.48E-04	-2.31E-01
GWP-l	kg CO_2 equivalent	1.31E-01	1.66E-04	2.29E-06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.43E-05	6.51E-04	-2.96E-05	-2.49E-02
ODP	kg CFC-11-eq.	7.46E-07	5.48E-09	1.95E-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.02E-10	3.41E-09	-9.62E-10	-2.40E-07
AP	mol H^+-eq.	3.40E-01	1.27E-03	7.03E-04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.01E-04	1.99E-03	-3.92E-04	-8.76E-02
EP-fw	kg P-eq.	3.27E-02	2.71E-05	7.83E-07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.96E-06	5.78E-05	-1.07E-05	-8.04E-03
EP-m	kg N-eq.	6.10E-02	2.31E-04	9.65E-04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.82E-05	7.05E-04	-1.08E-04	-2.39E-02
EP-t	mol N-eq.	6.15E-01	2.39E-03	2.28E-03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.36E-04	6.25E-03	-1.16E-03	-2.52E-01
POCP	kg NMVOC-eq.	1.99E-01	8.82E-04	4.03E-04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.13E-04	1.78E-03	-2.90E-04	-1.31E-01
ADPF*²	MJ	6.95E+02	0.00E+00	1.88E-08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.35E-07	2.24E-06	-8.53E-08	-5.65E-04
ADPE*²	kg Sb equivalent	7.55E-03	4.91E+00	7.58E-02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.18E-01	3.11E+00	-8.89E-01	-2.64E+02
WDP*²	m^3 world-eq. deprived	1.43E+02	2.45E-02	7.63E-03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.60E-03	3.76E-02	-4.92E-03	-7.53E+00
Resource management																
PERE	MJ	4.88E+02	6.17E-02	2.32E-03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.02E-03	1.44E-01	-1.51E-02	-5.93E+01
PERM	MJ	0.00E+00	0.00E+00	0.00E+00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PERT	MJ	4.88E+02	6.17E-02	2.32E-03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.02E-03	1.44E-01	-1.51E-02	-5.93E+01
PENRE	MJ	6.84E+02	4.91E+00	1.07E+01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.18E-01	3.29E+00	-8.84E-01	-2.64E+02
PENRM	MJ	1.06E+01	0.00E+00	-1.07E+01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00E+00	-1.77E-01	-5.36E-03	0.00E+00
PENRT	MJ	6.95E+02	4.91E+00	7.58E-02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.18E-01	3.11E+00	-8.89E-01	-2.64E+02
SM	kg	8.74E-01	2.06E-03	4.61E-05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.01E-04	2.70E-03	-3.40E-04	-2.59E+00
RSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	m^3	2.98E+00	6.71E-04	1.95E-04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.90E-05	8.65E-04	-8.93E-04	-2.13E-01
Categories of waste																
HWD	kg	3.82E+00	3.60E-03	6.41E-04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.27E-04	5.65E-03	-7.64E-04	-7.16E+00
NHWD	kg	1.59E+02	1.15E-01	3.53E-03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.68E-02	1.95E-01	-2.27E-02	-3.75E+01
RWD	kg	2.38E-03	0.00E+00	3.19E-08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.56E-07	1.66E-06	-2.80E-07	-3.64E-04
Output material flows																
CRU	kg	0.00E+00	0.00E+00	0.00E+00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MFR	kg	4.92E-02	0.00E+00	1.37E-06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.59E-06	4.33E+00	-6.20E-06	-6.00E-03
MER	kg	1.23E-04	0.00E+00	5.82E-09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.03E-08	3.19E-07	-2.79E-08	-3.27E-04
EE	MJ	3.77E-01	0.00E+00	2.36E-05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.28E-04	1.30E-03	-1.53E-04	-4.91E-01

Key:
GWP-t – global warming potential - total **GWP-f** – global warming potential fossil fuels **GWP-b** – global warming potential - biogenic **GWP-l** – global warming potential - land use and land use change **ODP** – ozone depletion potential **AP** - acidification potential **EP-fw** - eutrophication potential - aquatic freshwater **EP-m** - eutrophication potential - aquatic marine **EP-t** - feutrophication potential - terrestrial **POCP** - photochemical ozone formation potential **ADPF*²** - abiotic depletion potential – fossil resources **ADPE*²** - abiotic depletion potential - minerals&metals **WDP*²** - Water (user) deprivation potential **PERE** - Use of renewable primary energy **PERM** - use of renewable primary energy resources **PERT** - total use of renewable primary energy resources **PENRE** - use of non-renewable primary energy **PENRM** - use of non-renewable primary energy resources **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** - net use of fresh water **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 **EE** - exported energy

Results per 1 linear metre of Sanpress pipe															
	Unit	**A1-A3**	**A4**	**A5**	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**C1**	**C2**	**C3**	**C4**	**D**
Additional environmental impact indicators																
PM	Disease incidence	3.81E-06	3.14E-08	2.95E-07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.01E-09	7.93E-08	-6.25E-09	-1.88E-06
IRP*1	kBq U235-eq.	8.03E+00	4.45E-03	1.37E-04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.54E-04	6.86E-03	-1.16E-03	-1.46E+00
ETP-fw*2	CTUe	5.16E+02	2.59E+00	3.08E+00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.78E-01	4.63E+00	-3.87E-01	-9.43E+01
HTP-c*2	CTUh	1.99E-07	0.00E+00	1.82E-09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.12E-11	7.04E-10	-2.28E-11	-1.49E-07
HTP-nc*2	CTUh	1.41E-06	1.44E-10	6.26E-09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.22E-10	7.15E-09	-2.59E-10	-5.36E-07
SQP*2	dimensionless	2.18E+02	4.83E+00	1.50E-01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.22E-01	5.52E+00	-2.02E+00	-1.21E+02

Key:
PM – particulate matter emissions potential **IRP*1** – ionizing radiation potential – human health **ETP-fw*2** - Eco-toxicity potential – freshwater **HTP-c*2** - Human toxicity potential – cancer effects **HTP-nc*2** - Human toxicity potential – non-cancer effects **SQP*2** – soil quality potential

Disclaimers:
*1 This impact category deals mainly with the eventual impact of low dose ionizing radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents. occupational exposure nor due to radioactive waste disposal in underground facilities. Potential ionising radiation from the soil. from radon and from some building materials is also not measured by this indicator.

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

6.4 Interpretation. LCA presentation and critical review

Evaluation

The environmental impacts of

- Sanpress
- Sanpress LF
- Sanpress pipe

The differences in the environmental impact of the products lie in the various pre-products and raw materials used and in the mass of the pre-products and raw materials used in each case. Increasing the proportion of recycling can reduce these environmental impacts.
The main environmental impact of production is caused by the raw material stainless steel. This is to be expected. as the main proportion of stainless steel is up to 100 percent depending on the product (pipes) and the high LCIA values associated with the raw material are the main source of emissions.

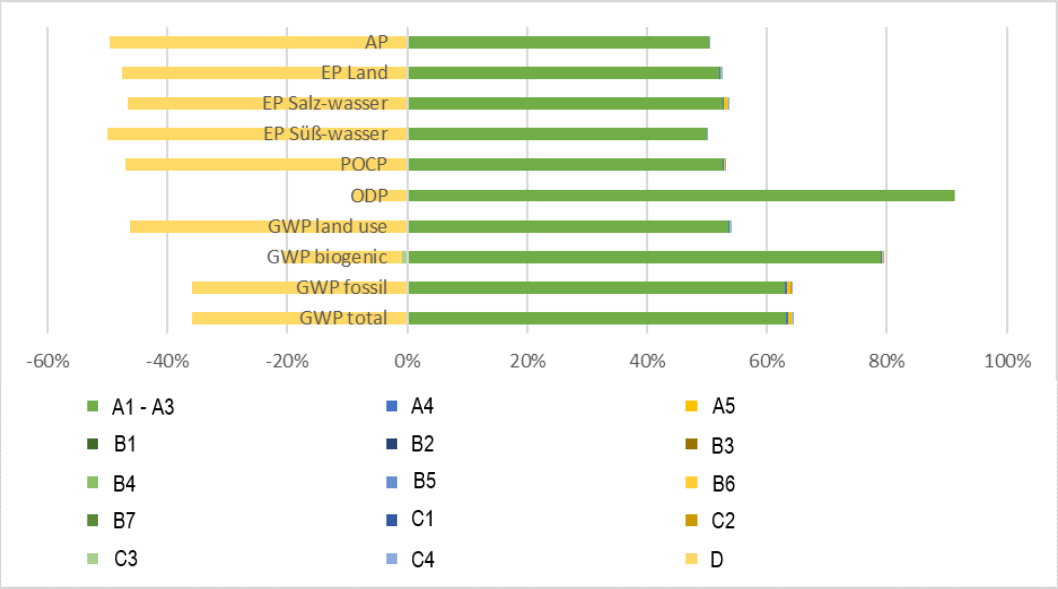
The LCA covers the complete life cycle. As the products do not generate any emissions in the use stage. here the value is 0. The replacement was balanced separately in B4 for 1 year as a scenario. Otherwise. there is no environmental impact during the use phase. The more stainless steel in the product. the greater the environmental impact. Due to the main material stainless steel. there are correspondingly high credits at the end of life (depending on the environmental indicator).

The charts below show the allocation of the main environmental impacts.

The values obtained from the LCA calculation are suitable for the certification of buildings.

Sanpress

Sanpress LF



Sanpress pipe

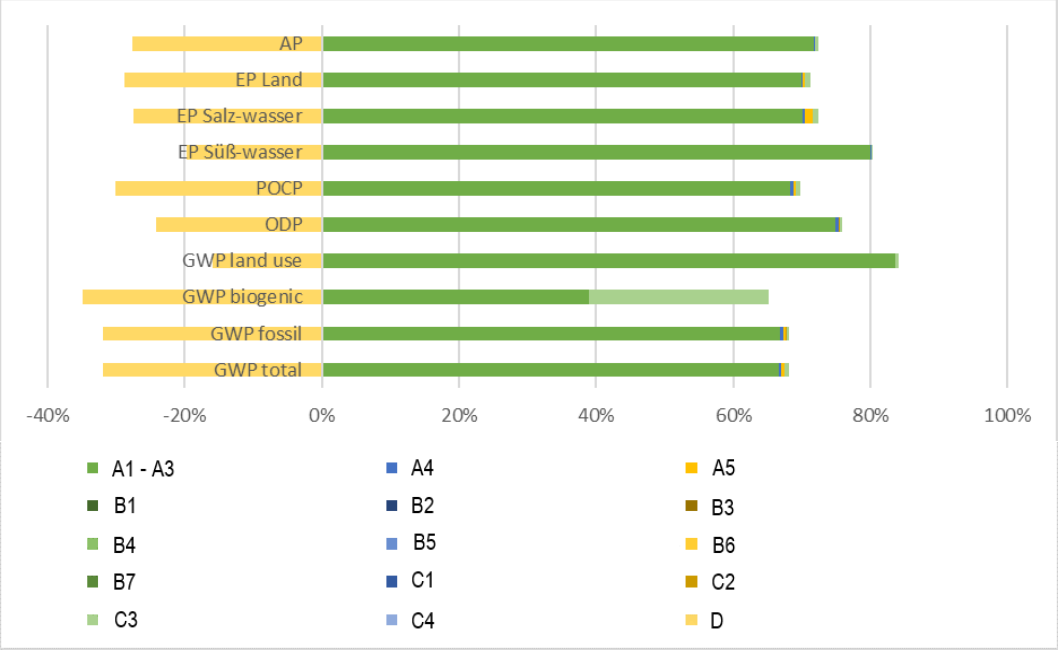


Illustration 3 Percentage of the modules in selected environmental impact indicators

Report

The LCA report underlying this EPD was developed according to the requirements of DIN EN ISO 14040 and DIN EN ISO 14044 as well as DIN EN 15804 and DIN EN ISO 14025. It is deposited with ift Rosenheim. The results and conclusions reported to the target group are complete. correct. without bias and transparent. The results of the study are not designed to be used for comparative statements intended for publication.

Critical review

The critical review of the LCA and of the report took place in the course of verification of the EPD and was carried out by the external auditor Prof. Dr. Eric Brehm.

7 General information regarding the EPD

Comparability

This EPD was prepared in accordance with DIN EN 15804 and is therefore only comparable to those EPDs that also comply with the requirements set out in DIN EN 15804.
Any comparison must refer to the building context and the same boundary conditions of the various life cycle stages.
For comparing EPDs of construction products. the rules set out in DIN EN 15804. Clause 5.3. apply.

The detailed individual results of the products were summarised on the basis of conservative assumptions and differ from the average results. Identification of the product groups and the resulting variations are documented in the background report.

Communication

The communications format of this EPD meets the requirements of EN 15942:2012 and is therefore the basis for B2B communication. Only the nomenclature has been changed according to DIN EN 15804.

Verification

Verification of the Environmental Product Declaration is documented in accordance with the ift "Richtlinie zur Erstellung von Typ III Umweltproduktdeklarationen" (Guidance on preparing Type III Environmental Product Declarations) in accordance with the requirements set out in DIN EN ISO 14025.

This declaration is based on the PCR documents “PCR Part A” PCR-A-0.3:2018 and “Piping systems including connecting and fitting technology” PCR-RS-1.0:2022.

The European standard EN 15804 serves as the core PCR [a)]
Independent verification of the declaration and statement according to EN ISO 14025:2010
Independent third party verifier: [b)] Eric Brehm
[a)] Product category rules [b)] Optional for business-to-business communication Mandatory for business-to-consumer communication (see EN ISO 14025:2010. 9.4).

Revisions of this document

No.	Date	Note	Person in charge	Testing personnel
1	18.12.2023	External verification	Pscherer	Brehm
2	25.01.2024	Formal adaptation	Thiele	Brehm
3	05.08.2024	Formal adaptation	Pscherer	--
4	29.10.2025	Adjustment Conversion factors	Ludwig	--

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9 Annex A

Description of life cycle scenarios for Sanpress press connectors and pipes

Product stage			Con-struction process stage		Use stage*							End-of-life stage				Benefits and loads beyond system boundaries
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Raw material supply	Transport	production	Transport	Construction/installation process	Use	maintenance	Repair	replacement	Refurbishment	Operational energy use	Operational water use	Deconstruction/demolition	Transport	Waste processing	Disposal	Reuse Recovery Recycling potential
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

* For declared B-modules. the calculation of the results is performed taking into account the specified RSL related to one year

Table 6: Overview of applied life cycle stages

The scenarios were calculated taking into account the defined RSL (see 4 Use stage).

The scenarios were furthermore based on the research project “EPDs for transparent building components”. (1)

Note: The standard scenarios selected are presented in bold type. They were also used for calculating the indicators in the summary table.

✓ Included in the LCA
— Not included in the LCA

A4 Transport to construction site

No.	Scenario	Description
A4.1	**National**	**Transport mix 35-53% capacity used[1]. approx. 600 km**
A4.2	International/EU country	Transport mix 35-53% capacity used[1]. approx. 2.000 km
A4.3	International/Non-EU	Transport mix 35-53% capacity used[1]. approx. 15.000 km

[1] Capacity used: utilized loading capacity of the truck

The transport distances shown represent a transport average with the following transport mix. The scenarios include the return transport. if applicable.

Shipping method	Network fleet structure	Share in %		
		A4.1	A4.2	A4.3
Parcel service provider (CEP - Courier-Express- Parcel service)	Van 7.5 – 16 t (Euro 6). diesel. 35% capacity utilization	2	0	0.5
Forwarding agency and own truck fleet	32 - 40 t truck/semitrailer (Euro 6). diesel. 53% capacity utilization	98	90	85
Air freights	Cargo and passenger aircrafts. kerosene	0	9	11
Seagoing vessels/containers	Seagoing/container vessels to receiving port. heavy oil	0	1	3.5

A4 Transport to construction site	Transport weight [kg] per declared unit	Density [kg/m³]	Capacity load factor[2]
Sanpress	1.03	7.90	0.80
Sanpress LF	1.19		
Sanpress pipe	5.17		

[2] Capacity load factor:
= 1 Product completely fills the packaging (without air inclusion)
< 1 Packaging contains unused volume (e.g.: air. filling material)
> 1 Product is packed in compressed form

The scenarios were calculated per kg and can be scaled to the product group using the above masses.

A4 Transport to construction site	Unit	A4.1	A4.2	A4.3
Core indicators				
GWP-t	kg CO_2 equivalent	**6.27E-05**	3.33E-04	2.81E-03
GWP-f	kg CO_2 equivalent	**6.26E-05**	3.33E-04	2.81E-03
GWP-b	kg CO_2 equivalent	**2.18E-08**	8.84E-08	7.09E-07
GWP-l	kg CO_2 equivalent	**3.21E-08**	1.06E-07	7.96E-07
ODP	kg CFC-11-eq.	**1.06E-12**	5.45E-12	4.58E-11
AP	mol H^+-eq.	**1.71E-07**	1.16E-06	1.03E-05
EP-fw	kg P-eq.	**5.24E-09**	1.74E-08	1.31E-07
EP-m	kg N-eq.	**4.47E-08**	3.98E-07	3.63E-06
EP-t	mol N-eq.	**2.45E-07**	1.62E-06	1.42E-05
POCP	kg NMVOC-eq.	**4.62E-07**	4.21E-06	3.85E-05
ADPF	MJ	**9.49E-04**	4.78E-03	4.00E-02
ADPE	kg Sb equivalent	**1.81E-10**	5.55E-10	4.09E-09
WDP	m^3 world-eq. deprived	**4.74E-06**	1.66E-05	1.27E-04
Resource management				
PERE	MJ	**1.19E-05**	4.13E-05	3.15E-04
PERM	MJ	**0.00**	0.00	0.00
PERT	MJ	**1.19E-05**	4.13E-05	3.15E-04
PENRE	MJ	**9.49E-04**	4.78E-03	4.00E-02
PENRM	MJ	**0.00**	0.00	0.00
PENRT	MJ	**9.49E-04**	4.78E-03	4.00E-02

SM	kg	**3.98E-07**	1.33E-06	1.00E-05
RSF	MJ	**0.00**	0.00	0.00
NRSF	MJ	**0.00**	0.00	0.00
FW	m³	**1.30E-07**	4.63E-07	3.54E-06
Categories of waste				
HWD	kg	**6.96E-07**	2.36E-06	1.78E-05
NHWD	kg	**2.23E-05**	7.40E-05	5.57E-04
RWD	kg	**2.05E-10**	7.39E-10	5.69E-09
Output material flows				
CRU	kg	**0.00**	0.00	0.00
MFR	kg	**7.38E-09**	2.84E-08	2.27E-07
MER	kg	**4.16E-11**	1.35E-10	1.02E-09
EE	MJ	**1.68E-07**	5.81E-07	4.41E-06
Additional environmental impact indicators				
PM	Disease incidence	**6.08E-12**	1.94E-11	1.43E-10
IRP	kBq U235-eq.	**8.61E-07**	3.15E-06	2.44E-05
ETPfw	CTUe	**5.01E-04**	2.44E-03	2.02E-02
HTPc	CTUh	**2.78E-14**	9.74E-14	7.45E-13
HTPnc	CTUh	**6.85E-13**	3.61E-12	3.04E-11
SQP	dimensionless	**9.33E-04**	2.92E-03	2.12E-02

A5 Construction/Installation

No.	Scenario	Description
A5.1	**Manual**	**According to the manufacturer. the products are installed with battery-operated pressing pliers (0.0009 kWh/kg. electricity mix (GLO)).**

In case of deviating consumption during installation/assembly of the products which forms part of the site management. they are covered at the building level.

The following quantities of waste materials are produced during installation.

Product group	Waste materials in kg	of which quantities collected for waste recycling (output materials) in kg
Sanpress	0.030	0.025
Sanpress LF	0.190	0.030
Sanpress pipe	0.517	0.000

Ancillary materials. consumables. use of water. use of other resources. material losses as well as direct emissions during installation are negligible.

It is assumed that the packaging material in the Module construction / installation is sent to waste handling. Waste is only thermally recycled in line with the conservative approach. Benefits from A5 are specified in module D.

- Electricity replaces electricity mix (GLO. high voltage. market group);
- Thermal energy replaces thermal energy from natural gas (district or industrial. natural gas. RoW);
- Stainless steel recyclate used in A5 replaces 100% of stainless steel;
- SiBr recyclate used in A5 replaces 100 % SiBr.

Transport to the recycling plants is included.

Since this is a single scenario. the results are shown in the relevant summary table.

B1 Use (not relevant)

Refer to Section 4 Use stage - Emissions to the environment.
No emissions are known which may occur during the use stage of the products because press fitting is without contact to air. water and soil.

Since this is a single scenario. the results are shown in the relevant summary table.

B2 Cleaning. maintenance and repair (not relevant)

B2.1 Cleaning (not relevant)

No cleaning is required.

Ancillary materials. consumables. use of energy and water. material losses and waste as well as transport distances during cleaning are negligible.

Since this is a single scenario. the results are shown in the relevant summary table.

B2.2 Maintenance and repair (not relevant)

No maintenance is required.

Ancillary materials. consumables. use of energy and water. waste. material losses and transport distances during maintenance are negligible.

Since this is a single scenario. the results are shown in the relevant summary table.

B3 Repair (not relevant)

No repair of the components of the building part is required.

For updated information refer to the respective instructions for assembly/installation. operation and maintenance from Viega GmbH & Co. KG.

Ancillary materials. consumables. use of energy and water. waste. material losses and transport distances during repair are negligible.

Since this is a single scenario. the results are shown in the relevant summary table.

B4 Exchange / Replacement

No.	Scenario	Description
B4.1	**No replacement**	**According to manufacturer. a replacement is not planned.**
B4.2	Normal use and heavy use	One-time replacement after 50 years (RSL)* Energy consumption 0.0009 kWh/kg.

*Assumptions for evaluation of possible environmental impacts; statements made do not constitute any guaranty or warranty of performance.
The statements made in this EPD are only informative to allow evaluation at the building level.

It is assumed that no replacement will be necessary during the 50-year reference service life and the 50-year building service life. The environmental impacts of replacement are due to the product. construction and disposal stages.
The results were based on one year. taking into account the RSL.

For updated information refer to the respective instructions for assembly/installation. operation and maintenance from Viega GmbH & Co. KG.

B4 Exchange/ replacement	Unit	B4.1	B4.2		
			Sanpress	Sanpress LF	Sanpress pipe
Core indicators					
GWP-t	kg CO_2 equivalent	**0.00**	3.81E+01	4.33E+01	2.69E+01
GWP-f	kg CO_2 equivalent	**0.00**	3.78E+01	4.31E+01	2.66E+01
GWP-b	kg CO_2 equivalent	**0.00**	2.57E-01	1.09E-01	2.01E-01
GWP-l	kg CO_2 equivalent	**0.00**	7.00E-02	7.43E-02	1.07E-01
ODP	kg CFC-11-eq.	**0.00**	1.46E-05	7.04E-05	5.14E-07
AP	mol H^+-eq.	**0.00**	2.63E+00	2.85E+00	2.12E-01
EP-fw	kg P-eq.	**0.00**	2.11E-01	2.28E-01	2.47E-02
EP-m	kg N-eq.	**0.00**	1.36E-01	1.49E-01	3.90E-02
EP-t	mol N-eq.	**0.00**	1.89E+00	2.06E+00	3.73E-01
POCP	kg NMVOC-eq.	**0.00**	5.32E-01	5.80E-01	1.15E-01
ADPF	MJ	**0.00**	4.70E+02	5.29E+02	4.38E+02
ADPE	kg Sb equivalent	**0.00**	3.99E-02	4.30E-02	6.98E-03
WDP	m^3 world-eq. deprived	**0.00**	9.30E+03	3.09E+01	1.36E+02
Resource management					
PERE	MJ	**0.00**	1.18E+02	1.23E+02	4.29E+02
PERM	MJ	**0.00**	0.00E+00	0.00E+00	0.00E+00
PERT	MJ	**0.00**	1.18E+02	1.23E+02	4.29E+02
PENRE	MJ	**0.00**	4.71E+02	5.29E+02	4.38E+02
PENRM	MJ	**0.00**	3.19E-16	-2.23E-16	1.10E-15
PENRT	MJ	**0.00**	4.71E+02	5.29E+02	4.38E+02
SM	kg	**0.00**	1.63E+00	1.76E+00	-1.71E+00
RSF	MJ	**0.00**	0.00E+00	0.00E+00	0.00E+00
NRSF	MJ	**0.00**	0.00E+00	0.00E+00	0.00E+00
FW	m^3	**0.00**	8.84E-01	9.40E-01	2.77E+00
Categories of waste					
HWD	kg	**0.00**	4.06E+00	4.36E+00	-3.33E+00
NHWD	kg	**0.00**	7.60E+02	8.20E+02	1.21E+02
RWD	kg	**0.00**	1.01E-03	1.07E-03	2.02E-03
Output material flows					
CRU	kg	**0.00**	0.00E+00	0.00E+00	0.00E+00
MFR	kg	**0.00**	1.08E+00	1.09E+00	4.38E+00
MER	kg	**0.00**	2.08E-04	2.24E-04	-2.03E-04
EE	MJ	**0.00**	5.42E-01	5.89E-01	-1.12E-01
Additional environmental impact indicators					
PM	Disease incidence	**0.00**	6.37E-06	7.15E-06	2.33E-06
IRP	kBq U235-eq.	**0.00**	3.88E+00	4.12E+00	6.58E+00
ETPfw	CTUe	**0.00**	3.04E+03	3.30E+03	4.32E+02
HTPc	CTUh	**0.00**	3.98E-07	4.37E-07	5.23E-08
HTPnc	CTUh	**0.00**	3.45E-05	3.72E-05	8.94E-07
SQP	dimensionless	**0.00**	8.55E+02	9.24E+02	1.06E+02

B5 Improvement/modernization (not relevant)
According to the manufacturer. the elements are not included in the improvement / modernisation activities for buildings.

For updated information refer to the respective instructions for assembly/installation. operation and maintenance from Viega GmbH & Co. KG.

Ancillary materials. consumables. use of energy and water. material losses. waste as well as transport distances during installation are negligible.

Since this is a single scenario. the results are shown in the relevant summary table.

B6 Operational energy use (not relevant)

There is no energy used during normal use.

Ancillaries. consumables. water use. material losses. waste materials. transport distances and other scenarios are negligible.

Since this is a single scenario. the results are shown in the relevant summary table.

B7 Operational water use (not relevant)

No water consumption when used as intended. Water consumption for cleaning is specified in Module B2.1.

Ancillaries. consumables. energy use. material losses. waste materials. transport distances and other scenarios are negligible.

Since this is a single scenario. the results are shown in the relevant summary table.

C1 Deconstruction

No.	Scenario	Description
C1	**Deconstruction**	**Connecting technology 99% deconstruction.** **Further deconstruction rates are possible. give adequate reasons.**

No relevant inputs or outputs apply to the scenario selected. Energy consumption during dismantling is not required.

Since this is a single scenario. the results are shown in the relevant summary table.

In case of deviating consumption the removal of the products forms part of site management and is covered at the building level.

C2 Transport

No.	Scenario	Description
C2	**Transport**	**Transport to collection point with >32 t truck (Euro 4). diesel. 29.96 t payload. 53% capacity used. 50 km (1)**

Since this is a single scenario. the results are shown in the relevant summary table.

C3 Waste management

No.	Scenario	Description
C3	Current market situation	**Share for recirculation of materials:** • **Stainless steel 98% in melt** (UBA. 2017) • **SiBr 98% in melt** (UBA. 2017) • **Brass 98% in melt** (UBA. 2017) • **Plastics 60 % thermal recycling in incineration plants** (Zukunft Bauen. 2017) • **Plastics 40 % recycled** (Zukunft Bauen. 2017) • **Remainder to landfill/disposal.**

No electricity consumption for the recycling plant per declared unit was taken into account for waste treatment due to the low proportion and lack of sources.

As the products are placed on the European market. the disposal scenario is based on average European data sets.

The below table presents the disposal processes and their percentage by mass/weight. The calculation is based on the above mentioned shares in percent related to the declared unit of the product system.

C3 Disposal	Unit	Sanpress	Sanpress LF	Sanpress pipe
Collection process. collected separately	kg	0.99	0.99	4.61
Collection process. collected as mixed construction waste	kg	0.01	0.01	0.05
Recovery system. for re-use	kg	0.00	0.00	0.00
Recovery system. for recycling	kg	0.96	0.96	4.52
Recovery system. for energy recovery	kg	0.01	0.01	0.00
Disposal	kg	0.04	0.04	0.14

The 100% scenarios differ from the current average recovery shown here (in background report C3.4). The evaluation of each scenario is described in the background report.

Since this is a single scenario. the results are shown in the summary table.

C4 Disposal

No.	Scenario	Description
C4	Disposal	**The non-recordable amounts and losses within the re-use/recycling chain (C1 and C3) are modelled as "disposed" (EU-28).**

The 100% scenarios differ from the current average recovery shown here (in background report C4.4). The evaluation of each scenario is described in the background report.

The consumption in scenario C4 results from physical pre-treatment. waste recycling and management of the disposal site. The benefits obtained here from the substitution of primary material production are allocated to Module D. e.g. electricity and heat from waste incineration.

Since this is a single scenario. the results are shown in the summary table.

D Benefits and loads from beyond the system boundaries		
No.	**Scenario**	**Description**
D	**Recycling potential**	• **Stainless steel scrap from C3 excluding the scrap used in A3 replaces 100% of stainless steel;** • **SiBr scrap from C3 excluding the scrap used in A3 replaces 100% of SiBr;** • **Brass scrap from C3 excluding the scrap used in A3 replaces 100% of brass;** • **Plastic recyclate from C3 excluding the plastics used in A3 replaces 60% of tetrafluoroethylene.** • **Benefits from incineration plant: Electricity replaces electricity mix (GLO). thermal energy replaces thermal energy from natural gas (RoW).**

The values in Module D result from recycling of the packaging material in Module A5 and from deconstruction at the end of service life.

The 100% scenarios differ from the current average recovery shown here (in background report D4). The evaluation of each scenario is described in the background report.

Since this is a single scenario. the results are shown in the summary table.

Annex B

Conversion table for unit weights

Material	Sytem	Product subgroup	Designation	Model no.	Dimensions	Item no.	Mass in grams
106441	Sanpress	Sanpress-Fittings	Bogen 90° mit SC	2214NU	18 X 3/4	748456	115.000
106491	Sanpress	Sanpress-Fittings	Bogen 90° mit SC	2214NU	15 X 3/4	748470	114.000
106441	Sanpress	Sanpress-Fittings	Elbow 90° with SC	2214NU	18 X 3/4	748456	115
106491	Sanpress	Sanpress-Fittings	Elbow 90° with SC	2214NU	15 X 3/4	748470	114
106751	Sanpress	Sanpress-Fittings	Elbow 90° with SC	22142NU	15 X 3/8	747862	44
106771	Sanpress	Sanpress-Fittings	Elbow 90° with SC	22142NU	18 X 1/2	747879	68
106781	Sanpress	Sanpress-Fittings	Elbow 90° with SC	22142NU	22 X 1/2	747886	89
106791	Sanpress	Sanpress-Fittings	Elbow 90° with SC	22142NU	28 X 1/2	748487	117
106831	Sanpress	Sanpress-Fittings	Elbow 90° with SC	22142NU	28 X 3/4	748494	123.1
106851	Sanpress	Sanpress-Fittings	Elbow 90° with SC	22142NU	42 X 1 1/2	748500	420
106861	Sanpress	Sanpress-Fittings	Elbow 90° with SC	22142NU	22 X 1	748517	133
106881	Sanpress	Sanpress-Fittings	Elbow 90° with SC	22141NU	15 X 1/2	747916	52.8
106911	Sanpress	Sanpress-Fittings	Tee with SC	2218NU	15 X 18 X 15	748555	134.352
106971	Sanpress	Sanpress-Fittings	Elbow 90° with SC	2214NU	54 X 2	790684	636
106981	Sanpress	Sanpress-Fittings	Elbow 90° with SC	22142NU	54 X 2	790691	789
107071	Sanpress	Sanpress-Fittings	Tee with SC	22172NU	22 X 3/4 X 22	748609	157.3
107091	Sanpress	Sanpress-Fittings	Tee with SC	22172NU	35 X 1 X 35	748616	310
107101	Sanpress	Sanpress-Fittings	Tee with SC	22172NU	42 X 1 X 42	748623	450
107111	Sanpress	Sanpress-Fittings	Tee with SC	22172NU	54 X 1 X 54	748630	659
107121	Sanpress	Sanpress-Fittings	Tee with SC	22171NU	18 X 3/4 X 18	748647	120
107151	Sanpress	Sanpress-Fittings	Adapter	22609NU	22 X 1	752286	112.6
107181	Sanpress	Sanpress-F. without thread	Reducer with SC	22151NU	15 X 12	748678	25.42
107211	Sanpress	Sanpress-F. without thread	Sliding coupling with SC	22155NU	42	748708	339.31
107231	Sanpress	Sanpress-Fittings	Adapter with SC	2212NU	12 X 3/8	748722	30.2
107251	Sanpress	Sanpress-Fittings	Adapter with SC	2212NU	12 X 1/2	748739	54
107271	Sanpress	Sanpress-Fittings	Adapter with SC	2212NU	28 X 1/2	748746	81.32
107301	Sanpress	Sanpress-Fittings	Adapter with SC	2212NU	28 X 1 1/4	748753	150.47
107311	Sanpress	Sanpress-Fittings	Adapter with SC	2212NU	42 X 1 1/4	748760	192.9
107321	Sanpress	Sanpress-Fittings	Adapter with SC	2212NU	42 X 1 1/2	748777	250.15
107341	Sanpress	Sanpress-Fittings	Adapter with SC	2212NU	35 X 3/4	747930	112.7
107421	Sanpress	Sanpress-Fittings	Adapter with SC	2211NU	12 X 3/8	748906	27.6
107431	Sanpress	Sanpress-Fittings	Adapter with SC	2211NU	12 X 1/2	748913	33.8
107441	Sanpress	Sanpress-Fittings	Adapter with SC	2211NU	35 X 1 1/2	748920	216.8
107451	Sanpress	Sanpress-Fittings	Adapter with SC	2211NU	54 X 1 1/2	748937	355.25
107521	Sanpress	Sanpress-Fittings	Adapter	22114NU	15 X 1/2	748999	41.8
107531	Sanpress	Sanpress-Fittings	Adapter with SC	22123NU	15 X 1/2	749002	59.6

Material	Sytem	Product subgroup	Designation	Model no.	Dimensions	Item no.	Mass in grams
107541	Sanpress	Sanpress-Fittings	Adapter with SC	22123NU	18 X 1/2	749019	68
107551	Sanpress	Sanpress-Fittings	Adapter with SC	22123NU	22 X 1/2	749026	72.5
107641	Sanpress	Sanpress-Fittings	Adapter with SC	22609NU	28 X 1 1/4	776640	163
107681	Sanpress	Sanpress-Fittings	Union with SC	2260NU	28	749033	317.14
107701	Sanpress	Sanpress-Fittings	Union with SC	2260NU	42	749057	613.83
107801	Sanpress	Sanpress-Fittings	Insulation union with SC	2267NU	18 X 3/4	749101	298
107821	Sanpress	Sanpress-Fittings	Insulation union with SC	2267NU	22 X 3/4	749118	474.5
107841	Sanpress	Sanpress-Fittings	Insulation union with SC	2267NU	22 X 1	749125	459.66
107851	Sanpress	Sanpress-Fittings	Insulation union with SC	2267NU	28 X 1	749132	449.1
107861	Sanpress	Sanpress-Fittings	Insulation union with SC	2267NU	35 X 1 1/4	749149	765.16
107881	Sanpress	Sanpress-Fittings	Insulation union with SC	2267NU	42 X 1 1/2	749156	855
107891	Sanpress	Sanpress-Fittings	Insulation union with SC	2267NU	54 X 2	749163	1332
107901	Sanpress	Sanpress-Fittings	Union with SC	2262NU	28 X 3/4	749170	249
107921	Sanpress	Sanpress-Fittings	Union with SC	2262NU	42 X 1 1/2	749187	558
107941	Sanpress	Sanpress-Fittings	Union with SC	2265NU	28 X 3/4	749200	303.2
107951	Sanpress	Sanpress-Fittings	Union with SC	2265NU	42 X 1 1/2	749217	564.2
108051	Sanpress	Sanpress-Fittings	Flange adapter with SC	22595NU	54 (DN50)	749286	2930.4
108101	Sanpress	Sanpress-Fittings	Wall plate with SC	22255NU	18 X 3/4	749293	161
108151	Sanpress	Sanpress-Fittings	Sliding coupling with SC	22154NU	28	749323	243
108191	Sanpress	Sanpress-Fittings	Union with SC	2263NU	28 X 1	749361	123.3
108201	Sanpress	Sanpress-Fittings	Union with SC	2263NU	54 X 2 3/4	749378	640
108251	Sanpress	Sanpress-Fittings	Union with SC	2263NU	42 X 2	749415	356
108261	Sanpress	Sanpress-Fittings	Union with SC	2263NU	15 X 1	749422	79.01
108281	Sanpress	Sanpress-Fittings	Union with SC	2263NU	18 X 1	749439	81.4
108291	Sanpress	Sanpress-Fittings	Union with SC	2263NU	22 X 3/4	749446	86.3
108511	Sanpress	Sanpress-Fittings	Adapter with SC	2212NU	54 X 1 1/2	747923	361.1
109341	Sanpress	Sanpress-Fittings	Coupling	97780NU	12 X 10	749705	27.2
109401	Sanpress	Sanpress-Fittings	Coupling	97781NU	15 X 10	749712	33.7
109541	Sanpress	Sanpress-Fittings	Adapter with SC	22609NU	35 X 1 1/2	776756	203.81
109561	Sanpress	Sanpress-Fittings	Adapter with SC	22609NU	18 X 3/4	776763	62.03
204211	Sanpress	Sanpress-Fittings	Adapter with SC	2211	14 X 3/8	443689	33.9
204221	Sanpress	Sanpress-Fittings	Adapter with SC	2211	14 X 1/2	443696	43.6
204231	Sanpress	Sanpress-Fittings	Adapter with SC	2211	16 X 1/2	443702	48.4
204241	Sanpress	Sanpress-Fittings	Adapter with SC	2211	16 X 3/4	443719	62.4
204251	Sanpress	Sanpress-Fittings	Adapter with SC	2212	14 X 1/2	443726	56.3
204261	Sanpress	Sanpress-Fittings	Adapter with SC	2212	16 X 1/2	443733	60.2
204431	Sanpress	Sanpress-Fittings	Union with SC	2263	14 X 3/8	476786	53.5
204601	Sanpress	Sanpress-Fittings	Elbow 90° with SC	2214	14 X 1/2	444006	60
204611	Sanpress	Sanpress-Fittings	Elbow 90° with SC	2214	16 X 1/2	444013	60.5
204621	Sanpress	Sanpress-Fittings	Union with SC	2263	14 X 1/2	443849	51.9

Material	Sytem	Product subgroup	Designation	Model no.	Dimensions	Item no.	Mass in grams
204631	Sanpress	Sanpress-Fittings	Union with SC	2263	14 X 3/4	444150	68.75
204641	Sanpress	Sanpress-Fittings	Union with SC	2263	16 X 1/2	444167	54.8
204651	Sanpress	Sanpress-Fittings	Union with SC	2263	16 X 3/4	444174	69.5
204831	Sanpress	Sanpress-Fittings	Elbow 90° with SC	22142	14 X 1/2	444020	60.7
204841	Sanpress	Sanpress-Fittings	Elbow 90° with SC	22142	16 X 1/2	444037	73.5
204851	Sanpress	Sanpress-Fittings	Wall plate with SC	22255	14 X 1/2	444044	110.9
204861	Sanpress	Sanpress-Fittings	Wall plate with SC	22255	16 X 1/2	444556	116
213251	Sanpress	Sanpress-Fittings	Elbow	2255 713	1/2 X 3/4	390969	96.9
213271	Sanpress	Sanpress-Fittings	Elbow	2255 713	1 1/4 X 1 1/2	390983	322
213311	Sanpress	Sanpress-Fittings	Elbow	2255 713	3/4 X 1	391027	154
214621	Sanpress	Sanpress-Fittings	Double wall plate with SC	29287ZL	1/2 X 1/2 X 1/2	788005	176.9
214641	Sanpress	Sanpress-Fittings	Double wall plate with SC	29287ZL	3/4 X 3/4 X 3/4	788012	260
214651	Sanpress	Sanpress-Fittings	Adapter	29115ZL	1 1/4	788104	136
214661	Sanpress	Sanpress-Fittings	Adapter	29115ZL	1 1/2	788111	212.3
214671	Sanpress	Sanpress-Fittings	Adapter	29115ZL	2	788128	304.5
215271	Sanpress LF	Sanpress XL	Elbow 90°	2216LF	76.1	432256	2300
215281	Sanpress LF	Sanpress XL	Elbow 90°	2216LF	88.9	432263	2710
215291	Sanpress LF	Sanpress XL	Elbow 90°	2216LF	108.0	432270	3820
215371	Sanpress LF	Sanpress XL	Elbow 90°	22161LF	76.1	432287	2091
215391	Sanpress LF	Sanpress XL	Elbow 90°	22161LF	108.0	432300	3550
215491	Sanpress LF	Sanpress XL	Elbow 45°	2226LF	108.0	432331	2915
215681	Sanpress LF	Sanpress-Fittings	Elbow with SC	22142LF	15 X 1/2	430306	89
215691	Sanpress LF	Sanpress-Fittings	Elbow	22142LF	15 X 3/4	430313	119
215701	Sanpress LF	Sanpress-Fittings	Elbow with SC	22142LF	18 X 1/2	430320	88.7
215731	Sanpress LF	Sanpress-Fittings	Elbow	22142LF	22 X 3/4	430351	154
215751	Sanpress LF	Sanpress-Fittings	Elbow with SC	22142LF	28 X 1	430375	247
216491	Sanpress	Sanpress-Fittings	Double wall plate with SC	29287ZL	3/4 X 3/4 X 1/2	788029	246.7
216501	Sanpress	Sanpress-Fittings	Double wall plate with SC	29287ZL	1 X 1 X 1/2	788036	322
217331	Sanpress LF	Sanpress XL	Tee	2218LF	88.9	432386	3710
217341	Sanpress LF	Sanpress XL	Tee	2218LF	108.0	432393	5200
217351	Sanpress LF	Sanpress XL	Tee	2218LF	76.1 X 54 X 76.1	432409	2458
217361	Sanpress LF	Sanpress XL	Tee	2218LF	88.9 X 54 X 88.9	432416	2740
217371	Sanpress LF	Sanpress XL	Tee	2218LF	88.9 X 76.1 X 88.9	432423	3555
217381	Sanpress LF	Sanpress XL	Tee	2218LF	108.0 X 54 X 108.0	432430	3598
217401	Sanpress LF	Sanpress XL	Tee	2218LF	108.0X88.9X108.0	432454	4676
217471	Sanpress LF	Sanpress-Fittings	Tee	22172LF	15 X 1/2 X 15	430245	118.3
217481	Sanpress LF	Sanpress-Fittings	Tee with SC	22172LF	18 X 1/2 X 18	430757	198
217491	Sanpress LF	Sanpress-Fittings	Tee	22172LF	22 X 1/2 X 22	430764	211
217511	Sanpress LF	Sanpress-Fittings	Tee with SC	22172LF	28 X 1/2 X 28	430788	259
217521	Sanpress LF	Sanpress-Fittings	Tee	22172LF	28 X 3/4 X 28	430795	302

Material	Sytem	Product subgroup	Designation	Model no.	Dimensions	Item no.	Mass in grams
217531	Sanpress LF	Sanpress-Fittings	Tee with SC	22172LF	35 X 1/2 X 35	430801	298
217541	Sanpress LF	Sanpress-Fittings	Tee	22172LF	35 X 1 X 35	430818	457
217561	Sanpress LF	Sanpress-Fittings	Tee with SC	22172LF	42 X 1 X 42	430832	658
217571	Sanpress LF	Sanpress-Fittings	Tee with SC	22172LF	54 X 1/2 X 54	430849	620
217591	Sanpress LF	Sanpress XL	Tee	22172LF	76.1 X 3/4 X 76.1	432461	1962
217651	Sanpress LF	Sanpress-Fittings	Adapter with SC	2211LF	15 X 1/2	430863	39.4
217661	Sanpress LF	Sanpress-Fittings	Adapter	2211LF	15 X 3/4	430870	57.2
217671	Sanpress LF	Sanpress-Fittings	Adapter with SC	2211LF	18 X 1/2	430887	45.3
217691	Sanpress LF	Sanpress-Fittings	Adapter with SC	2211LF	22 X 1/2	430900	65
217701	Sanpress LF	Sanpress-Fittings	Adapter with SC	2211LF	22 X 3/4	430917	70.6
217711	Sanpress LF	Sanpress-Fittings	Adapter with SC	2211LF	22 X 1	430924	116.5
217721	Sanpress LF	Sanpress-Fittings	Adapter with SC	2211LF	28 X 1	430931	112
217731	Sanpress LF	Sanpress-Fittings	Adapter	2211LF	28 X 1 1/4	430948	185
217741	Sanpress LF	Sanpress-Fittings	Adapter with SC	2211LF	35 X 1	430955	137.2
217751	Sanpress LF	Sanpress-Fittings	Adapter with SC	2211LF	35 X 1 1/4	430962	207
217761	Sanpress LF	Sanpress-Fittings	Adapter	2211LF	35 X 1 1/2	430979	227.7
217771	Sanpress LF	Sanpress-Fittings	Adapter with SC	2211LF	42 X 1 1/4	430986	211.8
217781	Sanpress LF	Sanpress-Fittings	Adapter with SC	2211LF	42 X 1 1/2	430993	234.5
217791	Sanpress LF	Sanpress-Fittings	Adapter with SC	2211LF	54 X 1 1/2	431006	493
217801	Sanpress LF	Sanpress-Fittings	Adapter with SC	2211LF	54 X 2	431013	503
217811	Sanpress LF	Sanpress XL	Adapter	2211LF	76.1 X 2 1/2	432522	1005
217841	Sanpress LF	Sanpress-Fittings	Adapter with SC	2212LF	15 X 1/2	431020	47.9
217851	Sanpress LF	Sanpress-Fittings	Adapter	2212LF	15 X 3/4	431037	57.8
217861	Sanpress LF	Sanpress-Fittings	Adapter with SC	2212LF	18 X 1/2	431044	51.3
217881	Sanpress LF	Sanpress-Fittings	Adapter with SC	2212LF	22 X 1/2	431068	60.5
217891	Sanpress LF	Sanpress-Fittings	Adapter	2212LF	22 X 3/4	431075	70.4
217901	Sanpress LF	Sanpress-Fittings	Adapter	2212LF	22 X 1	431082	100.4
217911	Sanpress LF	Sanpress-Fittings	Adapter with SC	2212LF	28 X 1	431099	99.2
217931	Sanpress LF	Sanpress-Fittings	Adapter	2212LF	35 X 1	431112	110
217941	Sanpress LF	Sanpress-Fittings	Adapter with SC	2212LF	35 X 1 1/4	431129	165.1
217951	Sanpress LF	Sanpress-Fittings	Adapter	2212LF	42 X 1 1/4	431136	222.6
217961	Sanpress LF	Sanpress-Fittings	Adapter with SC	2212LF	42 X 1 1/2	431143	280.6
217981	Sanpress LF	Sanpress-Fittings	Adapter with SC	2212LF	54 X 2	431167	475
218061	Sanpress LF	Sanpress XL	Coupling	2215LF	76.1	432553	1237
218071	Sanpress LF	Sanpress XL	Coupling	2215LF	88.9	432560	1412
218081	Sanpress LF	Sanpress XL	Coupling	2215LF	108.0	432577	2045
218161	Sanpress LF	Sanpress XL	Sliding coupling	22155LF	76.1	432584	1221
218171	Sanpress LF	Sanpress XL	Sliding coupling	22155LF	88.9	432591	1384
218341	Sanpress LF	Sanpress XL	Reducer	22151LF	76.1 X 54	432614	770
218351	Sanpress LF	Sanpress XL	Reducer	22151LF	88.9 X 54	432621	959

Material	Sytem	Product subgroup	Designation	Model no.	Dimensions	Item no.	Mass in grams
218361	Sanpress LF	Sanpress XL	Reducer	22151LF	88.9 X 76.1	432638	1245
218371	Sanpress LF	Sanpress XL	Reducer	22151LF	108.0 X 54	432645	1315
218381	Sanpress LF	Sanpress XL	Reducer	22151LF	108.0 X 76.1	432850	1615.25
218391	Sanpress LF	Sanpress XL	Reducer	22151LF	108.0 X 88.9	432867	1658
218401	Sanpress LF	Sanpress-Fittings	Union	2260LF	15	431464	125.3
218421	Sanpress LF	Sanpress-Fittings	Union with SC	2260LF	22	431488	225
218431	Sanpress LF	Sanpress-Fittings	Union with SC	2260LF	28	431495	364
218591	Sanpress LF	Sanpress-Fittings	Union with SC	2265LF	18 X 1/2	431655	130.7
218611	Sanpress LF	Sanpress-Fittings	Union with SC	2265LF	22 X 1/2	431679	198
218621	Sanpress LF	Sanpress-Fittings	Union with SC	2265LF	22 X 3/4	431686	210
218651	Sanpress LF	Sanpress-Fittings	Union with SC	2265LF	35 X 1 1/4	431716	435
218661	Sanpress LF	Sanpress-Fittings	Union with SC	2265LF	42 X 1 1/2	431723	569
218671	Sanpress LF	Sanpress-Fittings	Union with SC	2265LF	54 X 2	431730	991
218771	Sanpress LF	Sanpress-Fittings	Union with SC	2263LF	15 X 3/4	431839	67.4
218791	Sanpress LF	Sanpress-Fittings	Union with SC	2263LF	18 X 3/4	431853	72.2
218801	Sanpress LF	Sanpress-Fittings	Union	2263LF	18 X 1	431860	89
218811	Sanpress LF	Sanpress-Fittings	Union with SC	2263LF	22 X 3/4	431877	88.3
218821	Sanpress LF	Sanpress-Fittings	Union with SC	2263LF	22 X 1	431884	112.4
218851	Sanpress LF	Sanpress-Fittings	Union with SC	2263LF	28 X 1 1/4	431914	172
218881	Sanpress LF	Sanpress-Fittings	Union with SC	2263LF	42 X 1 3/4	431945	345.4
218901	Sanpress LF	Sanpress-Fittings	Union with SC	2263LF	54 X 2 3/8	431969	564
220251	Sanpress LF	Sanpress-Fittings	Wall plate with SC	22255LF	15 X 1/2	432027	138
220261	Sanpress LF	Sanpress-Fittings	Wall plate with SC	22255LF	18 X 1/2	432034	130
220281	Sanpress LF	Sanpress-Fittings	Wall plate	22255LF	22 X 1/2	432058	183
224001	Sanpress	Sanpress-F. without thread	Cross piece with SC	2244	15 X 15 X 15	424435	183
224031	Sanpress	Sanpress-F. without thread	Cross piece with SC	2244	18 X 15 X 18	424473	204
224051	Sanpress	Sanpress-F. without thread	Cross piece with SC	2244	22 X 15 X 22	424497	224
224061	Sanpress	Sanpress-Fittings	Connection set with SC	22731	15 X 1/2 X 15	446628	845
224071	Sanpress	Sanpress-Fittings	Connection set with SC	22731	18 X 1/2 X 18	446635	855
224161	Sanpress	Sanpress-Fittings	Elbow 90° with SC	2214	15 X 3/4	443030	117.34
224191	Sanpress	Sanpress-Fittings	Elbow 90° with SC	22142	28 X 3/4	446611	127.75
224611	Sanpress	Sanpress-Fittings	Elbow 90° with SC	22142	28 X 1/2	442033	117
225001	Sanpress	Sanpress-Fittings	Adapter with SC	2211NU	15 X 1/2	389130	40.9
225011	Sanpress	Sanpress-Fittings	Adapter with SC	2211NU	15 X 3/4	389222	57.7
225021	Sanpress	Sanpress-Fittings	Adapter with SC	2211NU	15 X 3/8	389246	33.5
225031	Sanpress	Sanpress-Fittings	Adapter with SC	2211NU	18 X 1/2	389154	45.22
225041	Sanpress	Sanpress-Fittings	Adapter with SC	2211NU	18 X 3/4	389192	64.28
225051	Sanpress	Sanpress-Fittings	Adapter with SC	2211NU	22 X 1	389185	107.3
225061	Sanpress	Sanpress-Fittings	Adapter with SC	2211NU	22 X 1/2	389178	66.1
225071	Sanpress	Sanpress-Fittings	Adapter with SC	2211NU	22 X 3/4	389123	71.2

Material	Sytem	Product subgroup	Designation	Model no.	Dimensions	Item no.	Mass in grams
225081	Sanpress	Sanpress-Fittings	Adapter with SC	2211NU	28 X 1	389147	109
225091	Sanpress	Sanpress-Fittings	Adapter with SC	2211NU	28 X 1 1/4	389239	140.3
225101	Sanpress	Sanpress-Fittings	Adapter with SC	2211NU	28 X 3/4	384951	88.1
225111	Sanpress	Sanpress-Fittings	Adapter with SC	2211NU	35 X 1	384968	126.4
225121	Sanpress	Sanpress-Fittings	Adapter with SC	2211NU	35 X 1 1/4	389161	175.6
225131	Sanpress	Sanpress-Fittings	Adapter with SC	2211NU	42 X 1 1/2	389215	236.7
225141	Sanpress	Sanpress-Fittings	Adapter with SC	2211NU	42 X 1 1/4	389253	205.9
225151	Sanpress	Sanpress-Fittings	Adapter with SC	2211NU	54 X 2	389208	426.7
225161	Sanpress	Sanpress-Fittings	Plug-in piece	22111NU	15 X 1/2	389260	44.9
225171	Sanpress	Sanpress-Fittings	Plug-in piece	22111NU	22 X 1/2	389284	54.1
225181	Sanpress	Sanpress-Fittings	Plug-in piece	22111NU	22 X 3/4	384975	79.2
225191	Sanpress	Sanpress-Fittings	Plug-in piece	22111NU	28 X 1	389277	119.35
225301	Sanpress	Sanpress-Fittings	Adapter with SC	2212NU	15 X 1/2	389291	51.33
225311	Sanpress	Sanpress-Fittings	Adapter with SC	2212NU	15 X 3/4	389383	57.8
225321	Sanpress	Sanpress-Fittings	Adapter with SC	2212NU	15 X 3/8	389390	30.7
225331	Sanpress	Sanpress-Fittings	Adapter with SC	2212NU	18 X 1/2	389345	53.44
225341	Sanpress	Sanpress-Fittings	Adapter with SC	2212NU	18 X 3/4	389369	66
225351	Sanpress	Sanpress-Fittings	Adapter with SC	2212NU	22 X 1	389376	100.4
225361	Sanpress	Sanpress-Fittings	Adapter with SC	2212NU	22 X 1/2	389314	60.4
225371	Sanpress	Sanpress-Fittings	Adapter with SC	2212NU	22 X 3/4	389307	70.3
225381	Sanpress	Sanpress-Fittings	Adapter with SC	2212NU	28 X 1	389321	107
225391	Sanpress	Sanpress-Fittings	Adapter with SC	2212NU	28 X 3/4	389338	84.17
225401	Sanpress	Sanpress-Fittings	Adapter with SC	2212NU	35 X 1	384982	119.62
225411	Sanpress	Sanpress-Fittings	Adapter with SC	2212NU	35 X 1 1/4	389352	155.7
225421	Sanpress	Sanpress-Fittings	Adapter with SC	2212NU	54 X 2	389406	387.8
225431	Sanpress	Sanpress-Fittings	Plug-in piece	22121NU	15 X 1/2	389420	43.86
225441	Sanpress	Sanpress-Fittings	Plug-in piece	22121NU	18 X 1/2	384999	41.1
225451	Sanpress	Sanpress-Fittings	Plug-in piece	22121NU	22 X 1/2	389413	48.89
225461	Sanpress	Sanpress-Fittings	Plug-in piece	22121NU	22 X 3/4	385002	62.73
225471	Sanpress	Sanpress-Fittings	Plug-in piece	22121NU	28 X 1	389444	97.8
225481	Sanpress	Sanpress-Fittings	Plug-in piece	22121NU	28 X 3/4	389437	67.76
225611	Sanpress	Sanpress-Fittings	Adapter with SC	2213PNU	20 X 22	389475	69
225651	Sanpress	Sanpress-Fittings	Elbow with SC	2214NU	15 X 1/2	389499	101
225661	Sanpress	Sanpress-Fittings	Elbow with SC	2214NU	18 X 1/2	389512	75
225671	Sanpress	Sanpress-Fittings	Elbow with SC	2214NU	22 X 3/4	389482	101.9
225681	Sanpress	Sanpress-Fittings	Elbow with SC	2214NU	28 X 1	385026	186
225691	Sanpress	Sanpress-Fittings	Elbow with SC	2214NU	35 X 1 1/4	389505	276
225751	Sanpress	Sanpress-Fittings	Elbow 90° with SC	22142NU	15 X 1/2	389529	57.34
225761	Sanpress	Sanpress-Fittings	Elbow 90° with SC	22142NU	22 X 3/4	389536	105.3
225771	Sanpress	Sanpress-Fittings	Elbow 90° with SC	22142NU	28 X 1	389543	162.81

Material	Sytem	Product subgroup	Designation	Model no.	Dimensions	Item no.	Mass in grams
225781	Sanpress	Sanpress-Fittings	Elbow 90° with SC	22142NU	35 X 1 1/4	385033	304
226051	Sanpress	Sanpress-F. without thread	Sliding coupling with SC	22155NU	15	389758	68.53
226061	Sanpress	Sanpress-F. without thread	Sliding coupling with SC	22155NU	18	389765	84
226071	Sanpress	Sanpress-F. without thread	Sliding coupling with SC	22155NU	22	389734	115.3
226081	Sanpress	Sanpress-F. without thread	Sliding coupling with SC	22155NU	28	389727	152.18
226091	Sanpress	Sanpress-F. without thread	Sliding coupling with SC	22155NU	35	389741	213
226103	Sanpress	Sanpress-Fittings	Coupling with SC	2215NU	12	807900	27.06
226113	Sanpress	Sanpress-Fittings	Coupling with SC	2215NU	15	807917	37.15
226123	Sanpress	Sanpress-Fittings	Coupling with SC	2215NU	18	807924	49.43
226133	Sanpress	Sanpress-Fittings	Coupling with SC	2215NU	22	807931	70.5
226143	Sanpress	Sanpress-Fittings	Coupling with SC	2215NU	28	807948	86.2
226301	Sanpress	Sanpress-Fittings	Tee with SC	22171NU	22 X 3/4 X 22	389871	149
226311	Sanpress	Sanpress-Fittings	Tee with SC	22171NU	28 X 3/4 X 28	389864	172
226321	Sanpress	Sanpress-Fittings	Tee with SC	22171NU	35 X 3/4 X 35	389888	269
226351	Sanpress	Sanpress-Fittings	Tee with SC	22172NU	15 X 1/2 X 15	389918	80
226361	Sanpress	Sanpress-Fittings	Tee with SC	22172NU	18 X 1/2 X 18	389925	92.52
226371	Sanpress	Sanpress-Fittings	Tee with SC	22172NU	22 X 1/2 X 22	389895	125
226381	Sanpress	Sanpress-Fittings	Tee with SC	22172NU	28 X 1/2 X 28	389901	152
226391	Sanpress	Sanpress-Fittings	Tee with SC	22172NU	28 X 3/4 X 28	389949	192.5
226401	Sanpress	Sanpress-Fittings	Tee with SC	22172NU	35 X 1/2 X 35	389932	214
226411	Sanpress	Sanpress-Fittings	Tee with SC	22172NU	42 X 1/2 X 42	389956	384
226701	Sanpress	Sanpress-Fittings	Wall plate with SC	2225NU	15 X 1/2 X 45	385088	168
226711	Sanpress	Sanpress-Fittings	Wall plate with SC	22255NU	12 X 1/2	390143	91.2
226721	Sanpress	Sanpress-Fittings	Wall plate with SC	22255NU	15 X 1/2	390136	107.4
226731	Sanpress	Sanpress-Fittings	Wall plate with SC	22255NU	18 X 1/2	390150	111.9
226741	Sanpress	Sanpress-Fittings	Wall plate with SC	22255NU	22 X 1/2	390167	129
226911	Sanpress	Sanpress-Fittings	Union with SC	2263NU	15 X 3/4	390310	66.38
226921	Sanpress	Sanpress-Fittings	Union with SC	2263NU	18 X 3/4	390327	70.2
226931	Sanpress	Sanpress-Fittings	Union with SC	2263NU	22 X 1	390280	108.92
226941	Sanpress	Sanpress-Fittings	Union with SC	2263NU	28 X 1 1/4	390297	159.76
226951	Sanpress	Sanpress-Fittings	Union with SC	2263NU	35 X 1 1/2	390303	205.8
226961	Sanpress	Sanpress-Fittings	Union with SC	2263NU	42 X 1 3/4	390334	335
226971	Sanpress	Sanpress-Fittings	Union with SC	2263NU	54 X 2 3/8	390341	538
234591	Sanpress	Sanpress-Fittings	Union with SC	2263NU	22 X 1 1/4	629427	190.1
234691	Sanpress	Sanpress-Fittings	Union with SC	2263NU	22 X 1 1/2	629434	165.1
234991	Sanpress	Sanpress-Fittings	Union with SC	2263NU	28 X 1 1/2	629441	181.62
235361	Sanpress	Sanpress-Fittings	Insert	22409	1/2	460402	69.7
235371	Sanpress	Sanpress-Fittings	Insert	22409	3/4	460419	115
235791	Sanpress	Sanpress-Fittings	Union with SC	2263NU	35 X 2	629458	263.7
244481	Sanpress	Sanpress-F. without thread	Tension coupling	22769	12	632236	30.52

Material	Sytem	Product subgroup	Designation	Model no.	Dimensions	Item no.	Mass in grams
244491	Sanpress	Sanpress-F. without thread	Connection set with SC	22761	28/35 X 12	632229	185.33
245301	Sanpress	Sanpress-Fittings	Insulation union with SC	2267	15 X 1/2	469450	193.3
245311	Sanpress	Sanpress-Fittings	Insulation union with SC	2267	15 X 3/4	469467	199.5
245321	Sanpress	Sanpress-Fittings	Insulation union with SC	2267	18 X 1/2	469474	331.6
245331	Sanpress	Sanpress-Fittings	Insulation union with SC	2267	18 X 3/4	469481	307.9
245341	Sanpress	Sanpress-Fittings	Insulation union with SC	2267	22 X 3/4	469498	464.57
245351	Sanpress	Sanpress-Fittings	Insulation union with SC	2267	22 X 1	469504	442.86
245361	Sanpress	Sanpress-Fittings	Insulation union with SC	2267	28 X 1	469511	462.3
245371	Sanpress	Sanpress-Fittings	Insulation union with SC	2267	35 X 1 1/4	469528	777.5
245381	Sanpress	Sanpress-Fittings	Insulation union with SC	2267	42 X 1 1/2	469535	853.6
245391	Sanpress	Sanpress-Fittings	Insulation union with SC	2267	54 X 2	469542	1334
247001	Sanpress	Sanpress-F. without thread	Flange adapter with SC	22595	28 (DN25)	479855	1340
247011	Sanpress	Sanpress-F. without thread	Flange adapter with SC	22595	35 (DN32)	479879	1970
247021	Sanpress	Sanpress-F. without thread	Flange adapter with SC	22595	42 (DN40)	479886	2394
247031	Sanpress	Sanpress-F. without thread	Flange adapter with SC	22595	54 (DN50)	479893	2849
247041	Sanpress	Sanpress XL	Flange adapter	22595XL	76.1 (DN65)	479954	3520
247051	Sanpress	Sanpress XL	Flange adapter	22595XL	88.9 (DN80)	479978	4446.5
247061	Sanpress	Sanpress XL	Flange adapter	22595XL	108.0 (DN100)	480011	5160
248801	Sanpress	Sanpress-F. without thread	Connection set with SC	22761	35 X 12	470272	202.1
248811	Sanpress	Sanpress-F. without thread	Connection set with SC	22761	28 X 12	470289	149.1
250001	Sanpress	Sanpress-Fittings	Tee with SC	22174	15 X 1/4 X 15	705596	85
250011	Sanpress	Sanpress-Fittings	Tee with SC	22174	18 X 1/4 X 18	705602	100
250021	Sanpress	Sanpress-Fittings	Tee with SC	22174	22 X 1/4 X 22	705619	130
250031	Sanpress	Sanpress-Fittings	Tee with SC	22174	28 X 1/4 X 28	705626	163
250041	Sanpress	Sanpress-Fittings	Tee with SC	22174	35 X 1/4 X 35	705633	220
250051	Sanpress	Sanpress-Fittings	Tee with SC	22174	42 X 1/4 X 42	705640	380
250061	Sanpress	Sanpress-Fittings	Tee with SC	22174	54 X 1/4 X 54	705855	530
253217	Sanpress	Sanpress-Fittings	Elbow 90° with SC	2214CR	15X1/2	706296	70
253467	Sanpress	Sanpress-Fittings	Adapter with SC	2211CR	12 X 3/8	706852	28.2
253477	Sanpress	Sanpress-Fittings	Adapter with SC	2211CR	12 X 1/2	706869	33.27
253487	Sanpress	Sanpress-Fittings	Adapter with SC	2211CR	15 X 1/2	706876	41.1
253497	Sanpress	Sanpress-Fittings	Adapter with SC	2212CR	12 X 1/2	706883	54.5
253507	Sanpress	Sanpress-Fittings	Adapter with SC	2212CR	15 X 1/2	706890	48.8
254881	Sanpress	Sanpress-Fittings	Adapter with SC	97119SI	22 X G1	635497	149.7
256821	Sanpress	Sanpress-Fittings	Union with SC	2263	12 X 3/8	475956	48
256831	Sanpress	Sanpress-Fittings	Union with SC	2263	15 X 3/8	475963	53.9
268421	Sanpress	Sanpress-Fittings	Union with SC	2263	54 X 2 1/4	426743	456
268431	Sanpress	Sanpress-Fittings	Union with SC	2263	54 X 2 3/4	426750	640.151
273961	Sanpress	Sanpress-Fittings	Sanpress-Crossover	22093	22	193331	140.5
273971	Sanpress	Sanpress-Fittings	Sanpress-Crossover	22093	15	193324	61.3

Material	Sytem	Product subgroup	Designation	Model no.	Dimensions	Item no.	Mass in grams
274641	Sanpress	Sanpress-Fittings	Sanpress-Crossover	22093	28	193294	219
274811	Sanpress	Sanpress-Fittings	Sanpress-Crossover	22093	18	289010	86.9
275061	Sanpress	Sanpress-F. without thread	Coupling with SC	2215	54	215835	355
276211	Sanpress	Sanpress-Fittings	Adapter with SC	2211	42 X 1 1/4	297930	235.3
276221	Sanpress	Sanpress-Fittings	Adapter with SC	2211	35 X 1	297947	132.7
276291	Sanpress	Sanpress-Fittings	Adapter with SC	2211	18 X 1/2	283490	51.25
276551	Sanpress	Sanpress-F. without thread	Tee with SC	2218	35 X 18 X 35	313616	239.5
276561	Sanpress	Sanpress-F. without thread	Tee with SC	2218	22 X 28 X 22	313623	236
276571	Sanpress	Sanpress-F. without thread	Tee with SC	2218	12 X 15 X 12	313630	102
276581	Sanpress	Sanpress-F. without thread	Tee with SC	2218	15 X 18 X 15	313647	136
276671	Sanpress	Sanpress-Fittings	Sanpress-Pipe elbow 45°	22091	42 - 45°	164140	584
276681	Sanpress	Sanpress-Fittings	Sanpress-Pipe elbow 45°	22091	35 - 45°	163433	411
276741	Sanpress	Sanpress-Fittings	Sanpress-Pipe elbow 45°	22091	22 - 45°	157364	155
276791	Sanpress	Sanpress-Fittings	Adapter with SC	2211	18 X 3/4	283230	69.2
276951	Sanpress	Sanpress-Fittings	Adapter with SC	2212	54 X 1 1/2	365097	385.7
277141	Sanpress	Sanpress-Fittings	Adapter with SC	2211	22 X 3/4	104306	78.32
277151	Sanpress	Sanpress-Fittings	Adapter with SC	2211	28 X 1	106508	116.4
277161	Sanpress	Sanpress-Fittings	Adapter with SC	2211	35 X 1 1/4	110352	184.5
277171	Sanpress	Sanpress-Fittings	Adapter with SC	2211	42 X 1 1/2	115340	255.7
277181	Sanpress	Sanpress-Fittings	Adapter with SC	2211	15 X 1/2	105044	45.8
277201	Sanpress	Sanpress-Fittings	Plug-in piece	22111	15 X 1/2	115418	44
277211	Sanpress	Sanpress-Fittings	Plug-in piece	22111	22 X 1/2	119676	53.8
277221	Sanpress	Sanpress-Fittings	Plug-in piece	22111	22 X 3/4	116767	79.02
277231	Sanpress	Sanpress-Fittings	Plug-in piece	22111	28 X 1	122034	120
277241	Sanpress	Sanpress-Fittings	Plug-in piece	22111	35 X 1 1/4	125288	185.6
277251	Sanpress	Sanpress-Fittings	Plug-in piece	22111	42 X 1 1/2	132231	258
277261	Sanpress	Sanpress-Fittings	Adapter with SC	2212	22 X 3/4	108465	83.4
277271	Sanpress	Sanpress-Fittings	Adapter with SC	2212	28 X 1	114329	128.5
277281	Sanpress	Sanpress-Fittings	Adapter with SC	2212	35 X 3/4	357542	115.8
277291	Sanpress	Sanpress-Fittings	Plug-in piece	22121	15 X 1/2	117733	41.2
277301	Sanpress	Sanpress-Fittings	Plug-in piece	22121	22 X 1/2	120917	49.61
277311	Sanpress	Sanpress-Fittings	Plug-in piece	22121	22 X 3/4	117481	62.3
277321	Sanpress	Sanpress-Fittings	Plug-in piece	22121	28 X 1	122942	93.3
277331	Sanpress	Sanpress-Fittings	Plug-in piece	22121	28 X 3/4	130954	67.75
277341	Sanpress	Sanpress-Fittings	Plug-in piece	22121	35 X 1	134730	116
277351	Sanpress	Sanpress-Fittings	Plug-in piece	22121	35 X 1 1/4	130589	171.5
277361	Sanpress	Sanpress-Fittings	Plug-in piece	22121	42 X 1 1/2	135430	225.2
277371	Sanpress	Sanpress-F. without thread	Reducer	22151NC	15 X 14	323707	47.6
277381	Sanpress	Sanpress-F. without thread	Reducer with SC	22151	22 X 12	366865	36.3
277401	Sanpress	Sanpress-Fittings	Adapter with SC	2212	15 X 1/2	107543	64.7

Material	Sytem	Product subgroup	Designation	Model no.	Dimensions	Item no.	Mass in grams
277411	Sanpress	Sanpress-Fittings	Adapter with SC	2212	35 X 1 1/4	116774	174.8
277421	Sanpress	Sanpress-Fittings	Adapter with SC	2212	42 X 1 1/2	124236	319.8
277441	Sanpress	Sanpress-Fittings	Elbow 90° with SC	22141	15 X 1/2	335281	52.8
277461	Sanpress	Sanpress-Fittings	Elbow 90° with SC	2214	15 X 1/2	112950	56
277471	Sanpress	Sanpress-Fittings	Elbow 90° with SC	2214	22 X 3/4	115623	101.9
277481	Sanpress	Sanpress-Fittings	Elbow 90° with SC	2214	28 X 1	118730	180
277491	Sanpress	Sanpress-Fittings	Elbow 90° with SC	2214	42 X 1 1/2	128500	364
277561	Sanpress	Sanpress-Fittings	Elbow 90° with SC	2214	18 X 1/2	281205	73
277571	Sanpress	Sanpress-Fittings	Elbow 90° with SC	2214	35 X 1 1/4	127329	278
277601	Sanpress	Sanpress-F. without thread	Coupling with SC	2215	22	108090	73.2
277611	Sanpress	Sanpress-F. without thread	Coupling with SC	2215	28	108618	99.24
277621	Sanpress	Sanpress-F. without thread	Coupling with SC	2215	35	114930	112.001
277631	Sanpress	Sanpress-F. without thread	Coupling with SC	2215	42	116835	195.5
277641	Sanpress	Sanpress-F. without thread	Reducer with SC	22151	22 X 15	108250	38.8
277651	Sanpress	Sanpress-F. without thread	Coupling with SC	2215	12	308636	24.3
277661	Sanpress	Sanpress-F. without thread	Reducer	22151NC	15 X 16	323714	61.5
277671	Sanpress	Sanpress-F. without thread	Reducer	22151NC	18 X 16	323721	68.1
277701	Sanpress	Sanpress-F. without thread	Reducer with SC	22151	28 X 22	109974	66.201
277711	Sanpress	Sanpress-F. without thread	Reducer with SC	22151	35 X 22	115753	97.1
277721	Sanpress	Sanpress-F. without thread	Reducer with SC	22151	35 X 28	116934	97.8
277731	Sanpress	Sanpress-F. without thread	Reducer with SC	22151	42 X 28	124489	160.9
277741	Sanpress	Sanpress-F. without thread	Reducer with SC	22151	42 X 35	122775	148.7
277751	Sanpress	Sanpress-F. without thread	Coupling with SC	2215	18	282660	46.2
277801	Sanpress	Sanpress-F. without thread	Elbow 90° with SC	2216	22	104818	118.5
277811	Sanpress	Sanpress-F. without thread	Elbow 90° with SC	2216	28	106348	161.8
277821	Sanpress	Sanpress-F. without thread	Elbow 90° with SC	2216	35	111953	230
277831	Sanpress	Sanpress-F. without thread	Elbow 90° with SC	2216	42	119560	381
277901	Sanpress	Sanpress-F. without thread	Elbow 90° with SC	22161	22	108120	117
277911	Sanpress	Sanpress-F. without thread	Elbow 90° with SC	22161	28	115159	164
277921	Sanpress	Sanpress-F. without thread	Elbow 90° with SC	22161	35	117603	250
277931	Sanpress	Sanpress-F. without thread	Elbow 90° with SC	22161	42	130497	368
277941	Sanpress	Sanpress-F. without thread	Elbow 90° with SC	22161	15	107932	48
277991	Sanpress	Sanpress-F. without thread	Elbow 90° with SC	2216	15	103750	56
278001	Sanpress	Sanpress-Fittings	Tee with SC	22172	22 X 1/2 X 22	115944	123.6
278011	Sanpress	Sanpress-Fittings	Tee with SC	22172	15 X 1/2 X 15	115630	80
278021	Sanpress	Sanpress-F. without thread	Adapter	97737	22 X 22	247645	82.7
278031	Sanpress	Sanpress-Fittings	Tee with SC	22172	28 X 1/2 X 28	119768	150.6
278041	Sanpress	Sanpress-Fittings	Tee with SC	22172	35 X 1/2 X 35	121945	216.767
278061	Sanpress	Sanpress-F. without thread	Tee with SC	2218	22 X 15 X 22	109165	131
278071	Sanpress	Sanpress-F. without thread	Tee with SC	2218	22	109257	160

Material	Sytem	Product subgroup	Designation	Model no.	Dimensions	Item no.	Mass in grams
278081	Sanpress	Sanpress-F. without thread	Tee with SC	2218	28 X 22 X 28	111625	195
278091	Sanpress	Sanpress-F. without thread	Tee with SC	2218	28	111915	213.7
278101	Sanpress	Sanpress-F. without thread	Tee with SC	2218	35 X 22 X 35	113469	268
278111	Sanpress	Sanpress-F. without thread	Tee with SC	2218	35 X 28 X 35	118341	296
278121	Sanpress	Sanpress-F. without thread	Tee with SC	2218	35	115265	320
278131	Sanpress	Sanpress-F. without thread	Tee with SC	2218	42 X 35 X 42	120672	472
278141	Sanpress	Sanpress-F. without thread	Tee with SC	2218	42	121259	518
278231	Sanpress	Sanpress-F. without thread	Tee with SC	2218	15	106614	75.8
278261	Sanpress	Sanpress-Fittings	Tee with SC	22172	42 X 1/2 X 42	126230	387
278301	Sanpress	Sanpress-Fittings	Elbow 90° with SC	22142	15 X 1/2	108441	57.34
278321	Sanpress	Sanpress-F. without thread	Coupling with SC	2215	15	107727	33.8
278331	Sanpress	Sanpress-Fittings	Union with SC	2262	18 X 3/4	314910	131.4
278341	Sanpress	Sanpress-F. without thread	Elbow 45° with SC	2226	15	113186	61.1
278351	Sanpress	Sanpress-F. without thread	Elbow 45° with SC	2226	22	112004	90.5
278361	Sanpress	Sanpress-F. without thread	Elbow 45° with SC	2226	28	111670	156.3
278371	Sanpress	Sanpress-F. without thread	Elbow 45° with SC	2226	35	116156	217.9
278381	Sanpress	Sanpress-F. without thread	Elbow 45° with SC	2226	42	128531	350
278441	Sanpress	Sanpress-F. without thread	Tee with SC	2218	22 X 15 X 15	121600	121
278451	Sanpress	Sanpress-F. without thread	Tee with SC	2218	28 X 22 X 22	135102	176
278461	Sanpress	Sanpress-F. without thread	Tee with SC	2218	35 X 28 X 28	121754	265.9
278541	Sanpress	Sanpress-F. without thread	Elbow 45° with SC	22261	15	109332	40.4
278551	Sanpress	Sanpress-F. without thread	Elbow 45° with SC	22261	22	110949	80
278561	Sanpress	Sanpress-F. without thread	Elbow 45° with SC	22261	28	113346	148.11
278571	Sanpress	Sanpress-F. without thread	Elbow 45° with SC	22261	35	121594	226
278581	Sanpress	Sanpress-F. without thread	Elbow 45° with SC	22261	42	134471	372
278641	Sanpress	Sanpress-F. without thread	Sliding coupling with SC	22155	15	119485	81.91
278661	Sanpress	Sanpress-F. without thread	Sliding coupling with SC	22155	22	119041	124.4
278681	Sanpress	Sanpress-F. without thread	Sliding coupling with SC	22155	28	122133	166.52
278701	Sanpress	Sanpress-F. without thread	Sliding coupling with SC	22155	35	124335	229.8
278711	Sanpress	Sanpress-Fittings	Tee with SC	22171	54 X 1 1/4 X 54	310936	831
278721	Sanpress	Sanpress-F. without thread	Sliding coupling with SC	22155	42	131494	387.7
278731	Sanpress	Sanpress-Fittings	Tee with SC	22171	54 X 1 X 54	310929	749
278771	Sanpress	Sanpress-Fittings	Mounting unit with SC	2221	15X1/2X45X150/200	124502	450
278781	Sanpress	Sanpress-Fittings	Mounting unit with SC	22211	15X1/2X45X80/100	135119	410
278811	Sanpress	Sanpress-F. without thread	Sliding coupling with SC	22155	18	287061	99.3
278861	Sanpress	Sanpress-Fittings	Wall plate with SC	22255	22 X 3/4	116057	174
278881	Sanpress	Sanpress-Fittings	Union with SC	2265	12 X 1/2	291389	115.2
278901	Sanpress	Sanpress-Fittings	ElbowUnion with SC	2255	15 X 1/2	125660	161.9
278911	Sanpress	Sanpress-Fittings	ElbowUnion with SC	2255	22 X 3/4	122614	232.6
278921	Sanpress	Sanpress-Fittings	ElbowUnion with SC	2255	22 X 1	132637	328

Material	Sytem	Product subgroup	Designation	Model no.	Dimensions	Item no.	Mass in grams
278931	Sanpress	Sanpress-Fittings	ElbowUnion with SC	2255	28 X 1	128159	404
278941	Sanpress	Sanpress-Fittings	ElbowUnion with SC	2255	35 X 1 1/4	132729	546
278951	Sanpress	Sanpress-Fittings	ElbowUnion with SC	2255	42 X 1 1/2	139872	837
278971	Sanpress	Sanpress-Fittings	Wall plate with SC	2225	15 X 1/2 X 45	116552	166
278981	Sanpress	Sanpress-Fittings	Wall plate with SC	22255	15 X 1/2	107345	107.1
279021	Sanpress	Sanpress-Fittings	Tee with SC	22171	22 X 3/4 X 22	194123	148.329
279031	Sanpress	Sanpress-Fittings	Tee with SC	22171	28 X 3/4 X 28	194130	172
279041	Sanpress	Sanpress-Fittings	Tee with SC	22171	35 X 3/4 X 35	194147	268
279101	Sanpress	Sanpress-F. without thread	Reducer with SC	22151	54 X 28	194239	249.2
279111	Sanpress	Sanpress-F. without thread	Reducer with SC	22151	54 X 35	194222	262.3
279121	Sanpress	Sanpress-Fittings	Adapter with SC	2211	54 X 2	195267	426.5
279161	Sanpress	Sanpress-Fittings	Adapter with SC	2212	54 X 2	195304	416.6
279171	Sanpress	Sanpress-Fittings	Threaded socket	3247 260	1 1/4 X 1 1/2	312473	218
279201	Sanpress	Sanpress-Fittings	Union with SC	2260	15	126148	121.7
279211	Sanpress	Sanpress-Fittings	Union with SC	2260	22	126124	217.3
279221	Sanpress	Sanpress-Fittings	Union with SC	2260	28	124311	318.2
279231	Sanpress	Sanpress-Fittings	Union with SC	2260	35	130947	404.65
279241	Sanpress	Sanpress-Fittings	Union with SC	2260	42	132446	613.4
279311	Sanpress	Sanpress-Fittings	Union with SC	2262	18 X 1/2	283384	126.8
279321	Sanpress	Sanpress-Fittings	Union with SC	2265	18 X 3/4	283377	131.6
279331	Sanpress	Sanpress-Fittings	Union with SC	2265	18 X 1/2	283360	126.7
279341	Sanpress	Sanpress-Fittings	Union with SC	2260	18	287436	134
279541	Sanpress	Sanpress-Fittings	Union with SC	2262	28 X 3/4	365103	250.7
279551	Sanpress	Sanpress-Fittings	Union with SC	2262	15 X 1/2	131937	122.6
279561	Sanpress	Sanpress-Fittings	Union with SC	2262	15 X 3/4	133160	124.1
279571	Sanpress	Sanpress-Fittings	Union with SC	2262	22 X 3/4	125318	205.5
279581	Sanpress	Sanpress-Fittings	Union with SC	2262	22 X 1	133900	235.5
279591	Sanpress	Sanpress-Fittings	Union with SC	2262	28 X 1	128975	332.4
279601	Sanpress	Sanpress-Fittings	Union with SC	2262	35 X 1 1/4	138875	404.1
279611	Sanpress	Sanpress-Fittings	Union with SC	2262	42 X 1 1/2	141745	558.65
279641	Sanpress	Sanpress-Fittings	Union with SC	2265	28 X 3/4	365110	306.3
279651	Sanpress	Sanpress-Fittings	Union with SC	2265	12 X 3/8	291372	109.6
279681	Sanpress	Sanpress-Fittings	Plug-in piece	22121	54 X 2	199104	394.86
279701	Sanpress	Sanpress-Fittings	Union with SC	2265	15 X 1/2	120108	121.38
279711	Sanpress	Sanpress-Fittings	Union with SC	2265	22 X 3/4	119133	201.6
279721	Sanpress	Sanpress-Fittings	Union with SC	2265	28 X 1	120047	305.7
279731	Sanpress	Sanpress-Fittings	Union with SC	2265	35 X 1 1/4	128425	410
279741	Sanpress	Sanpress-Fittings	Union with SC	2265	42 X 1 1/2	135966	558.3
279751	Sanpress	Sanpress-Fittings	Union with SC	2265	15 X 3/4	140878	126.9
279761	Sanpress	Sanpress-Fittings	Union with SC	2265	22 X 1/2	142674	191.35

Material	Sytem	Product subgroup	Designation	Model no.	Dimensions	Item no.	Mass in grams
279771	Sanpress	Sanpress-Fittings	Union with SC	2265	22 X 1	148492	198.7
279791	Sanpress	Sanpress-Fittings	Mounting unit with SC	22226EX	12 X 3/8 X 120	357351	195
279861	Sanpress	Sanpress-Fittings	Mounting unit with SC	22222	15 X 1/2 X 100	308674	203.95
279901	Sanpress	Sanpress-Fittings	Mounting unit with SC	222205	15 X 1/2 X 150	308681	230
279921	Sanpress	Sanpress-F. without thread	Reducer with SC	22151	54 X 42	198879	299.2
279941	Sanpress	Sanpress-Fittings	Union with SC	2263	42 X 1 3/4	265304	332.8
279961	Sanpress	Sanpress-Fittings	Union with SC	2263	54 X 2 3/8	265328	549
279981	Sanpress	Sanpress-Fittings	Test plug	2269	18	289423	264
279991	Sanpress	Sanpress-Fittings	Test plug	2269	54	187798	1111.6
280001	Sanpress	Sanpress-Fittings	Test plug	2269	15	141523	221.6
280011	Sanpress	Sanpress-Fittings	Test plug	2269	22	140557	312
280021	Sanpress	Sanpress-Fittings	Test plug	2269	28	142568	452.7
280031	Sanpress	Sanpress-Fittings	Test plug	2269	35	144111	625
280041	Sanpress	Sanpress-Fittings	Test plug	2269	42	144999	825
280171	Sanpress	Sanpress-Fittings	Union with SC	2263	35 X 1 1/2	265731	205.6
280201	Sanpress	Sanpress-Fittings	Union with SC	2263	28 X 1 1/4	265700	159.6
280221	Sanpress	Sanpress-Fittings	Union with SC	2263	22 X 1	265687	110.1
280241	Sanpress	Sanpress-Fittings	Union with SC	2263	15 X 3/4	265663	65
280251	Sanpress	Sanpress-Fittings	Union with SC	2263	18 X 3/4	283391	71.7
280291	Sanpress	Sanpress-Fittings	Test plug	2269	12	290801	190
280361	Sanpress	Sanpress-Fittings	Plug-in piece	22111	18 X 1/2	285081	48.5
280381	Sanpress	Sanpress-Fittings	Plug-in piece	22111	18 X 3/4	285104	74
280451	Sanpress	Sanpress-Fittings	Plug-in piece	22111	12 X 1/2	291310	44.3
280471	Sanpress	Sanpress-Fittings	Adapter with SC	2211	28 X 3/4	297954	100.3
280481	Sanpress	Sanpress-Fittings	Adapter with SC	2211	22 X 1/2	297961	71.76
280491	Sanpress	Sanpress-Fittings	Adapter with SC	2211	28 X 1 1/4	297978	159.3
280521	Sanpress	Sanpress-Fittings	Adapter with SC	2211	15 X 3/8	297985	36.5
280561	Sanpress	Sanpress-Fittings	Elbow 90° with SC	2214	12 X 3/8	290863	39.4
280571	Sanpress	Sanpress-Fittings	Elbow 90° with SC	2214	12 X 1/2	290870	52.04
280611	Sanpress	Sanpress-Fittings	Elbow 90° with SC	22142	18 X 1/2	281236	68
280631	Sanpress	Sanpress-Fittings	Elbow 90° with SC	22142	35 X 1 1/4	283704	304
280641	Sanpress	Sanpress-Fittings	Elbow 90° with SC	22142	22 X 3/4	283711	106.4
280651	Sanpress	Sanpress-Fittings	Elbow 90° with SC	22142	28 X 1	283728	162.95
280661	Sanpress	Sanpress-Fittings	Elbow 90° with SC	22142	12 X 3/8	290924	43.6
280689	Sanpress	Sanpress-Fittings	Tee with SC	22172NU	12 X 1/2 X 12	763862	68.5
280721	Sanpress	Sanpress-Fittings	Union with SC	2263	12 X 3/4	293611	64.4
280771	Sanpress	Sanpress-Fittings	Elbow 90° with SC	22142	12 X 1/2	290931	50.68
280801	Sanpress	Sanpress-Fittings	Adapter with SC	22123	22 X 1/2	287009	72
280811	Sanpress	Sanpress-Fittings	Adapter with SC	22123	15 X 1/2	287016	59.6
280881	Sanpress	Sanpress-Fittings	Mounting unit with SC	2222	15 X 1/2 X 150	295462	247.8

Material	Sytem	Product subgroup	Designation	Model no.	Dimensions	Item no.	Mass in grams
280911	Sanpress	Sanpress-F. without thread	Reducer with SC	22151	28 X 18	298319	57.2
280941	Sanpress	Sanpress-Fittings	Elbow 90° with SC	22142	18 X 3/4	298227	85.75
280951	Sanpress	Sanpress-Fittings	Elbow 90° with SC	22142	22 X 1/2	298234	92
280961	Sanpress	Sanpress-Fittings	Elbow 90° with SC	22142	15 X 3/8	298241	46.7
281001	Sanpress	Sanpress-Fittings	Plug-in piece	22121	18 X 1/2	287085	44.1
281021	Sanpress	Sanpress-Fittings	Plug-in piece	22121	18 X 3/4	287108	57.9
281051	Sanpress	Sanpress-Fittings	Plug-in piece	22121	12 X 1/2	291341	39.3
281061	Sanpress	Sanpress-Fittings	Elbow 90° with SC	22142	42 X 1 1/2	299415	425.24
281071	Sanpress	Sanpress-Fittings	Elbow 90° with SC	22142	54 X 2	299422	789
281101	Sanpress	Sanpress-F. without thread	Reducer with SC	22151	28 X 15	288228	52
281121	Sanpress	Sanpress-F. without thread	Reducer with SC	22151	15 X 12	298302	26.6
281141	Sanpress	Sanpress-Fittings	Threaded socket	3247 260	3/4 X 1	295837	88.9
281151	Sanpress	Sanpress-Fittings	Threaded socket	3247 260	3/8 X 3/4	295691	47.3
281161	Sanpress	Sanpress-Fittings	Threaded socket	3247 260	1/2 X 3/4	295820	51.4
281191	Sanpress	Sanpress-F. without thread	Elbow 90° with SC	2216	54	199395	592
281211	Sanpress	Sanpress-F. without thread	Elbow 90° with SC	22161	54	191221	594
281231	Sanpress	Sanpress-F. without thread	Elbow 45° with SC	2226	54	197506	557
281251	Sanpress	Sanpress-F. without thread	Elbow 45° with SC	22261	54	191825	574
281271	Sanpress	Sanpress-Fittings	Elbow 90° with SC	2214	54 X 2	197988	632
281291	Sanpress	Sanpress-Fittings	Tee with SC	22171	54 X 3/4 X 54	197858	607.4
281311	Sanpress	Sanpress-Fittings	Tee with SC	22172	54 X 1/2 X 54	197353	569
281331	Sanpress	Sanpress-F. without thread	Tee with SC	2218	54	199364	890
281341	Sanpress	Sanpress-F. without thread	Tee with SC	2218	54 X 22 X 54	195991	575
281351	Sanpress	Sanpress-F. without thread	Tee with SC	2218	54 X 35 X 54	197469	626
281361	Sanpress	Sanpress-F. without thread	Tee with SC	2218	54 X 42 X 54	198541	760
281411	Sanpress	Sanpress-F. without thread	Sliding coupling with SC	22155	54	216153	619
281431	Sanpress	Sanpress-Fittings	ElbowUnion with SC	2255	54 X 2	221676	1384
281441	Sanpress	Sanpress-Fittings	Union with SC	2260	54	226329	1010
281511	Sanpress	Sanpress-Fittings	Union with SC	2262	54 X 2	222017	800
281521	Sanpress	Sanpress-Fittings	Union with SC	2265	54 X 2	221997	984
281591	Sanpress	Sanpress-F. without thread	Tee with SC	2218	54 X 42 X 42	187279	825
281621	Sanpress	Sanpress-Fittings	Union with SC	2213	16 X 15	288068	102.4
281641	Sanpress	Sanpress-Fittings	Union with SC	2262	12 X 1/2	293024	119.46
281681	Sanpress	Sanpress-Fittings	Tee with SC	22172	12 X 1/2 X 12	290986	68
281701	Sanpress	Sanpress-Fittings	Tee with SC	22171	42 X 3/4 X 42	273231	364.5
281721	Sanpress	Sanpress-Fittings	Tee with SC	22171	18 X 3/4 X 18	281328	115
281741	Sanpress	Sanpress-Fittings	Tee with SC	22172	18 X 1/2 X 18	281359	92
281841	Sanpress	Sanpress-Fittings	Wall bushing with SC	22321	15X1/2X3/4X55	279288	178
281851	Sanpress	Sanpress-Fittings	Wall bushing with SC	22321	15X1/2X3/4X65	279295	205
281861	Sanpress	Sanpress-Fittings	Wall bushing with SC	22321	15X1/2X3/4X25	279301	128

Material	Sytem	Product subgroup	Designation	Model no.	Dimensions	Item no.	Mass in grams
281871	Sanpress	Sanpress-Fittings	Wall bushing with SC	22321	15X1/2X3/4X35	279318	136
281921	Sanpress	Sanpress-Fittings	Valve oberteil	2230 454	M28 X 1.5	274979	335
282001	Sanpress	Sanpress-F. without thread	Reducer with SC	22151	22 X 18	287337	41.5
282011	Sanpress	Sanpress-F. without thread	Reducer with SC	22151	18 X 12	287344	31.34
282021	Sanpress	Sanpress-F. without thread	Reducer with SC	22151	54 X 22	287351	276
282031	Sanpress	Sanpress-F. without thread	Reducer with SC	22151	42 X 22	287368	154.13
282041	Sanpress	Sanpress-F. without thread	Reducer with SC	22151	18 X 15	287375	34.2
282451	Sanpress	Sanpress-Fittings	Adapter with SC	2212	28 X 1/2	428174	88.45
282491	Sanpress	Sanpress-Fittings	Union with SC	2260	12	293017	115
282501	Sanpress	Sanpress-F. without thread	Elbow 90° with SC	2216	18	281267	76
282521	Sanpress	Sanpress-F. without thread	Elbow 90° with SC	22161	18	281298	69.5
282541	Sanpress	Sanpress-F. without thread	Elbow 90° with SC	2216	12	298340	64
282561	Sanpress	Sanpress-F. without thread	Tee with SC	2218	15 X 12 X 15	298371	117
282571	Sanpress	Sanpress-F. without thread	Tee with SC	2218	15 X 22 X 15	298388	161
282581	Sanpress	Sanpress-F. without thread	Tee with SC	2218	18 X 22 X 18	298395	126.5
282591	Sanpress	Sanpress-F. without thread	Tee with SC	2218	22 X 18 X 18	298401	122
282601	Sanpress	Sanpress-F. without thread	Tee with SC	2218	22 X 22 X 15	298418	140
282611	Sanpress	Sanpress-F. without thread	Tee with SC	2218	28 X 18 X 28	298425	156
282621	Sanpress	Sanpress-F. without thread	Tee with SC	2218	22 X 15 X 18	298432	161.4
282701	Sanpress	Sanpress-F. without thread	Tee with SC	2218	22 X 18 X 22	281380	130
282711	Sanpress	Sanpress-F. without thread	Tee with SC	2218	18 X 15 X 15	281397	90
282721	Sanpress	Sanpress-F. without thread	Tee with SC	2218	18 X 15 X 18	281403	95.36
282731	Sanpress	Sanpress-F. without thread	Tee with SC	2218	18	281410	110.001
282841	Sanpress	Sanpress-F. without thread	Tee with SC	2218	28 X 15 X 28	283513	223
282851	Sanpress	Sanpress-F. without thread	Tee with SC	2218	35 X 15 X 35	283520	230
282861	Sanpress	Sanpress-F. without thread	Tee with SC	2218	42 X 22 X 42	283537	397.7
282871	Sanpress	Sanpress-F. without thread	Tee with SC	2218	42 X 28 X 42	283544	420
282881	Sanpress	Sanpress-F. without thread	Tee with SC	2218	42 X 35 X 35	283551	396
282889	Sanpress	Sanpress-F. without thread	Tee with SC	2218NU	42 X 35 X 35	805623	400
282891	Sanpress	Sanpress-F. without thread	Tee with SC	2218	54 X 28 X 54	283568	585
282901	Sanpress	Sanpress-Fittings	Wall plate with SC	22255	18 X 1/2	281502	111.9
282921	Sanpress	Sanpress-Fittings	Wall plate with SC	22255	12 X 1/2	291013	93.5
282981	Sanpress	Sanpress-Fittings	Adapter with SC	22123	18 X 1/2	298913	66.9
283001	Sanpress	Sanpress-F. without thread	Elbow 45° with SC	2226	18	281533	60.814
283021	Sanpress	Sanpress-F. without thread	Elbow 45° with SC	22261	18	281564	58.5
283111	Sanpress	Sanpress-Fittings	Wall bushing with SC	22323	15X 1/2X 3/4X 30	325060	108
283151	Sanpress	Sanpress-Fittings	Mounting unit with SC	2229	1/2	309398	1295
283201	Sanpress	Sanpress-Fittings	Elbow 90°	22143	15 X 1/2	308001	52.67
283341	Sanpress	Sanpress-Fittings	Tee with SC	22172	15 X 3/8 X 15	313951	78.9
283351	Sanpress	Sanpress-Fittings	Tee with SC	22172	28 X 3/4 X 28	313968	192

Material	Sytem	Product subgroup	Designation	Model no.	Dimensions	Item no.	Mass in grams
283361	Sanpress	Sanpress-Fittings	Tee with SC	22172	22 X 3/4 X 22	313975	156.76
283401	Sanpress	Sanpress-Fittings	Adapter with SC	2212	18 X 1/2	283483	66.8
283421	Sanpress	Sanpress-Fittings	Adapter with SC	2212	12 X 1/2	291068	54
283431	Sanpress	Sanpress-Fittings	Adapter with SC	2212	12 X 3/8	291075	28.7
283471	Sanpress	Sanpress-Fittings	Adapter with SC	2212	18 X 3/4	294519	77
283481	Sanpress	Sanpress-Fittings	Adapter with SC	2212	42 X 1 1/4	298050	219.8
283491	Sanpress	Sanpress-Fittings	Adapter with SC	2212	22 X 1/2	298067	70.701
283501	Sanpress	Sanpress-Fittings	Adapter with SC	2212	15 X 3/8	298074	36.6
283511	Sanpress	Sanpress-Fittings	Adapter with SC	2212	28 X 3/4	298081	94.5
283521	Sanpress	Sanpress-Fittings	Adapter with SC	2212	15 X 3/4	298098	69.8
283531	Sanpress	Sanpress-Fittings	Adapter with SC	2212	28 X 1 1/4	298104	166.1
283541	Sanpress	Sanpress-Fittings	Adapter with SC	2212	35 X 1	298111	119.3
283551	Sanpress	Sanpress-Fittings	Adapter with SC	2212	22 X 1	298128	132.501
283601	Sanpress	Sanpress-Fittings	ElbowUnion with SC	2255	18 X 1/2	283469	167
283611	Sanpress	Sanpress-Fittings	ElbowUnion with SC	2255	18 X 3/4	283452	237
283621	Sanpress	Sanpress-Fittings	ElbowUnion with SC	2255	12 X 1/2	292980	159
283771	Sanpress	Sanpress-Fittings	Union with SC	2263	22 X 1 1/2	305260	166.8
283781	Sanpress	Sanpress-Fittings	Union with SC	2263	28 X 1 1/2	305048	182.9
283791	Sanpress	Sanpress-Fittings	Union with SC	2263	42 X 2	305031	353.7
283801	Sanpress	Sanpress-Fittings	Union with SC	2263	35 X 2	305024	262.7
283811	Sanpress	Sanpress-Fittings	Union with SC	2263	18 X 1	305017	81.4
283821	Sanpress	Sanpress-Fittings	Union with SC	2263	15 X 1	305000	80.3
284401	Sanpress	Sanpress-F. without thread	Tee with SC	2218	18 X 12 X 18	314040	146
284421	Sanpress	Sanpress-F. without thread	Tee with SC	2218	22 X 12 X 22	314071	176
284441	Sanpress	Sanpress-F. without thread	Tee with SC	2218	28 X 18 X 22	314101	163
284471	Sanpress	Sanpress-F. without thread	Tee with SC	2218	28 X 28 X 15	314132	178.2
284491	Sanpress	Sanpress-F. without thread	Tee with SC	2218	28 X 28 X 18	314163	182
284511	Sanpress	Sanpress-F. without thread	Tee with SC	2218	35 X 22 X 28	314194	243.7
284531	Sanpress	Sanpress-F. without thread	Tee with SC	2218	42 X 15 X 42	314224	380.1
284751	Sanpress	Sanpress-Fittings	Adapter with SC	2211	15 X 3/4	287764	65.2
284761	Sanpress	Sanpress-Fittings	Adapter with SC	2211	22 X 1	287771	112.24
284791	Sanpress	Sanpress-Fittings	Adapter with SC	2211	12 X 1/2	290764	33.37
284801	Sanpress	Sanpress-Fittings	Adapter with SC	2211	12 X 3/8	290771	27.3
284831	Sanpress	Sanpress-Fittings	Adapter with SC	2211	35 X 1 1/2	314651	225.8
284841	Sanpress	Sanpress-Fittings	Adapter with SC	2211	54 X 1 1/2	314668	365.7
288601	Sanpress	Sanpress-Fittings	Wall plate with SC	22255	22 X 1/2	335229	129.557
288611	Sanpress	Sanpress-Fittings	Wall plate with SC	22255	18 X 3/4	335236	156
288641	Sanpress	Sanpress-Fittings	Wall plate with SC	22256	15 X 1/2	347307	149
289461	Sanpress	Sanpress-Fittings	Elbow 90° with SC	2214	18 X 3/4	314354	111
289471	Sanpress	Sanpress-Fittings	Elbow 90° with SC	2214	15 X 3/8	314361	54

Material	Sytem	Product subgroup	Designation	Model no.	Dimensions	Item no.	Mass in grams
289481	Sanpress	Sanpress-Fittings	Elbow 90° with SC	22142	22 X 1	314378	132
289491	Sanpress	Sanpress-Fittings	Elbow 90° with SC	22142	15 X 3/4	314385	75.273
290121	Sanpress	Sanpress-Fittings	Adapter with SC	2213P	16 X 15	317423	44.2
290131	Sanpress	Sanpress-Fittings	Adapter with SC	2213P	20 X 15	317430	50.4
290141	Sanpress	Sanpress-Fittings	Adapter with SC	2213P	16 X 18	317447	56.5
290151	Sanpress	Sanpress-Fittings	Adapter with SC	2213P	20 X 18	317454	58.4
290221	Sanpress	Sanpress-Fittings	Adapter with SC	2213P	20 X 22	317508	67
292001	Sanpress	Sanpress-F. without thread	Cross piece with SC	2248	15 X 15	322410	215
292011	Sanpress	Sanpress-F. without thread	Cross piece with SC	2248	18 X 15	322427	246
292041	Sanpress	Sanpress-F. without thread	Cross piece with SC	2248	28 X 15	323363	353
292051	Sanpress	Sanpress-F. without thread	Cross piece with SC	2248	22 X 15	323370	285
292301	Sanpress	Sanpress-F. without thread	Cross piece with SC	2247	22 X 15	325978	202
292311	Sanpress	Sanpress-F. without thread	Cross piece with SC	2247	18 X 15	325985	180.4
292491	Sanpress	Sanpress-Fittings	Union with SC	2263	15 X 1 1/4	424534	172.5
292801	Sanpress	Sanpress XL	Reducer with SC	22151XL	76.1 X 54	354664	740.8
292811	Sanpress	Sanpress XL	Reducer with SC	22151XL	88.9 X 54	354671	895
292821	Sanpress	Sanpress XL	Reducer	22151XL	88.9 X 76.1	354688	1200
292831	Sanpress	Sanpress XL	Reducer	22151XL	108.0 X 54	354695	1390
292841	Sanpress	Sanpress XL	Reducer	22151XL	108.0 X 76.1	354701	1587
292851	Sanpress	Sanpress XL	Reducer	22151XL	108.0 X 88.9	354718	1614
293604	Sanpress	Sanpress-Fittings	Return Unionwith SC	22721	1/2 X 15	326357	203
293614	Sanpress	Sanpress-Fittings	Return Unionwith SC	22722	15 X 1/2	326364	237
293851	Sanpress	Sanpress-Fittings	Tee with SC	22172	35 X 1 X 35	361204	314
293861	Sanpress	Sanpress-Fittings	Tee with SC	22172	42 X 1 X 42	361211	452
293871	Sanpress	Sanpress-Fittings	Tee with SC	22172	54 X 1 X 54	361228	655
293959	Sanpress	Sanpress-Fittings	Elbow 90° with SC	22142NU	12 X 1/2	804053	50
293999	Sanpress	Sanpress-Fittings	Tee with SC	22172NU	54 X 1/2 X 54	799762	562
294201	Sanpress	Sanpress XL	Elbow 90°	22161XL	76.1	353650	1610
294211	Sanpress	Sanpress XL	Elbow 90°	22161XL	88.9	353667	2496.7
294221	Sanpress	Sanpress XL	Elbow 90°	22161XL	108.0	353674	3538
294231	Sanpress	Sanpress XL	Elbow 45°	22261XL	76.1	353681	1847
294241	Sanpress	Sanpress XL	Elbow 45°	22261XL	88.9	353698	2188
294251	Sanpress	Sanpress XL	Elbow 45°	22261XL	108.0	353704	3165
294321	Sanpress	Sanpress XL	Tee with SC	2218XL	76.1 X 54 X 76.1	354398	2447
294331	Sanpress	Sanpress XL	Tee with SC	2218XL	88.9 X 54 X 88.9	354404	2813
294341	Sanpress	Sanpress XL	Tee	2218XL	88.9 X 76.1 X 88.9	354411	3529
294351	Sanpress	Sanpress XL	Tee with SC	2218XL	108.0 X 54 X 108.0	354428	3614
294361	Sanpress	Sanpress XL	Tee	2218XL	108.0X76.1X108.0	354435	4400
294371	Sanpress	Sanpress XL	Tee	2218XL	108.0X88.9X108.0	354442	4676
294441	Sanpress	Sanpress XL	Tee	22172XL	76.1 X 3/4 X 76.1	354572	1939

Material	Sytem	Product subgroup	Designation	Model no.	Dimensions	Item no.	Mass in grams
294451	Sanpress	Sanpress XL	Tee	22172XL	88.9 X 3/4 X 88.9	354589	2240
294461	Sanpress	Sanpress XL	Tee	22172XL	108.0 X 3/4 X108.0	354596	2932
294509	Sanpress	Sanpress-Fittings	Compensator with SC	2251	15	690250	130
294519	Sanpress	Sanpress-Fittings	Compensator with SC	2251	18	690267	169.52
294529	Sanpress	Sanpress-Fittings	Compensator with SC	2251	22	690274	228.04
294539	Sanpress	Sanpress-Fittings	Compensator with SC	2251	28	690281	345.52
294549	Sanpress	Sanpress-Fittings	Compensator with SC	2251	35	690298	476.5
294559	Sanpress	Sanpress-Fittings	Compensator with SC	2251	42	690304	757.84
294569	Sanpress	Sanpress-Fittings	Compensator with SC	2251	54	690311	870.3
294901	Sanpress	Sanpress-F. without thread	Coupling	22152NC	15 X 14	363420	57.29
294911	Sanpress	Sanpress-F. without thread	Coupling	22152NC	16 X 15	363437	63.8
294921	Sanpress	Sanpress-F. without thread	Coupling	22152NC	18 X 16	363444	77.1
295401	Sanpress	Sanpress-Fittings	Union with SC	2263	22 X 3/4	351502	84.3
295481	Sanpress	Sanpress-F. without thread	Screed manifold with SC	2252	22 X 15 X 22	397166	614
295501	Sanpress	Sanpress-Fittings	Union	2264	15 X 3/4	338503	58.1
295511	Sanpress	Sanpress-Fittings	Union	2264	18 X 3/4	338510	59
295521	Sanpress	Sanpress-Fittings	Union	2264	22 X 1	338527	86.6
295531	Sanpress	Sanpress-Fittings	Union	2264	28 X 1 1/4	338534	132
295541	Sanpress	Sanpress-Fittings	Union	2264	35 X 1 1/2	338541	184
295551	Sanpress	Sanpress-Fittings	Union	2264	42 X 1 3/4	338558	267.2
295561	Sanpress	Sanpress-Fittings	Union	2264	54 X 2 3/8	338565	413
295651	Sanpress	Sanpress XL	Coupling	2215XL	76.1	350598	1219
295661	Sanpress	Sanpress XL	Coupling	2215XL	88.9	350604	1400
295671	Sanpress	Sanpress XL	Coupling	2215XL	108.0	350611	2044
295681	Sanpress	Sanpress XL	Tee	2218XL	76.1	350628	3155
295691	Sanpress	Sanpress XL	Tee	2218XL	88.9	350635	3676
295701	Sanpress	Sanpress XL	Tee	2218XL	108.0	350642	5327
295711	Sanpress	Sanpress XL	Adapter	2211XL	76.1 X 2 1/2	350659	995
295721	Sanpress	Sanpress XL	Adapter	2211XL	88.9 X 3	350666	1200
295731	Sanpress	Sanpress XL	Adapter	2211XL	108.0 X 4	350673	1678
295741	Sanpress	Sanpress XL	Elbow 90°	2216XL	88.9	350680	2750
295751	Sanpress	Sanpress XL	Elbow 90°	2216XL	76.1	350697	1607
295761	Sanpress	Sanpress XL	Elbow 90°	2216XL	108.0	350703	3858
295951	Sanpress	Sanpress XL	Union	2263XL	76.1 X 3	365127	1678
295961	Sanpress	Sanpress XL	Union	2263XL	88.9 X 3 1/2	365134	1997
296071	Sanpress	Sanpress-Fittings	Union with SC	2263	54 X 2 1/2	341961	694
296601	Sanpress	Sanpress XL	Elbow 45°	2226XL	76.1	351342	1815
296611	Sanpress	Sanpress XL	Elbow 45°	2226XL	88.9	351359	2160
296621	Sanpress	Sanpress XL	Elbow 45°	2226XL	108.0	351366	2979
296661	Sanpress	Sanpress XL	Tee	22172XL	76.1 X 2 X 76.1	351434	2580

Material	Sytem	Product subgroup	Designation	Model no.	Dimensions	Item no.	Mass in grams
296671	Sanpress	Sanpress XL	Tee	22172XL	88.9 X 2 X 88.9	351441	2923
296701	Sanpress	Sanpress XL	Tee	22172XL	108.0 X 2 X 108.0	352097	3398
296721	Sanpress	Sanpress XL	Sliding coupling	22155XL	76.1	353315	1218
296731	Sanpress	Sanpress XL	Sliding coupling	22155XL	88.9	353322	1391
296741	Sanpress	Sanpress XL	Sliding coupling	22155XL	108.0	353339	1979
296781	Sanpress	Sanpress XL	Cap with SC	2256XL	76.1	353377	970
296791	Sanpress	Sanpress XL	Cap with SC	2256XL	88.9	353384	1160
296801	Sanpress	Sanpress XL	Cap with SC	2256XL	108.0	353391	1670
297851	Sanpress	Sanpress-Fittings	Union with SC	2263	12 X 1/2	380878	46.1
297861	Sanpress	Sanpress-Fittings	Union with SC	2263	15 X 1/2	380885	51.3
297921	Sanpress	Sanpress-Fittings	Union with SC	2263	22 X 1 1/4	367015	191.6
298501	Sanpress LF	Sanpress-Fittings	Flange adapter with SC	22595LF	28 (DN25)	491079	1381.8
298521	Sanpress LF	Sanpress-Fittings	Flange adapter with SC	22595LF	42 (DN40)	491093	2414.2
298531	Sanpress LF	Sanpress-Fittings	Flange adapter with SC	22595LF	54 (DN50)	491109	2930.4
298541	Sanpress LF	Sanpress XL	Flange adapter	22595LF	76.1 (DN65)	491116	3569.5
298551	Sanpress LF	Sanpress XL	Flange adapter	22595LF	88.9 (DN80)	491123	4470
298561	Sanpress LF	Sanpress XL	Flange adapter	22595LF	108.0 (DN100)	491130	5150
320741	Sanpress	Sanpress-Fittings	Adapter with SC	2213P	25 X 22	605490	98
320751	Sanpress	Sanpress-Fittings	Adapter with SC	2213P	32 X 28	605506	143
320771	Sanpress	Sanpress-Fittings	Adapter with SC	2213P	40 X 35	605520	203.5
328741	Sanpress	Sanpress-F. without thread	Flange adapter with SC	22595U	28 (1)	592011	1400
328761	Sanpress	Sanpress-Fittings	Flange adapter with SC	22595U	42 (1 1/2)	592035	1927.76
328771	Sanpress	Sanpress-Fittings	Flange adapter with SC	22595U	54 (2)	592042	2925
328781	Sanpress	Sanpress XL	Flange adapter	22595XU	76.1 (2 1/2)	592059	3840
328791	Sanpress	Sanpress XL	Flange adapter	22595XU	88.9 (3)	592066	4549
328801	Sanpress	Sanpress XL	Flange adapter	22595XU	108 (4)	592073	6419
328951	Sanpress	Sanpress-Fittings	Sanpress-Pipe elbow	22094	22 - 15°	594473	140
328961	Sanpress	Sanpress-Fittings	Sanpress-Pipe elbow	22094	28 - 15°	594480	198
328981	Sanpress	Sanpress-Fittings	Sanpress-Pipe elbow	22094	42 - 15°	594503	580
329031	Sanpress	Sanpress-Fittings	Sanpress-Pipe elbow	22094XL	108.0 - 15°	594558	5050
329041	Sanpress	Sanpress-Fittings	Sanpress-Pipe elbow	22095	15 - 30°	594565	78
329051	Sanpress	Sanpress-Fittings	Sanpress-Pipe elbow	22095	18 - 30°	594572	96
329061	Sanpress	Sanpress-Fittings	Sanpress-Pipe elbow	22095	22 - 30°	594589	140
329071	Sanpress	Sanpress-Fittings	Sanpress-Pipe elbow	22095	28 - 30°	594596	198
329081	Sanpress	Sanpress-Fittings	Sanpress-Pipe elbow	22095	35 - 30°	594602	372
329091	Sanpress	Sanpress-Fittings	Sanpress-Pipe elbow	22095	42 - 30°	594619	600
329101	Sanpress	Sanpress-Fittings	Sanpress-Pipe elbow	22095	54 - 30°	594626	920
329211	Sanpress	Sanpress-Fittings	Sanpress-Pipe elbow	22096	22 - 60°	594732	140
329221	Sanpress	Sanpress-Fittings	Sanpress-Pipe elbow	22096	28 - 60°	594749	198
329231	Sanpress	Sanpress-Fittings	Sanpress-Pipe elbow	22096	35 - 60°	594756	374

Material	Sytem	Product subgroup	Designation	Model no.	Dimensions	Item no.	Mass in grams
329241	Sanpress	Sanpress-Fittings	Sanpress-Pipe elbow	22096	42 - 60°	594763	600
329251	Sanpress	Sanpress-Fittings	Sanpress-Pipe elbow	22096	54 - 60°	594770	920
329301	Sanpress	Sanpress-Fittings	Sanpress-Pipe elbow	22097	15 - 75°	594824	78
329311	Sanpress	Sanpress-Fittings	Sanpress-Pipe elbow	22097	18 - 75°	594831	96
329321	Sanpress	Sanpress-Fittings	Sanpress-Pipe elbow	22097	22 - 75°	594848	140
329331	Sanpress	Sanpress-Fittings	Sanpress-Pipe elbow	22097	28 - 75°	594855	198
329341	Sanpress	Sanpress-Fittings	Sanpress-Pipe elbow	22097	35 - 75°	594862	374
329351	Sanpress	Sanpress-Fittings	Sanpress-Pipe elbow	22097	42 - 75°	594879	590
329361	Sanpress	Sanpress-Fittings	Sanpress-Pipe elbow	22097	54 - 75°	594886	930
329431	Sanpress	Sanpress-Fittings	Sanpress-Pipe elbow	2209XL	88.9 - 90°	594954	3530
351351	Sanpress	Sanpress-Fittings	Adapter with SC	0712	DN15 X 1/2	579555	59.2
351361	Sanpress	Sanpress-Fittings	Adapter with SC	0712	DN20 X 3/4	579562	69.4
351371	Sanpress	Sanpress-Fittings	Adapter with SC	0712	DN25 X 1	579579	103.1
351381	Sanpress	Sanpress-Fittings	Adapter with SC	0712	DN32 X 1 1/4	579586	164.4
351391	Sanpress	Sanpress-Fittings	Adapter with SC	0712	DN40 X 1 1/2	579593	254.5
351401	Sanpress	Sanpress-Fittings	Adapter with SC	0712	DN50 X 2	579609	411.7
351411	Sanpress	Sanpress-Fittings	Adapter with SC	0711	DN15 X 1/2	579616	41.4
351421	Sanpress	Sanpress-Fittings	Adapter with SC	0711	DN20 X 3/4	579623	62.5
351431	Sanpress	Sanpress-Fittings	Adapter with SC	0711	DN25 X 1	579630	111.7
351441	Sanpress	Sanpress-Fittings	Adapter with SC	0711	DN32 X 1 1/4	579647	176.5
351451	Sanpress	Sanpress-Fittings	Adapter with SC	0711	DN40 X 1 1/2	579654	253.9
351461	Sanpress	Sanpress-Fittings	Adapter with SC	0711	DN50 X 2	579661	405.3
351661	Sanpress	Sanpress-Fittings	Tee with SC	07172	DN25 X DN25 X 3/4	579685	232
351671	Sanpress	Sanpress-Fittings	Tee with SC	07172	DN32 X DN32 X 1/2	579692	241
351681	Sanpress	Sanpress-Fittings	Tee with SC	07172	DN32 X DN32 X 3/4	579708	275
351701	Sanpress	Sanpress-Fittings	Tee with SC	07172	DN50 X DN50 X 3/4	579722	610
354481	Sanpress	Sanpress-Fittings	Flange adapter with SC	07595	DN50	580117	2191
354551	Sanpress	Sanpress-Fittings	Wall plate with SC	07255	DN15 X 1/2	579920	104
354561	Sanpress	Sanpress-Fittings	Wall plate with SC	07255	DN20 X 3/4	579937	150
354571	Sanpress	Sanpress-Fittings	Wall bushing	07321	DN15 X 1/2 X 75	579944	154.2
356611	Sanpress	Sanpress-Fittings	Union	0763	DN20 X 1/2	624866	62.3
356751	Sanpress	Sanpress-Fittings	Union	0765	DN25 X 1	624873	387.8
357541	Sanpress	Sanpress-Fittings	Union	0763	DN15 X 1/2	591915	50.9
357551	Sanpress	Sanpress-Fittings	Union	0763	DN20 X 3/4	591922	82.26
365551	Sanpress	Sanpress-Fittings	Union	0765	DN32 X 1 1/4	625696	465.9
365571	Sanpress	Sanpress-Fittings	Union	0765	DN40 X 1 1/2	625719	600
365581	Sanpress	Sanpress-Fittings	Union	0765	DN50 X 2	625733	1028.3
365741	Sanpress	Sanpress XL	Flange adapter	22592XL	2 1/2 (DN65)	641597	3580
365751	Sanpress	Sanpress XL	Flange adapter	22592XL	3 (DN80)	641603	4513
365761	Sanpress	Sanpress XL	Flange adapter	22592XL	4 (DN100)	641610	5355

Material	Sytem	Product subgroup	Designation	Model no.	Dimensions	Item no.	Mass in grams
384591	Sanpress	Sanpress-F. without thread	Repair coupling	22768	12 X 1	643188	22.2
402351	Sanpress	Sanpress-F. without thread	Crossing-tee with SC	22493	15 X 15 X 15	493325	666
402361	Sanpress	Sanpress-F. without thread	Crossing-tee with SC	22493	18 X 15 X 18	493332	677
402371	Sanpress	Sanpress-F. without thread	Crossing-tee with SC	22493	22 X 18 X 22	493349	713
402381	Sanpress	Sanpress-F. without thread	Crossing-tee with SC	22493	22 X 15 X 22	493356	705
409601	Sanpress	Sanpress-F. without thread	Sliding coupling with SC	22154	22	588533	162.5
409611	Sanpress	Sanpress-F. without thread	Sliding coupling with SC	22154	28	588540	245.2
409621	Sanpress	Sanpress-F. without thread	Sliding coupling with SC	22154	35	588557	348.2
412801	Sanpress	Sanpress-F. without thread	Adapter with SC	22156	1 X 28	588564	527
412811	Sanpress	Sanpress-F. without thread	Adapter with SC	22156	1 1/4 X 35	588328	972.4
427041	Sanpress	Sanpress-Fittings	Adapter	0411	3/4 X R3/4	450908	71.9
427071	Sanpress	Sanpress-Fittings	Adapter	0411	1 X R1	450915	121.2
427101	Sanpress	Sanpress-Fittings	Adapter	0411	1 1/4 X 1 1/4	450922	185.8
427131	Sanpress	Sanpress-Fittings	Adapter	0411	1 1/2 X R1 1/2	450939	280
427141	Sanpress	Sanpress-Fittings	Adapter	0411	2 X R2	450946	397.8
427441	Sanpress	Sanpress-Fittings	Adapter	0412	3/4 X RP3/4	450960	75.7
427521	Sanpress	Sanpress-Fittings	Adapter	0412	1 1/4 X RP1 1/4	450984	183.1
427571	Sanpress	Sanpress-Fittings	Adapter	0412	2 X RP2	451004	475
431431	Sanpress	Sanpress XL	Flange adapter	22593XL	76.1 (DN65) X 4	652340	3700
433371	Sanpress	Sanpress-Fittings	Wall platen-Tee	22173	15 X 1/2 X 15	644864	117
434121	Sanpress	Sanpress-Fittings	Wall platen-Tee	22173	22 X 1/2 X 22	625726	178.5
436791	Sanpress	Sanpress-Fittings	Threaded socket	22659NU	1 X 1 1/4	654153	150.63
466401	Sanpress	Sanpress-Fittings	Adapter with SC	22112	15 X 1/2NPT	493851	62.6
466411	Sanpress	Sanpress-Fittings	Adapter with SC	22112	22 X 3/4NPT	493868	97.1
466421	Sanpress	Sanpress-Fittings	Adapter with SC	22112	28 X 1NPT	493875	147
466431	Sanpress	Sanpress-Fittings	Adapter with SC	22112	35 X 1 1/4NPT	493882	209.7
466441	Sanpress	Sanpress-Fittings	Adapter with SC	22112	42 X 1 1/2NPT	493899	316
466451	Sanpress	Sanpress-Fittings	Adapter with SC	22112	54 X 2NPT	493905	538
479281	Sanpress	Sanpress-Fittings	Fastening kit	22184	22 X 3/4 X 22	625078	668.5
483251	Sanpress	Sanpress-Fittings	Double wall plate with SC	22287	18 X 1/2 X 18	692797	195
527821	Sanpress LF	Sanpress-Fittings	Double wall plate with SC	22287LF	15 X 1/2 X 15	717407	212.3
527831	Sanpress LF	Sanpress-Fittings	Double wall plate with SC	22287LF	18 X 1/2 X 18	717414	228.4
527841	Sanpress LF	Sanpress-Fittings	Double wall plate with SC	22287LF	22 X 1/2 X 22	717421	289
557151	Sanpress	Sanpress-F. without thread	Hose nozzle with SC	97907WP	DN15	796648	32.8
557911	Sanpress	Sanpress-F. without thread	Hose nozzle with SC	22133YI	12 X DN12	691684	23.6
564241	Sanpress	Sanpress-Fittings	Elbow 90° with SC	0714	DN 15 X 1/2	700898	53
571051	Sanpress	Sanpress-Fittings	Adapter	22115	22	695835	65.1
571061	Sanpress	Sanpress-Fittings	Adapter	22115	28	695842	93.3
571071	Sanpress	Sanpress-Fittings	Adapter	22115	35	696252	140
571081	Sanpress	Sanpress-Fittings	Adapter	22115	42	696269	217.6

Material	Sytem	Product subgroup	Designation	Model no.	Dimensions	Item no.	Mass in grams
571091	Sanpress	Sanpress-Fittings	Adapter	22115	54	696276	328.6
571101	Sanpress	Sanpress-Fittings	Adapter	22115	64	696283	496.4
576511	Sanpress	Sanpress-Fittings	Double wall plate with SC	22287	15 X 1/2 X 15	687892	174
576521	Sanpress	Sanpress-Fittings	Double wall plate with SC	22287	22 X 1/2 X 22	687908	252
580591	Sanpress	Sanpress-Fittings	Tee with SC	45172	15 X 1/2 X 15	628635	100
580601	Sanpress	Sanpress-Fittings	Tee with SC	45172	18 X 1/2 X 18	628642	96
580611	Sanpress	Sanpress-Fittings	Tee with SC	45172	22 X 1/2 X 22	628659	128
580621	Sanpress	Sanpress-Fittings	Tee with SC	45172	28 X 1/2 X 28	628666	152
580631	Sanpress	Sanpress-Fittings	Tee with SC	45172	35 X 1/2 X 35	628673	235
580641	Sanpress	Sanpress-Fittings	Adapter with SC	4511	12 X 3/8	628680	32.7
580651	Sanpress	Sanpress-Fittings	Adapter with SC	4511	15 X 1/2	628697	49.9
580661	Sanpress	Sanpress-Fittings	Adapter with SC	4511	12 X 1/2	628703	39.5
580671	Sanpress	Sanpress-Fittings	Adapter with SC	4511	18 X 1/2	628710	53.5
580681	Sanpress	Sanpress-Fittings	Adapter with SC	4511	18 X 3/4	628727	70.8
580691	Sanpress	Sanpress-Fittings	Adapter with SC	4511	22 X 3/4	628734	80
580701	Sanpress	Sanpress-Fittings	Adapter with SC	4511	22 X 1	628741	114.9
580711	Sanpress	Sanpress-Fittings	Adapter with SC	4511	28 X 1	628758	122.1
580721	Sanpress	Sanpress-Fittings	Adapter with SC	4511	28 X 1 1/4	628765	185
580731	Sanpress	Sanpress-Fittings	Adapter with SC	4511	35 X 1	628772	154
580741	Sanpress	Sanpress-Fittings	Adapter with SC	4511	35 X 1 1/4	627232	202
580751	Sanpress	Sanpress-Fittings	Adapter with SC	4511	35 X 1 1/2	627249	250.6
580761	Sanpress	Sanpress-Fittings	Adapter with SC	4512	12 X 3/8	628857	33.4
580771	Sanpress	Sanpress-Fittings	Adapter with SC	4512	15 X 1/2	628864	66.4
580781	Sanpress	Sanpress-Fittings	Adapter with SC	4512	18 X 1/2	628871	64.5
580791	Sanpress	Sanpress-Fittings	Adapter with SC	4512	18 X 3/4	628888	77.2
580801	Sanpress	Sanpress-Fittings	Adapter with SC	4512	22 X 3/4	628895	86.97
580811	Sanpress	Sanpress-Fittings	Adapter with SC	4512	22 X 1	628901	134.74
580821	Sanpress	Sanpress-Fittings	Adapter with SC	4512	28 X 1	628918	125
580831	Sanpress	Sanpress-Fittings	Adapter with SC	4512	35 X 1 1/4	628925	177.6
580991	Sanpress	Sanpress-Fittings	Compensator with SC	4551	15	629083	154.4
581001	Sanpress	Sanpress-Fittings	Compensator with SC	4551	18	629090	194.4
581011	Sanpress	Sanpress-Fittings	Compensator with SC	4551	22	629106	252.04
581021	Sanpress	Sanpress-Fittings	Compensator with SC	4551	28	629113	366.52
581031	Sanpress	Sanpress-Fittings	Compensator with SC	4551	35	629120	504.5
581041	Sanpress	Sanpress-Fittings	Adapter with SC	45114	18 X 3/4	629137	69.9
581051	Sanpress	Sanpress-Fittings	Adapter with SC	45114	22 X 1	629144	116
581061	Sanpress	Sanpress-Fittings	Union with SC	4562	15 X 1/2	629151	141
581071	Sanpress	Sanpress-Fittings	Union with SC	4562	18 X 3/4	629168	134.3
581081	Sanpress	Sanpress-Fittings	Union with SC	4562	22 X 3/4	629175	231
581091	Sanpress	Sanpress-Fittings	Union with SC	4562	28 X 1	629182	355

Material	Sytem	Product subgroup	Designation	Model no.	Dimensions	Item no.	Mass in grams
581101	Sanpress	Sanpress-Fittings	Union with SC	4562	35 X 1 1/4	629199	430
626444	Sanpress	Sanpress-Fittings	Connection piece	22772	-	662509	815
626451	Sanpress	Sanpress-F. without thread	Plug adapter	22335	15	662516	51.8
626461	Sanpress	Sanpress-F. without thread	Plug adapter	22335	18	662523	57.11
626471	Sanpress	Sanpress-F. without thread	Plug adapter	22335	22	662530	68.54
626481	Sanpress	Sanpress-F. without thread	Closing piece	22336	-	663346	46.92
628323	Sanpress	Sanpress-Fittings	Adapter with SC	2911OM	1/2 X 1/2 NPT	773902	54.431
628333	Sanpress	Sanpress-Fittings	Adapter with SC	2911OM	3/4 X 3/4 NPT	773957	77.11
628603	Sanpress	Sanpress-Fittings	Adapter with SC	2911OM	1 X 1 NPT	774008	122.469
629753	Sanpress	Sanpress-Fittings	Adapter with SC	2911OM	3/4 X 1/2 NPT	774336	74.842
629763	Sanpress	Sanpress-Fittings	Union with SC	2960OM	1/2	774343	147.417
629773	Sanpress	Sanpress-Fittings	Wall plate	29255OM	1/2 X 1/2	774367	127.006
629781	Sanpress	Sanpress-Fittings	Adapter	22114	15 X 1/2	660222	41.9
635641	Sanpress	Sanpress-Fittings	Union	0763	DN20 X 1	663995	101.51
635671	Sanpress	Sanpress-Fittings	Elbow	07141	DN20 X 3/4	668969	86
635931	Sanpress	Sanpress-Fittings	Elbow 90°	07142	DN20 X 3/4	744199	96
637301	Sanpress	Sanpress-Fittings	ElbowUnion	07631	DN15 X 1/2	744212	77.3
637411	Sanpress	Sanpress-Fittings	ElbowUnion	07631	DN20 X 3/4	744229	124
637621	Sanpress	Sanpress-Fittings	Union	0765	DN20 X 3/4	744243	159.2
640391	Sanpress	Sanpress-Fittings	Adapter with SC	0711	DN20 X 1/2	700638	51.7
640441	Sanpress	Sanpress-Fittings	Adapter with SC	0711	DN25 X 3/4	700645	82.4
646231	Sanpress	Sanpress-Fittings	Union with SC	2263	28 X 1	692629	122
663161	Sanpress	Sanpress-Fittings	Elbow	29142ZL	1/2 X 3/8	795201	61.8
663171	Sanpress	Sanpress-Fittings	Elbow	29142ZL	1/2 X 1/2	795256	82.1
663181	Sanpress	Sanpress-Fittings	Elbow	29142ZL	1/2 X 3/4	795300	110.223
663191	Sanpress	Sanpress-Fittings	Elbow	29142ZL	3/4 X 1/2	795355	111
663251	Sanpress	Sanpress-Fittings	Union with SC	2960ZL	1/2	791258	149.54
663261	Sanpress	Sanpress-Fittings	Union with SC	2960ZL	3/4	791302	229.65
663269	Sanpress	Sanpress-Fittings	Union with SC	2960ZOM	3/4	793221	228.157
663271	Sanpress	Sanpress-Fittings	Union with SC	2960ZL	1	791357	401.52
663281	Sanpress	Sanpress-Fittings	Union with SC	2960ZL	1 1/4	791401	495.3
663291	Sanpress	Sanpress-Fittings	Union with SC	2960ZL	1 1/2	791456	794.2
663301	Sanpress	Sanpress-Fittings	Union with SC	2960ZL	2	791500	1281.1
663311	Sanpress	Sanpress-Fittings	Insulation union with SC	2967ZL	1/2 X 1/2 NPT	791555	369.6
663321	Sanpress	Sanpress-Fittings	Insulation union with SC	2967ZL	3/4 X 3/4 NPT	791609	518.7
663331	Sanpress	Sanpress-Fittings	Insulation union with SC	2967ZL	1 X 1 NPT	791654	475
663341	Sanpress	Sanpress-Fittings	Insulation union with SC	2967ZL	1 1/4 X 1 1/4 NPT	791708	706.7
663351	Sanpress	Sanpress-Fittings	Insulation union with SC	2967ZL	1 1/2 X 1 1/2 NPT	791753	820.7
663361	Sanpress	Sanpress-Fittings	Insulation union with SC	2967ZL	2 X 2 NPT	791807	1300
663371	Sanpress	Sanpress-Fittings	connectionset with SC	29761ZL	VARIED	790008	194.800

Material	Sytem	Product subgroup	Designation	Model no.	Dimensions	Item no.	Mass in grams
663381	Sanpress	Sanpress-Fittings	wall plate	29255ZL	1/2 X 3/8	791852	110.000
663391	Sanpress	Sanpress-Fittings	wall plate	29255ZL	1/2 X 1/2	791906	113.398
663401	Sanpress	Sanpress-Fittings	wall plate	29255ZL	3/4 X 3/4	791951	195.000
663421	Sanpress	Sanpress-Fittings	wall plate	29252ZL	1/2 X 1/2	792057	100.200
663431	Sanpress	Sanpress-Fittings	adapter piece with SC	2911ZL	1/2 X 3/8 NPT	792101	41.210
663441	Sanpress	Sanpress-Fittings	adapter piece with SC	2911ZL	1/2 X 1/2 NPT	792156	47.900
663451	Sanpress	Sanpress-Fittings	adapter piece with SC	2911ZL	1/2 X 3/4 NPT	792200	68.010
663461	Sanpress	Sanpress-Fittings	adapter piece with SC	2911ZL	3/4 X 1/2 NPT	792255	66.440
663471	Sanpress	Sanpress-Fittings	adapter piece with SC	2911ZL	3/4 X 3/4 NPT	792309	70.340
663481	Sanpress	Sanpress-Fittings	adapter piece with SC	2911ZL	3/4 X 1 NPT	792354	107.600
663491	Sanpress	Sanpress-Fittings	adapter piece with SC	2911ZL	1 X 3/4 NPT	792408	106.400
663501	Sanpress	Sanpress-Fittings	adapter piece with SC	2911ZL	1 X 1 NPT	792453	118.000
663511	Sanpress	Sanpress-Fittings	adapter piece with SC	2911ZL	1 X 1 1/4 NPT	792507	207.900
663521	Sanpress	Sanpress-Fittings	adapter piece with SC	2911ZL	1 1/4 X 1 NPT	792552	146.300
663531	Sanpress	Sanpress-Fittings	adapter piece with SC	2911ZL	1 1/4 X 1 1/4 NPT	792606	203.600
663541	Sanpress	Sanpress-Fittings	adapter piece with SC	2911ZL	1 1/4 X 1 1/2 NPT	792651	236.800
663551	Sanpress	Sanpress-Fittings	adapter piece with SC	2911ZL	1 1/2 X 1 1/4 NPT	792705	270.700
663561	Sanpress	Sanpress-Fittings	adapter piece with SC	2911ZL	1 1/2 X 1 1/2 NPT	792750	248.800
663571	Sanpress	Sanpress-Fittings	adapter piece with SC	2911ZL	1 1/2 X 2 NPT	792804	424.000
663581	Sanpress	Sanpress-Fittings	adapter piece with SC	2911ZL	2 X 1 1/2 NPT	792859	382.860
663591	Sanpress	Sanpress-Fittings	adapter piece with SC	2911ZL	2 X 2 NPT	792903	387.100
663601	Sanpress	Sanpress-Fittings	adapter piece with SC	2912ZL	1/2 X 3/8 NPT	792958	37.800
663611	Sanpress	Sanpress-Fittings	adapter piece with SC	2912ZL	1/2 X 1/2 NPT	793009	55.090
663619	Sanpress	Sanpress-Fittings	adapter piece with SC	2912ZOM	1/2 X 1/2NPT	793177	65.770
663631	Sanpress	Sanpress-Fittings	elbow with SC	29142ZL	3/4 X 3/4	795409	135.500
663641	Sanpress	Sanpress-Fittings	adapter piece with SC	2912ZL	3/4 X 1/2 NPT	793108	66.800
663651	Sanpress	Sanpress-Fittings	adapter piece with SC	2912ZL	3/4 X 3/4 NPT	793153	80.000
663659	Sanpress	Sanpress-Fittings	adapter piece with SC	2912ZOM	3/4 X 3/4 NPT	793160	86.182
663661	Sanpress	Sanpress-Fittings	adapter piece with SC	2912ZL	1 X 1/2 NPT	793207	81.340
663671	Sanpress	Sanpress-Fittings	adapter piece with SC	2912ZL	1 X 3/4 NPT	793252	94.400
663681	Sanpress	Sanpress-Fittings	adapter piece with SC	2912ZL	1 X 1 NPT	793306	125.600
663691	Sanpress	Sanpress-Fittings	adapter piece with SC	2912ZL	1 X 1 1/4 NPT	793351	168.000
663701	Sanpress	Sanpress-Fittings	adapter piece with SC	2912ZL	1 1/4 X 1/2 NPT	793405	99.800
663711	Sanpress	Sanpress-Fittings	adapter piece with SC	2912ZL	1 1/4 X 1 NPT	793450	137.200
663721	Sanpress	Sanpress-Fittings	adapter piece with SC	2912ZL	1 1/4 X 1 1/4 NPT	793504	177.400
663731	Sanpress	Sanpress-Fittings	adapter piece with SC	2912ZL	1 1/4 X 1 1/2 NPT	793559	211.300
663741	Sanpress	Sanpress-Fittings	elbow with SC	29142ZL	1 X 1/2	795454	142.000
663751	Sanpress	Sanpress-Fittings	adapter piece with SC	2912ZL	1 1/2 X 1 1/4 NPT	793603	211.000
663761	Sanpress	Sanpress-Fittings	adapter piece with SC	2912ZL	1 1/2 X 1 1/2 NPT	793658	253.900
663771	Sanpress	Sanpress-Fittings	elbow with SC	29142ZL	1 X 1	795508	210.000

Material	Sytem	Product subgroup	Designation	Model no.	Dimensions	Item no.	Mass in grams
663791	Sanpress	Sanpress-Fittings	elbow with SC	29142ZL	1 1/4 X 1 1/4	795607	315.000
663801	Sanpress	Sanpress-Fittings	adapter piece with SC	2912ZL	2 X 2 NPT	793702	354.200
663811	Sanpress	Sanpress-Fittings	elbow with SC	29142ZL	1 1/2 X 1 1/2	795652	436.000
663821	Sanpress	Sanpress-Fittings	elbow with SC	29142ZL	2 X 2	795706	730.000
663831	Sanpress	Sanpress-Fittings	plug piece	29111ZL	1/2 X 3/8 NPT	793757	30.000
663851	Sanpress	Sanpress-Fittings	t-piece with SC	29172ZL	1/2 X 1/2 X 1/2	795805	107.640
663861	Sanpress	Sanpress-Fittings	t-piece with SC	29172ZL	3/4 X 3/4 X 1/4	795850	115.000
663871	Sanpress	Sanpress-Fittings	plug piece	29111ZL	1/2 X 1/2 NPT	793801	46.560
663881	Sanpress	Sanpress-Fittings	plug piece	29111ZL	1/2 X 3/4 NPT	793856	62.100
663891	Sanpress	Sanpress-Fittings	plug piece	29111ZL	3/4 X 1/2 NPT	793900	45.690
663901	Sanpress	Sanpress-Fittings	plug piece	29111ZL	3/4 X 3/4 NPT	793955	68.760
663911	Sanpress	Sanpress-Fittings	t-piece with SC	29172ZL	3/4 X 3/4 X 1/2	795904	139.200
663921	Sanpress	Sanpress-Fittings	plug piece	29111ZL	1 X 3/4 NPT	794006	75.500
663931	Sanpress	Sanpress-Fittings	plug piece	29111ZL	1 X 1 NPT	794051	111.300
663941	Sanpress	Sanpress-Fittings	t-piece with SC	29172ZL	1 X 1 X 1/2	797601	188.000
663951	Sanpress	Sanpress-Fittings	t-piece with SC	29172ZL	1 X 1 X 3/4	797656	223.400
663961	Sanpress	Sanpress-Fittings	plug piece	29111ZL	1 1/4 X 1 1/4 NPT	794105	227.700
663971	Sanpress	Sanpress-Fittings	plug piece	29111ZL	1 1/2 X 1 1/2 NPT	794150	255.600
663981	Sanpress	Sanpress-Fittings	plug piece	29111ZL	2 X 2 NPT	794204	406.100
663991	Sanpress	Sanpress-Fittings	adapter	29121ZL	1/2 X 3/8 NPT	794259	31.200
664001	Sanpress	Sanpress-Fittings	t-piece with SC	29172ZL	11/4 X 11/4 X 1/2	797700	240.000
664011	Sanpress	Sanpress-Fittings	adapter	29121ZL	1/2 X 1/2 NPT	794303	46.700
664021	Sanpress	Sanpress-Fittings	t-piece with SC	29172ZL	11/4 X 11/4 X 3/4	797755	283.500
664031	Sanpress	Sanpress-Fittings	adapter	29121ZL	1/2 X 3/4 NPT	794358	63.500
664041	Sanpress	Sanpress-Fittings	t-piece with SC	29172ZL	11/2 X 11/2 X 1/2	797809	367.000
664051	Sanpress	Sanpress-Fittings	adapter	29121ZL	3/4 X 1/2 NPT	794402	50.200
664061	Sanpress	Sanpress-Fittings	adapter	29121ZL	3/4 X 3/4 NPT	794457	63.300
664071	Sanpress	Sanpress-Fittings	t-piece with SC	29172ZL	11/2 X 11/2 X 3/4	797854	408.500
664081	Sanpress	Sanpress-Fittings	adapter	29121ZL	1 X 1 NPT	794501	117.100
664091	Sanpress	Sanpress-Fittings	t-piece with SC	29172ZL	2 X 2 X 1/2	797908	522.000
664101	Sanpress	Sanpress-Fittings	adapter	29121ZL	1 X 1/2 NPT	794556	78.210
664111	Sanpress	Sanpress-Fittings	adapter	29121ZL	1 1/4 X 1/2 NPT	794600	121.300
664121	Sanpress	Sanpress-Fittings	t-piece with SC	29172ZL	2 X 2 X 3/4	797953	590.000
664131	Sanpress	Sanpress-Fittings	adapter	29121ZL	1 1/4 X 1 1/4 NPT	794655	182.200
664151	Sanpress	Sanpress-Fittings	adapter	29121ZL	1 1/2 X 1 1/2 NPT	794709	235.400
664171	Sanpress	Sanpress-Fittings	adapter	29121ZL	2 X 2 NPT	794754	374.200
664231	Sanpress	Sanpress-Fittings	t-piece with SC	29173ZL	1/2 X 1/8 X 1/2	796352	73.700
664241	Sanpress	Sanpress-Fittings	t-piece with SC	29173ZL	3/4 X 1/8 X 3/4	796406	113.400
664251	Sanpress	Sanpress-Fittings	union with SC	2962ZL	1/2 X 1/2 NPT	797007	139.800
664261	Sanpress	Sanpress-Fittings	union with SC	2962ZL	3/4 X 3/4 NPT	797052	199.060

Material	Sytem	Product subgroup	Designation	Model no.	Dimensions	Item no.	Mass in grams
664271	Sanpress	Sanpress-Fittings	union with SC	2962ZL	1 X 1 NPT	797106	372.800
664281	Sanpress	Sanpress-Fittings	union with SC	2962ZL	1 1/4 X 1 1/4 NPT	797151	459.460
664291	Sanpress	Sanpress-Fittings	union with SC	2962ZL	1 1/2 X 1 1/2 NPT	797205	760.900
664301	Sanpress	Sanpress-Fittings	union with SC	2962ZL	2 X 2 NPT	797250	1287.000
664311	Sanpress	Sanpress-Fittings	union with SC	2965ZL	1/2 X 1/2 NPT	797304	148.100
664321	Sanpress	Sanpress-Fittings	union with SC	2965ZL	3/4 X 3/4 NPT	797359	231.320
664331	Sanpress	Sanpress-Fittings	union with SC	2965ZL	1 X 1 NPT	797403	408.800
664341	Sanpress	Sanpress-Fittings	union with SC	2965ZL	1 1/4 X 1 1/4 NPT	797458	516.700
664351	Sanpress	Sanpress-Fittings	union with SC	2965ZL	1 1/2 X 1 1/2 NPT	797502	750.400
664361	Sanpress	Sanpress-Fittings	union with SC	2965ZL	2 X 2 NPT	797557	1291.900
664371	Sanpress	Sanpress-Fittings	adapter piece with SC	2912ZL	1/2 X 3/4 NPT	793054	70.950
664381	Sanpress	Sanpress-Fittings	t-piece with SC	29172ZL	3/4 X 3/4 X 3/4	795959	158.000
664521	Sanpress	Sanpress-Fittings	flange adapter with SC	29595ZL	1	796802	1493.700
664531	Sanpress	Sanpress-Fittings	flange adapter with SC	29595ZL	1 1/4	796857	1450.000
664541	Sanpress	Sanpress-Fittings	flange adapter with SC	29595ZL	1 1/2	796901	1982.200
664551	Sanpress	Sanpress-Fittings	flange adapter with SC	29595ZL	2	796956	2727.000
664681	Sanpress	Sanpress-Fittings	union	2957ZL	1/2 X 1	798004	100.000
664691	Sanpress	Sanpress-Fittings	union	2957ZL	1 X 1	798103	138.000
664701	Sanpress	Sanpress-Fittings	union	2957ZL	3/4 X 1	798059	112.700
664711	Sanpress	Sanpress-Fittings	union	2957ZL	1 X 1 1/4	798158	175.260
664721	Sanpress	Sanpress-Fittings	reducer	29151ZL	1 1/2 X 1/2	798509	147.400
664731	Sanpress	Sanpress-Fittings	reducer	29151ZL	2 X 1/2	798554	238.900
664741	Sanpress	Sanpress-Fittings	reducer	29151ZL	2 X 3/4	798608	236.380
667103	Sanpress	Sanpress-Fittings	screw piece	29802ZL	1/2	822006	39.890
667113	Sanpress	Sanpress-Fittings	screw piece	29802ZL	3/4	822051	61.210
667123	Sanpress	Sanpress-Fittings	screw piece	29802ZL	1	822105	93.580
667133	Sanpress	Sanpress-Fittings	screw piece	29802ZL	1 1/4	822150	125.900
667143	Sanpress	Sanpress-Fittings	screw piece	29802ZL	1 1/2	822204	174.000
667153	Sanpress	Sanpress-Fittings	screw piece	29802ZL	2	822259	241.000
668533	Sanpress	Sanpress-Fittings	adapter piece with SC	22119RK	1/2 X 1/2 NPT	823399	47.000
668543	Sanpress	Sanpress-Fittings	adapter piece with SC	22119RK	3/4 X 3/4 NPT	823405	70.300
668553	Sanpress	Sanpress-Fittings	adapter piece with SC	22119RK	1 X 1 NPT	823412	116.700
668801	Sanpress	Sanpress-Fittings	union	2957HO	1/2 X 1	798165	99.950
669501	Sanpress	Sanpress-Fittings	union	2957HO	3/4 X 1	798172	105.200
669561	Sanpress	Sanpress-Fittings	union	2957HO	1 X 1	798189	133.600
670111	Sanpress	Sanpress-Fittings	adapter piece with SC	2911WA	3/4 X 3/4 NPT	798615	68.600
670121	Sanpress	Sanpress-Fittings	adapter piece with SC	2911WA	1/2 X 1/2 NPT	798622	47.900
670131	Sanpress	Sanpress-Fittings	adapter piece with SC	2911WA	1 X 1 NPT	798639	116.400
670201	Sanpress	Sanpress-Fittings	adapter piece with SC	2911WA	1 1/2 X 1 1/2 NPT	798653	236.300
670221	Sanpress	Sanpress-Fittings	adapter piece with SC	2911WA	2 X 2 NPT	798660	384.100

Material	Sytem	Product subgroup	Designation	Model no.	Dimensions	Item no.	Mass in grams
839821	Sanpress	Sanpress-Fittings	adapter piece with SC	99575	15 X 1/2	598921	39.200
839834	Sanpress	Sanpress-Fittings	adapter piece	99575HE	15 X 1/2	598938	39.600
879941	Sanpress	Sanpress-Fittings	adapter piece with SC	99575HE	22 X 3/4	601898	58.520
879951	Sanpress	Sanpress-Fittings	adapter piece with SC	99575HE	28 X 1	601904	90.090
879961	Sanpress	Sanpress-Fittings	adapter piece with SC	99575HE	35 X 1 1/4	601911	139.900
913081	Sanpress	Sanpress-Fittings	union with SC	98450	15 X 1	460051	81.500
917911	Sanpress	Sanpress-Fittings	union with SC	2263AFM	15 X 3/4	470807	72.530
917921	Sanpress	Sanpress-Fittings	union with SC	2263AFM	18 X 3/4	470814	72.100
917941	Sanpress	Sanpress-Fittings	union with SC	2263AFM	22 X 1	470821	113.380
917961	Sanpress	Sanpress-Fittings	union with SC	2263AFM	28 X 1 1/4	470838	165.600
917971	Sanpress	Sanpress-Fittings	union with SC	2263AFM	35 X 1 1/2	470845	212.100
917981	Sanpress	Sanpress-Fittings	union with SC	2263AFM	42 X 1 3/4	470852	349.100
917991	Sanpress	Sanpress-Fittings	union with SC	2263AFM	54 X 2 3/8	470869	548.000
944181	Sanpress	Sanpress-F.o.Gew	connection piece	97946IS	15	368982	790.000
944251	Sanpress	Sanpress-F.o.Gew	connection piece	97947IS	18	369064	790.000
944281	Sanpress	Sanpress-F.o.Gew	connection piece	97948IS	22	369101	766.000
945441	Sanpress	Sanpress-F.o.Gew	housing	97975AM	15	374846	551.600
945451	Sanpress	Sanpress-F.o.Gew	housing	97975AM	18	374853	557.000
945461	Sanpress	Sanpress-F.o.Gew	housing	97975AM	22	374860	562.000
963081	Sanpress	Sanpress-Fittings	adapter piece	97737	18 X 18	316204	46.900
972701	Sanpress	Sanpress-F.o.Gew	adapter piece	97737	15 X 15	333201	37.100
979821	Sanpress	Sanpress-F.o.Gew	coupling	97779	10	335946	20.120
979831	Sanpress	Sanpress-F.o.Gew	coupling	97780	12 X 10	335953	27.200
979841	Sanpress	Sanpress-F.o.Gew	coupling	97781	15 X 10	335960	33.240

Conversion table for unit weights

Note: As Viega only has one pipe for the Sanpress and Sanpress Inox systems, the data for the pipes corresponds to the Sanpress Inox product overview.

Material	System	Product subgroup	Material short text	Designation	Model no.	Dimensions	Item no.	Mass in g	Mass in kg/m	Conversion factor
109801	Sanpress Inox	Sanpress-Pipe 1.4521	22053 Sanpress-Pipe 15x1.0x3M(60) E 539	Sanpress-Pipe	22053	15 X 1.0 X3M (60)	751159	338	0.338	0.073
109811	Sanpress Inox	Sanpress-Pipe 1.4521	22053 Sanpress-Pipe 18x1.0x3M(30) E 539	Sanpress-Pipe	22053	18 X 1.0 X3M (30)	751166	411	0.411	0.088
109821	Sanpress Inox	Sanpress-Pipe 1.4521	22053 Sanpress-Pipe 22x1.2x3M(30) E 539	Sanpress-Pipe	22053	22 X 1.2 X3M (30)	751173	603	0.603	0.130
109831	Sanpress Inox	Sanpress-Pipe 1.4521	22053 Sanpress-Pipe 28x1.2x3M(30) E 539	Sanpress-Pipe	22053	28 X 1.2 X3M (30)	751180	778	0.778	0.167
109841	Sanpress Inox	Sanpress-Pipe 1.4521	22053 Sanpress-Pipe 35x1.5x3M(15) E 539	Sanpress-Pipe	22053	35 X 1.5 X3M (15)	751197	1215	1.215	0.261
109851	Sanpress Inox	Sanpress-Pipe 1.4521	22053 Sanpress-Pipe 42x1.5x3M(15) E 539	Sanpress-Pipe	22053	42 X 1.5 X3M (15)	751203	1469	1.469	0.316
109861	Sanpress Inox	Sanpress-Pipe 1.4521	22053 Sanpress-Pipe 54x1.5x3M(15) E 539	Sanpress-Pipe	22053	54 X 1.5 X3M (15)	751210	1872	1.872	0.402
109951	Sanpress Inox	Sanpress-Pipe 1.4521	22053XLSanpress-Pipe 108x2.0x3M(15)E 539	Sanpress-Pipe	22053XL	108 X 2.0 X3M (15)	751258	5028	5.028	1.081
273271	Sanpress Inox	Sanpress-Pipe 1.4401	2203 Sanpress-Pipe 18x1.0(240) E 529	Sanpress-Pipe	2203	18 X 1.0 (240)	289034	433	0.433	0.093
273276	Sanpress Inox	Sanpress-Pipe 1.4401	2203 Sanpress-Pipe 18x1.0(60) E 529	Sanpress-Pipe	2203	18 X 1.0 (60)	807122	404	0.404	0.087
273431	Sanpress Inox	Sanpress-Pipe 1.4401	2203 Sanpress-Pipe 54x1.5(60) E 529	Sanpress-Pipe	2203	54 X 1.5 (60)	193676	1967	1.967	0.423
273436	Sanpress Inox	Sanpress-Pipe 1.4401	2203 Sanpress-Pipe 54x1.5(30) E 529	Sanpress-Pipe	2203	54 X 1.5 (30)	807177	1900	1.9	0.408
277050	Sanpress Inox	Sanpress-Pipe 1.4401	2203 Sanpress-Pipe 15x1.0(600) E 529	Sanpress-Pipe	2203	15 X 1.0 (600)	102036	342	0.342	0.074
277056	Sanpress Inox	Sanpress-Pipe 1.4401	2203 Sanpress-Pipe 15x1.0(120) E 529	Sanpress-Pipe	2203	15 X 1.0 (120)	807115	333	0.333	0.072
277057	Sanpress Inox	Sanpress-Pipe 1.4401	2203 Sanpress-Pipe 15x1.0(60) E 529	Sanpress-Pipe	2203	15 X 1.0 (60)	639785	340	0.34	0.073
277060	Sanpress Inox	Sanpress-Pipe 1.4401	2203 Sanpress-Pipe 22x1.2(420) E 529	Sanpress-Pipe	2203	22 X 1.2 (420)	102708	624	0.624	0.134
277066	Sanpress Inox	Sanpress-Pipe 1.4401	2203 Sanpress-Pipe 22x1.2(60) E 529	Sanpress-Pipe	2203	22 X 1.2 (60)	807139	603	0.603	0.130
277070	Sanpress Inox	Sanpress-Pipe 1.4401	2203 Sanpress-Pipe 28x1.2(240) E 529	Sanpress-Pipe	2203	28 X 1.2 (240)	104924	775	0.775	0.167
277076	Sanpress Inox	Sanpress-Pipe 1.4401	2203 Sanpress-Pipe 28x1.2(60) E 529	Sanpress-Pipe	2203	28 X 1.2 (60)	807146	775	0.775	0.167
277080	Sanpress Inox	Sanpress-Pipe 1.4401	2203 Sanpress-Pipe 35x1.5(180) E 529	Sanpress-Pipe	2203	35 X 1.5 (180)	108588	1255	1.255	0.270
277086	Sanpress Inox	Sanpress-Pipe 1.4401	2203 Sanpress-Pipe 35x1.5(30) E 529	Sanpress-Pipe	2203	35 X 1.5 (30)	807153	1200	1.2	0.258
277090	Sanpress Inox	Sanpress-Pipe 1.4401	2203 Sanpress-Pipe 42x1.5(120) E 529	Sanpress-Pipe	2203	42 X 1.5 (120)	113001	1518	1.518	0.326

Material	System	Product subgroup	Material short text	Designation	Model no.	Dimensions	Item no.	Mass in g	Mass in kg/m	Conversion factor
277096	Sanpress Inox	Sanpress-Pipe 1.4401	2203 Sanpress-Pipe 42x1.5(30) E 529	Sanpress-Pipe	2203	42 X 1.5 (30)	807160	1518	1.518	0.326
277101	Sanpress Inox	Sanpress-Pipe 1.4401	2203XL Sanpress-Pipe 76.1x2.0(30) E 529	Sanpress-Pipe	2203XL	76.1 X 2.0 (30)	354862	3622	3.622	0.778
277106	Sanpress Inox	Sanpress-Pipe 1.4401	2203XL Sanpress-Pipe 76.1x2.0(6) E 529	Sanpress-Pipe	2203XL	76.1 X 2.0 (6)	807207	3596	3.596	0.773
277111	Sanpress Inox	Sanpress-Pipe 1.4401	2203XL Sanpress-Pipe 88.9x2.0(30) E 529	Sanpress-Pipe	2203XL	88.9 X 2.0 (30)	354855	4341	4.341	0.933
277116	Sanpress Inox	Sanpress-Pipe 1.4401	2203XL Sanpress-Pipe 88.9x2.0(6) E 529	Sanpress-Pipe	2203XL	88.9 X 2.0 (6)	807214	4244	4.244	0.912
277121	Sanpress Inox	Sanpress-Pipe 1.4401	2203XL Sanpress-Pipe 108.0x2.0(30) E 529	Sanpress-Pipe	2203XL	108.0 X 2.0 (30)	354848	5170	5.17	1.111
277126	Sanpress Inox	Sanpress-Pipe 1.4401	2203XL Sanpress-Pipe 108.0x2.0(6) E 529	Sanpress-Pipe	2203XL	108.0 X 2.0 (6)	807184	5202	5.202	1.118
280441	Sanpress Inox	Sanpress-Pipe 1.4401	2203 Sanpress-Pipe 12x1.0(60) E 529	Sanpress-Pipe	2203	12 X 1.0 (60)	297824	275	0.275	0.059
282123	Sanpress Inox	Sanpress-Pipe 1.4401	2206 Sanpress-Pipe 22x1.2 E FH9	Sanpress-Pipe	2206	22 X 1.2	799366	667	0.667	0.143
282133	Sanpress Inox	Sanpress-Pipe 1.4401	2206 Sanpress-Pipe 28x1.2 E FH9	Sanpress-Pipe	2206	28 X 1.2	799373	850	0.85	0.183
282143	Sanpress Inox	Sanpress-Pipe 1.4401	2206 Sanpress-Pipe 35x1.5 E FH9	Sanpress-Pipe	2206	35 X 1.5	799380	1315	1.315	0.283
282153	Sanpress Inox	Sanpress-Pipe 1.4401	2206 Sanpress-Pipe 42x1.5 E FH9	Sanpress-Pipe	2206	42 X 1.5	799397	1611.11	1.61111	0.346
282163	Sanpress Inox	Sanpress-Pipe 1.4401	2206 Sanpress-Pipe 54x1.5 E FH9	Sanpress-Pipe	2206	54 X 1.5	799403	2029.16	2.02916	0.436
342751	Sanpress Inox	Sanpress-Pipe 1.4401	2203XL Sanpress-Pipe 64.0x2.0(60) E 529	Sanpress-Pipe	2203XL	64.0 X 2.0 (60)	578626	3032	3.032	0.652
342756	Sanpress Inox	Sanpress-Pipe 1.4401	2203XL Sanpress-Pipe 64.0x2.0(6) E 529	Sanpress-Pipe	2203XL	64.0 X 2.0 (6)	807191	3030	3.03	0.651
365301	Sanpress Inox	Sanpress-Pipe 1.4301	0103 Pipe 1/2 E 1 9	Pipe	103	01. Feb	870007	556.84	0.55684	0.120
365311	Sanpress Inox	Sanpress-Pipe 1.4301	0103 Pipe 3/4 E 1 9	Pipe	103	03. Apr	870052	803.59	0.80359	0.173
365321	Sanpress Inox	Sanpress-Pipe 1.4301	0103 Pipe 1 E 1 9	Pipe	103	1	870106	1050.34	1.05034	0.226
365331	Sanpress Inox	Sanpress-Pipe 1.4301	0103 Pipe 11/4 E 1 9	Pipe	103	1 1/4	870151	1299.81	1.29981	0.279
365341	Sanpress Inox	Sanpress-Pipe 1.4301	0103 Pipe 11/2 E 1 9	Pipe	103	1 1/2	870205	1543.8	1.5438	0.332
365351	Sanpress Inox	Sanpress-Pipe 1.4301	0103 Pipe 2 E 1 9	Pipe	103	2	870250	2038.12	2.03812	0.438
365981	Sanpress Inox	Sanpress-Pipe 1.4521	2205 Sanpress-Pipe 12x1.0(60) E 539	Sanpress-Pipe	2205	12 X 1.0 (60)	615987	266	0.266	0.057
365991	Sanpress Inox	Sanpress-Pipe 1.4521	2205 Sanpress-Pipe 15x1.0(600) E 539	Sanpress-Pipe	2205	15 X 1.0 (600)	615994	330	0.33	0.071
365996	Sanpress Inox	Sanpress-Pipe 1.4521	2205 Sanpress-Pipe 15x1.0(120) E 539	Sanpress-Pipe	2205	15 X 1.0 (120)	807351	330	0.33	0.071
365997	Sanpress Inox	Sanpress-Pipe 1.4521	2205 Sanpress-Pipe 15x1.0(60) E 539	Sanpress-Pipe	2205	15 X 1.0 (60)	639174	338	0.338	0.073

Material	System	Product subgroup	Material short text	Designation	Model no.	Dimensions	Item no.	Mass in g	Mass in kg/m	Conversion factor
366001	Sanpress Inox	Sanpress-Pipe 1.4521	2205 Sanpress-Pipe 18x1.0(240) E 539	Sanpress-Pipe	2205	18 X 1.0 (240)	616007	402	0.402	0.086
366006	Sanpress Inox	Sanpress-Pipe 1.4521	2205 Sanpress-Pipe 18x1.0(60) E 539	Sanpress-Pipe	2205	18 X 1.0 (60)	807368	405	0.405	0.087
366007	Sanpress Inox	Sanpress-Pipe 1.4521	2205 Sanpress-Pipe 18x1.0(30) E 539	Sanpress-Pipe	2205	18 X 1.0 (30)	649180	397	0.397	0.085
366011	Sanpress Inox	Sanpress-Pipe 1.4521	2205 Sanpress-Pipe 22x1.2(420) E 539	Sanpress-Pipe	2205	22 X 1.2 (420)	616014	604	0.604	0.130
366016	Sanpress Inox	Sanpress-Pipe 1.4521	2205 Sanpress-Pipe 22x1.2(60) E 539	Sanpress-Pipe	2205	22 X 1.2 (60)	807375	593	0.593	0.127
366017	Sanpress Inox	Sanpress-Pipe 1.4521	2205 Sanpress-Pipe 22x1.2(30) E 539	Sanpress-Pipe	2205	22 X 1.2 (30)	649197	604	0.604	0.130
366021	Sanpress Inox	Sanpress-Pipe 1.4521	2205 Sanpress-Pipe 28x1.2(240) E 539	Sanpress-Pipe	2205	28 X 1.2 (240)	616021	778	0.778	0.167
366026	Sanpress Inox	Sanpress-Pipe 1.4521	2205 Sanpress-Pipe 28x1.2(60) E 539	Sanpress-Pipe	2205	28 X 1.2 (60)	807382	762	0.762	0.164
366027	Sanpress Inox	Sanpress-Pipe 1.4521	2205 Sanpress-Pipe 28x1.2(30) E 539	Sanpress-Pipe	2205	28 X 1.2 (30)	649203	760	0.76	0.163
366031	Sanpress Inox	Sanpress-Pipe 1.4521	2205 Sanpress-Pipe 35x1.5(180) E 539	Sanpress-Pipe	2205	35 X 1.5 (180)	616038	1216	1.216	0.261
366036	Sanpress Inox	Sanpress-Pipe 1.4521	2205 Sanpress-Pipe 35x1.5(30) E 539	Sanpress-Pipe	2205	35 X 1.5 (30)	807399	1185	1.185	0.255
366041	Sanpress Inox	Sanpress-Pipe 1.4521	2205 Sanpress-Pipe 42x1.5(120) E 539	Sanpress-Pipe	2205	42 X 1.5 (120)	616045	1420	1.42	0.305
366046	Sanpress Inox	Sanpress-Pipe 1.4521	2205 Sanpress-Pipe 42x1.5(30) E 539	Sanpress-Pipe	2205	42 X 1.5 (30)	807405	1440	1.44	0.309
366047	Sanpress Inox	Sanpress-Pipe 1.4521	2205 Sanpress-Pipe 42x1.5(6) E 539	Sanpress-Pipe	2205	42 X 1.5 (6)	649210	1470	1.47	0.316
366051	Sanpress Inox	Sanpress-Pipe 1.4521	2205 Sanpress-Pipe 54x1.5(60) E 539	Sanpress-Pipe	2205	54 X 1.5 (60)	616557	1905	1.905	0.409
366056	Sanpress Inox	Sanpress-Pipe 1.4521	2205 Sanpress-Pipe 54x1.5(30) E 539	Sanpress-Pipe	2205	54 X 1.5 (30)	807412	1865	1.865	0.401
366057	Sanpress Inox	Sanpress-Pipe 1.4521	2205 Sanpress-Pipe 54x1.5(6) E 539	Sanpress-Pipe	2205	54 X 1.5 (6)	649227	1870	1.87	0.402
366061	Sanpress Inox	Sanpress-Pipe 1.4521	2205XL Sanpress-Pipe 64x2.0(60) E 539	Sanpress-Pipe	2205XL	64 X 2.0 (60)	616564	3000	3	0.645
366066	Sanpress Inox	Sanpress-Pipe 1.4521	2205XL Sanpress-Pipe 64x2.0(6) E 539	Sanpress-Pipe	2205XL	64 X 2.0 (6)	807436	2908	2.908	0.625
366071	Sanpress Inox	Sanpress-Pipe 1.4521	2205XL Sanpress-Pipe 76.1x2.0(30) E 539	Sanpress-Pipe	2205XL	76.1 X 2.0 (30)	616571	3507	3.507	0.754
366076	Sanpress Inox	Sanpress-Pipe 1.4521	2205XL Sanpress-Pipe 76.1x2.0(6) E 539	Sanpress-Pipe	2205XL	76.1 X 2.0 (6)	807443	3477	3.477	0.747
366081	Sanpress Inox	Sanpress-Pipe 1.4521	2205XL Sanpress-Pipe 88.9x2.0(30) E 539	Sanpress-Pipe	2205XL	88.9 X 2.0 (30)	616588	4111	4.111	0.884
366086	Sanpress Inox	Sanpress-Pipe 1.4521	2205XL Sanpress-Pipe 88.9x2.0(6) E 539	Sanpress-Pipe	2205XL	88.9 X 2.0 (6)	807450	4061	4.061	0.873
366091	Sanpress Inox	Sanpress-Pipe 1.4521	2205XL Sanpress-Pipe 108x2.0(30) E 539	Sanpress-Pipe	2205XL	108 X 2.0 (30)	616595	4955	4.955	1.065
366096	Sanpress Inox	Sanpress-Pipe 1.4521	2205XL Sanpress-Pipe 108x2.0(6) E 539	Sanpress-Pipe	2205XL	108 X 2.0 (6)	807429	4958	4.958	1.066

Material	System	Product subgroup	Material short text	Designation	Model no.	Dimensions	Item no.	Mass in g	Mass in kg/m	Conversion factor
386201	Sanpress Inox	Sanpress-Pipe 1.4401	4003 Sanpress-Pipe 1/2 E 1 9	Sanpress-Pipe	4003	01. Feb	820002	556.84	0.55684	0.120
386211	Sanpress Inox	Sanpress-Pipe 1.4401	4003 Sanpress-Pipe 3/4 E 1 9	Sanpress-Pipe	4003	03. Apr	820057	803.59	0.80359	0.173
386221	Sanpress Inox	Sanpress-Pipe 1.4401	4003 Sanpress-Pipe 1 E 1 9	Sanpress-Pipe	4003	1	820101	1050.34	1.05034	0.226
386231	Sanpress Inox	Sanpress-Pipe 1.4401	4003 Sanpress-Pipe 11/4 E 1 9	Sanpress-Pipe	4003	1 1/4	820156	1299.81	1.29981	0.279
386251	Sanpress Inox	Sanpress-Pipe 1.4401	4003 Sanpress-Pipe 2 E 1 9	Sanpress-Pipe	4003	2	820255	2038.12	2.03812	0.438
553471	Sanpress Inox	Sanpress-Pipe	0107XL Sanpress-Pipe 21/2 E 1 9	Sanpress-Pipe	0107XL	2 1/2	870953	3243.04	3.24304	0.697
553481	Sanpress Inox	Sanpress-Pipe	0107XL Sanpress-Pipe 3 E 1 9	Sanpress-Pipe	0107XL	3	871004	3879.82	3.87982	0.834
553491	Sanpress Inox	Sanpress-Pipe	0107XL Sanpress-Pipe 4 E 1 9	Sanpress-Pipe	0107XL	4	871059	5153.37	5.15337	1.108
553541	Sanpress Inox	Sanpress-Pipe 1.4401	4003 Sanpress-Pipe 11/2 E 1 9	Sanpress-Pipe	4003	1 1/2	820200	1543.84	1.54384	0.332
553561	Sanpress Inox	Sanpress-Pipe	4007XL Sanpress-Pipe 21/2 E 1 9	Sanpress-Pipe	4007XL	2 1/2	820422	3243.04	3.24304	0.697
553571	Sanpress Inox	Sanpress-Pipe	4007XL Sanpress-Pipe 3 E 1 9	Sanpress-Pipe	4007XL	3	820507	3879.85	3.87985	0.834
553581	Sanpress Inox	Sanpress-Pipe	4007XL Sanpress-Pipe 4 E 1 9	Sanpress-Pipe	4007XL	4	820552	5153.37	5.15337	1.108
553591	Sanpress Inox	Sanpress-Pipe	0108 Sanpress-Pipe 1/2 E 1 9	Sanpress-Pipe	108	01. Feb	870502	395	0.395	0.085
553601	Sanpress Inox	Sanpress-Pipe	0108 Sanpress-Pipe 3/4 E 1 9	Sanpress-Pipe	108	03. Apr	870557	670	0.67	0.144
553611	Sanpress Inox	Sanpress-Pipe	0108 Sanpress-Pipe 1 E 1 9	Sanpress-Pipe	108	1	870601	872	0.872	0.187
553621	Sanpress Inox	Sanpress-Pipe	0108 Sanpress-Pipe 11/4 E 1 9	Sanpress-Pipe	108	1 1/4	870656	1334	1.334	0.287
553631	Sanpress Inox	Sanpress-Pipe	0108 Sanpress-Pipe 11/2 E 1 9	Sanpress-Pipe	108	1 1/2	870700	1584	1.584	0.340
553641	Sanpress Inox	Sanpress-Pipe	0108 Sanpress-Pipe 2 E 1 9	Sanpress-Pipe	108	2	870755	2090	2.09	0.449
553651	Sanpress Inox	Sanpress-Pipe	0108XL Sanpress-Pipe 21/2 E 1 9	Sanpress-Pipe	0108XL	2 1/2	870809	3433.417	3.433417	0.738
553661	Sanpress Inox	Sanpress-Pipe	0108XL Sanpress-Pipe 3 E 1 9	Sanpress-Pipe	0108XL	3	870854	3841	3.841	0.825
553671	Sanpress Inox	Sanpress-Pipe	0108XL Sanpress-Pipe 4 E 1 9	Sanpress-Pipe	0108XL	4	870908	5102	5.102	1.096

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Notes
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