

VSH SudoPress Copper



Environmental Product Declaration

in accordance with
ISO 14044, ISO 14040 and EN 15804

1 general information

1.1 note on this document

The original document was written in English, all other versions are a translation of the original document.

1.2 declaration holder

Aalberts integrated piping systems B.V.

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Aalberts integrated piping systems develops the most advanced integrated piping systems for distribution and control of liquids and gases. These systems are used in various markets such as industry, utility and residential construction. We offer fully integrated piping systems in valve, connection, fastening and piping technology. In close cooperation with our customers, we build the perfect integrated piping system that meets all their requirements. Our piping systems are easy to specify, install, check and maintain, saving you considerable time on preparation and installation. We meet the highest quality and industry standards required in our markets. The Aalberts integrated piping systems production locations mentioned in this document, Hilversum and Zeewolde, are certified acc. ISO 9001, ISO 14001 and ISO 45001.

1.3 declared Product

This document applies to the VSH SudoPress Copper fittings listed in the appendix -chapter 5- of this document. Articles with bronze, brass or gunmetal components are not covered in this declaration. A VSH SudoPress Copper bend 90° (2 x press) dimension 22 mm, article number 6670125, has been used as a reference article.


1.4 verification

The European standard EN15804:2012 +A2:2019 has been used as the core PCR. Environmental product declarations for construction products may not be comparable if they do not comply with the EN15804. It is only possible to make a limited comparison between life cycle assessment results when different background databases are used and/or different assumptions as described in chapter 3.3.

This is a Self-Declared Environmental Product Declaration acc. NEN-EN ISO 14025.

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Author of LCA: Fabian Bruns
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Hilversum, September 2023
Aalberts integrated piping systems B.V.



Roland Voermans
COO

2 product

2.1 description and application purpose

VSH SudoPress Copper is a complete piping system suitable for a wide variety of applications, from drinking water, heating and solar installations to cooling water and compressed air systems. The VSH SudoPress Copper range consists of press fittings and pressing tools. The VSH SudoPress Copper fittings are pressed with jaws and slings with V-profile and are available from 12 up to and including 54 mm, including fittings for 14, 16 and 18 mm copper tube.

- VSH SudoPress Copper fittings are made of CU-DHP copper, bronze CC499K (Rg5) or brass (CW617N).
- VSH SudoPress Copper can be used with copper pipes in accordance with EN 1057 R220/R350/R290. The o-ring has decisive influence on the performance of the system in different applications, with different media and parameters. Depending on the application, different o-rings can be inserted in the fittings:
 - EPDM (Ethylene Propylene Diene Monomer / black) – standard
 - FPM (Fluoroelastomer / green) – for use in specific applications

The VSH SudoPress LBP function is achieved using a special, patented o-ring. Fittings with a Leak Before Pressed function have the advantage that connections which have not been pressed will leak water or testing gas during pressure testing, causing the test pressure to drop. When the test is done with water, the leakage will show around the unpressed connection.

Visu-Control® is an additional safety feature on VSH SudoPress fittings which ensures that a visual and tangible check is carried out (in addition to the Leak Before Pressed function). After pressing, the Visu-Control® ring is disposed of..

2.2 VSH SudoPress Copper fittings

All VSH SudoPress Copper fittings are produced in our modern, automated factory in the France. The VSH SudoPress product range includes fittings, valves, tubes and tools. VSH SudoPress fittings are compatible with various press tool brands. Use our online tool selector to find the right tool for the right material. During the pressing process, bead, socket and tube are deformed to form a leak-tight and mechanically strong, permanent connection



1. fitting bead
2. fitting body
3. Visu-Control® ring
4. insertion socket
5. o-ring

For the composition of the components, see chapter 3.2 “product composition”

2.3 range and conversion factors

The reference product for this declaration is the VSH SudoPress Copper bend 90° (2 x press), dimension 22 mm. This article was chosen as a reference because it is the most common product in the VSH SudoPress Copper article range. The life cycle assessment results in chapter 4 can be converted to other articles listed in the appendix of this document. This can be done by multiplying the results with the conversion factor for a specific product. For products and their corresponding conversion factors, see the appendix -chapter 5-.

3 life cycle assessment scope

3.1 system boundaries

This EPD can be regarded as a Cradle-to-Gate with options, module C2 and D. The following phases are considered not relevant for this product range: A5, B, C1, C3 and C4.

3.2 declared unit composition

The reference article, VSH SudoPress Copper 90° bend 22 mm, consists of the following raw materials:

copper:	84 gram
elastomers:	1.6 gram
plastic:	0.5 gram
Total:	86 gram

3.3 assumptions and background information

A1: For the raw material supply 100% of the materials on the bill of materials were modelled using data from the Ecoinvent database. Also included were copper waste and ancillary materials like water and lubrication oil.

A2: For transport of materials to Aalberts integrated piping systems in Saint-Denis-de-l'Hôtel specific transport distances from materials suppliers were used. Class Euro5 trucks are used as the main means of transport and were used for calculation.

A3: VSH SudoPress Copper products are manufactured in the factory of Aalberts integrated piping systems located in Saint-Denis-de-l'Hôtel, France. This factory makes use of green electricity for manufacturing the VSH SudoPress products. Therefore the green electricity France mix was used for calculating the electricity consumption.

A4: Transport from the factory in Saint-Denis-de-l'Hôtel to the warehouse in Zeewolde is done by Aalberts integrated piping systems and logistical partners. The main means of transport is by Class Euro5 trucks. The transportation distance is calculated at 632 km. Transportation to customers within Europe is done by logistical partners. The main means of transport in Europe is by Class Euro5 trucks. The average transportation distance is calculated at 662 km.

A5: The installation is done by use of a press tool which uses a considered negligible amount of energy.

B1-B7: A VSH SudoPress Copper fitting is designed for a lifetime of 50+ years of service and needs no maintenance, repair, replacement or refurbishment and has no operational water or energy use during its lifetime.

C1-C4. The piping system is assumed to be stripped as a whole from a building in the demolition process and separate energy used for the fitting de-construction is considered negligible in this process. Transportation to a waste processing site is assumed at 50 km and modelled by use of garbage trucks. The waste processing is assumed to be done at a material level rather than component level since the fittings are permanently fitted onto piping. Therefore energy consumption for the waste processing of fittings was considered negligible. Partial disposal was considered to happen at a recycler rather than a waste processor and is therefore calculated in phase D.

D: Average recycling rates for building materials in Europe were used to calculate the amount of material that went for recycling, landfill and incineration. 90% of copper will be recycled, 32.5% of plastics recycled and 42.5% was modelled to go into landfill. The remainder of the product including O-ring was modelled to be incinerated.

3.4 quality of life cycle assessment, data and reporting

This environmental product declaration is based on a life cycle assessment conducted according to the ISO 14040 and ISO 14044 and meets further requirements from the EN 15804:2012 + A2:2019. The modelling and calculation was done in the Ecochain software tool "Helix", which uses the Ecoinvent database. Inventory data was mainly provided by Aalberts integrated piping systems b.v. and was peer reviewed by several internal partners. The environmental product declaration report is automatically generated to prevent human errors and ensure its quality. Improved quality of the life cycle assessment will be achieved when it would get externally verified according to ISO 14025. Because of the nature of a life cycle assessment and accompanying assumptions, the environmental impact of a product will remain an underestimate. Care must be taken when comparing EPDs from different sources. Aalberts integrated piping systems b.v. is committed to providing the most accurate environmental impact possible to its customers and will continue to improve the quality of the data, model and results.

4 life cycle assessment results

The following environmental profile shows the results of the life cycle assessment of a single unit of the declared product.

Environmental Profile

This LCA is calculated according to: ISO 14044, ISO 14040 and EN 15804
Ecochain v3.5.80



Product: Sudopress Elbow 90° copper FF 22mm EPDM
Unit: 1 units
Manufacturer: Aalberts IPS - FR

LCA standard: EN15804+A2 (2019)
Standard database: Worldwide - Ecoinvent v 3.8 Cut-Off
Externally verified: No
Export date: 29-06-2023



The LCA background information and project dossier have been registered in the online Ecochain application in the account Aalberts IPS - FR (2022). (☑ = module declared, MND = module not declared).

A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
☑	☑	☑	☑	MND	MND	MND	MND	MND	MND	MND	MND	MND	☑	MND	MND	☑
Product stage					Use stage							End-of-Life stage				
A1 Raw material supply	A2 Transport	A3 Manufacturing			B1 Use	B2 Maintenance	B3 Repair	B4 Replacement	B5 Refurbishment			C1 De-construction demolition	C2 Transport	C3 Waste processing		
Construction process stage					B6 Operational energy use	B7 Operational water use						C4 Disposal				
A4 Transport gate to site	A5 Assembly / Construction installation process											Benefits and loads beyond the system boundaries				
												D Reuse- Recovery- Recycling- potential				

environmental impacts and parameters

GWP-total = EF Climate Change [kg CO₂ eq]; GWP-f = EF Climate change - Fossil [kg CO₂ eq]; GWP-b = EF Climate Change - Biogenic [kg CO₂ eq];
GWP-luluc = EF Climate Change - Land use and LU change [kg CO₂ eq]; ODP = EF Ozone depletion [kg CFC11 eq]; AP = EF Acidification [mol H⁺ eq];
EP-fw = EF Eutrophication, freshwater [kg P eq]; EP-m = EF Eutrophication, marine [kg N eq]; EP-T = EF Eutrophication, terrestrial [mol N eq]; POCP
= EF Photochemical ozone formation [kg NMVOC eq]; ADP-mm = EF Resource use, minerals and metals [kg Sb eq]; ADP-f = EF Resource use, fossils
[MJ]; WDP = EF Water use [m³ depriv.]; PM = EF Particulate matter [disease inc.]; IR = EF Ionising radiation [kBq U-235 eq]; ETP-fw = EF Ecotoxicity,
freshwater [CTUe]; HTP-c = EF Human toxicity, cancer [CTUh]; HTP-nc = EF Human toxicity, non-cancer
[CTUh]; SQP = EF Land use [Pt]; PERE = Use of renewable primary energy excluding renewable primary energy resources used as raw materials
[MJ]; PERM = Use of renewable primary energy resources used as raw materials [MJ]; PERT = Total use of renewable primary energy resources [MJ];
PENRE = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials [MJ]; PENRM = Use of non-
renewable primary energy resources used as raw materials [MJ]; PENRT = Total use of non-renewable primary energy resources [MJ]; PET = Total
energy [MJ]; SM = Use of secondary material [kg]; RSF = Use of renewable secondary fuels [MJ]; NRSF = Use of non-renewable secondary fuels [MJ];
FW = Use of net fresh water [m³]; HWD = Hazardous waste disposed [kg]; NHWD = Non-hazardous waste disposed [kg]; RWD = Radioactive waste
disposed [kg]; CRU = Components for re-use [kg]; MFR = Materials for recycling [kg]; MER = Materials for energy recovery [kg]; EE = Exported energy
[MJ]; EET = Exported energy thermic [MJ]; EEE = Exported energy electric [MJ]

statement of confidentiality

This document and supporting material contain confidential and proprietary business information of Aalberts integrated piping systems. These materials may be printed or (photo) copied or otherwise used only with the written consent of Aalberts integrated piping systems.

results

Environmental impact	Unit	A1	A2	A3	A1-A3	A4	C2	D	Total
GWP-total	kg CO2 eq	4.108E-1	1.009E-2	4.663E-3	4.256E-1	1.853E-2	8.016E-4	-1.275E-1	3.174E-1
GWP-f	kg CO2 eq	4.150E-1	1.008E-2	4.613E-3	4.297E-1	1.851E-2	8.008E-4	-1.271E-1	3.219E-1
GWP-b	kg CO2 eq	-4.612E-3	9.068E-6	4.683E-5	-4.556E-3	1.666E-5	3.542E-7	-2.390E-4	-4.778E-3
GWP-luluc	kg CO2 eq	4.300E-4	3.958E-6	3.635E-6	4.376E-4	7.269E-6	3.564E-7	-1.256E-4	3.196E-4
ODP	kg CFC11 eq	2.484E-8	2.332E-9	1.488E-9	2.866E-8	4.284E-9	3.754E-10	-1.006E-8	2.326E-8
AP	mol H+ eq	4.693E-2	4.090E-5	3.053E-5	4.700E-2	7.512E-5	5.282E-6	-5.593E-3	4.149E-2
EP-fw	kg P eq	3.736E-4	7.066E-8	1.350E-7	3.738E-4	1.298E-7	8.328E-9	-4.467E-5	3.293E-4
EP-m	kg N eq	2.168E-3	1.220E-5	4.692E-6	2.185E-3	2.240E-5	1.380E-6	-5.180E-4	1.691E-3
EP-T	mol N eq	3.286E-2	1.346E-4	5.129E-5	3.305E-2	2.473E-4	1.522E-5	-8.010E-3	2.530E-2
POCP	kg NMVOC eq	8.767E-3	4.124E-5	5.199E-5	8.860E-3	7.574E-5	4.725E-6	-1.763E-3	7.178E-3
ADP-mm	kg Sb eq	2.692E-4	3.505E-8	1.200E-7	2.693E-4	6.437E-8	3.363E-8	-9.321E-5	1.762E-4
ADP-f	MJ	4.467E+0	1.524E-1	4.117E-1	5.032E+0	2.799E-1	2.414E-2	-1.634E+0	3.701E+0
WDP	m3 depriv.	3.424E-1	4.563E-4	4.978E-3	3.478E-1	8.381E-4	4.057E-5	-1.118E-1	2.369E-1
PM	disease inc.	1.010E-7	8.673E-10	1.974E-10	1.020E-7	1.593E-9	5.980E-11	-1.985E-8	8.384E-8
IR	kBq U-235 eq	1.294E-2	6.616E-4	3.480E-3	1.708E-2	1.215E-3	1.042E-4	-7.861E-3	1.054E-2
ETP-fw	CTUe	4.520E+2	1.189E-1	1.616E-1	4.523E+2	2.184E-1	1.619E-2	-9.985E+1	3.527E+2
HTP-c	CTUh	6.285E-9	3.851E-12	4.170E-12	6.293E-9	7.073E-12	3.765E-13	-2.184E-9	4.117E-9
HTP-nc	CTUh	5.379E-7	1.247E-10	1.045E-10	5.382E-7	2.291E-10	1.188E-11	-1.588E-7	3.796E-7
SQP	Pt	6.238E+0	1.047E-1	2.805E-2	6.370E+0	1.923E-1	9.441E-3	-1.704E+0	4.868E+0
Resource use	Unit	A1	A2	A3	A1-A3	A4	C2	D	Total
PERE	MJ	0	2.148E-3	2.690E-2	2.905E-2	3.945E-3	0	3.287E-5	3.302E-2
PERM	MJ	1.309E+0	0	0	1.309E+0	0	1.972E-4	-5.344E-1	7.752E-1
PERT	MJ	1.309E+0	2.148E-3	2.690E-2	1.338E+0	3.945E-3	1.972E-4	-5.344E-1	8.082E-1
PENRE	MJ	0	1.618E-1	4.206E-1	5.824E-1	2.972E-1	0	1.098E-3	8.807E-1
PENRM	MJ	4.762E+0	0	0	4.762E+0	0	2.563E-2	-1.739E+0	3.048E+0
PENRT	MJ	4.762E+0	1.618E-1	4.206E-1	5.344E+0	2.972E-1	2.563E-2	-1.738E+0	3.929E+0
PET	MJ	6.071E+0	1.639E-1	4.475E-1	6.683E+0	3.011E-1	2.583E-2	-2.273E+0	4.737E+0
SM	kg	0	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0
FW	m3	8.641E-3	1.699E-5	1.911E-4	8.849E-3	3.120E-5	1.495E-6	-2.816E-3	6.066E-3
Output flows and waste categories	Unit	A1	A2	A3	A1-A3	A4	C2	D	Total
HWD	kg	2.603E-5	3.980E-7	3.054E-7	2.674E-5	7.310E-7	6.569E-8	-2.024E-6	2.551E-5
NHWD	kg	1.582E-1	7.837E-3	6.478E-4	1.667E-1	1.439E-2	5.464E-4	-9.897E-2	8.270E-2
RWD	kg	1.219E-5	1.031E-6	4.643E-6	1.787E-5	1.893E-6	1.673E-7	-7.213E-6	1.271E-5
CRU	kg	0	0	0	0	0	0	0	0
MFR	kg	0	0	0	0	0	0	0	0
MER	kg	0	0	0	0	0	0	0	0
EE	MJ	0	0	0	0	0	0	0	0
EET	MJ	0	0	0	0	0	0	0	0
EEE	MJ	0	0	0	0	0	0	0	0

5 appendix

The life cycle assessment results listed in chapter 4 can be converted to the other sales articles listed using the conversion factor in accordance with the following tables.

SP5270V straight coupling (2 x press)		
article no.	dimensions	conversion factor
6671093	12	0.31
6671095	14	0.40
6671104	15	0.40
6671106	16	0.45
6671115	18	0.50
6671126	22	0.69
6671137	28	0.86
6671148	35	1.13
6671159	42	2.62
6671161	54	3.37

SP5275V slip coupling (2 x press)		
article no.	dimensions	conversion factor
6671170	12	0.50
6671172	14	0.62
6671181	15	0.62
6671183	16	0.71
6671192	18	0.74
6671203	22	1.00
6671214	28	1.40
6671225	35	1.94
6671236	42	3.44
6671247	54	4.77

SP5002V elbow 90° (2 x press)		
article no.	dimensions	conversion factor
6670092	12	0.40
6670094	14	0.52
6670103	15	0.52
6670105	16	0.59
6670114	18	0.73
6670125	22	1.00
6670136	28	1.48
6670147	35	2.17
6670158	42	4.19
6670169	54	5.92

SP5001V elbow 90° (press x male)		
article no.	dimensions	conversion factor
6670015	12 x Ø12	0.37
6670017	14 x Ø14	0.50
6670026	15 x Ø15	0.50
6670028	16 x Ø16	0.57
6670037	18 x Ø18	0.71
6670048	22 x Ø22	1.01
6670059	28 x Ø28	1.42
6670061	35 x Ø35	2.09
6670070	42 x Ø42	4.16
6670081	54 x Ø54	5.81

SP5041V bend 45° (2 x press)		
article no.	dimensions	conversion factor
6670257	12	0.35
6670259	14	0.44
6670268	15	0.47
6670270	16	0.51
6670279	18	0.59
6670281	22	0.85
6670290	28	1.14
6670301	35	1.44
6670312	42	3.12
6670323	54	4.28

SP5040V bend 45° (press x male)		
article no.	dimensions	conversion factor
6670171	12 x Ø12	0.33
6670173	14 x Ø14	0.42
6670180	15 x Ø15	0.44
6670182	16 x Ø16	0.49
6670191	18 x Ø18	0.56
6670202	22 x Ø22	0.81
6670213	28 x Ø28	1.08
6670224	35 x Ø35	1.44
6670235	42 x Ø42	2.97
6670246	54 x Ø54	4.30

SP5085V crossover (2 x press)		
article no.	dimensions	conversion factor
6671456	15	1.01
6671467	18	1.41
6671478	22	2.10

SP5086V crossover (press x male)		
article no.	dimensions	conversion factor
6671489	12 x Ø12	0.73
6671491	15 x Ø15	0.93
6671500	18 x Ø18	1.17
6671511	22 x Ø22	1.84

SP5130V tee (3 x press)		
article no.	dimensions	conversion factor
6670334	12	0.81
6670336	14	0.98
6670345	15	0.98
6670347	16	1.10
6670356	18	1.30
6670367	22	1.70
6670378	28	2.28
6670389	35	3.13
6670391	42	6.02
6670400	54	8.20

SP5130RV tee reduced (3 x press)		
article no.	dimensions	conversion factor
6670411	12 x 15 x 12	0.98
6670415	14 x 12 x 14	1.00
6670417	14 x 16 x 14	1.03
6670433	15 x 12 x 15	1.02
6670455	15 x 18 x 15	1.28
6670466	15 x 22 x 15	1.59
6670468	16 x 12 x 16	1.09
6670472	16 x 14 x 16	1.22
6670477	18 x 12 x 18	1.17
6670479	18 x 14 x 18	1.31
6670499	18 x 15 x 18	1.33
6670502	18 x 16 x 18	1.31
6670510	18 x 22 x 18	1.60
6670521	22 x 12 x 22	1.48
6670523	22 x 14 x 22	1.63
6670554	22 x 15 x 22	1.62
6670556	22 x 16 x 22	1.58
6670587	22 x 18 x 22	1.70
6670611	22 x 28 x 22	2.21
6670631	28 x 15 x 28	2.14
6670653	28 x 18 x 28	2.23
6670675	28 x 22 x 28	2.26
6670719	35 x 15 x 35	2.76
6670721	35 x 18 x 35	2.81
6670741	35 x 22 x 35	2.83
6670763	35 x 28 x 35	2.92
6670774	42 x 22 x 42	4.88
6670785	42 x 28 x 42	4.90
6670807	42 x 35 x 42	5.12
6670818	54 x 22 x 54	6.33
6670829	54 x 28 x 54	6.22
6670831	54 x 35 x 54	6.31
6670851	54 x 42 x 54	7.51

SP5130RVR tee reduced (3 x press)		
article no.	dimensions	conversion factor
6670413	14 x 12 x 12	0.91
6670422	15 x 12 x 12	1.00
6670444	15 x 15 x 12	0.95
6670470	16 x 14 x 14	1.17
6670474	16 x 16 x 14	1.21
6670488	18 x 15 x 15	1.31
6670501	18 x 18 x 15	1.36
6670532	22 x 15 x 15	1.59
6670543	22 x 15 x 18	1.57
6670565	22 x 18 x 15	1.63
6670576	22 x 18 x 18	1.62
6670598	22 x 22 x 15	1.59
6670609	22 x 22 x 18	1.60
6670620	28 x 15 x 22	2.07
6670642	28 x 18 x 22	2.10
6670664	28 x 22 x 22	2.20
6670686	28 x 28 x 15	2.00
6670697	28 x 28 x 18	2.19
6670708	28 x 28 x 22	2.27
6670730	35 x 22 x 28	2.81
6670752	35 x 28 x 28	3.05
6670796	42 x 35 x 35	4.63
6670840	54 x 42 x 42	7.70

SP5240V reducer (2 x press)		
article no.	dimensions	conversion factor
6672844	14 x 12	0.34
6670862	15 x 12	0.34
6670864	16 x 14	0.41
6671854	16 x 15	0.38
6670866	18 x 14	0.47
6670873	18 x 15	0.41
6670875	18 x 16	0.44
6670877	22 x 14	0.59
6670884	22 x 15	0.67
6670886	22 x 16	0.59
6670895	22 x 18	0.63
6670906	28 x 22	0.78
6670917	35 x 28	1.16
6670928	42 x 35	1.90
6670939	54 x 42	3.10

SP5243V reducer (press x male)		
article no.	dimensions	conversion factor
6674659	Ø14 x 12	0.28
6670950	Ø15 x 12	0.31
6670952	Ø15 x 14	0.35
6670954	Ø15 x 16	0.38
6670956	Ø16 x 12	0.33
6670958	Ø16 x 14	0.34
6670961	Ø18 x 12	0.34
6670963	Ø18 x 14	0.40
6670972	Ø18 x 15	0.43
6670974	Ø18 x 16	0.40
6670976	Ø22 x 14	0.48
6670941	Ø22 x 15	0.44
6670943	Ø22 x 16	0.49
6670983	Ø22 x 18	0.50
6670994	Ø28 x 15	0.73
6670996	Ø28 x 16	0.74
6671005	Ø28 x 18	0.76
6671016	Ø28 x 22	0.70
6671027	Ø35 x 22	0.60
6671038	Ø35 x 28	0.91
6671049	Ø42 x 22	1.65
6671051	Ø42 x 28	1.78
6671060	Ø42 x 35	1.42
6671071	Ø54 x 35	2.19
6671082	Ø54 x 42	2.66

SP5290V stop end (1 x male)		
article no.	dimensions	conversion factor
6673183	Ø12	0.09
6673205	Ø18	0.21
6673216	Ø22	0.27
6673227	Ø28	0.42
6673238	Ø35	0.55
6673249	Ø42	1.13
6673251	Ø54	2.21

SP5301V		stop end (1 x press)
article no.	dimensions	conversion factor
6671381	12	0.17
6671383	14	0.23
6671390	15	0.26
6671392	16	0.27
6674976	18	0.30
6671401	22	0.42
6671412	28	0.56
6671423	35	0.81
6671434	42	1.43
6671445	54	1.95

our sustainable spirit



reduce



rethink



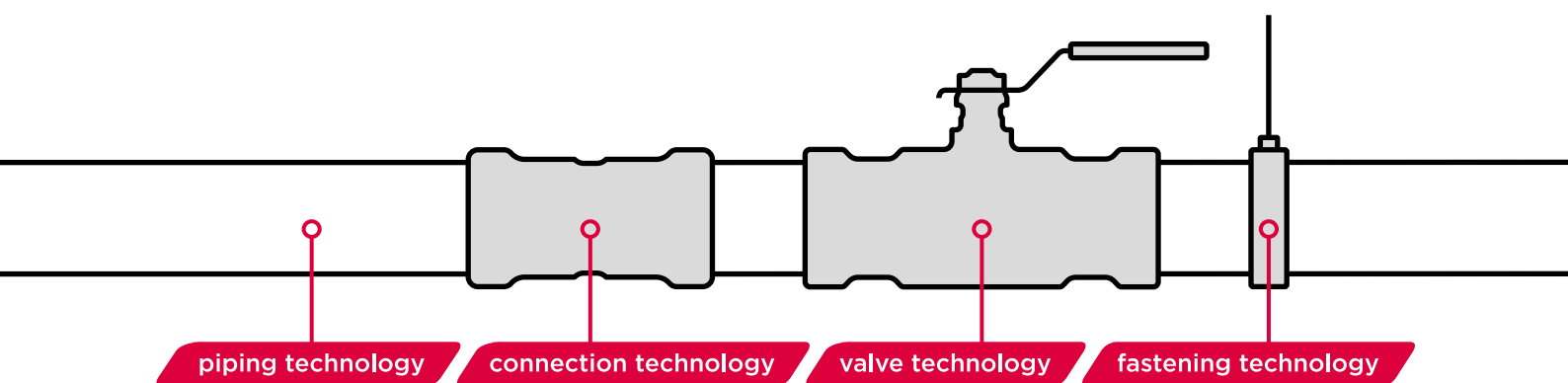
recycle

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