

VSH SudoPress Carbon



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 Carbon fittings listed in the appendix -chapter 5- of this document. Articles with brass or gunmetal components are not covered in this declaration. A VSH SudoPress Carbon bend 90° FF 22, article number: 6560521, 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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Hilversum, February 2023
Aalberts integrated piping systems B.V.



Roland Voermans
COO

2 product

2.1 description and application purpose

VSH SudoPress Carbon is a complete piping system suitable for a wide variety of applications, from heating and cooling to solar installations and compressed air systems. The VSH SudoPress range consists of press fittings, valves, tubes and pressing tools. The VSH SudoPress fittings are either V-profile (up to 54 mm) or M-profile (66.7 to 108 mm).

- VSH SudoPress Carbon fittings manufactured from RSt 34-2 steel and protected against corrosion by a layer of zinc that has been applied by electroplating. Fittings with parts made of gunmetal or brass are not covered by this declaration.
- VSH SudoPress Carbon tubes are available in different alloys according to En 10305-3.

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:

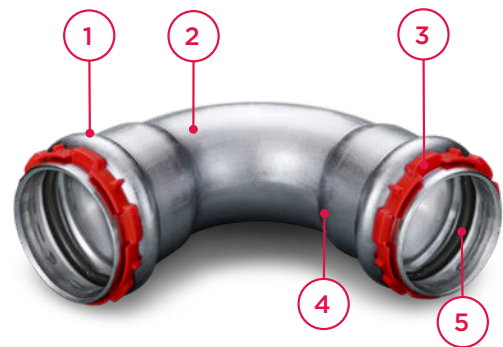
- EPDM (Ethylene Propylene Diene Monomer / black)
 - standard
- FPM (Fluoroelastomer / green)
 - for use in specific applications

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 during pressure testing.

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 Stainless fittings

All VSH SudoPress Carbon fittings are produced in our modern, automated factory in the Netherlands. 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 Carbon bend 90° FF 22. This article was chosen as a reference because it is the most common product in the VSH SudoPress Carbon 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 Carbon 90° bend FF 22, consists of the following raw materials:

| | |
|---------------|-------------|
| carbon steel: | 84.7 gram |
| elastomers: | 1.9 gram |
| plastic: | 0.4 gram |
| zinc coating: | 7 milligram |
| Total: | 87 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.

A2: For transport of materials to Aalberts integrated piping systems in Hilversum 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 products are manufactured in the factory of Aalberts integrated piping systems located in Hilversum, Netherlands. This factory makes use of green electricity for manufacturing the VSH SudoPress products. Therefore the green electricity Netherlands mix, was used for calculating the electricity consumption. Water and auxiliary materials were considered negligible.

Assembly of products is done at a separate Aalberts integrated piping systems warehouse located in Zeewolde, Netherlands. This warehouse also uses green electricity. The electricity consumption for this process was estimated and modelled at 10% of the electricity consumed for manufacturing.

A4: Transport from the factory in Hilversum to production partners and the warehouse 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 715km.

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 662km.

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

B1-B7: A VSH SudoPress Carbon fitting is designed for a lifetime of 50+ years of service. A VSH SudoPress Carbon fitting 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 30km and modelled by use of Class Euro5 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, incineration and landfill. 90% of steel will be recycled, 42.5% of plastics recycled and remainder incinerated, the O-ring completely incinerated. Remainder of the product was calculated to go to landfill.

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 v3.5.71



Product: SudoPress C bend 90° 22mm EPDM
Unit: 1 units
Manufacturer: Aalberts integrated piping systems

LCA standard: EN15804+A2 (2019)
Standard database: Dutch - Nationale Milieudatabase v3.3 (obv Ecoinvent 3.6)
Externally verified: No
Export date: 22-02-2023



The LCA background information and project dossier have been registered in the online Ecochain application in the account Aalberts integrated piping systems (2021). (☑ = 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 B6 Operational energy use B7 Operational water use | | | | | | | C1 De-construction demolition C2 Transport C3 Waste processing C4 Disposal | | | | |
| Construction process stage | | | | | | | | | | | | | | | | |
| 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 |
|-----------------------------------|--------------|-----------|-----------|-----------|-----------|-----------|-----------|------------|-----------|
| EP-fw | kg P eq | 2.313E-6 | 2.641E-8 | 2.284E-7 | 2.567E-6 | 1.518E-7 | 3.181E-9 | -2.441E-6 | 2.814E-7 |
| EP-T | mol N eq | 1.224E-2 | 4.509E-5 | 3.789E-4 | 1.267E-2 | 3.392E-4 | 5.431E-6 | -7.785E-4 | 1.223E-2 |
| GWP-luluc | kg CO2 eq | 1.008E-4 | 1.175E-6 | 2.795E-5 | 1.300E-4 | 5.516E-6 | 1.416E-7 | 3.076E-5 | 1.664E-4 |
| IR | kBq U-235 eq | 3.268E-3 | 2.216E-4 | 5.196E-5 | 3.541E-3 | 9.512E-4 | 2.670E-5 | 7.207E-4 | 5.240E-3 |
| WDP | m3 depriv. | 2.520E-2 | 1.411E-4 | 2.910E-3 | 2.825E-2 | 8.121E-4 | 1.700E-5 | -1.512E-2 | 1.396E-2 |
| POCP | kg NMVOC eq | 5.897E-4 | 1.380E-5 | 7.095E-5 | 6.744E-4 | 9.683E-5 | 1.663E-6 | -5.839E-4 | 1.890E-4 |
| SQP | Pt | 2.340E-1 | 3.497E-2 | 2.412E+0 | 2.681E+0 | 1.969E-1 | 4.212E-3 | -1.568E-1 | 2.725E+0 |
| AP | mol H+ eq | 3.154E-3 | 1.374E-5 | 1.103E-4 | 3.278E-3 | 8.730E-5 | 1.655E-6 | -4.104E-4 | 2.957E-3 |
| PM | disease inc. | 2.910E-8 | 2.339E-10 | 1.120E-9 | 3.046E-8 | 1.352E-9 | 2.818E-11 | -6.486E-10 | 3.119E-8 |
| ADP-f | MJ | 2.805E+0 | 5.071E-2 | 6.852E-2 | 2.924E+0 | 2.270E-1 | 6.108E-3 | -7.246E-1 | 2.432E+0 |
| GWP-total | kg CO2 eq | 2.501E-1 | 3.366E-3 | 7.324E-3 | 2.608E-1 | 1.506E-2 | 4.054E-4 | -9.444E-2 | 1.818E-1 |
| GWP-b | kg CO2 eq | 7.973E-4 | 1.794E-6 | 1.052E-3 | 1.851E-3 | 6.949E-6 | 2.161E-7 | 6.505E-4 | 2.508E-3 |
| ETP-fw | CTUe | 4.047E+0 | 4.059E-2 | 3.500E-1 | 4.438E+0 | 2.024E-1 | 4.890E-3 | -3.193E+0 | 1.452E+0 |
| HTP-c | CTUh | 1.170E-10 | 1.141E-12 | 1.800E-11 | 1.361E-10 | 6.566E-12 | 1.374E-13 | 6.881E-11 | 2.116E-10 |
| GWP-f | kg CO2 eq | 2.492E-1 | 3.363E-3 | 6.245E-3 | 2.588E-1 | 1.505E-2 | 4.051E-4 | -9.514E-2 | 1.791E-1 |
| ADP-mm | kg Sb eq | 3.760E-4 | 9.101E-8 | 6.349E-7 | 3.768E-4 | 3.814E-7 | 1.096E-8 | 9.568E-8 | 3.773E-4 |
| EP-m | kg N eq | 2.412E-4 | 4.077E-6 | 2.289E-5 | 2.682E-4 | 3.076E-5 | 4.910E-7 | -6.674E-5 | 2.327E-4 |
| HTP-nc | CTUh | 6.192E-9 | 4.427E-11 | 5.447E-10 | 6.781E-9 | 2.214E-10 | 5.332E-12 | 2.143E-8 | 2.844E-8 |
| ODP | kg CFC11 eq | 4.479E-9 | 7.639E-10 | 8.707E-10 | 6.113E-9 | 3.322E-9 | 9.201E-11 | -3.340E-9 | 6.188E-9 |
| Resource use | Unit | A1 | A2 | A3 | A1-A3 | A4 | C2 | D | Total |
| PERT | MJ | 6.344E-2 | 7.156E-4 | 9.239E-1 | 9.880E-1 | 2.842E-3 | 8.619E-5 | 9.347E-3 | 1.000E+0 |
| PENRT | MJ | 2.848E+0 | 5.383E-2 | 7.296E-2 | 2.975E+0 | 2.410E-1 | 6.484E-3 | -7.518E-1 | 2.470E+0 |
| PERM | MJ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PERE | MJ | 6.344E-2 | 7.156E-4 | 9.239E-1 | 9.880E-1 | 2.842E-3 | 8.619E-5 | 9.347E-3 | 1.000E+0 |
| PENRM | MJ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FW | m3 | 8.944E-4 | 5.340E-6 | 9.228E-5 | 9.920E-4 | 2.765E-5 | 6.432E-7 | -3.446E-4 | 6.757E-4 |
| NRSF | MJ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SM | kg | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PENRE | MJ | 2.848E+0 | 5.383E-2 | 7.296E-2 | 2.975E+0 | 2.410E-1 | 6.484E-3 | -7.518E-1 | 2.470E+0 |
| RSF | MJ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PET | MJ | 2.911E+0 | 5.455E-2 | 9.969E-1 | 3.963E+0 | 2.439E-1 | 6.571E-3 | -7.425E-1 | 3.471E+0 |
| Output flows and waste categories | Unit | A1 | A2 | A3 | A1-A3 | A4 | C2 | D | Total |
| HWD | kg | 4.784E-5 | 1.329E-7 | 4.197E-11 | 4.797E-5 | 5.753E-7 | 1.601E-8 | -1.290E-5 | 3.567E-5 |
| MER | kg | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| CRU | kg | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| EET | MJ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| RWD | kg | 2.187E-6 | 3.457E-7 | 1.892E-11 | 2.533E-6 | 1.491E-6 | 4.165E-8 | -1.069E-7 | 3.959E-6 |
| EEE | MJ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| MFR | kg | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NHWD | kg | 3.658E-3 | 2.424E-3 | 2.920E-5 | 6.111E-3 | 1.440E-2 | 2.919E-4 | 2.818E-3 | 2.362E-2 |
| EE | 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.

| SP8270V VSH SudoPress Carbon straight coupling (2 x press) | | |
|--|------------|-------------------|
| article no. | dimensions | conversion factor |
| 6561588 | 12 | 0,29 |
| 6561599 | 15 | 0,41 |
| 6561601 | 18 | 0,47 |
| 6561610 | 22 | 0,69 |
| 6561621 | 28 | 0,89 |
| 6561632 | 35 | 1,13 |
| 6561643 | 42 | 2,28 |
| 6561654 | 54 | 2,98 |

| SP8270VM VSH SudoPress Carbon straight coupling (2 x press) | | |
|---|------------|-------------------|
| article no. | dimensions | conversion factor |
| 6562017 | 66,7 | 4,59 |
| 6562028 | 76,1 | 7,08 |
| 6562039 | 88,9 | 9,38 |
| 6562041 | 108 | 13,82 |

| SP8275V VSH SudoPress Carbon slip coupling (2 x press) | | |
|--|------------|-------------------|
| article no. | dimensions | conversion factor |
| 6561665 | 12 | 0,40 |
| 6561676 | 15 | 0,55 |
| 6561687 | 18 | 0,67 |
| 6561698 | 22 | 0,98 |
| 6561709 | 28 | 1,34 |
| 6561711 | 35 | 1,82 |
| 6561720 | 42 | 2,93 |
| 6561731 | 54 | 4,09 |

| SP8275VM VSH SudoPress Carbon slip coupling (2 x press) | | |
|---|------------|-------------------|
| article no. | dimensions | conversion factor |
| 6562050 | 66,7 | 7,85 |
| 6562061 | 76,1 | 11,63 |
| 6562072 | 88,9 | 15,17 |
| 6562083 | 108 | 25,52 |

| SP8002V VSH SudoPress Carbon elbow 90° (2 x press) | | |
|--|------------|-------------------|
| article no. | dimensions | conversion factor |
| 6560499 | 12 | 0,36 |
| 6560501 | 15 | 0,52 |
| 6560510 | 18 | 0,67 |
| 6560521 | 22 | 1,00 |
| 6560532 | 28 | 1,41 |
| 6560543 | 35 | 1,95 |
| 6560554 | 42 | 3,53 |
| 6560565 | 54 | 5,33 |

| SP8002VM VSH SudoPress Carbon elbow 90° (2 x press) | | |
|---|------------|-------------------|
| article no. | dimensions | conversion factor |
| 6562259 | 66,7 | 9,05 |
| 6562261 | 76,1 | 12,64 |
| 6562270 | 88,9 | 17,01 |
| 6562281 | 108 | 22,99 |

| SP8001V VSH SudoPress Carbon elbow 90° (press x male) | | |
|---|------------|-------------------|
| article no. | dimensions | conversion factor |
| 6560642 | 12 x Ø12 | 0,37 |
| 6560653 | 15 x Ø15 | 0,52 |
| 6560664 | 18 x Ø18 | 0,67 |
| 6560675 | 22 x Ø22 | 0,99 |
| 6560686 | 28 x Ø28 | 1,41 |
| 6560697 | 35 x Ø35 | 1,95 |
| 6560708 | 42 x Ø42 | 3,66 |
| 6560719 | 54 x Ø54 | 5,33 |

| SP8001VM VSH SudoPress Carbon elbow 90° (press x male) | | |
|--|--------------|-------------------|
| article no. | dimensions | conversion factor |
| 6562292 | 66,7 x Ø66,7 | 9,13 |
| 6562303 | 76,1 x Ø76,1 | 12,67 |
| 6562314 | 88,9 x Ø88,9 | 17,32 |
| 6562325 | 108 x Ø108 | 22,99 |

| SP8041V VSH SudoPress Carbon elbow 45° (2 x press) | | |
|--|------------|-------------------|
| article no. | dimensions | conversion factor |
| 6560796 | 15 | 0,47 |
| 6560807 | 18 | 0,57 |
| 6560818 | 22 | 0,87 |
| 6560829 | 28 | 1,10 |
| 6560831 | 35 | 1,60 |
| 6560840 | 42 | 2,87 |
| 6560851 | 54 | 4,00 |

| SP8041VM VSH SudoPress Carbon elbow 45° (2 x press) | | |
|---|------------|-------------------|
| article no. | dimensions | conversion factor |
| 6562371 | 66,7 | 7,60 |
| 6562380 | 76,1 | 9,20 |
| 6562391 | 88,9 | 11,72 |
| 6562402 | 108 | 17,47 |

| SP8040V VSH SudoPress Carbon elbow 45° (press x male) | | |
|---|------------|-------------------|
| article no. | dimensions | conversion factor |
| 6560721 | 15 x Ø15 | 0,45 |
| 6560730 | 18 x Ø18 | 0,54 |
| 6560741 | 22 x Ø22 | 0,85 |
| 6560752 | 28 x Ø28 | 1,16 |
| 6560763 | 35 x Ø35 | 1,61 |
| 6560774 | 42 x Ø42 | 2,87 |
| 6560785 | 54 x Ø54 | 4,03 |

| SP8040VM VSH SudoPress Carbon elbow 45° (press x male) | | |
|---|--------------|-------------------|
| article no. | dimensions | conversion factor |
| 6562336 | 66,7 x Ø66,7 | 7,06 |
| 6562347 | 76,1 x Ø76,1 | 16,09 |
| 6562358 | 88,9 x Ø88,9 | 21,26 |
| 6562369 | 108 x Ø108 | 18,10 |

| SP8090LV VSH SudoPress Carbon bend 90° (2 x male) | | |
|--|------------|-------------------|
| article no. | dimensions | conversion factor |
| 6561797 | Ø12 | 0,90 |
| 6561808 | Ø15 | 1,13 |
| 6561819 | Ø18 | 1,34 |
| 6561821 | Ø22 | 1,64 |
| 6561830 | Ø28 | 2,06 |
| 6561841 | Ø35 | 4,59 |
| 6561852 | Ø42 | 7,02 |
| 6561863 | Ø54 | 11,00 |

| SP8086V VSH SudoPress Carbon crossover (press x male) | | |
|--|------------|-------------------|
| article no. | dimensions | conversion factor |
| 6561742 | Ø12 | 0,72 |
| 6561753 | Ø15 | 0,92 |
| 6561764 | Ø18 | 1,13 |
| 6561775 | Ø22 | 1,67 |
| 6561786 | Ø28 | 2,39 |

| SP8130V VSH SudoPress Carbon T-piece (3 x press) | | |
|---|------------|-------------------|
| article no. | dimensions | conversion factor |
| 6560873 | 15 | 0,75 |
| 6560884 | 18 | 0,90 |
| 6560895 | 22 | 1,33 |
| 6560906 | 28 | 1,83 |
| 6560917 | 35 | 2,43 |
| 6560928 | 42 | 4,07 |
| 6560939 | 54 | 6,21 |

| SP8130VM VSH SudoPress Carbon T-piece (3 x press) | | |
|--|------------|-------------------|
| article no. | dimensions | conversion factor |
| 6562413 | 66,7 | 9,34 |
| 6562424 | 76,1 | 14,60 |
| 6562435 | 88,9 | 18,39 |
| 6562446 | 108 | 26,67 |

| SP8130RV VSH SudoPress Carbon reduced T-piece (3 x press) | | |
|--|--------------|-------------------|
| article no. | dimensions | conversion factor |
| 6560961 | 15 x 18 x 15 | 0,80 |
| 6560983 | 18 x 15 x 18 | 0,86 |
| 6560994 | 22 x 15 x 22 | 1,22 |
| 6561005 | 22 x 18 x 22 | 1,25 |
| 6561016 | 22 x 28 x 22 | 1,54 |
| 6561027 | 28 x 15 x 28 | 1,55 |
| 6561038 | 28 x 18 x 28 | 1,61 |
| 6561049 | 28 x 22 x 28 | 1,72 |
| 6561051 | 35 x 15 x 35 | 2,03 |
| 6561060 | 35 x 18 x 35 | 2,07 |
| 6561071 | 35 x 22 x 35 | 2,02 |
| 6561082 | 35 x 28 x 35 | 2,30 |

| | | |
|---------|--------------|------|
| 6561093 | 42 x 22 x 42 | 3,66 |
| 6561104 | 42 x 28 x 42 | 3,77 |
| 6561115 | 42 x 35 x 42 | 3,82 |
| 6561126 | 54 x 22 x 54 | 5,06 |
| 6561137 | 54 x 28 x 54 | 5,07 |
| 6561148 | 54 x 35 x 54 | 5,23 |
| 6561159 | 54 x 42 x 54 | 5,75 |

| SP8130RVM VSH SudoPress Carbon reduced T-piece (3 x press) | | |
|---|--------------------|-------------------|
| article no. | dimensions | conversion factor |
| 6562501 | 76,1 x 66,7 x 76,1 | 14,16 |
| 6562512 | 88,9 x 66,7 x 88,9 | 16,37 |
| 6562523 | 88,9 x 76,1 x 88,9 | 17,24 |
| 6562688 | 108 x 76,1 x 108 | 24,68 |
| 6562534 | 108 x 88,9 x 108 | 25,11 |

| SP8130RVVM VSH SudoPress Carbon reduced T-piece (3 x press) | | |
|--|------------------|-------------------|
| article no. | dimensions | conversion factor |
| 6562578 | 76,1 x 42 x 76,1 | 12,59 |
| 6562490 | 76,1 x 54 x 76,1 | 12,24 |
| 6562611 | 88,9 x 42 x 88,9 | 16,09 |
| 6562622 | 88,9 x 54 x 88,9 | 16,32 |
| 6562666 | 108 x 42 x 108 | 21,82 |
| 6562677 | 108 x 54 x 108 | 22,64 |

| SP8130GV VSH SudoPress Carbon threaded T-piece (press x female thread x press) | | |
|---|----------------|-------------------|
| article no. | dimensions | conversion factor |
| 6561161 | 15 x Rp½" x 15 | 0,93 |
| 6561170 | 18 x Rp½" x 18 | 0,99 |
| 6561192 | 22 x Rp½" x 22 | 1,36 |
| 6561203 | 22 x Rp¾" x 22 | 1,56 |
| 6561214 | 28 x Rp½" x 28 | 1,62 |
| 6561225 | 28 x Rp¾" x 28 | 1,90 |
| 6561236 | 35 x Rp½" x 35 | 2,16 |
| 6561247 | 35 x Rp¾" x 35 | 2,32 |
| 6561258 | 42 x Rp½" x 42 | 3,61 |
| 6561269 | 42 x Rp¾" x 42 | 3,75 |
| 6561271 | 54 x Rp½" x 54 | 4,87 |
| 6563128 | 54 x Rp¾" x 54 | 5,17 |

| SP8130GVVM VSH SudoPress Carbon threaded T-piece (press x female thread x press) | | |
|---|--------------------|-------------------|
| article no. | dimensions | conversion factor |
| 6562699 | 66,7 x Rp¾" x 66,7 | 7,69 |
| 6562701 | 76,1 x Rp¾" x 76,1 | 11,06 |
| 6562710 | 88,9 x Rp¾" x 88,9 | 16,80 |
| 6562721 | 108 x Rp¾" x 108 | 21,03 |

| SP8243V VSH SudoPress Carbon reducer (male x press) | | |
|--|------------|-------------------|
| article no. | dimensions | conversion factor |
| 6560301 | Ø15 x 12 | 0,33 |
| 6560312 | Ø18 x 12 | 0,37 |
| 6560334 | Ø18 x 15 | 0,39 |
| 6560345 | Ø22 x 15 | 0,45 |
| 6560356 | Ø22 x 18 | 0,46 |
| 6560367 | Ø28 x 15 | 0,54 |
| 6560378 | Ø28 x 18 | 0,60 |
| 6560389 | Ø28 x 22 | 0,77 |
| 6560391 | Ø35 x 22 | 0,99 |
| 6560400 | Ø35 x 28 | 1,09 |
| 6560411 | Ø42 x 22 | 1,38 |
| 6560422 | Ø42 x 28 | 1,41 |
| 6560433 | Ø42 x 35 | 1,51 |
| 6560455 | Ø54 x 22 | 2,17 |
| 6560466 | Ø54 x 28 | 1,86 |
| 6560477 | Ø54 x 35 | 2,06 |
| 6560488 | Ø54 x 42 | 2,62 |
| 6562151 | Ø66,7 x 54 | 4,02 |
| 6562160 | Ø76,1 x 42 | 5,24 |
| 6562171 | Ø76,1 x 54 | 5,80 |
| 6562182 | Ø88,9 x 54 | 7,41 |

| SP8243VM VSH SudoPress Carbon reducer (male x press) | | |
|---|--------------|-------------------|
| article no. | dimensions | conversion factor |
| 6562193 | Ø76,1 x 66,7 | 5,78 |
| 6562204 | Ø88,9 x 66,7 | 6,39 |
| 6562226 | Ø88,9 x 76,1 | 8,11 |
| 6562215 | Ø108 x 66,7 | 10,55 |
| 6562237 | Ø108 x 76,1 | 11,41 |
| 6562248 | Ø108 x 88,9 | 11,49 |

| SP8243GV VSH SudoPress Carbon straight connector (press x male thread) | | |
|---|-------------------------|-------------------|
| article no. | dimensions | conversion factor |
| 6560171 | 12 x R $\frac{3}{8}$ " | 0,34 |
| 6560191 | 15 x R $\frac{3}{8}$ " | 0,46 |
| 6560180 | 15 x R $\frac{1}{2}$ " | 0,54 |
| 6560202 | 18 x R $\frac{1}{2}$ " | 0,62 |
| 6560213 | 18 x R $\frac{3}{4}$ " | 0,78 |
| 6560224 | 22 x R $\frac{1}{2}$ " | 0,92 |
| 6560235 | 22 x R $\frac{3}{4}$ " | 0,95 |
| 6560246 | 22 x R1" | 1,06 |
| 6560268 | 28 x R $\frac{3}{4}$ " | 1,30 |
| 6560257 | 28 x R1" | 1,31 |
| 6563007 | 35 x R1 | 1,90 |
| 6560279 | 35 x R1 $\frac{1}{4}$ " | 2,16 |
| 6560281 | 42 x R1 $\frac{1}{2}$ " | 2,37 |
| 6560290 | 54 x R2" | 4,30 |

| SP8243GVM VSH SudoPress Carbon straight connector (press x male thread) | | |
|--|---------------------------|-------------------|
| article no. | dimensions | conversion factor |
| 6562094 | 66,7 x R2 $\frac{1}{2}$ " | 7,13 |
| 6562105 | 76,1 x R2 $\frac{1}{2}$ " | 7,91 |
| 6562116 | 88,9 x R3" | 13,47 |

| SP8270GV VSH SudoPress Carbon straight connector (press x female thread) | | |
|---|--------------------------|-------------------|
| article no. | dimensions | conversion factor |
| 6560015 | 15 x Rp $\frac{1}{2}$ " | 0,44 |
| 6560026 | 18 x Rp $\frac{1}{2}$ " | 0,66 |
| 6560037 | 18 x Rp $\frac{3}{4}$ " | 0,66 |
| 6563018 | 22 x Rp $\frac{1}{2}$ " | 1,05 |
| 6560059 | 22 x Rp $\frac{3}{4}$ " | 0,85 |
| 6560061 | 28 x Rp $\frac{1}{2}$ " | 1,67 |
| 6560081 | 28 x Rp $\frac{3}{4}$ " | 1,41 |
| 6560070 | 28 x Rp1" | 1,20 |
| 6563029 | 35 x Rp1" | 2,44 |
| 6560103 | 35 x Rp1 $\frac{1}{4}$ " | 1,64 |
| 6563031 | 42 x Rp1 $\frac{1}{2}$ " | 2,77 |
| 6563040 | 54 x Rp2 | 4,60 |

| SP8433V VSH SudoPress Carbon straight connector (male x female thread) | | |
|---|-------------------------|-------------------|
| article no. | dimensions | conversion factor |
| 6561951 | 12 x Rp $\frac{1}{2}$ " | 0,57 |
| 6561962 | 15 x Rp $\frac{1}{2}$ " | 0,60 |
| 6561973 | 18 x Rp $\frac{1}{2}$ " | 0,66 |
| 6561984 | 18 x Rp $\frac{3}{4}$ " | 0,91 |
| 6561995 | 22 x Rp $\frac{1}{2}$ " | 0,69 |
| 6562006 | 22 x Rp $\frac{3}{4}$ " | 0,95 |

| SP8092GV VSH SudoPress Carbon elbow 90° (press x male thread) | | |
|--|-------------------------|-------------------|
| article no. | dimensions | conversion factor |
| 6561280 | 12 x R $\frac{3}{8}$ " | 0,49 |
| 6561302 | 15 x R $\frac{3}{8}$ " | 0,64 |
| 6561291 | 15 x R $\frac{1}{2}$ " | 0,77 |
| 6561313 | 18 x R $\frac{1}{2}$ " | 0,84 |
| 6561324 | 22 x R $\frac{3}{4}$ " | 1,37 |
| 6561335 | 28 x R1" | 1,98 |
| 6561346 | 35 x R1 $\frac{1}{4}$ " | 3,34 |
| 6561357 | 42 x R1 $\frac{1}{2}$ " | 4,71 |

| SP8098GV VSH SudoPress Carbon elbow 90° (press x male thread) | | |
|--|------------------------|-------------------|
| article no. | dimensions | conversion factor |
| 6563084 | 15 x R $\frac{3}{8}$ " | 0,71 |
| 6563095 | 15 x R $\frac{1}{2}$ " | 1,18 |
| 6563106 | 18 x R $\frac{1}{2}$ " | 1,13 |
| 6563117 | 22 x R $\frac{3}{4}$ " | 2,07 |

| SP8090GV VSH SudoPress Carbon elbow 90° (press x female thread) | | |
|--|-------------------------|-------------------|
| article no. | dimensions | conversion factor |
| 6560576 | 15 x Rp $\frac{1}{2}$ " | 0,80 |
| 6560598 | 18 x Rp $\frac{1}{2}$ " | 0,92 |
| 6560609 | 22 x Rp $\frac{3}{4}$ " | 1,36 |
| 6563073 | 28 x Rp1" | 2,75 |

| SP8330GV VSH SudoPress Carbon straight union (press x male thread) | | |
|---|-------------------|--------------------------|
| article no. | dimensions | conversion factor |
| 6561511 | 15 x Rp½" | 1,55 |
| 6561522 | 18 x Rp½" | 1,61 |
| 6561533 | 22 x Rp¾" | 2,46 |
| 6561544 | 28 x Rp1" | 3,80 |
| 6561555 | 35 x Rp1¼" | 5,28 |
| 6561566 | 42 x Rp1½" | 6,24 |
| 6561577 | 54 x Rp2" | 10,51 |

| SP8301V VSH SudoPress Carbon stop end (1 x press) | | |
|--|-------------------|--------------------------|
| article no. | dimensions | conversion factor |
| 6561379 | 15 | 0,20 |
| 6561381 | 18 | 0,25 |
| 6561390 | 22 | 0,36 |
| 6561401 | 28 | 0,43 |
| 6561412 | 35 | 0,79 |
| 6561423 | 42 | 1,41 |
| 6561434 | 54 | 2,05 |

| SP8301VM VSH SudoPress Carbon stop end (1 x press) | | |
|---|-------------------|--------------------------|
| article no. | dimensions | conversion factor |
| 6562809 | 66,7 | 3,64 |
| 6562811 | 76,1 | 4,97 |
| 6562820 | 88,9 | 6,34 |
| 6562831 | 108 | 9,56 |

| SP8500VM VSH SudoPress Carbon flange adapter (press x flange) | | |
|--|-------------------|--------------------------|
| article no. | dimensions | conversion factor |
| 6562732 | 66,7 x DN65 | 37,87 |
| 6562743 | 76,1 x DN65 | 41,02 |
| 6562754 | 88,9 x DN80 | 45,26 |
| 6562765 | 108 x DN100 | 60,00 |

| SP8359GV VSH SudoPress Carbon coupling with nut (press x female thread) | | |
|--|-------------------|--------------------------|
| article no. | dimensions | conversion factor |
| 6560114 | 18 x G¾" | 0,49 |
| 6560125 | 22 x G1" | 1,40 |
| 6560136 | 28 x G1¼" | 1,84 |
| 6563051 | 35 x G1½" | 2,30 |
| 6563062 | 42 x G1¾" | 2,86 |

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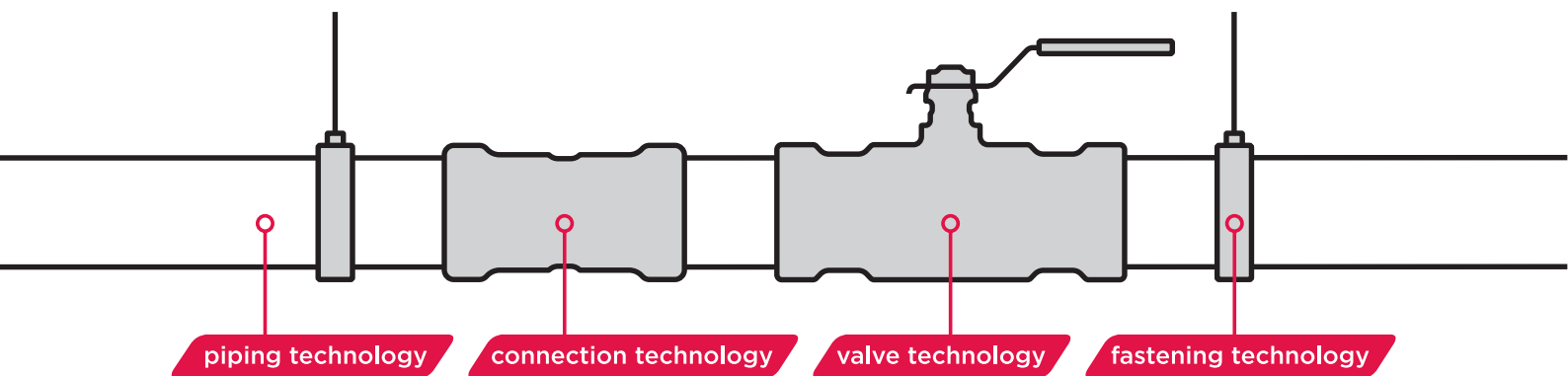
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