

VSH SudoPress Stainless



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 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 Stainless 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 Stainless bend 90° FF 22, article number: 6550027, 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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Production data: 2021

Hilversum, February 2023
Aalberts integrated piping systems B.V.



Roland Voermans
COO

2 product

2.1 description and application purpose

VSH SudoPress Stainless is a complete piping system suitable for a wide variety of applications, from drinking water, gas, heating and solar installations to cooling water 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 Stainless fittings are made of 1.4404 (AISI 316L). Fittings with parts made of gunmetal or brass are not covered by this declaration.
- VSH SudoPress tubes are available in different alloys: 1.4401 (AISI 316), 1.4521 (AISI 444) and 1.4301 (AISI 304).

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:

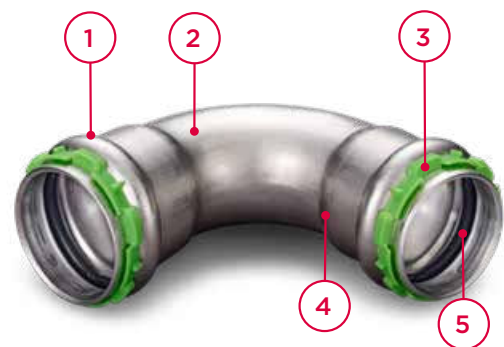
- EPDM (Ethylene Propylene Diene Monomer / black)
 - standard
- FPM (Fluoroelastomer / green)
 - for use in specific applications

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 Stainless 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 stainless steel bend 90° 22 mm. This article was chosen as a reference because it is the most common product in the VSH SudoPress 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 Stainless 90° bend FF 22, consists of the following raw materials:

Stainless steel:	79 gram
elastomers:	2 gram
Total:	81 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 303km.

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 550km.

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

B1-B7: A VSH SudoPress Stainless fitting is designed for a lifetime of 50+ years of service. A VSH SudoPress Stainless 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 SS 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							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					Benefits and loads beyond the system boundaries											
A5 Assembly / Construction installation process																
												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	1.511E-5	6.521E-8	2.552E-7	1.543E-5	1.010E-7	3.416E-9	-2.441E-6	1.309E-5
EP-T	mol N eq	4.828E-3	1.113E-4	4.234E-4	5.363E-3	2.257E-4	5.833E-6	-7.778E-4	4.817E-3
GWP-luluc	kg CO2 eq	2.603E-4	2.903E-6	3.124E-5	2.945E-4	3.670E-6	1.521E-7	3.078E-5	3.291E-4
IR	kBq U-235 eq	1.001E-2	5.473E-4	5.807E-5	1.062E-2	6.329E-4	2.868E-5	7.247E-4	1.200E-2
WDP	m3 depriv.	5.305E-2	3.485E-4	3.253E-3	5.665E-2	5.403E-4	1.826E-5	-1.511E-2	4.210E-2
POCP	kg NMVOC eq	1.533E-3	3.409E-5	7.929E-5	1.646E-3	6.443E-5	1.786E-6	-5.837E-4	1.129E-3
SQP	Pt	2.168E+0	8.635E-2	2.695E+0	4.950E+0	1.310E-1	4.524E-3	-1.562E-1	4.929E+0
AP	mol H+ eq	2.508E-3	3.393E-5	1.233E-4	2.665E-3	5.808E-5	1.778E-6	-4.102E-4	2.315E-3
PM	disease inc.	3.432E-8	5.777E-10	1.251E-9	3.615E-8	8.994E-10	3.027E-11	-6.606E-10	3.642E-8
ADP-f	MJ	4.270E+0	1.252E-1	7.658E-2	4.471E+0	1.510E-1	6.560E-3	-7.237E-1	3.905E+0
GWP-total	kg CO2 eq	3.943E-1	8.311E-3	8.185E-3	4.108E-1	1.002E-2	4.354E-4	-9.441E-2	3.269E-1
GWP-b	kg CO2 eq	2.814E-3	4.430E-6	1.175E-3	3.994E-3	4.623E-6	2.321E-7	6.506E-4	4.649E-3
ETP-fw	CTUe	1.381E+1	1.002E-1	3.912E-1	1.430E+1	1.347E-1	5.252E-3	-3.193E+0	1.125E+1
HTP-c	CTUh	6.370E-9	2.818E-12	2.012E-11	6.392E-9	4.369E-12	1.476E-13	6.857E-11	6.466E-9
GWP-f	kg CO2 eq	3.913E-1	8.304E-3	6.979E-3	4.066E-1	1.002E-2	4.351E-4	-9.511E-2	3.219E-1
ADP-mm	kg Sb eq	1.608E-5	2.247E-7	7.096E-7	1.701E-5	2.538E-7	1.177E-8	9.798E-8	1.738E-5
EP-m	kg N eq	4.237E-4	1.007E-5	2.559E-5	4.594E-4	2.047E-5	5.274E-7	-6.668E-5	4.137E-4
HTP-nc	CTUh	1.824E-8	1.093E-10	6.087E-10	1.895E-8	1.473E-10	5.727E-12	2.143E-8	4.054E-8
ODP	kg CFC11 eq	2.064E-8	1.886E-9	9.730E-10	2.350E-8	2.211E-9	9.883E-11	-3.326E-9	2.249E-8
Resource use	Unit	A1	A2	A3	A1-A3	A4	C2	D	Total
PERT	MJ	1.078E+0	1.767E-3	1.033E+0	2.112E+0	1.891E-3	9.258E-5	9.359E-3	2.124E+0
PENRT	MJ	4.548E+0	1.329E-1	8.154E-2	4.762E+0	1.604E-1	6.965E-3	-7.508E-1	4.179E+0
PERM	MJ	1.072E+0	0	0	1.072E+0	0	0	0	1.072E+0
PERE	MJ	6.204E-3	1.767E-3	1.033E+0	1.040E+0	1.891E-3	9.258E-5	9.359E-3	1.052E+0
PENRM	MJ	4.335E+0	0	0	4.335E+0	0	0	0	4.335E+0
FW	m3	1.783E-3	1.319E-5	1.031E-4	1.900E-3	1.840E-5	6.908E-7	-3.446E-4	1.574E-3
NRSF	MJ	0	0	0	0	0	0	0	0
SM	kg	0	0	0	0	0	0	0	0
PENRE	MJ	2.134E-1	1.329E-1	8.154E-2	4.279E-1	1.604E-1	6.965E-3	-7.508E-1	-1.556E-1
RSF	MJ	0	0	0	0	0	0	0	0
PET	MJ	5.626E+0	1.347E-1	1.114E+0	6.875E+0	1.623E-1	7.057E-3	-7.415E-1	6.303E+0
Output flows and waste categories	Unit	A1	A2	A3	A1-A3	A4	C2	D	Total
HWD	kg	8.413E-6	3.282E-7	4.691E-11	8.741E-6	3.828E-7	1.719E-8	-1.289E-5	-3.753E-6
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	9.574E-6	8.538E-7	2.115E-11	1.043E-5	9.919E-7	4.473E-8	-1.006E-7	1.136E-5
EEE	MJ	0	0	0	0	0	0	0	0
MFR	kg	0	0	0	0	0	0	0	0
NHWD	kg	4.556E-1	5.985E-3	3.263E-5	4.616E-1	9.581E-3	3.135E-4	2.856E-3	4.744E-1
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.

SP6270V straight coupling (2 x press)		
article no.	dimensions	conversion factor
6550522	15	0.41
6550533	18	0.47
6550544	22	0.68
6550555	28	0.86
6550566	35	1.11
6550577	42	2.22
6550588	54	2.95

SP6270VM straight coupling (2 x press)		
article no.	dimensions	conversion factor
6552172	76.1	7.45
6552183	88.9	9.58
6552194	108	14.76

SP6275V slip coupling (2 x press)		
article no.	dimensions	conversion factor
6550599	15	0.55
6550601	18	0.65
6550610	22	0.93
6550621	28	1.31
6550632	35	1.76
6550643	42	2.90
6550654	54	4.15

SP6275VM slip coupling (2 x press)		
article no.	dimensions	conversion factor
6552205	76.1	11.28
6552216	88.9	13.73
6552227	108	20.31

SP6002V elbow 90° (2 x press)		
article no.	dimensions	conversion factor
6550005	15	0.55
6550016	18	0.67
6550027	22	1.00
6550038	28	1.36
6550049	35	1.94
6550051	42	3.69
6550060	54	5.58

SP6002VM bend 90° (2 x press)		
article no.	dimensions	conversion factor
6552326	76.1	12.13
6552337	88.9	15.19
6552348	108	23.76

SP6001V bend 90° (press x male)		
article no.	dimensions	conversion factor
6550071	15 x Ø15	0.56
6550082	18 x Ø18	0.65
6550093	22 x Ø22	1.05
6550104	28 x Ø28	1.38
6550115	35 x Ø35	1.98
6550126	42 x Ø42	3.57
6550137	54 x Ø54	5.61

SP6001VM bend 90° (press x male)		
article no.	dimensions	conversion factor
6552359	76.1 x Ø76.1	12.16
6552361	88.9 x Ø88.9	16.06
6552370	108 x Ø108	23.64

SP6041V bend 45° (2 x press)		
article no.	dimensions	conversion factor
6550214	15	0.47
6550225	18	0.53
6550236	22	0.85
6550247	28	1.11
6550258	35	1.50
6550269	42	3.01
6550271	54	4.14

SP6041VM bend 45° (2 x press)		
article no.	dimensions	conversion factor
6552414	76.1	9.49
6552425	88.9	11.40
6552436	108	19.14

SP6040V bend 45° (press x male)		
article no.	dimensions	conversion factor
6550148	15 x Ø15	0.48
6550159	18 x Ø18	0.56
6550161	22 x Ø22	0.85
6550170	28 x Ø28	1.18
6550181	35 x Ø35	1.53
6550192	42 x Ø42	2.80
6550203	54 x Ø54	4.30

SP6040VM bend 45° (press x male)		
article no.	dimensions	conversion factor
6552381	76.1 x Ø76.1	8.85
6552392	88.9 x Ø88.9	12.59
6552403	108 x Ø108	18.97

SP6725V bend tube 90° (2 x male)		
article no.	dimensions	conversion factor
6551930	Ø15	1.15
6551941	Ø18	0.82
6551952	Ø22	1.66
6551963	Ø28	2.23
6551974	Ø35	5.38
6551985	Ø42	7.11
6551996	Ø54	11.73

SP6724V bend tube 60° (2 x male)		
article no.	dimensions	conversion factor
6552084	Ø28	2.08
6552095	Ø35	4.86
6552106	Ø42	7.33
6552117	Ø54	11.64

SP6723V bend tube 30° (2 x male)		
article no.	dimensions	conversion factor
6552007	Ø28	2.13
6552018	Ø35	4.58
6552029	Ø42	7.06
6552031	Ø54	11.34

SP6722V bend tube 15° (2 x male)		
article no.	dimensions	conversion factor
6552040	Ø28	2.19
6552051	Ø35	4.60
6552062	Ø42	6.66
6552073	Ø54	11.18

SP6717V crossover (2 x male)		
article no.	dimensions	conversion factor
6552128	Ø15	0.91
6552139	Ø18	1.15
6552141	Ø22	1.52
6552150	Ø28	2.32

SP6130V tee (3 x press)		
article no.	dimensions	conversion factor
6550280	15	0.72
6550291	18	0.88
6550302	22	1.32
6550313	28	1.72
6550324	35	2.49
6550335	42	4.02
6550346	54	5.92

SP6130VM tee (3 x press)		
article no.	dimensions	conversion factor
6552447	76.1	13.68
6552458	88.9	19.61
6552469	108	27.84

SP6130RV tee reduced (3 x press)		
article no.	dimensions	conversion factor
6550357	18 x 15 x 18	0.88
6550368	22 x 15 x 22	1.17
6550379	22 x 18 x 22	1.19
6550381	28 x 15 x 28	1.48
6550390	28 x 18 x 28	1.50
6550401	28 x 22 x 28	1.61
6550412	35 x 15 x 35	2.05
6550423	35 x 18 x 35	1.95
6550434	35 x 22 x 35	2.25
6550445	35 x 28 x 35	2.41
6550456	42 x 22 x 42	3.41
6550467	42 x 28 x 42	3.43
6550478	42 x 35 x 42	3.58
6550489	54 x 22 x 54	4.91
6550491	54 x 28 x 54	5.07
6550500	54 x 35 x 54	5.08
6550511	54 x 42 x 54	5.67

SP6130RVM reduced tee (3 x press)		
article no.	dimensions	conversion factor
6552579	88.9 x 76.1 x 88.9	17.82
6552634	108 x 76.1 x 108	24.40
6552645	108 x 88.9 x 108	25.63

SP6130RVVM tee reduced (3 x press)		
article no.	dimensions	conversion factor
6552502	76.1 x 42 x 76.1	11.28
6552513	76.1 x 54 x 76.1	12.30
6552557	88.9 x 42 x 88.9	14.58
6552568	88.9 x 54 x 88.9	14.88
6552612	108 x 42 x 108	21.57
6552623	108 x 54 x 108	22.35

SP6130GV tee female branch (press x female thread x press)		
article no.	dimensions	conversion factor
6551094	15 x Rp½" x 15	0.85
6551105	18 x Rp½" x 18	0.93
6551655	18 x Rp¾" x 18	1.09
6551116	22 x Rp½" x 22	1.28
6551127	22 x Rp½" x 22	1.42
6551138	28 x Rp½" x 28	1.57
6551149	28 x Rp½" x 28	1.69
6551666	28 x Rp1" x 28	2.13
6551151	35 x Rp½" x 35	2.00
6552832	35 x Rp½" x 35	2.24
6551182	35 x Rp1" x 35»	2.53
6551160	42 x Rp½" x 42	3.32
6551193	42 x Rp1" x 42	4.28
6551171	54 x Rp½" x 54	4.89
6551204	54 x Rp1" x 54	5.22

SP6130GVM tee female branch (press x female thread x press)		
article no.	dimensions	conversion factor
6552689	76.1 x Rp2" x 76.1	16.61
6552656	76.1 x Rp½" x 76.1	11.60
6552667	88.9 x Rp¾" x 88.9	15.60
6552691	88.9 x Rp2" x 88.9	17.63
6552678	108 x Rp¾" x 108	13.89
6552700	108 x Rp2" x 108	24.07

SP6132GV tee male branch (press x male thread x press)		
article no.	dimensions	conversion factor
6551811	15 x R½" x 15	0.89
6551820	18 x R½" x 18	1.01
6551831	18 x R¾" x 18	1.35
6551842	22 x R½" x 22	1.35
6551853	22 x R¾" x 22	1.61
6551864	28 x R¾" x 28	1.92
6551897	28 x R1" x 28	2.05
6551875	35 x R¾" x 35	2.36
6551908	35 x R1" x 35	2.49
6551886	42 x R¾" x 42	3.68
6551919	42 x R1" x 42	3.84
6551921	54 x R1" x 54	5.20

SP6243GV straight connector (press x male thread)		
article no.	dimensions	conversion factor
6551336	15 x R½"	0.58
6551347	15 x R¾"	0.75
6551358	18 x R½"	0.65
6551369	18 x R¾"	0.77
6551380	22 x R½"	0.91
6551391	22 x R¾"	1.00
6551371	22 x R1"	1.00
6551413	28 x R¾"	1.32
6551402	28 x R1"	1.30
6551424	35 x R1"	1.68
6551435	35 x R1¼"	1.90
6552801	35 x R1½"	2.09
6552810	42 x R1¼"	2.90
6551446	42 x R1½"	2.50
6552821	54 x R1½"	3.98
6551457	54 x R2"	3.83

SP6243GVM straight connector (press x male thread)		
article no.	dimensions	conversion factor
6552238	76.1 x R2½"	7.84
6552249	88.9 x R3"	10.00

SP6243V reducer (male x press)		
article no.	dimensions	conversion factor
6550665	Ø18 x 15	0.39
6550676	Ø22 x 15	0.48
6550687	Ø22 x 18	0.49
6550698	Ø28 x 15	0.60
6550709	Ø28 x 18	0.59
6550711	Ø28 x 22	0.74
6551545	Ø35 x 18	0.84
6550720	Ø35 x 22	0.99
6550731	Ø35 x 28	1.08
6550742	Ø42 x 22	1.23
6550753	Ø42 x 28	1.41
6550764	Ø42 x 35	1.33
6550775	Ø54 x 22	1.93
6550786	Ø54 x 28	1.92
6550797	Ø54 x 35	2.05
6550808	Ø54 x 42	2.52
6552251	Ø76.1 x 42	5.75
6552260	Ø76.1 x 54	5.53
6552271	Ø88.9 x 54	7.30

SP6243VM reducer (male x press)		
article no.	dimensions	conversion factor
6552282	Ø88.9 x 76.1	7.49
6552304	Ø108 x 76.1	11.25
6552315	Ø108 x 88.9	11.41

SP6270GV straight connector (press x female thread)		
article no.	dimensions	conversion factor
6551215	15 x Rp½"	0.45
6551226	15 x Rp½"	0.59
6551237	18 x Rp½"	0.66
6551248	18 x Rp½"	0.66
6551261	22 x Rp½"	0.99
6551270	22 x Rp½"	0.86
6551259	22 x Rp1"	1.14
6552777	28 x Rp½"	1.82
6551292	28 x Rp½"	1.47
6551281	28 x Rp1"	1.22
6551468	35 x Rp1"	1.67
6551303	35 x Rp1¼"	1.69
6552788	42 x Rp1¼"	3.30
6551314	42 x Rp1½"	2.88
6552799	54 x Rp1½"	5.68
6551325	54 x Rp2"	4.43

SP6092GV angle adapter 90° (press x male thread)		
article no.	dimensions	conversion factor
6551743	15 x R½"	0.88
6551754	18 x R½"	1.01
6551765	22 x R¾"	1.63
6551776	28 x 1"	2.11
6551787	35 x R1¼"	3.44
6551798	42 x R1½"	5.15
6551809	54 x R2"	7.72

SP6090GV angle adapter 90° (press x female thread)		
article no.	dimensions	conversion factor
6551556	15 x Rp½"	0.89
6551567	18 x Rp½"	0.92
6552865	22 x Rp½"	1.17
6551578	22 x Rp½"	1.44
6551589	28 x 1"	2.16
6551591	35 x Rp1¼"	3.19
6551600	42 x Rp1½"	5.40
6551611	54 x Rp2"	8.53

SP6710V angle adapter 90° (male x female thread)		
article no.	dimensions	conversion factor
6552161	15 x Rp½"	0.83

SP6359GV union coupling (press x union nut)		
article no.	dimensions	conversion factor
6551479	15 x G¾"	0.40
6551481	18 x G¾"	0.49
6551490	22 x G1"	1.31
6551501	28 x G1¼"	1.72
6551512	35 x G1½"	2.26
6551523	42 x G1¾"	3.00
6551534	54 x G2¾"	4.81

SP6331GV straight union (press x male thread)		
article no.	dimensions	conversion factor
6550885	15 x R½"	1.40
6550896	15 x R¾"	1.67
6550907	18 x R½"	1.33
6550918	18 x R¾"	1.67
6550929	22 x R½"	2.00
6550931	22 x R¾"	1.28
6550940	22 x R1"	2.68
6550951	28 x R1"	3.35
6550962	35 x R1¼"	4.26
6550973	42 x R1½"	5.50
6550984	54 x R2"	9.05

SP6330GV straight union (press x female thread)		
article no.	dimensions	conversion factor
6550995	15 x Rp½"	1.28
6551006	15 x Rp½"	1.42
6551017	18 x Rp½"	1.20
6551028	18 x Rp½"	1.47
6551039	22 x Rp½"	2.16
6551041	22 x Rp1"	2.43
6551050	28 x Rp1"	4.09
6551061	35 x Rp1¼"	4.14
6551072	42 x Rp1½"	5.65
6551083	54 x Rp2"	9.41

SP6471GV wall plate 90° (press x female thread)		
article no.	dimensions	conversion factor
6551622	15 x Rp½"	1.15
6551633	18 x Rp½"	1.35
6551644	22 x Rp½"	1.65

SP6471GLV wall plate 90° long (press x female thread)		
article no.	dimensions	conversion factor
6552843	15 x Rp½"	1.52
6552854	18 x Rp½"	1.59

SP6500V flanged connector PN10/16 (1 x press)		
article no.	dimensions	conversion factor
6551677	15 x DN15	5.61
6551688	18 x DN15	5.82
6551699	22 x DN20	7.84
6551701	28 x DN25	10.14
6551710	35 x DN32	15.09
6551721	42 x DN40	18.36
6551732	54 x DN50	22.11

SP6500VM flanged connector PN10/16 (1 x press)		
article no.	dimensions	conversion factor
6552711	76.1 x DN65	42.73
6552722	88.9 x DN80	49.64
6552733	108 x DN100	59.94

SP6301V stop end (1 x press)		
article no.	dimensions	conversion factor
6550819	15	0.22
6550821	18	0.27
6550830	22	0.38
6550841	28	0.51
6550852	35	0.76
6550863	42	1.43
6550874	54	2.02

SP6301VM stop end (1 x press)		
article no.	dimensions	conversion factor
6552744	76.1	4.99
6552755	88.9	6.49
6552766	108	9.47

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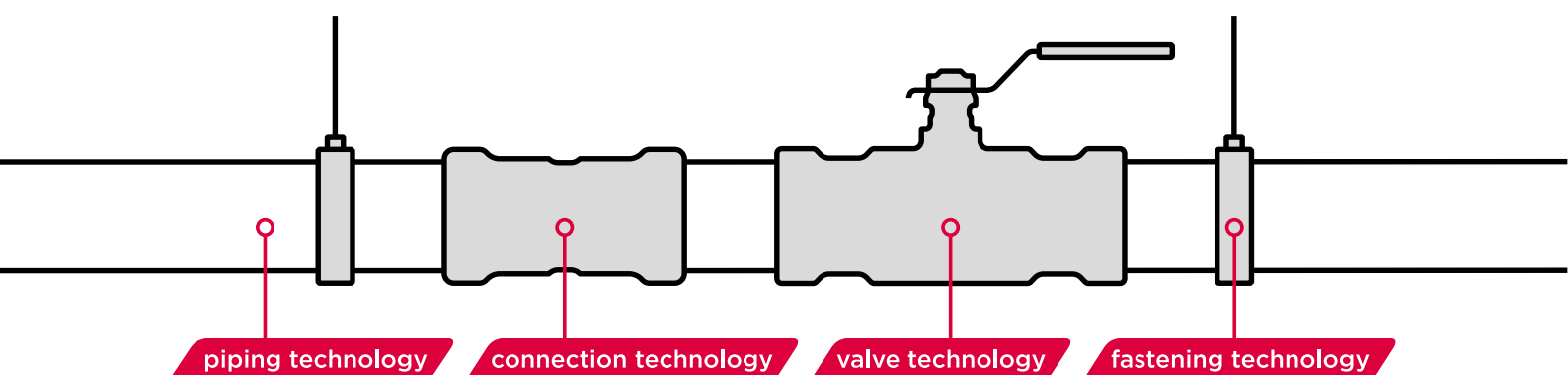
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