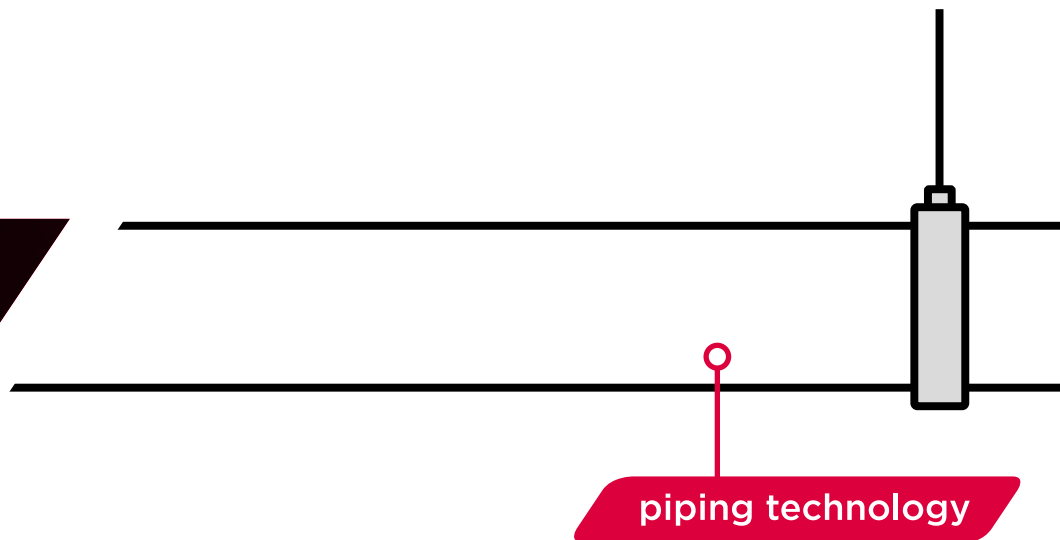


fire protection



Aalberts integrated piping systems

don't just buy  
products,  
buy solutions.



# we are Aalberts integrated piping systems

Aalberts integrated piping systems engineers the most advanced integrated piping systems for the distribution and control of liquids and gases for key verticals, like industrial, utilities, commercial and residential. We offer fully integrated piping systems in valve, connection, fastening and piping technology. We work hand-in-hand with our customers to create the perfect integrated piping system, that meets their requirements. Our piping systems are easy to specify, install, control and maintain, saving important preparation and installation time. We meet the highest quality and industry standards needed in the selected verticals. We are the only business that truly offers its customers a single sourced and complete integrated piping solution, each and every time.

**Don't just buy products, buy solutions.**

## our mission

With our integrated piping systems, supported by our unique Digital Design Service, we ensure that you will always get the best and easiest solution for the installation of an integrated piping system. From the moment that your plan is designed, you can get advice on complete and tailored solutions. With our Revit Plug-in you have digital access to the complete product offering within Aalberts integrated piping systems. This information is always accessible and up to date, allowing the design of an optimal and economically attractive installation that will meet all your demands. So whether the task is project conception, installation, or on-going maintenance, we are the company that truly delivers a complete system and service offering. Our know-how, our can-do attitude, and our relentless innovation come as standard. We will sweat the small stuff in our quest to find the perfect solutions, even if we have to invent them.

**This is how we deliver excellence.**

## our way of working

We operate from various regions around the globe: America, United Kingdom, Middle East, Asia Pacific and Europe. As we have multiple locations in many countries, we are always close to our customers. More than 3500 mission critical employees are persistent to offer the best integrated piping system. They work on our products, solutions and services every day. No matter how big the opportunity is, when we say we've got this, we won't let go until there is nothing left to learn. We improve ourselves by exchanging knowledge and experience to stay ahead of our competitors.

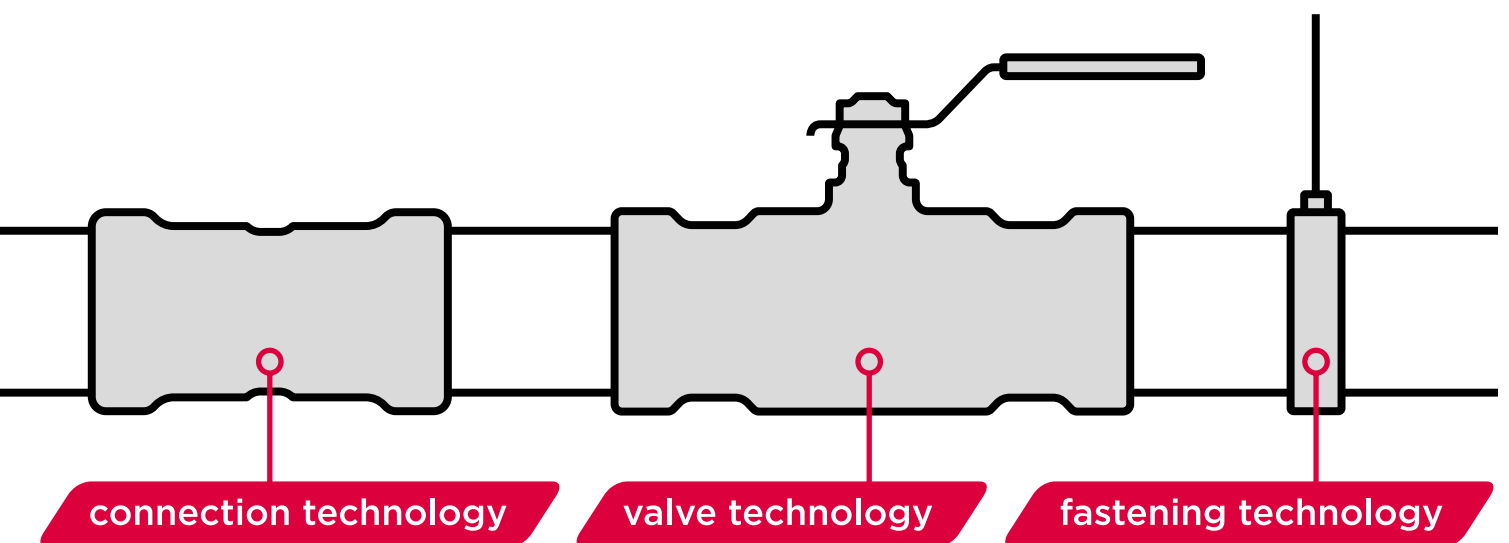
**Good is never good enough.**

With our sustainable spirit we contribute to circularity every single day. This belief is strongly linked to the way we do business. Rethink, reduce and recycle. We are entrepreneurial and take ownership in everything we do. We are convinced that self-development and diversity is essential.

**The Aalberts way, winning with people.**

## the strength of Aalberts integrated piping systems

- the perfect solution for every project
- smart, fast and efficient installation
- valuable advice from the drawing board to delivery
- a very wide product range



# Aalberts integrated piping systems connect: our systems are easy to combine with each other

Aalberts integrated piping systems is the combination of different companies with a strong legacy in their markets. The individual brands are well-known and each represents a long history. Together they offer the best integrated piping system for now and in the future.

## our product lines

We offer product ranges that:

- connect seamlessly
- are available in dimensions from 6 mm up to 104" (DN2600)
- can be used for thick-walled pipe and thin-walled metal or plastic tube
- have press, compression, groove and push connections
- can be expanded with valves and accessories
- are BIM ready

### Connection technology

#### VSH

VSH has been supplying quality products for 90 years and delivers piping systems and fittings throughout the world. In the 1970's VSH brought the well-known VSH Super compression fitting on the market which is still a best-seller, followed by the VSH XPress pressfitting, a technology that makes it possible to realize a connection even faster and more reliable.

#### Shurjoint

The history of Shurjoint dates back to 1974, when the founders produced their first grooved couplings. These first couplings were produced from malleable iron, the casting material of choice at this time. Shurjoint is recognized as a world leader in the design and manufacture of mechanical piping components.

### Valve technology

#### Apollo

Apollo Valves has been supplying the commercial and industrial valve markets since 1928. The valves, with their signature yellow handles, are designed and manufactured in their state-of-the-art facilities in the Carolinas, USA. Apollo's vertical manufacturing integration assures better quality control, better cost control, and the shortest delivery lead times possible for their range of ball valves, automation products, safety relief valves, backflow preventers and plumbing/heating products

### VSH PowerPress®



material	carbon steel
suitable for	thick-walled steel
connection	press / DW-profile
dimensions	½" - 2" (DN15 - DN50)

### VSH SudoPress



material	carbon steel / stainless steel / copper
suitable for	carbon steel / stainless steel / copper
connection	press / V-profile
dimensions	12 - 108 mm (DN10 - DN100)

### VSH XPress



material	carbon steel / stainless steel / copper / unifer
suitable for	carbon steel / stainless steel / copper / unifer
connection	press / M-profile
dimensions	12 - 108 mm (DN10 - DN100)

### VSH Shurjoint



material	ductile iron / stainless steel
suitable for	thick-walled steel / stainless steel / HDPE
connection	groove
dimensions	½" - 104" (DN15 - DN2600)

### VSH Super



material	brass
suitable for	carbon steel / stainless steel / copper / plastic
connection	compression
dimensions	6 - 54 mm (DN4 - DN50)

### VSH SmartPress



material	stainless steel
suitable for	stainless steel (schedule 5S/10S)
connection	press / V-profile (ASP)
dimensions	½" - 2" (DN15 - DN50)

### Apollo Valves



material	brass / bronze / carbon steel / stainless steel
suitable for	steel / carbon steel / stainless steel / copper
connection	threaded / press / push / flange
dimensions	DN15 - DN300

### Apollo ProFlow



material	brass / ductile iron
suitable for	carbon steel / stainless steel / copper / plastic
connection	threaded / press / flange
dimensions	DN15 - DN300

### Seppelfricke



material	brass
suitable for	steel / carbon steel / stainless steel / copper
connection	press (V & M profile) / threaded
dimensions	10 - 54 mm (DN8 - DN50)

### VSH MultiPress



material	PPSU / brass
suitable for	plastic
connection	press / U & TH profile
dimensions	14 - 63 mm (DN10 - DN50)

### VSH UltraLine



material	PPSU / brass / PVDF
suitable for	plastic
connection	sliding sleeve
dimensions	14 - 32 mm (DN10 - DN25)

### VSH Tectite



material	copper / brass / stainless steel
suitable for	copper / carbon steel / stainless steel
connection	push
dimensions	10 - 54 mm (DN8 - DN50)

# high quality fire protection systems

Aalberts integrated piping systems offers numerous application possibilities on the fire protection market for regular sprinkler systems, automatic sprinkler systems, embedded systems, fire hose reels and armed fire protection valves.

Fire protection piping systems meet very stringent requirements. Aalberts ips offers certified systems that comply with all the applicable requirements and approvals. Reliable connections, fast, clean and easy installation, sustainability, hygiene and cost-effectiveness are our top priorities.

Aalberts ips fire protection systems excel in the most varied circumstances and are particularly suitable for use in residential and non-residential buildings, shipbuilding and industry. We deliver high-quality piping systems with simple installation and reliable connections. All our systems are extensively tested and easily comply with international quality and safety requirements.

## fast

Aalberts ips fire protection press systems are simple to install and have short installation times. Press fittings can be installed up to three times faster than threaded fitting systems. Fast installation minimises disruptions and nuisance in the installation area, with little or no downtime.

## clean

No machining, such as cutting threads on pipes, is necessary during installation, and no lubricants are needed for assembly, so, fire protection press systems make clean connections which makes them ideal for use in operational environments. Clean installation also avoids corrosion problems

## safe

We continuously try to improve our systems. Our fittings have unique safety features, such as the Leak Before Pressed function, Visu-Control® (VSH PowerPress®), integrated insertion depth markings and clear material type markings which will all minimise failure costs.



**light and compact**

The total weight of a piping system is reduced thanks to the use of precision tubing and an optimised fitting design. In addition, the fittings are designed to occupy minimum space.

**quality and availability**

Aalberts ips fire protection press systems are mainly manufactured in our modern, ISO certified and automated factory in Hilversum (The Netherlands). Delivering top quality is our main focus, so we maintain strict quality control in the production process. Our products are available from our trustworthy, worldwide network of dealers.



## the advantages of our fire protection systems:

- safe, complete and reliable piping systems
- simple and fast press and groove connection technologies
- lightweight, economical in terms of space and time
- high quality proven in practice
- all required approvals
- complete range of fittings, valves and tubes available in dimensions 22 to 108 mm and 3/4" to 12"
- universal tools for press and groove systems
- one partner, one contact person, one warranty
- fully compatible with other Aalberts ips systems



fire protection



sprinkler

# different buildings, custom systems





## applications

### water mist systems

Along with conventional sprinkler systems, water mist installations are becoming more and more popular and will be installed more frequently in the future. VSH XPress Stainless is mainly used for low pressure water mist systems.

### mains-fed sprinklers

Aalberts integrated piping systems has developed a direct mains-fed sprinkler system for residential applications, in cooperation with BAM Techniek, Siron, TU Delft and the Dutch fire brigade. This unique sprinkler system is connected

directly to the water mains and eliminates the need for costly additional systems. This approach gives you a low-cost and reliable system that is easy to install. The main objective of a direct mains-fed sprinkler system is to prolong escape time.

### dry risers

Up to 2009 conventional fire risers were commonly used in the Netherlands. In close cooperation with the fire brigade, VSH introduced high-pressure dry riser technology. The VSH XPress Stainless system, with a maximum rated working

pressure of 40 bar, is used for high-pressure dry risers. Water is fed more quickly to the fire, installation is easier and fewer demands are made on the fire brigade. These are just a few of the benefits of this successful innovation.

### fire hose reels

We offer a range of products for connecting fire hose reels. You can choose from VSH Super compression fittings, EA Protect check valves, plastic tubes and numerous press fittings in stainless steel or copper.

# fire protection product lines



# all our fire protection product lines can be seamlessly connected



## VSH XPress

the most versatile piping system with a very wide range of fittings, valves and tubes for automatic wet and dry sprinkler systems available in different materials: VSH XPress Carbon for wet sprinkler installations, VSH XPress Stainless for dry and wet installations.



## VSH XPress Sprinkler ML

the plastic multilayer tube system for built-in and embedding in concrete floors and ceilings. There are many approvals available, including VdS, FM, LPCB and UL.



## VSH Shurjoint

the groove piping system that is used all over the world for automatic sprinkler systems. The product range numbers over 600 individual components, including grooved couplings, fittings, flanges, mechanical tees and valves. Applicable products are listed and/or approved by various domestic and international approval bodies including UL, FM, VdS, LPCB.



## VSH PowerPress®

the system for thick walled piping installations has the FM (Factory Mutual) sprinkler approval. Therefore, VSH PowerPress® can also be used for automatic water sprinkler systems (max. working pressure 12.1 bar).

# VSH XPress



## the complete M-profile piping system

VSH XPress is a complete piping system\* that is suitable for every conceivable application – from potable water, gas, heating and solar installations to sprinkler systems. The range consists of M-profile press fittings, valves, tubes and press tools, and is available in carbon steel, stainless steel and CuNiFe. With a complete range of dimensions (from 22 to 108 mm), VSH XPress is easy to use anywhere.

For sprinkler applications VSH XPress contains a carbon and stainless range in dimensions 22-108 mm and a VSH XPress CuNiFe range in dimensions 22-108 mm with international shipbuilding approvals available.

material	carbon steel / stainless steel / CuNiFe
suitable for	carbon steel / stainless steel / CuNiFe
connection	press / M-profile
dimensions	22 - 108 mm (DN20 - DN100)

convenient installation, time savings and safety are the top priorities

- available in 3 different materials
- a wide range from 22 to 108 mm
- clear identification of materials and dimensions
- quick installation thanks to pre-marked insertion depths
- more security with the Leak Before Pressed function
- matching professional press tools
- fully compatible with other Aalberts ips systems

### seamless combinations

The wide range of transition couplings allows for easy transitions and connections, enabling systems from 22 mm to 104" to be built. For example, a grooved transition coupling is perfect for easily connecting VSH Shurjoint to VSH XPress. It is also possible to connect to thick-walled steel pipes with the transition coupling to the VSH PowerPress® system.

### VSH XPress FullFlow valves with VSH XPress connections

The unique Apollo FullFlow Carbon or Stainless ball valves feature a M-profile connection, enabling it to fit seamlessly into the VSH XPress system. This allows you to effortlessly install one after the other, meaning shorter installation time. VSH XPress FullFlow ball valves are full bore. As a result, the valve has virtually no flow resistance. The design of this slim valve is unique. The valve body is manufactured in one piece, greatly reducing the risk of leaking.

\* for a wider range of applications, including potable water, heating, cooling, compressed air, solar and natural gas, VSH XPress is also available in copper. Also, a wider range of dimensions, including 12, 15 and 66.7 mm is available in various materials.

# VSH XPress Sprinkler ML



## the complete sprinkler plastic piping system

The increasing demand for housing and the limited availability of space means that many residential towers will be built in the coming years. With the growth in number of towers with construction heights of 70 meters or more, the demand for sprinkler systems will also increase. In order to use the available floor height as efficient as possible and due to the aesthetic point of view, sprinkler piping systems are often embedded into concrete.

### concrete embedding

VSH XPress Sprinkler ML is ideal for high-rise buildings where sprinkler piping systems must be embedded in the floors or ceilings. The products consists of plastic fittings (PVDF) in combination with plastic multilayer tube with aluminium core (PE-Xc/Al/PE-Xc). A simple and fast connection technology with a unique feature: it can be embedded into concrete without additional protection (eg Denso tape) against the negative effects of concrete on the fittings.

### new design sprinkler cup

The VSH XPress Sprinkler ML system is suitable for wooden formwork, wide slab panel floors and tunnel construction. During the concrete embedding proces, experience has shown that the sprinkler cup does not always come out of the ceiling in a straight angle. To solve this, a new sprinkler cup has been developed which enables perfect positioning and prevents intensive and therefore expensive repair work afterwards.

material	fittings: PVDF tubes: plastic multilayer with aluminium core
suitable for	embedded wet sprinkler systems
connection	press
dimensions	32 - 63 mm (DN25 - DN50)

## the advantages of VSH XPress Sprinkler ML:

- simple, fast and safe connection technology
- resistant to concrete embeddedding, no need to wrap fittings
- insertion depth control of tube in the fitting
- VdS for wet sprinkler installations
- available in dimensions DN25 up to DN50 (32-63 mm)
- clear size identification
- BIM ready
- Revit Plug-in available

# VSH Shurjoint



## the perfect solution for connecting large sizes

VSH Shurjoint is a quality grooved piping system\* that makes it much easier to connect elements than with conventional joining techniques. It is less labour-intensive, safer and cleaner, and the connections are of a consistently high quality. Most importantly, it is much faster than welding and fitting, meaning that VSH Shurjoint significantly cuts down on installation time and saves money in the process.

### seamless connection to press systems

The wide range of transition couplings ensures a simple transition and connection. For example, the grooved/press transition coupling is perfect for easily connecting VSH Shurjoint to VSH XPress or VSH PowerPress® (for thick-walled steel pipe). This allows systems to be installed from 12 mm to 104".

### a complete grooved system including valves

The VSH Shurjoint fire protection series consists of more than 600 individual components, including grooved couplings, fittings, flanges, mechanical tees, valves and more. Applicable products are listed and or approved by various domestic and international approval bodies including UL, FM, VdS, LPCB and others.

### excellent in fire protection

Aalberts integrated piping systems has a product range specifically designed for the fire protection market. VSH Shurjoint is suitable for use in both wet and dry fire protection systems. The products comply with national and international approval standards.

material	ductile iron / stainless steel
suitable for	thick-walled steel / stainless steel / HDPE
connection	groove
dimensions	1" - 24" (DN25 - DN600)

## the added value of VSH Shurjoint

- better job site safety - no welding required
- systems for steel, stainless steel, PVC and PE pipes
- very wide product range
- dimensions from 1" to 24" (DN25 - DN600)
- design service, cost comparisons and thermal movement analysis
- demountable
- fully compatible with other Aalberts ips systems

\* for a wider range of applications, including potable water, heating, cooling and compressed air, VSH Shurjoint is also available in a wider range of dimensions, from ½" (DN15) to 104" (DN2600).

# VSH PowerPress®



## world's most comprehensive thick-wall press system

VSH PowerPress® is a complete press piping system that allows you to install complete heating, cooling, natural gas, compressed air and sprinkler installations with thick-walled tubes. The range consists of ½" to 2" DW profile press fittings, valves and tools. Transition couplings make it easy to combine thick-wall systems with thin-wall systems such as VSH XPress and VSH SudoPress.

### double safety

With VSH PowerPress® systems, the tools ensure the quality of the connection, rather than the installer. This significantly reduces the risk of installation errors.

All fittings are equipped with a Leak Before Pressed (LBP) function, further reducing the risk of installation errors. With the LBP function, when performing a pressure test you can immediately see which fitting has not been pressed.

All fittings also have a Visu-Control® ring that breaks away from the fitting during pressing. This makes unpressed fittings visible and tangible, so they don't have to be marked as pressed afterwards, saving considerable time. The Visu-Control® ring also gives a direct indication if you are working with water (red) or gas (yellow) fittings.

material	carbon steel
suitable for	thick-walled steel
connection	press / DW-profile
dimensions	½" - 2" (DN15 - DN50)

### faster, simpler and safer connection of thick-walled pipe systems

- Visu-Control® ring and Leak Before Pressed function
- immediate identification of material and dimensions
- ZnNi coating for excellent corrosion resistance
- clever serrations on the stainless steel grip ring for maximum dependability
- complete piping system from ½" to 2"
- installation with safe, lightweight battery-powered tools
- FM approval on fittings, suitable for wet sprinkler systems
- fully compatible with other Aalberts ips systems

### more information?

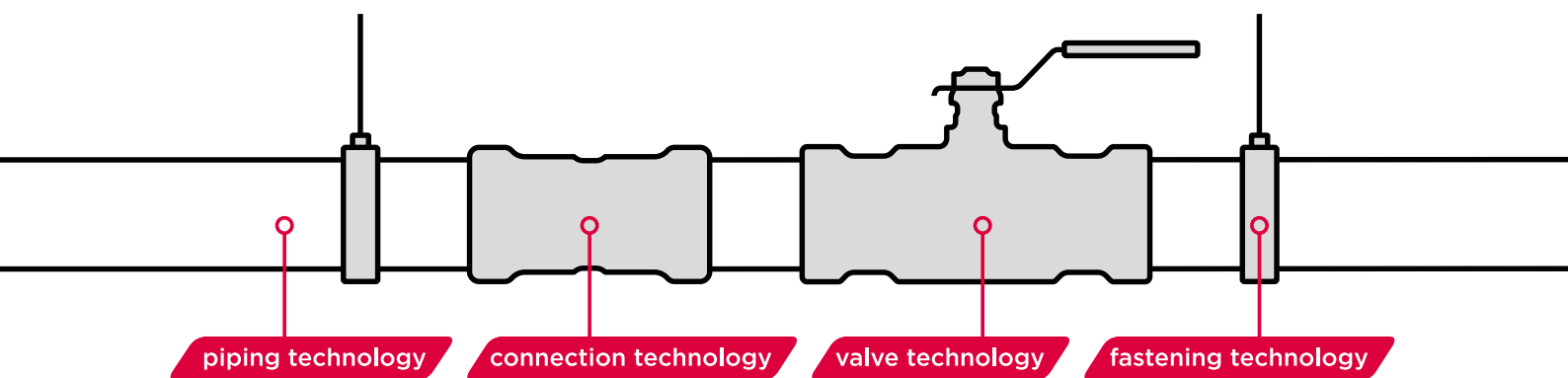
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For a complete and up-to-date product range and our additional services, visit: [www.aalberts-ips.eu](http://www.aalberts-ips.eu) or scan the qr code.

Would you like to make an appointment to meet an account manager in your region or receive advice and support from one of our experts? Please contact:

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