



## Product certificate K45725/06

Issued 2021-01-01

Replaces K45725/05

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### VSH XPress fittings

#### STATEMENT BY KIWA

With this product certificate, issued in accordance with the Kiwa Regulations for Certification, Kiwa declares that legitimate confidence exists that the products supplied by

### Aalberts integrated piping systems B.V.

as specified in this product certificate and marked with the Kiwa®-mark in the manner as indicated in this product certificate may, on delivery, be relied upon to comply with Kiwa evaluation guideline BRL-K774 "Compression fittings to tighten with matching clamping device" dated 02-10-2019.

Ron Scheepers  
Kiwa

# CERTIFICATE

28/11/2021

*Publication of this certificate is allowed.*

*Advice: consult [www.kiwa.nl](http://www.kiwa.nl) in order to ensure that this certificate is still valid.*

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Certification process  
consists of initial and  
regular assessment of:

- quality system
- product

## VSH XPress fittings

## PRODUCT SPECIFICATION

The products mentioned below belong to this certificate.

Fittings made out of copper and/or copper tin alloys in the dimensions  $\phi$  12, 15, 18, 22, 28, 35, 42 and 54 mm.

This concludes an extended program of elbows, tees, reducing pieces, tail pieces, unions, end connections etc. in which in BRL-K774 a recommended assortment is indicated.

The fittings are only designed to be used for connections of copper pipes according to BRL-K760 in the qualities "half hard" and "hard".

4800664	VSH XPress Copper elbow 45° FØ 12	4801720	VSH XPress Copper T-piece reduced FFF 15x15x12
4800675	VSH XPress Copper elbow 45° FØ 15	4801764	VSH XPress Copper T-piece reduced FFF 18x18x12
4800686	VSH XPress Copper elbow 45° FØ 18	4801786	VSH XPress Copper T-piece reduced FFF 18x18x15
4800697	VSH XPress Copper elbow 45° FØ 22	4805671	VSH XPress Copper T-piece reduced FFF 22x22x12
4800708	VSH XPress Copper elbow 45° FØ 28	4801821	VSH XPress Copper T-piece reduced FFF 22x22x15
4800719	VSH XPress Copper elbow 45° FØ 35	4801852	VSH XPress Copper T-piece reduced FFF 22x22x18
4800721	VSH XPress Copper elbow 45° FØ 42	4805713	VSH XPress Copper T-piece reduced FFF 28x28x12
4800730	VSH XPress Copper elbow 45° FØ 54	4801885	VSH XPress Copper T-piece reduced FFF 28x28x15
4800543	VSH XPress Copper elbow 45° FF 12	4801852	VSH XPress Copper T-piece reduced FFF 22x22x18
4800565	VSH XPress Copper elbow 45° FF 18	4805713	VSH XPress Copper T-piece reduced FFF 28x28x12
4800576	VSH XPress Copper elbow 45° FF 22	4801885	VSH XPress Copper T-piece reduced FFF 28x28x15
4800587	VSH XPress Copper elbow 45° FF 28	4801907	VSH XPress Copper T-piece reduced FFF 28x28x18
4800598	VSH XPress Copper elbow 45° FF 35	4801929	VSH XPress Copper T-piece reduced FFF 28x28x22
4800609	VSH XPress Copper elbow 45° FF 42	4801940	VSH XPress Copper T-piece reduced FFF 35x35x15
4800611	VSH XPress Copper elbow 45° FF 54	4801951	VSH XPress Copper T-piece reduced FFF 35x35x22
		4801951	VSH XPress Copper T-piece reduced FFF 35x35x22
4801599	VSH XPress Copper T-piece FFF 12	4801962	VSH XPress Copper T-piece reduced FFF 35x35x28
4801601	VSH XPress Copper T-piece FFF 15	4801973	VSH XPress Copper T-piece reduced FFF 42x42x15
4801610	VSH XPress Copper T-piece FFF 18	4801984	VSH XPress Copper T-piece reduced FFF 42x42x22
4801621	VSH XPress Copper T-piece FFF 22	4801995	VSH XPress Copper T-piece reduced FFF 42x42x28
4801632	VSH XPress Copper T-piece FFF 28	4802006	VSH XPress Copper T-piece reduced FFF 42x42x35
4801643	VSH XPress Copper T-piece FFF 35	4802017	VSH XPress Copper T-piece reduced FFF 54x54x22
4801654	VSH XPress Copper T-piece FFF 42	4802028	VSH XPress Copper T-piece reduced FFF 54x54x28
4801665	VSH XPress Copper T-piece FFF 54	4802039	VSH XPress Copper T-piece reduced FFF 54x54x35
		4802041	VSH XPress Copper T-piece reduced FFF 54x54x42
4805581	VSH XPress Copper reducer FF 15x12	4801731	VSH XPress Copper T-piece reduced FFF 15x12x15
4805592	VSH XPress Copper reducer FF 22x15	4801797	VSH XPress Copper T-piece reduced FFF 18x15x18
4805647	VSH XPress Copper reducer FF 28x15	4801863	VSH XPress Copper T-piece reduced FFF 22x15x22
4805603	VSH XPress Copper reducer FF 28x22	4801874	VSH XPress Copper T-piece reduced FFF 22x18x22
4805614	VSH XPress Copper reducer FF 35x28	4805405	VSH XPress Copper T-piece reduced FFF 28x15x28
4805625	VSH XPress Copper reducer FF 42x35	4801931	VSH XPress Copper T-piece reduced FFF 28x22x28
4805636	VSH XPress Copper reducer FF 54x42	4805416	VSH XPress Copper T-piece reduced FFF 35x35x22
		4805427	VSH XPress Copper T-piece reduced FFF 35x35x28
4800004	VSH XPress Copper straight coupling FF 12	4801711	VSH XPress Copper T-piece reduced FFF 15x12x12
4800015	VSH XPress Copper straight coupling FF 15	4801775	VSH XPress Copper T-piece reduced FFF 18x15x15
4800026	VSH XPress Copper straight coupling FF 18	4801808	VSH XPress Copper T-piece reduced FFF 22x15x15
4800037	VSH XPress Copper straight coupling FF 22	4801830	VSH XPress Copper T-piece reduced FFF 22x15x18
4800048	VSH XPress Copper straight coupling FF 28	4801819	VSH XPress Copper T-piece reduced FFF 22x18x15
4800059	VSH XPress Copper straight coupling FF 35	4801841	VSH XPress Copper T-piece reduced FFF 22x18x18
4800061	VSH XPress Copper straight coupling FF 42	4805438	VSH XPress Copper T-piece reduced FFF 28x22x15
4800070	VSH XPress Copper straight coupling FF 54	4801896	VSH XPress Copper T-piece reduced FFF 28x22x18
		4801918	VSH XPress Copper T-piece reduced FFF 28x22x22
4805702	VSH XPress Copper stop end F 12	4805451	VSH XPress Copper T-piece reduced FFF 35x28x22
4802941	VSH XPress Copper stop end F 15	4805460	VSH XPress Copper T-piece reduced FFF 35x28x28
4802952	VSH XPress Copper stop end F 18	4805471	VSH XPress Copper T-piece reduced FFF 42x35x35
4802963	VSH XPress Copper stop end F 22	4805680	VSH XPress Copper T-piece reduced FFF 54x42x42
4802974	VSH XPress Copper stop end F 28	4805669	VSH XPress Copper T-piece reduced FFF 12x12x15
4802985	VSH XPress Copper stop end F 35	4801742	VSH XPress Copper T-piece reduced FFF 15x15x18
4802996	VSH XPress Copper stop end F 42	4801753	VSH XPress Copper T-piece reduced FFF 15x15x22
4803007	VSH XPress Copper stop end F 54	4802050	VSH XPress Copper T-piece reduced FFF 22x22x28
		4800191	VSH XPress Copper T-piece reduced FFF 28x28x35
4800422	VSH XPress Copper elbow 90° FØ 12		
4800433	VSH XPress Copper elbow 90° FØ 15	4800873	VSH XPress Copper wall plate on bracket 90° FF 12xRp1/2
4800444	VSH XPress Copper elbow 90° FØ 18	4800884	VSH XPress Copper wall plate on bracket 90° FF 15xRp1/2
4800455	VSH XPress Copper elbow 90° FØ 22	4800895	VSH XPress Copper wall plate on bracket 90° FF 18xRp1/2
4800466	VSH XPress Copper elbow 90° FØ 28	4800906	VSH XPress Copper wall plate on bracket 90° FF 22xRp3/4
4800477	VSH XPress Copper elbow 90° FØ 35	4800917	VSH XPress Copper wall plate on bracket long 90° FF 15xRp1/2
4800488	VSH XPress Copper elbow 90° FØ 42		
4800499	VSH XPress Copper elbow 90° FØ 54	4800939	VSH XPress Copper bend 90° FM 12xR1/2
4800301	VSH XPress Copper elbow 90° FF 12	4800950	VSH XPress Copper bend 90° FM 15xR1/2
4800312	VSH XPress Copper elbow 90° FF 15	4800941	VSH XPress Copper bend 90° FM 15xR3/8
4800323	VSH XPress Copper elbow 90° FF 18	4800961	VSH XPress Copper bend 90° FM 18xR1/2
4800334	VSH XPress Copper elbow 90° FF 22	4800972	VSH XPress Copper bend 90° FM 18xR3/4
4800345	VSH XPress Copper elbow 90° FF 28	4800983	VSH XPress Copper bend 90° FM 22xR3/4
4800356	VSH XPress Copper elbow 90° FF 35	4800994	VSH XPress Copper bend 90° FM 28xR1
4800367	VSH XPress Copper elbow 90° FF 42	4801005	VSH XPress Copper bend 90° FM 35xR1 1/4
4800378	VSH XPress Copper elbow 90° FF 54	4801016	VSH XPress Copper bend 90° FM 42xR1 1/2
		4801027	VSH XPress Copper bend 90° FM 54xR2

4801489 VSH XPress Copper angle adapter 90° FF 12xRp1/2

4802259 VSH XPress Copper reducer FØ 12xØ15

4802261 VSH XPress Copper reducer FØ 12xØ18

## VSH XPress fittings

4801478	VSH XPress Copper angle adapter 90° FF 12xRp3/8	4802270	VSH XPress Copper reducer FØ 15xØ18
4801500	VSH XPress Copper angle adapter 90° FF 15xRp1/2	4802281	VSH XPress Copper reducer FØ 15xØ22
4805570	VSH XPress Copper angle adapter 90° FF 15xRp3/4	4802303	VSH XPress Copper reducer FØ 15xØ28
4801491	VSH XPress Copper angle adapter 90° FF 15xRp3/8	4802292	VSH XPress Copper reducer FØ 18xØ22
4801511	VSH XPress Copper angle adapter 90° FF 18xRp1/2	4802314	VSH XPress Copper reducer FØ 18xØ28
4801522	VSH XPress Copper angle adapter 90° FF 18xRp3/4	4802325	VSH XPress Copper reducer FØ 22xØ28
4801533	VSH XPress Copper angle adapter 90° FF 22xRp1/2	4802336	VSH XPress Copper reducer FØ 22xØ35
4801544	VSH XPress Copper angle adapter 90° FF 22xRp3/4	4802358	VSH XPress Copper reducer FØ 22xØ42
4801555	VSH XPress Copper angle adapter 90° FF 28xRp1	4802347	VSH XPress Copper reducer FØ 28xØ35
4801566	VSH XPress Copper angle adapter 90° FF 35xRp1 1/4	4802369	VSH XPress Copper reducer FØ 28xØ42
4801577	VSH XPress Copper angle adapter 90° FF 42xRp1 1/2	4802380	VSH XPress Copper reducer FØ 28xØ54
4801588	VSH XPress Copper angle adapter 90° FF 54xRp2	4802371	VSH XPress Copper reducer FØ 35xØ42
		4802391	VSH XPress Copper reducer FØ 35xØ54
		4802402	VSH XPress Copper reducer FØ 42xØ54
4802831	VSH XPress Copper angle adapter 90° flat seal FF 12xRp1/2		
4802842	VSH XPress Copper angle adapter 90° flat seal FF 15xRp1/2	4804987	VSH XPress Copper reduced elbow 90° FF 22x15
4802853	VSH XPress Copper angle adapter 90° flat seal FF 18xRp1/2		
4802864	VSH XPress Copper angle adapter 90° flat seal FF 18xRp3/4	4801049	VSH XPress Copper straight connector FM 12xR1/2
4802886	VSH XPress Copper angle adapter 90° flat seal FF 22xRp1	4801038	VSH XPress Copper straight connector FM 12xR3/8
4802875	VSH XPress Copper angle adapter 90° flat seal FF 22xRp3/4	4801060	VSH XPress Copper straight connector FM 15xR1/2
4802897	VSH XPress Copper angle adapter 90° flat seal FF 28xRp1	4801071	VSH XPress Copper straight connector FM 15xR3/4
		4801051	VSH XPress Copper straight connector FM 15xR3/8
4802151	VSH XPress Copper T-piece female thread FFF 12x12xRp1/2	4801082	VSH XPress Copper straight connector FM 18xR1/2
4802160	VSH XPress Copper T-piece female thread FFF 15x15xRp1/2	4801093	VSH XPress Copper straight connector FM 18xR3/4
4802171	VSH XPress Copper T-piece female thread FFF 18x18xRp1/2	4801126	VSH XPress Copper straight connector FM 22xR1
4802182	VSH XPress Copper T-piece female thread FFF 22x22xRp1/2	4801104	VSH XPress Copper straight connector FM 22xR1/2
4802193	VSH XPress Copper T-piece female thread FFF 22x22xRp3/4	4801115	VSH XPress Copper straight connector FM 22xR3/4
4802204	VSH XPress Copper T-piece female thread FFF 28x28xRp1/2	4801148	VSH XPress Copper straight connector FM 28xR1
4802215	VSH XPress Copper T-piece female thread FFF 28x28xRp3/4	4801159	VSH XPress Copper straight connector FM 28xR1 1/4
4802226	VSH XPress Copper T-piece female thread FFF 35x35xRp1/2	4801137	VSH XPress Copper straight connector FM 28xR3/4
4802237	VSH XPress Copper T-piece female thread FFF 42x42xRp1/2	4801161	VSH XPress Copper straight connector FM 35xR1
4802248	VSH XPress Copper T-piece female thread FFF 54x54xRp1/2	4801170	VSH XPress Copper straight connector FM 35xR1 1/4
		4801192	VSH XPress Copper straight connector FM 42xR1 1/2
4803117	VSH XPress Copper straight connector ØF 15xRp1/2	4801181	VSH XPress Copper straight connector FM 42xR1 1/4
4803128	VSH XPress Copper straight connector ØF 18xRp1/2	4801203	VSH XPress Copper straight connector FM 54xR2
4803139	VSH XPress Copper straight connector ØF 18xRp3/4		
4803141	VSH XPress Copper straight connector ØF 22xRp1/2	4801271	VSH XPress Copper straight connector FF 12xRp1/2
4803150	VSH XPress Copper straight connector ØF 22xRp3/4	4801269	VSH XPress Copper straight connector FF 12xRp3/8
4803172	VSH XPress Copper straight connector ØF 28xRp1	4801291	VSH XPress Copper straight connector FF 15xRp1/2
4803161	VSH XPress Copper straight connector ØF 28xRp3/4	4801302	VSH XPress Copper straight connector FF 15xRp3/4
4803183	VSH XPress Copper straight connector ØF 35xRp1	4801280	VSH XPress Copper straight connector FF 15xRp3/8
4803194	VSH XPress Copper straight connector ØF 35xRp1 1/4	4801313	VSH XPress Copper straight connector FF 18xRp1/2
4803205	VSH XPress Copper straight connector ØF 42xRp1 1/2	4801324	VSH XPress Copper straight connector FF 18xRp3/4
4803216	VSH XPress Copper straight connector ØF 54xRp2	4801357	VSH XPress Copper straight connector FF 22xRp1
		4801335	VSH XPress Copper straight connector FF 22xRp1/2
4803251	VSH XPress Copper straight connector ØM 15xR1/2	4801346	VSH XPress Copper straight connector FF 22xRp3/4
4803260	VSH XPress Copper straight connector ØM 18xR1/2	4801379	VSH XPress Copper straight connector FF 28xRp1
4803271	VSH XPress Copper straight connector ØM 18xR3/4	4801381	VSH XPress Copper straight connector FF 28xRp1 1/4
4803282	VSH XPress Copper straight connector ØM 22xR1/2	4801368	VSH XPress Copper straight connector FF 28xRp3/4
4803293	VSH XPress Copper straight connector ØM 22xR3/4	4801390	VSH XPress Copper straight connector FF 35xRp1
4803304	VSH XPress Copper straight connector ØM 28xR1	4801401	VSH XPress Copper straight connector FF 35xRp1 1/4
4803315	VSH XPress Copper straight connector ØM 35xR1 1/4	4805691	VSH XPress Copper straight connector FF 35xRp3/4
4803326	VSH XPress Copper straight connector ØM 42xR1 1/2	4801423	VSH XPress Copper straight connector FF 42xRp1 1/2
		4801412	VSH XPress Copper straight connector FF 42xRp1 1/4
4802721	VSH XPress Copper straight union flat seal FF 12xRp1/2	4801434	VSH XPress Copper straight connector FF 54xRp2
4802732	VSH XPress Copper straight union flat seal FF 15xRp1/2		
4802743	VSH XPress Copper straight union flat seal FF 15xRp3/4	4802589	VSH XPress Copper straight union flat seal FM 12xR1/2
4802754	VSH XPress Copper straight union flat seal FF 18xRp1/2	4802578	VSH XPress Copper straight union flat seal FM 12xR3/8
4802765	VSH XPress Copper straight union flat seal FF 18xRp3/4	4802591	VSH XPress Copper straight union flat seal FM 15xR1/2
4802787	VSH XPress Copper straight union flat seal FF 22xRp1	4802600	VSH XPress Copper straight union flat seal FM 15xR3/4
4802776	VSH XPress Copper straight union flat seal FF 22xRp3/4	4802611	VSH XPress Copper straight union flat seal FM 18xR1/2
4802798	VSH XPress Copper straight union flat seal FF 28xRp1	4802622	VSH XPress Copper straight union flat seal FM 18xR3/4
4805559	VSH XPress Copper straight union flat seal FF 28xRp3/4	4802655	VSH XPress Copper straight union flat seal FM 22xR1
4802809	VSH XPress Copper straight union flat seal FF 35xRp1 1/4	4802633	VSH XPress Copper straight union flat seal FM 22xR1/2
4802811	VSH XPress Copper straight union flat seal FF 42xRp1 1/2	4802644	VSH XPress Copper straight union flat seal FM 22xR3/4
4802820	VSH XPress Copper straight union flat seal FF 54xRp2	4802666	VSH XPress Copper straight union flat seal FM 28xR1
		4805561	VSH XPress Copper straight union flat seal FM 28xR3/4
4800125	VSH XPress Copper slip coupling FF 15	4802677	VSH XPress Copper straight union flat seal FM 35xR1 1/4
4800136	VSH XPress Copper slip coupling FF 18	4802688	VSH XPress Copper straight union flat seal FM 42xR1 1/2
4800147	VSH XPress Copper slip coupling FF 22	4802699	VSH XPress Copper straight union flat seal FM 54xR2
4800158	VSH XPress Copper slip coupling FF 28		
4800169	VSH XPress Copper slip coupling FF 35		
4800171	VSH XPress Copper slip coupling FF 42		
4800180	VSH XPress Copper slip coupling FF 54		
4800818	VSH XPress Copper crossover FF 15	4803348	VSH XPress Copper straight union FF 15
4800829	VSH XPress Copper crossover FF 18	4803359	VSH XPress Copper straight union FF 18
4800831	VSH XPress Copper crossover FF 22	4803361	VSH XPress Copper straight union FF 22
		4803370	VSH XPress Copper straight union FF 28
4800840	VSH XPress Copper crossover FØ 15xØ15	4803381	VSH XPress Copper straight union FF 35
4800851	VSH XPress Copper crossover FØ 18xØ18	4803392	VSH XPress Copper straight union FF 42
4800862	VSH XPress Copper crossover FØ 22xØ22	4803403	VSH XPress Copper straight union FF 54

VSH XPress fittings

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4800785	VSH XPress Copper crossover ØØ 15x15	4800235	VSH XPress Copper coupling with nut FF 15xG3/4
4800796	VSH XPress Copper crossover ØØ 18x18	4800246	VSH XPress Copper coupling with nut FF 18xG3/4
4800807	VSH XPress Copper crossover ØØ 22x22	4800257	VSH XPress Copper coupling with nut FF 22xG1
4805504	VSH XPress Copper pipe bend 90° ØØ 15	4800268	VSH XPress Copper coupling with nut FF 28xG1 1/4
4805526	VSH XPress Copper pipe bend 90° ØØ 22	4800279	VSH XPress Copper coupling with nut FF 35xG1 1/2
4805537	VSH XPress Copper pipe bend 90° ØØ 28	4800281	VSH XPress Copper coupling with nut FF 42xG1 3/4
		4800290	VSH XPress Copper coupling with nut FF 54xG2 3/8
4807506	VSH XPress Copper double wall plate FF 12xRp3/8 dist.holes 120mm		
4807517	VSH XPress Copper double wall plate FF 15xRp1/2 ctc dist. 153mm		

## VSH XPress fittings

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### Fitness for contact with drinking water

This product is approved on the basis of the requirements for hygienic aspects set in the "Regeling materialen en chemicaliën drink- en warm tapwatervoorziening" ("Materials and chemicals in the supply of drinking water and warm tap water Regulation" dated 01-07-2017; published in the Government Gazette).

These hygienic aspects are based on two main criteria. The product shall permanently comply with:

- The product recipe approved during the assessment procedure. This recipe is not to be changed without prior approval by Kiwa according to the Kiwa approval procedure for the hygienic aspects;
- Specific product requirements for the hygienic aspects.

The recipe and specific product requirements are laid down in the for confidentiality reasons undisclosed 'appendix hygienic aspects' to this certificate.

### MARKING

The Kiwa®-mark products are marked with the word mark "KIWA  or, on very small fittings only, the abbreviated word mark  or  or

. The fittings shall be provided with at least the following marks:

- markings as mentioned above;
- manufacturer's name, trade name; product name or logo;
- nominal diameter.

Compulsory specifications:

The marking can also be applied on the package. The smallest packaging unit of the fittings (maximum of 20 pieces per package) must be provided with at least the following information:

- the word mark "KIWA ";
- manufacturer's name or trade name;
- nominal diameter.

The package shall be completely sealed and protected against the penetration of moisture.

Method of marking:

- Non-erasable;
- visible after assembly.

### APPLICATION AND USE

The products are suitable for use as restrained connectors and fittings in potable water installations with a maximum nominal pressure of 1000 kPa and a maximum temperature of 90°C.

The connections can be made with stainless steel tubes according to KIWA evaluation guideline BRL K762 and/or copper tubes according to KIWA evaluation guideline BRL-K760 in the quality "half-hard" and "hard".

The press fittings are not allowed to be welded, soldered or brazed. They are only to be tightened with compression tools as recommended by the manufacturer (type of compression tool and profile).

### RECOMMENDATIONS FOR CUSTOMERS

Check at the time of delivery whether:

- the supplier has delivered in accordance with the agreement;
- the mark and the marking method are correct;
- the products show no visible defects as a result of transport etc.

If you should reject a product on the basis of the above, please contact:

- Aalberts integrated piping systems B.V.

and, if necessary,

- Kiwa Nederland B.V.

Consult the supplier's processing guidelines for the proper storage and transport methods.