

## embodied carbon declaration

EC0002-E: 04/24

### embodied carbon declaration for VSH XPress

Measuring our carbon emissions is the first step on the path to reducing them. As manufacturers of integrated piping systems, disclosing the embodied carbon of our products is key for achieving credible full life cycle assessments of the systems and buildings we help build.

The embodied carbon of a product includes all emissions released during making, installing and end-of-life disposal. This excludes any emissions produced during its use and any benefits of potential reuse, recovery or recycling of materials at the end of its life. In the case of Aalberts IPS products, most emissions originate from the raw materials used to make them. This report does not include embodied carbon of packaging.

The table below shows the embodied carbon of our products calculated using **CIBSE TM65\***. The total embodied carbon is reported in **kgCO2e**: kg of carbon dioxide equivalents. This shows the impact of all greenhouse gas emissions as if they were CO2 to allow for unified reporting.

While we conduct further investigation into our supply chains, we are choosing to calculate embodied carbon by using industry average values for the percentage of recycled content in our raw materials.



#### VSH XPress

VSH XPress is a press-fit jointing system, manufactured from copper, stainless steel, and carbon steel in sizes from 15-159mm.

A press-fit tool is used to compress fittings onto tube avoiding the need for solder, adhesives, or additional jointing materials.

It is ideal for use across a broad spectrum of applications and completed joints provide electrical continuity.

## copper

XPress copper fittings are manufactured from copper and copper alloy, designed for jointing copper tubes to BS EN 1057 in sizes from 15-108mm. They are designed for use in potable water applications, hot and cold water services, and in heating and chilling water applications.

The fittings are guaranteed for 25 years against manufacturing defects, hold full BSI Kitemark Certification and are WRAS and DVGW approved.

VSH XPress copper fittings have a leak before press feature. This ensures any fittings that have been mistakenly left un-pressed are picked up during system testing.

code	name	type	size	total embodied carbon (kgCO2e)*
38180	VSH XPress Copper straight union FF	6330	15	<b>0.736</b>
38179	VSH XPress Copper straight union FF	6330	18	<b>0.729</b>
38181	VSH XPress Copper straight union FF	6330	22	<b>1.092</b>
38182	VSH XPress Copper straight union FF	6330	28	<b>1.711</b>
38183	VSH XPress Copper straight union FF	6330	35	<b>2.020</b>
38184	VSH XPress Copper straight union FF	6330	42	<b>2.819</b>
38185	VSH XPress Copper straight union FF	6330	54	<b>4.494</b>
38235	VSH XPress Copper coupling with nut FF	6359	15xG $\frac{3}{4}$	<b>0.350</b>
38237	VSH XPress Copper coupling with nut FF	6359	18xG $\frac{3}{4}$	<b>0.410</b>
38238	VSH XPress Copper coupling with nut FF	6359	22xG1	<b>0.535</b>
38239	VSH XPress Copper coupling with nut FF	6359	28xG1 $\frac{1}{4}$	<b>0.851</b>
38242	VSH XPress Copper coupling with nut FF	6359	35xG1 $\frac{1}{2}$	<b>1.039</b>
38243	VSH XPress Copper coupling with nut FF	6359	42xG1 $\frac{3}{4}$	<b>1.397</b>
38244	VSH XPress Copper coupling with nut FF	6359	54xG2 $\frac{3}{8}$	<b>2.637</b>
38390	VSH XPress Copper pipe bend 90	7005	15	<b>0.458</b>
38392	VSH XPress Copper pipe bend 90	7005	22	<b>0.623</b>
38393	VSH XPress Copper pipe bend 90	7005	28	<b>0.884</b>
38432A	VSH XPress Copper elbow 45 F	7040	108x108	<b>7.885</b>
38402	VSH XPress Copper elbow 45 F	7040	12x12	<b>0.124</b>
38404	VSH XPress Copper elbow 45 F	7040	15x15	<b>0.174</b>
38403	VSH XPress Copper elbow 45 F	7040	18x18	<b>0.220</b>
38405	VSH XPress Copper elbow 45 F	7040	22x22	<b>0.312</b>
38406	VSH XPress Copper elbow 45 F	7040	28x28	<b>0.449</b>
38407	VSH XPress Copper elbow 45 F	7040	35x35	<b>0.655</b>
38408	VSH XPress Copper elbow 45 F	7040	42x42	<b>0.981</b>
38409	VSH XPress Copper elbow 45 F	7040	54x54	<b>1.448</b>
38430	VSH XPress Copper elbow 45 F	7040	66.7x66.7	<b>3.391</b>
38431	VSH XPress Copper elbow 45 F	7040	76.1x76.1	<b>4.583</b>
38433	VSH XPress Copper elbow 45 F	7040	88.9x88.9	<b>6.873</b>
38411	VSH XPress Copper elbow 45 FF	7041	12	<b>0.115</b>
38410	VSH XPress Copper elbow 45 FF	7041	15	<b>0.179</b>
38413	VSH XPress Copper elbow 45 FF	7041	18	<b>0.234</b>
38412	VSH XPress Copper elbow 45 FF	7041	22	<b>0.298</b>
38414	VSH XPress Copper elbow 45 FF	7041	28	<b>0.431</b>
38416	VSH XPress Copper elbow 45 FF	7041	35	<b>0.610</b>
38417	VSH XPress Copper elbow 45 FF	7041	42	<b>0.940</b>

38418	VSH XPress Copper elbow 45 FF	7041	54	<b>1.330</b>
38419	VSH XPress Copper elbow 45 FF	7041	66.7	<b>2.985</b>
38420	VSH XPress Copper elbow 45 FF	7041	76.1	<b>3.894</b>
38422	VSH XPress Copper elbow 45 FF	7041	88.9	<b>5.603</b>
38421	VSH XPress Copper elbow 45 FF	7041	108	<b>9.632</b>
38440	VSH XPress Copper crossover FF	7085	15	<b>0.431</b>
38442	VSH XPress Copper crossover FF	7085	18	<b>0.426</b>
38441	VSH XPress Copper crossover FF	7085	22	<b>0.765</b>
38435	VSH XPress Copper crossover F	7086	15x15	<b>0.312</b>
38437	VSH XPress Copper crossover F	7086	18x18	<b>0.403</b>
38436	VSH XPress Copper crossover F	7086	22x22	<b>0.573</b>
38438	VSH XPress Copper crossover x	7087	15	<b>0.321</b>
38434	VSH XPress Copper crossover x	7087	18	<b>0.398</b>
38439	VSH XPress Copper crossover x	7087	22	<b>0.536</b>
38555A	VSH XPress Copper T-piece reduced FFF	7125	108x108x54	<b>11.007</b>
38565A	VSH XPress Copper T-piece reduced FFF	7125	108x108x66.7	<b>11.809</b>
38557A	VSH XPress Copper T-piece reduced FFF	7125	108x108x76.1	<b>11.833</b>
38488	VSH XPress Copper T-piece reduced FFF	7125	15x15x12	<b>0.376</b>
38452	VSH XPress Copper T-piece reduced FFF	7125	18x18x12	<b>0.427</b>
38454	VSH XPress Copper T-piece reduced FFF	7125	18x18x15	<b>0.445</b>
38491	VSH XPress Copper T-piece reduced FFF	7125	22x22x12	<b>0.642</b>
38490	VSH XPress Copper T-piece reduced FFF	7125	22x22x15	<b>0.454</b>
38535	VSH XPress Copper T-piece reduced FFF	7125	22x22x18	<b>0.477</b>
38493	VSH XPress Copper T-piece reduced FFF	7125	28x28x12	<b>0.807</b>
38492	VSH XPress Copper T-piece reduced FFF	7125	28x28x15	<b>0.537</b>
38538	VSH XPress Copper T-piece reduced FFF	7125	28x28x18	<b>0.546</b>
38494	VSH XPress Copper T-piece reduced FFF	7125	28x28x22	<b>0.550</b>
38496	VSH XPress Copper T-piece reduced FFF	7125	35x35x15	<b>0.803</b>
38497	VSH XPress Copper T-piece reduced FFF	7125	35x35x22	<b>0.761</b>
38498	VSH XPress Copper T-piece reduced FFF	7125	35x35x28	<b>0.858</b>
38499	VSH XPress Copper T-piece reduced FFF	7125	42x42x15	<b>1.302</b>
38500	VSH XPress Copper T-piece reduced FFF	7125	42x42x22	<b>1.421</b>
38501	VSH XPress Copper T-piece reduced FFF	7125	42x42x28	<b>1.765</b>
38502	VSH XPress Copper T-piece reduced FFF	7125	42x42x35	<b>1.541</b>
38504	VSH XPress Copper T-piece reduced FFF	7125	54x54x22	<b>2.049</b>
38505	VSH XPress Copper T-piece reduced FFF	7125	54x54x28	<b>1.989</b>
38506	VSH XPress Copper T-piece reduced FFF	7125	54x54x35	<b>2.086</b>
38507	VSH XPress Copper T-piece reduced FFF	7125	54x54x42	<b>2.590</b>
38550	VSH XPress Copper T-piece reduced FFF	7125	66.7x66.7x28	<b>3.892</b>
38560	VSH XPress Copper T-piece reduced FFF	7125	66.7x66.7x35	<b>3.736</b>
38561	VSH XPress Copper T-piece reduced FFF	7125	66.7x66.7x42	<b>4.172</b>
38562	VSH XPress Copper T-piece reduced FFF	7125	66.7x66.7x54	<b>4.259</b>
38563	VSH XPress Copper T-piece reduced FFF	7125	76.1x76.1x22	<b>5.103</b>
38564	VSH XPress Copper T-piece reduced FFF	7125	76.1x76.1x28	<b>5.076</b>
38553	VSH XPress Copper T-piece reduced FFF	7125	76.1x76.1x35	<b>5.227</b>
38551	VSH XPress Copper T-piece reduced FFF	7125	76.1x76.1x42	<b>5.543</b>
38552	VSH XPress Copper T-piece reduced FFF	7125	76.1x76.1x54	<b>5.850</b>

38554A	VSH XPress Copper T-piece reduced FFF	7125	88.9x88.9x54	<b>8.938</b>
38556A	VSH XPress Copper T-piece reduced FFF	7125	88.9x88.9x76.1	<b>9.787</b>
38508	VSH XPress Copper T-piece reduced FFF	7126	15x12x15	<b>0.363</b>
38455	VSH XPress Copper T-piece reduced FFF	7126	18x15x18	<b>0.440</b>
38510	VSH XPress Copper T-piece reduced FFF	7126	22x15x22	<b>0.614</b>
38511	VSH XPress Copper T-piece reduced FFF	7126	22x18x22	<b>0.628</b>
38512	VSH XPress Copper T-piece reduced FFF	7126	28x15x28	<b>0.578</b>
38514	VSH XPress Copper T-piece reduced FFF	7126	28x22x28	<b>0.578</b>
38517	VSH XPress Copper T-piece reduced FFF	7126	35x22x35	<b>1.320</b>
38518	VSH XPress Copper T-piece reduced FFF	7126	35x28x35	<b>1.297</b>
38527	VSH XPress Copper T-piece reduced FFF	7127	15x12x12	<b>0.381</b>
38453	VSH XPress Copper T-piece reduced FFF	7127	18x15x15	<b>0.463</b>
38530	VSH XPress Copper T-piece reduced FFF	7127	22x15x15	<b>0.624</b>
38533	VSH XPress Copper T-piece reduced FFF	7127	22x15x18	<b>0.592</b>
38531	VSH XPress Copper T-piece reduced FFF	7127	22x18x15	<b>0.559</b>
38534	VSH XPress Copper T-piece reduced FFF	7127	22x18x18	<b>0.619</b>
38536	VSH XPress Copper T-piece reduced FFF	7127	28x22x15	<b>0.834</b>
38529	VSH XPress Copper T-piece reduced FFF	7127	28x22x18	<b>0.798</b>
38532	VSH XPress Copper T-piece reduced FFF	7127	28x22x22	<b>0.592</b>
38539	VSH XPress Copper T-piece reduced FFF	7127	35x22x22	<b>1.160</b>
38541	VSH XPress Copper T-piece reduced FFF	7127	35x28x22	<b>1.320</b>
38542	VSH XPress Copper T-piece reduced FFF	7127	35x28x28	<b>1.338</b>
38546	VSH XPress Copper T-piece reduced FFF	7127	42x35x35	<b>1.655</b>
38566	VSH XPress Copper T-piece reduced FFF	7127	54x42x42	<b>2.855</b>
38447	VSH XPress Copper T-piece reduced FFF	7128	12x12x15	<b>0.363</b>
38547	VSH XPress Copper T-piece reduced FFF	7128	15x15x18	<b>0.417</b>
38545	VSH XPress Copper T-piece reduced FFF	7128	15x15x22	<b>0.500</b>
38548	VSH XPress Copper T-piece reduced FFF	7128	22x22x28	<b>0.871</b>
38549	VSH XPress Copper T-piece reduced FFF	7128	28x28x35	<b>1.467</b>
38472	VSH XPress Copper T-piece FFF	7130	12	<b>0.285</b>
38450	VSH XPress Copper T-piece FFF	7130	15	<b>0.363</b>
38451	VSH XPress Copper T-piece FFF	7130	18	<b>0.454</b>
38460	VSH XPress Copper T-piece FFF	7130	22	<b>0.605</b>
38462	VSH XPress Copper T-piece FFF	7130	28	<b>0.839</b>
38464	VSH XPress Copper T-piece FFF	7130	35	<b>1.265</b>
38466	VSH XPress Copper T-piece FFF	7130	42	<b>1.701</b>
38467	VSH XPress Copper T-piece FFF	7130	54	<b>2.787</b>
38961	VSH XPress Copper T-piece FFF	7130	64	<b>8.753</b>
38468A	VSH XPress Copper T-piece FFF	7130	66.7	<b>6.105</b>
38469A	VSH XPress Copper T-piece FFF	7130	76.1	<b>6.878</b>
38470A	VSH XPress Copper T-piece FFF	7130	88.9	<b>17.322</b>
38471A	VSH XPress Copper T-piece FFF	7130	108	<b>15.850</b>
38063	VSH XPress Copper reducer FF	7240	15x12	<b>0.138</b>
38061	VSH XPress Copper reducer FF	7240	16x15	<b>0.161</b>
38064	VSH XPress Copper reducer FF	7240	22x15	<b>0.220</b>
38065	VSH XPress Copper reducer FF	7240	28x15	<b>0.326</b>
38066	VSH XPress Copper reducer FF	7240	28x22	<b>0.307</b>

38067	VSH XPress Copper reducer FF	7240	35x28	<b>0.427</b>
38068	VSH XPress Copper reducer FF	7240	42x35	<b>0.674</b>
38069	VSH XPress Copper reducer FF	7240	54x42	<b>0.940</b>
38228	VSH XPress Copper reducer F	7243	108x42	<b>4.278</b>
38229	VSH XPress Copper reducer F	7243	108x54	<b>4.320</b>
38230	VSH XPress Copper reducer F	7243	108x66.7	<b>4.806</b>
38231	VSH XPress Copper reducer F	7243	108x76.1	<b>5.018</b>
38232	VSH XPress Copper reducer F	7243	108x88.9	<b>5.307</b>
38193	VSH XPress Copper reducer F	7243	15x12	<b>0.128</b>
38196	VSH XPress Copper reducer F	7243	18x12	<b>1.191</b>
38197	VSH XPress Copper reducer F	7243	18x15	<b>0.138</b>
38200	VSH XPress Copper reducer F	7243	22x15	<b>0.161</b>
38201	VSH XPress Copper reducer F	7243	22x18	<b>0.179</b>
38202	VSH XPress Copper reducer F	7243	28x15	<b>0.243</b>
38203	VSH XPress Copper reducer F	7243	28x18	<b>0.257</b>
38204	VSH XPress Copper reducer F	7243	28x22	<b>0.266</b>
38207	VSH XPress Copper reducer F	7243	35x22	<b>0.339</b>
38208	VSH XPress Copper reducer F	7243	35x28	<b>0.362</b>
38210	VSH XPress Copper reducer F	7243	42x22	<b>0.499</b>
38211	VSH XPress Copper reducer F	7243	42x28	<b>0.536</b>
38212	VSH XPress Copper reducer F	7243	42x35	<b>0.504</b>
38215	VSH XPress Copper reducer F	7243	54x28	<b>0.806</b>
38216	VSH XPress Copper reducer F	7243	54x35	<b>0.710</b>
38217	VSH XPress Copper reducer F	7243	54x42	<b>0.848</b>
38967A	VSH XPress Copper reducer F	7243	64x54	<b>0.917</b>
38218	VSH XPress Copper reducer F	7243	66.7x28	<b>1.484</b>
38219	VSH XPress Copper reducer F	7243	66.7x35	<b>1.466</b>
38220	VSH XPress Copper reducer F	7243	66.7x42	<b>1.466</b>
38221	VSH XPress Copper reducer F	7243	66.7x54	<b>1.283</b>
38222	VSH XPress Copper reducer F	7243	76.1x35	<b>1.942</b>
38223	VSH XPress Copper reducer F	7243	76.1x42	<b>1.901</b>
38224	VSH XPress Copper reducer F	7243	76.1x54	<b>1.988</b>
38225	VSH XPress Copper reducer F	7243	76.1x66.7	<b>2.337</b>
38233	VSH XPress Copper reducer F	7243	88.9x42	<b>2.726</b>
38226	VSH XPress Copper reducer F	7243	88.9x54	<b>2.781</b>
38227	VSH XPress Copper reducer F	7243	88.9x76.1	<b>3.442</b>
38009	VSH XPress Copper straight coupling FF	7270	12	<b>0.110</b>
38010	VSH XPress Copper straight coupling FF	7270	15	<b>0.147</b>
38011	VSH XPress Copper straight coupling FF	7270	18	<b>0.175</b>
38020	VSH XPress Copper straight coupling FF	7270	22	<b>0.225</b>
38030	VSH XPress Copper straight coupling FF	7270	28	<b>0.294</b>
38032	VSH XPress Copper straight coupling FF	7270	35	<b>0.395</b>
38034	VSH XPress Copper straight coupling FF	7270	42	<b>0.633</b>
38035	VSH XPress Copper straight coupling FF	7270	54	<b>0.954</b>
38970	VSH XPress Copper straight coupling FF	7270	64	<b>3.576</b>
38036	VSH XPress Copper straight coupling FF	7270	66.7	<b>1.996</b>
38037	VSH XPress Copper straight coupling FF	7270	76.1	<b>2.680</b>

38039	VSH XPress Copper straight coupling FF	7270	88.9	<b>4.174</b>
38038	VSH XPress Copper straight coupling FF	7270	108	<b>5.799</b>
38702	VSH XPress Copper stop end F	7301	12	<b>0.069</b>
38695	VSH XPress Copper stop end F	7301	15	<b>0.092</b>
38696	VSH XPress Copper stop end F	7301	18	<b>0.092</b>
38697	VSH XPress Copper stop end F	7301	22	<b>0.151</b>
38698	VSH XPress Copper stop end F	7301	28	<b>0.202</b>
38699	VSH XPress Copper stop end F	7301	35	<b>0.312</b>
38700	VSH XPress Copper stop end F	7301	42	<b>0.417</b>
38701	VSH XPress Copper stop end F	7301	54	<b>0.674</b>
38691	VSH XPress Copper stop end F	7301	66.7	<b>2.145</b>
38692	VSH XPress Copper stop end F	7301	76.1	<b>2.384</b>
38693	VSH XPress Copper stop end F	7301	88.9	<b>3.475</b>
38694	VSH XPress Copper stop end F	7301	108	<b>5.008</b>
38346	VSH XPress Copper angle adapter 90 FF	6090G	12xRp <sup>3</sup> / <sub>8</sub>	<b>0.352</b>
38345	VSH XPress Copper angle adapter 90 FF	6090G	12xRp <sup>1</sup> / <sub>2</sub>	<b>0.386</b>
38347	VSH XPress Copper angle adapter 90 FF	6090G	15xRp <sup>3</sup> / <sub>8</sub>	<b>0.386</b>
38375	VSH XPress Copper angle adapter 90 FF (Mk2)	6090G	15xRp <sup>1</sup> / <sub>2</sub>	<b>0.568</b>
38351	VSH XPress Copper angle adapter 90 FF	6090G	15xRp <sup>1</sup> / <sub>2</sub>	<b>0.540</b>
38344	VSH XPress Copper angle adapter 90 FF	6090G	15xRp <sup>3</sup> / <sub>4</sub>	<b>0.606</b>
38348	VSH XPress Copper angle adapter 90 FF	6090G	18xRp <sup>1</sup> / <sub>2</sub>	<b>0.512</b>
38349	VSH XPress Copper angle adapter 90 FF	6090G	18xRp <sup>3</sup> / <sub>4</sub>	<b>0.678</b>
38350	VSH XPress Copper angle adapter 90 FF	6090G	22xRp <sup>1</sup> / <sub>2</sub>	<b>0.728</b>
38353	VSH XPress Copper angle adapter 90 FF	6090G	22xRp <sup>3</sup> / <sub>4</sub>	<b>0.639</b>
38354	VSH XPress Copper angle adapter 90 FF	6090G	28xRp1	<b>1.158</b>
38355	VSH XPress Copper angle adapter 90 FF	6090G	35xRp1 1/4	<b>1.963</b>
38356	VSH XPress Copper angle adapter 90 FF	6090G	42xRp1 1/2	<b>2.680</b>
38357	VSH XPress Copper angle adapter 90 FF	6090G	54xRp2	<b>4.225</b>
38370	VSH XPress Copper bend 90 FM	6092G	12xR <sup>1</sup> / <sub>2</sub>	<b>0.369</b>
38339	VSH XPress Copper bend 90 FM	6092G	15xR <sup>3</sup> / <sub>8</sub>	<b>0.375</b>
38333	VSH XPress Copper bend 90 FM	6092G	15xR <sup>1</sup> / <sub>2</sub>	<b>0.424</b>
38340	VSH XPress Copper bend 90 FM	6092G	18xR <sup>1</sup> / <sub>2</sub>	<b>0.529</b>
38372	VSH XPress Copper bend 90 FM	6092G	18xR <sup>3</sup> / <sub>4</sub>	<b>0.568</b>
38334	VSH XPress Copper bend 90 FM	6092G	22xR <sup>3</sup> / <sub>4</sub>	<b>0.750</b>
38335	VSH XPress Copper bend 90 FM	6092G	28xR1	<b>1.373</b>
38336	VSH XPress Copper bend 90 FM	6092G	35xR1 1/4	<b>1.786</b>
38337	VSH XPress Copper bend 90 FM	6092G	42xR1 1/2	<b>2.525</b>
38338	VSH XPress Copper bend 90 FM	6092G	54xR2	<b>3.816</b>
38655	VSH XPress Copper bend 90 FM	6092GC	15xR <sup>1</sup> / <sub>2</sub> Cr	<b>0.424</b>
38790	VSH XPress Copper angle adapter 90 flat seal FF	6096G	12xRp <sup>1</sup> / <sub>2</sub>	<b>0.833</b>
38791	VSH XPress Copper angle adapter 90 flat seal FF	6096G	15xRp <sup>1</sup> / <sub>2</sub>	<b>0.913</b>
38792	VSH XPress Copper angle adapter 90 flat seal FF	6096G	18xRp <sup>1</sup> / <sub>2</sub>	<b>0.934</b>
38793	VSH XPress Copper angle adapter 90 flat seal FF	6096G	18xRp <sup>3</sup> / <sub>4</sub>	<b>1.387</b>
38794	VSH XPress Copper angle adapter 90 flat seal FF	6096G	22xRp <sup>3</sup> / <sub>4</sub>	<b>1.424</b>

38795	VSH XPress Copper angle adapter 90 flat seal FF	6096G	22xRp1	<b>1.705</b>
38796	VSH XPress Copper angle adapter 90 flat seal FF	6096G	28xRp1	<b>2.341</b>
38191	VSH XPress Copper T-piece female thread FFF	6130G	108x108xRp½	<b>12.015</b>
38585	VSH XPress Copper T-piece female thread FFF	6130G	15x15xRp½	<b>0.512</b>
38586	VSH XPress Copper T-piece female thread FFF	6130G	18x18xRp½	<b>0.749</b>
38591	VSH XPress Copper T-piece female thread FFF	6130G	22x22xRp½	<b>0.738</b>
38587	VSH XPress Copper T-piece female thread FFF	6130G	22x22xRp¾	<b>0.854</b>
38592	VSH XPress Copper T-piece female thread FFF	6130G	28x28xRp½	<b>1.173</b>
38593	VSH XPress Copper T-piece female thread FFF	6130G	28x28xRp¾	<b>1.284</b>
38594	VSH XPress Copper T-piece female thread FFF	6130G	35x35xRp½	<b>1.597</b>
38596	VSH XPress Copper T-piece female thread FFF	6130G	42x42xRp½	<b>2.137</b>
38597	VSH XPress Copper T-piece female thread FFF	6130G	54x54xRp½	<b>3.770</b>
38190	VSH XPress Copper T-piece female thread FFF	6130G	76.1x76.1xRp½	<b>7.059</b>
38733	VSH XPress Copper T-piece female thread FFF	6130GC	15x15xRp½ Cr	<b>0.611</b>
38206	VSH XPress Copper Multi-Port FF	6131G	108xRp¾	<b>12.351</b>
38189	VSH XPress Copper Multi-Port FF	6131G	66.7xRp½	<b>5.663</b>
38188	VSH XPress Copper Multi-Port FF	6131G	76.1xRp½	<b>6.777</b>
38192	VSH XPress Copper Multi-Port FF	6131G	88.9xRp¾	<b>9.725</b>
38124	VSH XPress Copper straight connector FM	6243G	108xR4	<b>9.426</b>
38105	VSH XPress Copper straight connector FM	6243G	12xR¾	<b>0.176</b>
38106	VSH XPress Copper straight connector FM	6243G	12xR½	<b>0.275</b>
38107	VSH XPress Copper straight connector FM	6243G	15xR¾	<b>0.192</b>
38114	VSH XPress Copper straight connector FM	6243G	15xR½	<b>0.253</b>
38115	VSH XPress Copper straight connector FM	6243G	15xR¾	<b>0.341</b>
38108	VSH XPress Copper straight connector FM	6243G	18xR½	<b>0.275</b>
38109	VSH XPress Copper straight connector FM	6243G	18xR¾	<b>0.397</b>
38110	VSH XPress Copper straight connector FM	6243G	22xR½	<b>0.446</b>
38116	VSH XPress Copper straight connector FM	6243G	22xR¾	<b>0.408</b>
38117	VSH XPress Copper straight connector FM	6243G	22xR1	<b>0.518</b>
38111	VSH XPress Copper straight connector FM	6243G	28xR¾	<b>0.523</b>
38118	VSH XPress Copper straight connector FM	6243G	28xR1	<b>0.590</b>
38127	VSH XPress Copper straight connector FM	6243G	28xR1 ¼	<b>0.838</b>
38112	VSH XPress Copper straight connector FM	6243G	35xR1	<b>0.699</b>
38119	VSH XPress Copper straight connector FM	6243G	35xR1 ¼	<b>0.843</b>
38113	VSH XPress Copper straight connector FM	6243G	42xR1 ¼	<b>1.289</b>
38120	VSH XPress Copper straight connector FM	6243G	42xR1 ½	<b>1.217</b>
38121	VSH XPress Copper straight connector FM	6243G	54xR2	<b>1.775</b>
38956	VSH XPress Copper straight connector FM	6243G	64xR2 ½	<b>3.863</b>
38122	VSH XPress Copper straight connector FM	6243G	66.7xR2 ½	<b>4.128</b>
38126	VSH XPress Copper straight connector FM	6243G	76.1xR2 ½	<b>5.014</b>
38123	VSH XPress Copper straight connector FM	6243G	76.1xR3	<b>6.062</b>
38125	VSH XPress Copper straight connector FM	6243G	88.9xR3	<b>8.057</b>

38627	VSH XPress Copper straight connector FM	6243GC	12xR <sup>3</sup> / <sub>8</sub> Cr	<b>0.176</b>
38628	VSH XPress Copper straight connector FM	6243GC	12xR <sup>1</sup> / <sub>2</sub> Cr	<b>0.275</b>
38629	VSH XPress Copper straight connector FM	6243GC	15xR <sup>3</sup> / <sub>8</sub> Cr	<b>0.192</b>
38630	VSH XPress Copper straight connector FM	6243GC	15xR <sup>1</sup> / <sub>2</sub> Cr	<b>0.253</b>
38160	VSH XPress Copper straight connector F	6246G	15xRp <sup>1</sup> / <sub>2</sub>	<b>0.243</b>
38157	VSH XPress Copper straight connector F	6246G	18xRp <sup>1</sup> / <sub>2</sub>	<b>0.259</b>
38158	VSH XPress Copper straight connector F	6246G	18xRp <sup>3</sup> / <sub>4</sub>	<b>0.331</b>
38159	VSH XPress Copper straight connector F	6246G	22xRp <sup>1</sup> / <sub>2</sub>	<b>0.292</b>
38161	VSH XPress Copper straight connector F	6246G	22xRp <sup>3</sup> / <sub>4</sub>	<b>0.370</b>
38166	VSH XPress Copper straight connector F	6246G	28xRp <sup>3</sup> / <sub>4</sub>	<b>0.497</b>
38162	VSH XPress Copper straight connector F	6246G	28xRp1	<b>0.530</b>
38167	VSH XPress Copper straight connector F	6246G	35xRp1	<b>0.817</b>
38163	VSH XPress Copper straight connector F	6246G	35xRp1 1/ <sub>4</sub>	<b>0.899</b>
38164	VSH XPress Copper straight connector F	6246G	42xRp1 1/ <sub>2</sub>	<b>1.275</b>
38165	VSH XPress Copper straight connector F	6246G	54xRp2	<b>2.020</b>
38082	VSH XPress Copper straight connector FF	6270G	12xRp <sup>3</sup> / <sub>8</sub>	<b>0.148</b>
38081	VSH XPress Copper straight connector FF	6270G	12xRp <sup>1</sup> / <sub>2</sub>	<b>0.231</b>
38083	VSH XPress Copper straight connector FF	6270G	15xRp <sup>3</sup> / <sub>8</sub>	<b>0.176</b>
38090	VSH XPress Copper straight connector FF	6270G	15xRp <sup>1</sup> / <sub>2</sub>	<b>0.253</b>
38091	VSH XPress Copper straight connector FF	6270G	15xRp <sup>3</sup> / <sub>4</sub>	<b>0.336</b>
38084	VSH XPress Copper straight connector FF	6270G	18xRp <sup>1</sup> / <sub>2</sub>	<b>0.275</b>
38085	VSH XPress Copper straight connector FF	6270G	18xRp <sup>3</sup> / <sub>4</sub>	<b>0.347</b>
38086	VSH XPress Copper straight connector FF	6270G	22xRp <sup>1</sup> / <sub>2</sub>	<b>0.474</b>
38092	VSH XPress Copper straight connector FF	6270G	22xRp <sup>3</sup> / <sub>4</sub>	<b>0.220</b>
38087	VSH XPress Copper straight connector FF	6270G	22xRp1	<b>0.512</b>
38088	VSH XPress Copper straight connector FF	6270G	28xRp <sup>3</sup> / <sub>4</sub>	<b>0.683</b>
38093	VSH XPress Copper straight connector FF	6270G	28xRp1	<b>0.529</b>
38103	VSH XPress Copper straight connector FF	6270G	28xRp1 1/ <sub>4</sub>	<b>0.783</b>
38080	VSH XPress Copper straight connector FF	6270G	35xRp <sup>3</sup> / <sub>4</sub>	<b>0.440</b>
38089	VSH XPress Copper straight connector FF	6270G	35xRp1	<b>0.815</b>
38094	VSH XPress Copper straight connector FF	6270G	35xRp1 1/ <sub>4</sub>	<b>0.766</b>
38101	VSH XPress Copper straight connector FF	6270G	42xRp1 1/ <sub>4</sub>	<b>0.886</b>
38095	VSH XPress Copper straight connector FF	6270G	42xRp1 1/ <sub>2</sub>	<b>1.184</b>
38096	VSH XPress Copper straight connector FF	6270G	54xRp2	<b>1.714</b>
38954	VSH XPress Copper straight connector FF	6270G	64xRp2 1/ <sub>2</sub>	<b>3.582</b>
38619	VSH XPress Copper straight connector FF	6270GC	12xRp <sup>3</sup> / <sub>8</sub> Cr	<b>0.148</b>
38620	VSH XPress Copper straight connector FF	6270GC	12xRp <sup>1</sup> / <sub>2</sub> Cr	<b>0.231</b>
38621	VSH XPress Copper straight connector FF	6270GC	15xRp <sup>3</sup> / <sub>8</sub> Cr	<b>0.176</b>
38622	VSH XPress Copper straight connector FF	6270GC	15xRp <sup>1</sup> / <sub>2</sub> Cr	<b>0.253</b>
38170	VSH XPress Copper straight connector M	6280G	15xR <sup>1</sup> / <sub>2</sub>	<b>0.303</b>
38173	VSH XPress Copper straight connector M	6280G	18xR <sup>1</sup> / <sub>2</sub>	<b>0.226</b>
38174	VSH XPress Copper straight connector M	6280G	18xR <sup>3</sup> / <sub>4</sub>	<b>0.486</b>
38175	VSH XPress Copper straight connector M	6280G	22xR <sup>1</sup> / <sub>2</sub>	<b>0.375</b>
38171	VSH XPress Copper straight connector M	6280G	22xR <sup>3</sup> / <sub>4</sub>	<b>0.430</b>
38172	VSH XPress Copper straight connector M	6280G	28xR1	<b>0.640</b>
38176	VSH XPress Copper straight connector M	6280G	35xR1 1/ <sub>4</sub>	<b>1.070</b>
38177	VSH XPress Copper straight connector M	6280G	42xR1 1/ <sub>2</sub>	<b>1.600</b>

38828	VSH XPress Copper straight union flat seal FF	6330G	12xRp½	<b>0.480</b>
38833	VSH XPress Copper straight union flat seal FF	6330G	15xRp½	<b>0.538</b>
38829	VSH XPress Copper straight union flat seal FF	6330G	15xRp¾	<b>0.687</b>
38830	VSH XPress Copper straight union flat seal FF	6330G	18xRp½	<b>0.553</b>
38831	VSH XPress Copper straight union flat seal FF	6330G	18xRp¾	<b>0.829</b>
38834	VSH XPress Copper straight union flat seal FF	6330G	22xRp¾	<b>0.960</b>
38832	VSH XPress Copper straight union flat seal FF	6330G	22xRp1	<b>1.115</b>
38827	VSH XPress Copper straight union flat seal FF	6330G	28xRp¾	<b>1.397</b>
38835	VSH XPress Copper straight union flat seal FF	6330G	28xRp1	<b>1.386</b>
38836	VSH XPress Copper straight union flat seal FF	6330G	35xRp1 ¼	<b>1.949</b>
38837	VSH XPress Copper straight union flat seal FF	6330G	42xRp1 ½	<b>2.727</b>
38838	VSH XPress Copper straight union flat seal FF	6330G	54xRp2	<b>4.027</b>
38807	VSH XPress Copper straight union flat seal FM	6331G	12xR¾	<b>0.369</b>
38808	VSH XPress Copper straight union flat seal FM	6331G	12xR½	<b>0.629</b>
38813	VSH XPress Copper straight union flat seal FM	6331G	15xR½	<b>0.659</b>
38809	VSH XPress Copper straight union flat seal FM	6331G	15xR¾	<b>0.770</b>
38810	VSH XPress Copper straight union flat seal FM	6331G	18xR½	<b>0.675</b>
38811	VSH XPress Copper straight union flat seal FM	6331G	18xR¾	<b>0.780</b>
38812	VSH XPress Copper straight union flat seal FM	6331G	22xR½	<b>1.054</b>
38814	VSH XPress Copper straight union flat seal FM	6331G	22xR¾	<b>1.098</b>
38815	VSH XPress Copper straight union flat seal FM	6331G	22xR1	<b>1.369</b>
38820	VSH XPress Copper straight union flat seal FM	6331G	28xR¾	<b>1.728</b>
38816	VSH XPress Copper straight union flat seal FM	6331G	28xR1	<b>1.741</b>
38817	VSH XPress Copper straight union flat seal FM	6331G	35xR1 ¼	<b>2.153</b>
38818	VSH XPress Copper straight union flat seal FM	6331G	42xR1 ½	<b>3.130</b>
38819	VSH XPress Copper straight union flat seal FM	6331G	54xR2	<b>4.683</b>
38742	VSH XPress Copper coupling with nut FF	6359C	15xG¾ Cr	<b>0.372</b>
38397	VSH XPress Copper wall plate on bracket 90 FF	6472G	12xRp½	<b>0.496</b>
38400	VSH XPress Copper wall plate on bracket 90 FF	6472G	15xRp½	<b>0.496</b>
38398	VSH XPress Copper wall plate on bracket 90 FF	6472G	18xRp½	<b>0.645</b>
38401	VSH XPress Copper wall plate on bracket 90 FF	6472G	22xRp¾	<b>0.761</b>
38399	VSH XPress Copper wall plate on bracket long 90 FF	6472L	15xRp½	<b>0.915</b>
38330A	VSH XPress Copper elbow 90 F	7001A	108x108	<b>10.404</b>
38317	VSH XPress Copper elbow 90 F	7001A	12x12	<b>0.147</b>

38318	VSH XPress Copper elbow 90 F	7001A	15x15	<b>0.202</b>
38319	VSH XPress Copper elbow 90 F	7001A	18x18	<b>0.266</b>
38320	VSH XPress Copper elbow 90 F	7001A	22x22	<b>0.353</b>
38322	VSH XPress Copper elbow 90 F	7001A	28x28	<b>0.536</b>
38324	VSH XPress Copper elbow 90 F	7001A	35x35	<b>0.880</b>
38325	VSH XPress Copper elbow 90 F	7001A	42x42	<b>1.237</b>
38326	VSH XPress Copper elbow 90 F	7001A	54x54	<b>1.920</b>
38327A	VSH XPress Copper elbow 90 F	7001A	66.7x66.7	<b>3.670</b>
38328	VSH XPress Copper elbow 90 F	7001A	76.1x76.1	<b>5.109</b>
38329	VSH XPress Copper elbow 90 F	7001A	88.9x88.9	<b>7.377</b>
38649	VSH XPress Copper elbow 90 F	7001AC	12x12 Cr	<b>0.147</b>
38650	VSH XPress Copper elbow 90 F	7001AC	15x15 Cr	<b>0.211</b>
38651	VSH XPress Copper elbow 90 F	7001AC	22x22 Cr	<b>0.367</b>
38279	VSH XPress Copper elbow 90 FF	7002A	12	<b>0.142</b>
38280	VSH XPress Copper elbow 90 FF	7002A	15	<b>0.207</b>
38282	VSH XPress Copper elbow 90 FF	7002A	18	<b>0.284</b>
38290	VSH XPress Copper elbow 90 FF	7002A	22	<b>0.367</b>
38300	VSH XPress Copper elbow 90 FF	7002A	28	<b>0.546</b>
38302	VSH XPress Copper elbow 90 FF	7002A	35	<b>0.798</b>
38304	VSH XPress Copper elbow 90 FF	7002A	42	<b>1.142</b>
38306	VSH XPress Copper elbow 90 FF	7002A	54	<b>1.783</b>
38958	VSH XPress Copper elbow 90 FF	7002A	64	<b>3.713</b>
38307	VSH XPress Copper elbow 90 FF	7002A	66.7	<b>3.800</b>
38308	VSH XPress Copper elbow 90 FF	7002A	76.1	<b>5.094</b>
38309	VSH XPress Copper elbow 90 FF	7002A	88.9	<b>8.296</b>
38310	VSH XPress Copper elbow 90 FF	7002A	108	<b>11.285</b>
38645	VSH XPress Copper elbow 90 FF	7002AC	12 Cr	<b>0.142</b>
38646	VSH XPress Copper elbow 90 FF	7002AC	15 Cr	<b>0.207</b>
38647	VSH XPress Copper elbow 90 FF	7002AC	22 Cr	<b>0.367</b>
38311	VSH XPress Copper reduced elbow 90 FF	7002R	22x15	<b>0.330</b>
38671	VSH XPress Copper elbow 45 F	7040C	12x12 Cr	<b>0.119</b>
38672	VSH XPress Copper elbow 45 F	7040C	15x15 Cr	<b>0.174</b>
38667	VSH XPress Copper elbow 45 FF	7041C	12 Cr	<b>0.115</b>
38668	VSH XPress Copper elbow 45 FF	7041C	15 Cr	<b>0.179</b>
38675	VSH XPress Copper crossover F	7086C	15x15 Cr	<b>0.316</b>
38714	VSH XPress Copper T-piece reduced FFF	7125C	15x15x12 Cr	<b>0.376</b>
38715	VSH XPress Copper T-piece reduced FFF	7125C	22x22x15 Cr	<b>0.505</b>
38719	VSH XPress Copper T-piece reduced FFF	7126C	15x12x15 Cr	<b>0.381</b>
38723	VSH XPress Copper T-piece reduced FFF	7127C	15x12x12 Cr	<b>0.385</b>
38710	VSH XPress Copper T-piece FFF	7130C	12 Cr	<b>0.276</b>
38711	VSH XPress Copper T-piece FFF	7130C	15 Cr	<b>0.381</b>
38712	VSH XPress Copper T-piece FFF	7130C	22 Cr	<b>0.550</b>
38616	VSH XPress Copper reducer FF	7240C	15x12 Cr	<b>0.138</b>
38617	VSH XPress Copper reducer FF	7240C	22x15 Cr	<b>0.413</b>
38636	VSH XPress Copper reducer F	7243C	15x12 Cr	<b>0.124</b>
38639	VSH XPress Copper reducer F	7243C	22x15 Cr	<b>0.170</b>
38610	VSH XPress Copper straight coupling FF	7270C	12 Cr	<b>0.101</b>

38611	VSH XPress Copper straight coupling FF	7270C	15 Cr	<b>0.147</b>
38612	VSH XPress Copper straight coupling FF	7270C	22 Cr	<b>0.229</b>
38044	VSH XPress Copper slip coupling FF	7270S	15	<b>0.248</b>
38054	VSH XPress Copper slip coupling FF	7270S	18	<b>0.303</b>
38045	VSH XPress Copper slip coupling FF	7270S	22	<b>0.376</b>
38046	VSH XPress Copper slip coupling FF	7270S	28	<b>0.514</b>
38047	VSH XPress Copper slip coupling FF	7270S	35	<b>0.679</b>
38048	VSH XPress Copper slip coupling FF	7270S	42	<b>0.986</b>
38049	VSH XPress Copper slip coupling FF	7270S	54	<b>1.563</b>
38040	VSH XPress Copper slip coupling FF	7270S	66.7	<b>2.215</b>
38041	VSH XPress Copper slip coupling FF	7270S	76.1	<b>2.726</b>
38042	VSH XPress Copper slip coupling FF	7270S	88.9	<b>3.368</b>
38043	VSH XPress Copper slip coupling FF	7270S	108	<b>5.162</b>
38614	VSH XPress Copper slip coupling FF	7270SC	15 Cr	<b>0.248</b>
38739	VSH XPress Copper stop end F	7301C	15 Cr	<b>0.078</b>
38980	VSH XPress Copper elbow 90 FM	S13K	15xR½	<b>0.430</b>
38686	VSH XPress Copper stop end	S302	35	<b>0.820</b>
38688	VSH XPress Copper stop end	S302	42	<b>1.104</b>
38690	VSH XPress Copper stop end	S302	54	<b>2.070</b>
38642	VSH XPress Copper straight connector M	S8CP	15xR½ Cr	<b>0.303</b>

## stainless

XPress stainless comprises press-fit fittings and stainless steel 316 system tube, available in sizes 15-108mm, the range is designed for use in potable water applications where water quality and hygiene are crucial.

The fittings are guaranteed for 25 years against manufacturing defects and are WRAS and DVGW approved.

VSH XPress stainless fittings have a leak before press feature. Each fitting is individually marked indicating material (green for stainless). Male ended fittings are also pre-marked with the required insertion depth.

For detailed embodied carbon figures please refer to the VSH XPress Stainless EPD:  
[EPD-VSH-XPress-Stainless.pdf \(aalberts-ips.co.uk\)](http://EPD-VSH-XPress-Stainless.pdf (aalberts-ips.co.uk))

If there are specific products that are excluded from the EPD, please reach out to [sustainability.uk@aalberts-ips.com](mailto:sustainability.uk@aalberts-ips.com).

## carbon

XPress carbon incorporates fittings and two carbon steel system tube options, available in sizes 15-108mm, with plastic coated galvanised carbon steel system tube in sizes 15-54mm. The range is designed for use in vented and unvented closed circuit heating and chilled water applications.

The fittings are guaranteed for 10 years against manufacturing defects when installed exclusively with carbon steel system tube.

VSH XPress carbon fittings have a leak before press feature. Each fitting is individually marked indicating material (red for carbon). Male ended fittings are also pre-marked with the required insertion depth.

For detailed embodied carbon figures please refer to the VSH XPress Carbon EPD:  
[EPD-VSH-XPress-Carbon.pdf \(aalberts-ips.co.uk\)](http://EPD-VSH-XPress-Carbon.pdf (aalberts-ips.co.uk))

If there are specific products that are excluded from the EPD, please reach out to sustainability.uk@aalberts-ips.com.

## copper gas

XPress copper gas fittings are manufactured from copper and copper alloy, designed for jointing copper tubes to BS EN 1057 in sizes from 15-108mm. They are designed for external above ground 2<sup>nd</sup> and 3<sup>rd</sup> family gas installation pipework.

The fittings are guaranteed for 25 years against manufacturing defects, hold full BSI Kitemark Certification, are DVGW approved and meet the requirements of section 5(1) of The Gas Safety (Installation and Use) Regulations 1998.

code	name	type	size	total embodied carbon (kgCO2e)*
38367	VSH XPress Copper flange adapter PN10-16 coated F 108 DN100	7510	108xDN100 PN16	<b>25.471</b>
38364	VSH XPress Copper flange adapter PN10-16 coated F 66.7 DN65	7510	66.7xDN65 PN16	<b>19.220</b>
23900	VSH XPress Copper flange adapter EN-AS coated F 66.7 DN65	7510	66.7xDN65 PN16	<b>17.752</b>
38369	VSH XPress Copper flange adapter PN10-16 coated F 76.1 DN65	7510	76.1xDN65 PN16	<b>19.169</b>
23901	VSH XPress Copper flange adapter EN-AS coated F 76.1 DN65	7510	76.1xDN65 PN16	<b>18.371</b>
38365	VSH XPress Copper flange adapter PN10-16 coated F 76.1 DN80	7510	76.1xDN80 PN16	<b>19.903</b>
38366	VSH XPress Copper flange adapter PN10-16 coated F 88.9 DN80	7510	88.9xDN80 PN16	<b>20.113</b>
23902	VSH XPress Copper flange adapter EN-AS coated F 88.9 DN80	7510	88.9xDN80 PN16	<b>20.094</b>
38362	VSH XPress Copper flange adapter PN10-16 coated 108 DN100	7520	108xDN100 PN16	<b>23.696</b>
38359	VSH XPress Copper flange adapter PN10-16 coated 66.7 DN65	7520	66.7xDN65 PN16	<b>17.855</b>
38360	VSH XPress Copper flange adapter PN10-16 coated 76.1 DN80	7520	76.1xDN80 PN16	<b>20.010</b>
39388	VSH XPress Copper Gas T-piece threaded FFF	G6130G	108x108xRp½	<b>11.900</b>
39890	VSH XPress Copper Gas T-piece female thread FFF	G6130G	15x15xRp½	<b>0.640</b>
39891	VSH XPress Copper Gas T-piece female thread FFF	G6130G	18x18xRp½	<b>0.683</b>
39892	VSH XPress Copper Gas T-piece female thread FFF	G6130G	22x22xRp½	<b>0.869</b>
39893	VSH XPress Copper Gas T-piece female thread FFF	G6130G	22x22xRp¾	<b>0.981</b>
39894	VSH XPress Copper Gas T-piece female thread FFF	G6130G	28x28xRp½	<b>1.079</b>
39895	VSH XPress Copper Gas T-piece female thread FFF	G6130G	28x28xRp¾	<b>1.477</b>
39896	VSH XPress Copper Gas T-piece female thread FFF	G6130G	35x35xRp½	<b>1.447</b>
38897	VSH XPress Copper Gas T-piece female thread FFF	G6130G	35x35xRp1	<b>1.486</b>
39898	VSH XPress Copper Gas T-piece female thread FFF	G6130G	42x42xRp½	<b>1.813</b>
39899	VSH XPress Copper Gas T-piece female thread FFF	G6130G	54x54xRp½	<b>2.859</b>

39386	VSH XPress Copper Gas T-piece threaded FFF	G6130G	76.1x76.1xRp½	<b>7.142</b>
39315	VSH XPress Copper Gas straight connector FM	G6243G	108xR4	<b>9.426</b>
39730	VSH XPress Copper Gas straight connector FM	G6243G	15xR½	<b>0.297</b>
39731	VSH XPress Copper Gas straight connector FM	G6243G	15xR¾	<b>0.347</b>
39728	VSH XPress Copper Gas straight connector FM	G6243G	18xR½	<b>0.275</b>
39729	VSH XPress Copper Gas straight connector FM	G6243G	18xR¾	<b>0.446</b>
39732	VSH XPress Copper Gas straight connector FM	G6243G	22xR½	<b>0.452</b>
39733	VSH XPress Copper Gas straight connector FM	G6243G	22xR¾	<b>0.441</b>
39734	VSH XPress Copper Gas straight connector FM	G6243G	22xR1	<b>0.529</b>
39737	VSH XPress Copper Gas straight connector FM	G6243G	28xR¾	<b>0.507</b>
39735	VSH XPress Copper Gas straight connector FM	G6243G	28xR1	<b>0.639</b>
39736	VSH XPress Copper Gas straight connector FM	G6243G	28xR1 ¼	<b>0.843</b>
39738	VSH XPress Copper Gas straight connector FM	G6243G	35xR1	<b>0.859</b>
39739	VSH XPress Copper Gas straight connector FM	G6243G	35xR1 ¼	<b>0.826</b>
39741	VSH XPress Copper Gas straight connector FM	G6243G	42xR1 ¼	<b>1.466</b>
39740	VSH XPress Copper Gas straight connector FM	G6243G	42xR1 ½	<b>1.444</b>
39742	VSH XPress Copper Gas straight connector FM	G6243G	54xR2	<b>1.708</b>
39311	VSH XPress Copper Gas straight connector FM	G6243G	66.7xR2 ½	<b>4.128</b>
39313	VSH XPress Copper Gas straight connector FM	G6243G	76.1xR3	<b>5.902</b>
39720	VSH XPress Copper Gas straight connector FF	G6270G	15xRp½	<b>0.292</b>
39721	VSH XPress Copper Gas straight connector FF	G6270G	15xRp¾	<b>0.369</b>
39716	VSH XPress Copper Gas straight connector FF	G6270G	18xRp½	<b>0.303</b>
39717	VSH XPress Copper Gas straight connector FF	G6270G	18xRp¾	<b>0.391</b>
39722	VSH XPress Copper Gas straight connector FF	G6270G	22xRp½	<b>0.479</b>
39723	VSH XPress Copper Gas straight connector FF	G6270G	22xRp¾	<b>0.391</b>
39724	VSH XPress Copper Gas straight connector FF	G6270G	28xRp1	<b>0.556</b>
39725	VSH XPress Copper Gas straight connector FF	G6270G	35xRp1 ¼	<b>0.915</b>
39726	VSH XPress Copper Gas straight connector FF	G6270G	42xRp1 ½	<b>1.179</b>
39727	VSH XPress Copper Gas straight connector FF	G6270G	54xRp2	<b>1.891</b>
39770	VSH XPress Copper Gas straight union FF	G6340	15	<b>0.995</b>
39771	VSH XPress Copper Gas straight union FF	G6340	22	<b>1.434</b>
39772	VSH XPress Copper Gas straight union FF	G6340	28	<b>1.981</b>
39773	VSH XPress Copper Gas straight union FF	G6340	35	<b>3.068</b>
39774	VSH XPress Copper Gas straight union FF	G6340	42	<b>4.093</b>
39775	VSH XPress Copper Gas straight union FF	G6340	54	<b>6.618</b>

39910	VSH XPress Copper Gas coupling with nut FF	G6360	15xG $\frac{7}{8}$	<b>0.493</b>
39912	VSH XPress Copper Gas coupling with nut FF	G6360	28xG1 $\frac{3}{8}$	<b>1.109</b>
39820	VSH XPress Copper Gas wall plate on bracket 90 FF	G6471G	15xRp $\frac{1}{2}$	<b>0.888</b>
39819	VSH XPress Copper Gas wall plate on bracket 90 FF	G6471G	18xRp $\frac{1}{2}$	<b>0.904</b>
39821	VSH XPress Copper Gas wall plate on bracket 90 FF	G6471G	22xRp $\frac{3}{4}$	<b>1.754</b>
39349	VSH XPress Copper Gas elbow 90 F	G7001A	108	<b>11.915</b>
39790	VSH XPress Copper Gas elbow 90 F	G7001A	15x15	<b>0.206</b>
39789	VSH XPress Copper Gas elbow 90 F	G7001A	18x18	<b>0.270</b>
39791	VSH XPress Copper Gas elbow 90 F	G7001A	22x22	<b>0.357</b>
39792	VSH XPress Copper Gas elbow 90 F	G7001A	28x28	<b>0.545</b>
39793	VSH XPress Copper Gas elbow 90 F	G7001A	35x35	<b>0.967</b>
39794	VSH XPress Copper Gas elbow 90 F	G7001A	42x42	<b>1.393</b>
39795	VSH XPress Copper Gas elbow 90 F	G7001A	54x54	<b>2.062</b>
39346	VSH XPress Copper Gas elbow 90 F	G7001A	66.7	<b>4.124</b>
39347	VSH XPress Copper Gas elbow 90 F	G7001A	76.1	<b>4.857</b>
39344	VSH XPress Copper Gas elbow 90 FF	G7002A	108	<b>11.285</b>
39780	VSH XPress Copper Gas elbow 90 FF	G7002A	15	<b>0.211</b>
39779	VSH XPress Copper Gas elbow 90 FF	G7002A	18	<b>0.262</b>
39781	VSH XPress Copper Gas elbow 90 FF	G7002A	22	<b>0.371</b>
39782	VSH XPress Copper Gas elbow 90 FF	G7002A	28	<b>0.546</b>
39783	VSH XPress Copper Gas elbow 90 FF	G7002A	35	<b>0.917</b>
39784	VSH XPress Copper Gas elbow 90 FF	G7002A	42	<b>1.279</b>
39785	VSH XPress Copper Gas elbow 90 FF	G7002A	54	<b>1.879</b>
39341	VSH XPress Copper Gas elbow 90 FF	G7002A	66.7	<b>3.800</b>
39342	VSH XPress Copper Gas elbow 90 FF	G7002A	76.1	<b>5.094</b>
39359	VSH XPress Copper Gas elbow 45 F	G7040	108	<b>8.343</b>
39835	VSH XPress Copper Gas elbow 45 F	G7040	15	<b>0.188</b>
39833	VSH XPress Copper Gas elbow 45 F	G7040	18	<b>0.215</b>
39836	VSH XPress Copper Gas elbow 45 F	G7040	22	<b>0.289</b>
39837	VSH XPress Copper Gas elbow 45 F	G7040	28	<b>0.431</b>
39838	VSH XPress Copper Gas elbow 45 F	G7040	35	<b>0.761</b>
39839	VSH XPress Copper Gas elbow 45 F	G7040	42	<b>1.114</b>
39840	VSH XPress Copper Gas elbow 45 F	G7040	54	<b>1.627</b>
39356	VSH XPress Copper Gas elbow 45 F	G7040	66.7	<b>3.024</b>
39357	VSH XPress Copper Gas elbow 45 F	G7040	76.1	<b>4.583</b>
39354	VSH XPress Copper Gas elbow 45 FF	G7041	108	<b>8.418</b>
39825	VSH XPress Copper Gas elbow 45 FF	G7041	15	<b>0.188</b>
39823	VSH XPress Copper Gas elbow 45 FF	G7041	18	<b>0.211</b>
39826	VSH XPress Copper Gas elbow 45 FF	G7041	22	<b>0.298</b>
39827	VSH XPress Copper Gas elbow 45 FF	G7041	28	<b>0.422</b>
39828	VSH XPress Copper Gas elbow 45 FF	G7041	35	<b>0.734</b>
39829	VSH XPress Copper Gas elbow 45 FF	G7041	42	<b>1.046</b>
39830	VSH XPress Copper Gas elbow 45 FF	G7041	54	<b>1.458</b>
39351	VSH XPress Copper Gas elbow 45 FF	G7041	66.7	<b>2.985</b>
39352	VSH XPress Copper Gas elbow 45 FF	G7041	76.1	<b>3.894</b>
39844	VSH XPress Copper Gas crossover FF	G7085	15	<b>0.449</b>

39846	VSH XPress Copper Gas crossover FF	G7085	22	<b>0.770</b>
39382	VSH XPress Copper Gas T-piece reduced FFF	G7125	108x108x54	<b>10.595</b>
39383	VSH XPress Copper Gas T-piece reduced FFF	G7125	108x108x66.7	<b>11.296</b>
39384	VSH XPress Copper Gas T-piece reduced FFF	G7125	108x108x76.1	<b>12.291</b>
39856	VSH XPress Copper Gas T-piece reduced FFF	G7125	18x18x15	<b>0.472</b>
39860	VSH XPress Copper Gas T-piece reduced FFF	G7125	22x22x15	<b>0.633</b>
39868	VSH XPress Copper Gas T-piece reduced FFF	G7125	22x22x18	<b>0.614</b>
39861	VSH XPress Copper Gas T-piece reduced FFF	G7125	28x28x15	<b>0.834</b>
39862	VSH XPress Copper Gas T-piece reduced FFF	G7125	28x28x22	<b>0.903</b>
39863	VSH XPress Copper Gas T-piece reduced FFF	G7125	35x35x22	<b>1.252</b>
39864	VSH XPress Copper Gas T-piece reduced FFF	G7125	35x35x28	<b>1.366</b>
39869	VSH XPress Copper Gas T-piece reduced FFF	G7125	42x42x22	<b>1.334</b>
39865	VSH XPress Copper Gas T-piece reduced FFF	G7125	42x42x28	<b>1.696</b>
39866	VSH XPress Copper Gas T-piece reduced FFF	G7125	42x42x35	<b>1.706</b>
39871	VSH XPress Copper Gas T-piece reduced FFF	G7125	54x54x22	<b>2.063</b>
39867	VSH XPress Copper Gas T-piece reduced FFF	G7125	54x54x42	<b>2.965</b>
39368	VSH XPress Copper Gas T-piece reduced FFF	G7125	66.7x66.7x28	<b>4.126</b>
39369	VSH XPress Copper Gas T-piece reduced FFF	G7125	66.7x66.7x35	<b>3.736</b>
39370	VSH XPress Copper Gas T-piece reduced FFF	G7125	66.7x66.7x42	<b>4.172</b>
39371	VSH XPress Copper Gas T-piece reduced FFF	G7125	66.7x66.7x54	<b>4.259</b>
39372	VSH XPress Copper Gas T-piece reduced FFF	G7125	76.1x76.1x22	<b>5.103</b>
39373	VSH XPress Copper Gas T-piece reduced FFF	G7125	76.1x76.1x28	<b>5.076</b>
39374	VSH XPress Copper Gas T-piece reduced FFF	G7125	76.1x76.1x35	<b>5.822</b>
39375	VSH XPress Copper Gas T-piece reduced FFF	G7125	76.1x76.1x42	<b>5.543</b>
39376	VSH XPress Copper Gas T-piece reduced FFF	G7125	76.1x76.1x54	<b>5.850</b>
39870	VSH XPress Copper Gas T-piece reduced FFF	G7126	22x15x22	<b>0.642</b>
39875	VSH XPress Copper Gas T-piece reduced FFF	G7127	22x15x15	<b>0.642</b>
39364	VSH XPress Copper Gas T-piece FFF	G7130	108	<b>15.273</b>
39850	VSH XPress Copper Gas T-piece FFF	G7130	15	<b>0.358</b>
39847	VSH XPress Copper Gas T-piece FFF	G7130	18	<b>0.463</b>
39851	VSH XPress Copper Gas T-piece FFF	G7130	22	<b>0.592</b>
39852	VSH XPress Copper Gas T-piece FFF	G7130	28	<b>0.862</b>
39853	VSH XPress Copper Gas T-piece FFF	G7130	35	<b>1.394</b>
39854	VSH XPress Copper Gas T-piece FFF	G7130	42	<b>1.852</b>
39855	VSH XPress Copper Gas T-piece FFF	G7130	54	<b>2.686</b>
39361	VSH XPress Copper Gas T-piece FFF	G7130	66.7	<b>5.034</b>

39362	VSH XPress Copper Gas T-piece FFF	G7130	76.1	<b>6.818</b>
39334	VSH XPress Copper Gas reducer F	G7243	108x42	<b>4.278</b>
39335	VSH XPress Copper Gas reducer F	G7243	108x54	<b>4.320</b>
39337	VSH XPress Copper Gas reducer F	G7243	108x66.7	<b>4.806</b>
39338	VSH XPress Copper Gas reducer F	G7243	108x76.1	<b>5.018</b>
39761	VSH XPress Copper Gas reducer F	G7243	18x15	<b>0.161</b>
39750	VSH XPress Copper Gas reducer F	G7243	22x15	<b>0.183</b>
39762	VSH XPress Copper Gas reducer F	G7243	22x18	<b>0.215</b>
39751	VSH XPress Copper Gas reducer F	G7243	28x15	<b>0.275</b>
39763	VSH XPress Copper Gas reducer F	G7243	28x18	<b>0.261</b>
39752	VSH XPress Copper Gas reducer F	G7243	28x22	<b>0.248</b>
39753	VSH XPress Copper Gas reducer F	G7243	35x22	<b>0.449</b>
39754	VSH XPress Copper Gas reducer F	G7243	35x28	<b>0.458</b>
39755	VSH XPress Copper Gas reducer F	G7243	42x22	<b>0.586</b>
39756	VSH XPress Copper Gas reducer F	G7243	42x28	<b>0.674</b>
39757	VSH XPress Copper Gas reducer F	G7243	42x35	<b>0.683</b>
39760	VSH XPress Copper Gas reducer F	G7243	54x28	<b>0.779</b>
39758	VSH XPress Copper Gas reducer F	G7243	54x35	<b>0.811</b>
39759	VSH XPress Copper Gas reducer F	G7243	54x42	<b>0.985</b>
39319	VSH XPress Copper Gas reducer F	G7243	66.7x28	<b>1.484</b>
39320	VSH XPress Copper Gas reducer F	G7243	66.7x35	<b>1.466</b>
39321	VSH XPress Copper Gas reducer F	G7243	66.7x42	<b>1.540</b>
39322	VSH XPress Copper Gas reducer F	G7243	66.7x54	<b>1.375</b>
39323	VSH XPress Copper Gas reducer F	G7243	76.1x35	<b>1.942</b>
39324	VSH XPress Copper Gas reducer F	G7243	76.1x42	<b>1.901</b>
39325	VSH XPress Copper Gas reducer F	G7243	76.1x54	<b>1.988</b>
39327	VSH XPress Copper Gas reducer F	G7243	76.1x66.7	<b>2.576</b>
39302	VSH XPress Copper Gas straight coupling FF	G7270	66.7	<b>1.996</b>
39303	VSH XPress Copper Gas straight coupling FF	G7270	76.1	<b>2.680</b>
39305	VSH XPress Copper Gas straight coupling FF	G7270	108	<b>5.799</b>
39700	VSH XPress Copper Gas straight coupling FF	G7270	15	<b>0.152</b>
39699	VSH XPress Copper Gas straight coupling FF	G7270	18	<b>0.179</b>
39701	VSH XPress Copper Gas straight coupling FF	G7270	22	<b>0.234</b>
39702	VSH XPress Copper Gas straight coupling FF	G7270	28	<b>0.294</b>
39703	VSH XPress Copper Gas straight coupling FF	G7270	35	<b>0.505</b>
39704	VSH XPress Copper Gas straight coupling FF	G7270	42	<b>0.716</b>
39705	VSH XPress Copper Gas straight coupling FF	G7270	54	<b>1.023</b>
39307	VSH XPress Copper Gas slip coupling FF	G7270S	66.7	<b>2.023</b>
39308	VSH XPress Copper Gas slip coupling FF	G7270S	76.1	<b>2.726</b>
39310	VSH XPress Copper Gas slip coupling FF	G7270S	108	<b>5.162</b>
39710	VSH XPress Copper Gas slip coupling FF	G7270S	15	<b>0.243</b>
39709	VSH XPress Copper Gas slip coupling FF	G7270S	18	<b>0.312</b>
39711	VSH XPress Copper Gas slip coupling FF	G7270S	22	<b>0.381</b>
39712	VSH XPress Copper Gas slip coupling FF	G7270S	28	<b>0.523</b>

39713	VSH XPress Copper Gas slip coupling FF	G7270S	35	<b>0.784</b>
39714	VSH XPress Copper Gas slip coupling FF	G7270S	42	<b>1.142</b>
39715	VSH XPress Copper Gas slip coupling FF	G7270S	54	<b>1.604</b>
39393	VSH XPress Copper Gas stop end F	G7301	108	<b>5.008</b>
39880	VSH XPress Copper Gas stop end F	G7301	15	<b>0.110</b>
39878	VSH XPress Copper Gas stop end F	G7301	18	<b>0.128</b>
39881	VSH XPress Copper Gas stop end F	G7301	22	<b>0.161</b>
39882	VSH XPress Copper Gas stop end F	G7301	28	<b>0.225</b>
39883	VSH XPress Copper Gas stop end F	G7301	35	<b>0.385</b>
39884	VSH XPress Copper Gas stop end F	G7301	42	<b>0.523</b>
39885	VSH XPress Copper Gas stop end F	G7301	54	<b>0.688</b>
39390	VSH XPress Copper Gas stop end F	G7301	66.7	<b>2.145</b>
39391	VSH XPress Copper Gas stop end F	G7301	76.1	<b>2.384</b>
39281	VSH XPress Copper flange adapter PN16 coated F DN65	SG1FMF	66.7	<b>17.761</b>
39282	VSH XPress Copper flange adapter PN16 coated F DN80	SG1FMF	76.1	<b>21.199</b>
39284	VSH XPress Copper flange adapter PN16 coated F DN100	SG1FMF	108	<b>23.980</b>
39398	VSH XPress Copper flange adapter PN16 coated 108 DN100	SG1FMM	108xDN100 PN16	<b>23.696</b>
39395	VSH XPress Copper flange adapter PN16 coated 66.7 DN65	SG1FMM	66.7xDN65 PN16	<b>17.855</b>
39396	VSH XPress Copper flange adapter PN16 coated 76.1 DN80	SG1FMM	76.1xDN80 PN16	<b>20.010</b>

## stainless gas

XPress stainless comprises press-fit fittings and stainless steel 316 system tube, available in sizes 15-108mm, the range is designed for use in potable water applications where water quality and hygiene are crucial.

The fittings are guaranteed for 25 years against manufacturing defects and are WRAS and DVGW approved.

VSH XPress stainless fittings have a leak before press feature. Each fitting is individually marked indicating material (green for stainless). Male ended fittings are also pre-marked with the required insertion depth.

code	name	type	size	total embodied carbon (kgCO2e)*
11800	VSH xPress Stainless Gas straight coupling FF	R2701G	15	<b>0.292</b>
11802	VSH xPress Stainless Gas straight coupling FF	R2701G	22	<b>0.456</b>
11803	VSH xPress Stainless Gas straight coupling FF	R2701G	28	<b>0.573</b>
11804	VSH xPress Stainless Gas straight coupling FF	R2701G	35	<b>0.800</b>
11805	VSH xPress Stainless Gas straight coupling FF	R2701G	42	<b>1.129</b>
11806	VSH xPress Stainless Gas straight coupling FF	R2701G	54	<b>1.583</b>
20481	VSH xPress Stainless Gas straight coupling FF	R2701G	76.1	<b>4.850</b>
20482	VSH xPress Stainless Gas straight coupling FF	R2701G	88.9	<b>6.515</b>
20483	VSH xPress Stainless Gas straight coupling FF	R2701G	108	<b>9.614</b>
11928	VSH xPress Stainless Gas straight connector FF	R2702G	15xRp½	<b>0.384</b>
11930	VSH xPress Stainless Gas straight connector FF	R2702G	22xRp½	<b>0.570</b>

11931	VSH xPress Stainless Gas straight connector FF	R2702G	22xRp <sup>3/4</sup>	<b>0.585</b>
11933	VSH xPress Stainless Gas straight connector FF	R2702G	28xRp1	<b>0.763</b>
11934	VSH xPress Stainless Gas straight connector FF	R2702G	35xRp1 1/4	<b>1.370</b>
11936	VSH xPress Stainless Gas straight connector FF	R2702G	42xRp1 1/2	<b>2.007</b>
11937	VSH xPress Stainless Gas straight connector FF	R2702G	54xRp2	<b>2.632</b>
11808	VSH xPress Stainless Gas slip coupling FF	R2703G	15	<b>0.374</b>
11810	VSH xPress Stainless Gas slip coupling FF	R2703G	22	<b>0.627</b>
11811	VSH xPress Stainless Gas slip coupling FF	R2703G	28	<b>0.841</b>
11812	VSH xPress Stainless Gas slip coupling FF	R2703G	35	<b>1.097</b>
11813	VSH xPress Stainless Gas slip coupling FF	R2703G	42	<b>1.590</b>
11814	VSH xPress Stainless Gas slip coupling FF	R2703G	54	<b>2.334</b>
11914	VSH xPress Stainless Gas straight connector FM	R2705G	15xR1/2	<b>0.384</b>
11917	VSH xPress Stainless Gas straight connector FM	R2705G	22xR3/4	<b>0.548</b>
11919	VSH xPress Stainless Gas straight connector FM	R2705G	28xR1	<b>0.852</b>
11920	VSH xPress Stainless Gas straight connector FM	R2705G	35xR1 1/4	<b>1.222</b>
11923	VSH xPress Stainless Gas straight connector FM	R2705G	42xR1 1/2	<b>1.509</b>
11924	VSH xPress Stainless Gas straight connector FM	R2705G	54xR2	<b>2.729</b>
20485	VSH xPress Stainless Gas straight connector FM	R2705G	76.1xR2 1/2	<b>6.069</b>
20486	VSH xPress Stainless Gas straight connector FM	R2705G	88.9xR3	<b>8.574</b>
11849	VSH xPress Stainless Gas reducer F	R2707G	22x15	<b>0.332</b>
11851	VSH xPress Stainless Gas reducer F	R2707G	28x15	<b>0.413</b>
11853	VSH xPress Stainless Gas reducer F	R2707G	28x22	<b>0.480</b>
11854	VSH xPress Stainless Gas reducer F	R2707G	35x22	<b>0.679</b>
11855	VSH xPress Stainless Gas reducer F	R2707G	35x28	<b>0.634</b>
11856	VSH xPress Stainless Gas reducer F	R2707G	42x28	<b>1.033</b>
11857	VSH xPress Stainless Gas reducer F	R2707G	42x35	<b>0.884</b>
11858	VSH xPress Stainless Gas reducer F	R2707G	54x28	<b>1.427</b>
11859	VSH xPress Stainless Gas reducer F	R2707G	54x35	<b>1.479</b>
11860	VSH xPress Stainless Gas reducer F	R2707G	54x42	<b>1.323</b>
20491	VSH xPress Stainless Gas reducer F	R2707G	76.1x42	<b>3.377</b>
20492	VSH xPress Stainless Gas reducer F	R2707G	76.1x54	<b>3.541</b>
20493	VSH xPress Stainless Gas reducer F	R2707G	88.9x54	<b>4.321</b>
20494	VSH xPress Stainless Gas reducer F	R2707G	88.9x76.1	<b>5.228</b>
20495	VSH xPress Stainless Gas reducer F	R2707G	108x54	<b>6.465</b>
20496	VSH xPress Stainless Gas reducer F	R2707G	108x76.1	<b>7.194</b>
20497	VSH xPress Stainless Gas reducer F	R2707G	108x88.9	<b>7.744</b>
11816	VSH xPress Stainless Gas bend 90 FF	R2708G	15	<b>0.419</b>
11818	VSH xPress Stainless Gas bend 90 FF	R2708G	22	<b>0.753</b>
11819	VSH xPress Stainless Gas bend 90 FF	R2708G	28	<b>1.057</b>
11820	VSH xPress Stainless Gas bend 90 FF	R2708G	35	<b>1.462</b>
11821	VSH xPress Stainless Gas bend 90 FF	R2708G	42	<b>2.498</b>
11822	VSH xPress Stainless Gas bend 90 FF	R2708G	54	<b>3.896</b>

20501	VSH xPress Stainless Gas bend 90 FF	R2708G	76.1	<b>7.862</b>
20502	VSH xPress Stainless Gas bend 90 FF	R2708G	88.9	<b>10.523</b>
20503	VSH xPress Stainless Gas bend 90 FF	R2708G	108	<b>15.949</b>
11950	VSH xPress Stainless Gas angle adapter 90 FF	R2709G	15xRp½	<b>0.830</b>
11952	VSH xPress Stainless Gas angle adapter 90 FF	R2709G	22xRp¾	<b>1.336</b>
11953	VSH xPress Stainless Gas angle adapter 90 FF	R2709G	28xRp1	<b>2.443</b>
11824	VSH xPress Stainless Gas bend 90 F	R2711G	15x15	<b>0.429</b>
11826	VSH xPress Stainless Gas bend 90 F	R2711G	22x22	<b>0.726</b>
11827	VSH xPress Stainless Gas bend 90 F	R2711G	28x28	<b>1.090</b>
11828	VSH xPress Stainless Gas bend 90 F	R2711G	35x35	<b>1.482</b>
11829	VSH xPress Stainless Gas bend 90 F	R2711G	42x42	<b>2.453</b>
11830	VSH xPress Stainless Gas bend 90 F	R2711G	54x54	<b>3.747</b>
20505	VSH xPress Stainless Gas bend 90 F	R2711G	76.1x76.1	<b>8.032</b>
20506	VSH xPress Stainless Gas bend 90 F	R2711G	88.9x88.9	<b>10.493</b>
20507	VSH xPress Stainless Gas bend 90 F	R2711G	108x108	<b>16.021</b>
11840	VSH xPress Stainless Gas bend 45 F	R2712G	15x15	<b>0.369</b>
11842	VSH xPress Stainless Gas bend 45 F	R2712G	22x22	<b>0.629</b>
11843	VSH xPress Stainless Gas bend 45 F	R2712G	28x28	<b>0.867</b>
11844	VSH xPress Stainless Gas bend 45 F	R2712G	35x35	<b>1.185</b>
11845	VSH xPress Stainless Gas bend 45 F	R2712G	42x42	<b>1.963</b>
11846	VSH xPress Stainless Gas bend 45 F	R2712G	54x54	<b>2.714</b>
20516	VSH xPress Stainless Gas bend 45 F	R2712G	76.1x76.1	<b>6.188</b>
20517	VSH xPress Stainless Gas bend 45 F	R2712G	88.9x88.9	<b>8.284</b>
20518	VSH xPress Stainless Gas bend 45 F	R2712G	108x108	<b>12.273</b>
11832	VSH xPress Stainless Gas bend 45 FF	R2713G	15	<b>0.359</b>
11834	VSH xPress Stainless Gas bend 45 FF	R2713G	22	<b>0.597</b>
11835	VSH xPress Stainless Gas bend 45 FF	R2713G	28	<b>0.871</b>
11836	VSH xPress Stainless Gas bend 45 FF	R2713G	35	<b>1.187</b>
11837	VSH xPress Stainless Gas bend 45 FF	R2713G	42	<b>1.873</b>
11838	VSH xPress Stainless Gas bend 45 FF	R2713G	54	<b>2.728</b>
20511	VSH xPress Stainless Gas bend 45 FF	R2713G	76.1	<b>6.159</b>
20512	VSH xPress Stainless Gas bend 45 FF	R2713G	88.9	<b>8.277</b>
20513	VSH xPress Stainless Gas bend 45 FF	R2713G	108	<b>12.469</b>
11865	VSH xPress Stainless Gas T-piece FFF	R2714G	15	<b>0.520</b>
11867	VSH xPress Stainless Gas T-piece FFF	R2714G	22	<b>0.825</b>
11868	VSH xPress Stainless Gas T-piece FFF	R2714G	28	<b>1.098</b>
11869	VSH xPress Stainless Gas T-piece FFF	R2714G	35	<b>1.390</b>
11870	VSH xPress Stainless Gas T-piece FFF	R2714G	42	<b>2.021</b>
11871	VSH xPress Stainless Gas T-piece FFF	R2714G	54	<b>3.055</b>
20521	VSH xPress Stainless Gas T-piece FFF	R2714G	76.1	<b>9.521</b>
20522	VSH xPress Stainless Gas T-piece FFF	R2714G	88.9	<b>12.576</b>
20523	VSH xPress Stainless Gas T-piece FFF	R2714G	108	<b>17.983</b>
11873	VSH xPress Stainless Gas T-piece reduced FFF	R2715G	22x22x15	<b>0.721</b>
11875	VSH xPress Stainless Gas T-piece reduced FFF	R2715G	28x28x15	<b>0.957</b>
11877	VSH xPress Stainless Gas T-piece reduced FFF	R2715G	28x28x22	<b>1.032</b>
11878	VSH xPress Stainless Gas T-piece reduced FFF	R2715G	35x35x15	<b>1.206</b>
11880	VSH xPress Stainless Gas T-piece reduced FFF	R2715G	35x35x22	<b>1.266</b>

11881	VSH xPress Stainless Gas T-piece reduced FFF	R2715G	35x35x28	<b>1.377</b>
11882	VSH xPress Stainless Gas T-piece reduced FFF	R2715G	42x42x22	<b>1.759</b>
11883	VSH xPress Stainless Gas T-piece reduced FFF	R2715G	42x42x28	<b>1.766</b>
11884	VSH xPress Stainless Gas T-piece reduced FFF	R2715G	42x42x35	<b>1.905</b>
11885	VSH xPress Stainless Gas T-piece reduced FFF	R2715G	54x54x22	<b>2.592</b>
11886	VSH xPress Stainless Gas T-piece reduced FFF	R2715G	54x54x28	<b>2.569</b>
11887	VSH xPress Stainless Gas T-piece reduced FFF	R2715G	54x54x35	<b>2.716</b>
11888	VSH xPress Stainless Gas T-piece reduced FFF	R2715G	54x54x42	<b>2.713</b>
20528	VSH xPress Stainless Gas T-piece reduced FFF	R2715G	76.1x76.1x22	<b>7.599</b>
20529	VSH xPress Stainless Gas T-piece reduced FFF	R2715G	76.1x76.1x28	<b>7.702</b>
20530	VSH xPress Stainless Gas T-piece reduced FFF	R2715G	76.1x76.1x35	<b>7.842</b>
20531	VSH xPress Stainless Gas T-piece reduced FFF	R2715G	76.1x76.1x42	<b>7.876</b>
20532	VSH xPress Stainless Gas T-piece reduced FFF	R2715G	76.1x76.1x54	<b>7.869</b>
20533	VSH xPress Stainless Gas T-piece reduced FFF	R2715G	88.9x88.9x22	<b>10.059</b>
20534	VSH xPress Stainless Gas T-piece reduced FFF	R2715G	88.9x88.9x28	<b>9.947</b>
20535	VSH xPress Stainless Gas T-piece reduced FFF	R2715G	88.9x88.9x35	<b>10.034</b>
20536	VSH xPress Stainless Gas T-piece reduced FFF	R2715G	88.9x88.9x42	<b>10.292</b>
20537	VSH xPress Stainless Gas T-piece reduced FFF	R2715G	88.9x88.9x54	<b>10.478</b>
20538	VSH xPress Stainless Gas T-piece reduced FFF	R2715G	108x108x22	<b>13.545</b>
20539	VSH xPress Stainless Gas T-piece reduced FFF	R2715G	108x108x28	<b>14.258</b>
20540	VSH xPress Stainless Gas T-piece reduced FFF	R2715G	108x108x35	<b>13.386</b>
20541	VSH xPress Stainless Gas T-piece reduced FFF	R2715G	108x108x42	<b>14.789</b>
20542	VSH xPress Stainless Gas T-piece reduced FFF	R2715G	108x108x54	<b>14.462</b>
11957	VSH xPress Stainless Gas wall plate FF	R2716G	15xRp½	<b>0.771</b>
11900	VSH xPress Stainless Gas T-piece threaded FFF	R2718G	15x15xRp½	<b>0.612</b>
11903	VSH xPress Stainless Gas T-piece threaded FFF	R2718G	22x22xRp½	<b>0.865</b>
11904	VSH xPress Stainless Gas T-piece threaded FFF	R2718G	22x22xRp¾	<b>0.969</b>
11905	VSH xPress Stainless Gas T-piece threaded FFF	R2718G	28x28xRp½	<b>1.064</b>
11907	VSH xPress Stainless Gas T-piece threaded FFF	R2718G	35x35xRp½	<b>1.313</b>
11908	VSH xPress Stainless Gas T-piece threaded FFF	R2718G	35x35xRp¾	<b>1.395</b>
11909	VSH xPress Stainless Gas T-piece threaded FFF	R2718G	42x42xRp½	<b>1.880</b>
11910	VSH xPress Stainless Gas T-piece threaded FFF	R2718G	54x54xRp½	<b>2.676</b>
11912	VSH xPress Stainless Gas T-piece threaded FFF	R2718G	54x54xRp2	<b>3.873</b>
11911	VSH xPress Stainless Gas T-piece threaded FFF	R2718G	54x54xRp¾	<b>2.691</b>
20551	VSH xPress Stainless Gas T-piece female thread FFF	R2718G	76.1x76.1xRp¾	<b>7.445</b>
20552	VSH xPress Stainless Gas T-piece female thread FFF	R2718G	76.1x76.1xRp2	<b>8.821</b>
20553	VSH xPress Stainless Gas T-piece female thread FFF	R2718G	88.9x88.9xRp¾	<b>10.174</b>
20554	VSH xPress Stainless Gas T-piece female thread FFF	R2718G	88.9x88.9xRp2	<b>11.460</b>
20555	VSH xPress Stainless Gas T-piece female thread FFF	R2718G	108x108xRp¾	<b>14.715</b>
20556	VSH xPress Stainless Gas T-piece female thread FFF	R2718G	108x108xRp2	<b>15.592</b>
20475	VSH xPress Stainless Gas flange adapter	R2726G	76.1xDN65 PN16	<b>26.340</b>

20476	VSH xPress Stainless Gas flange adapter	R2726G	88.9xDN80 PN16	<b>32.266</b>
20477	VSH xPress Stainless Gas flange adapter	R2726G	108xDN100 PN16	<b>38.968</b>
11942	VSH xPress Stainless Gas angle adapter 90 FM	R2728G	22xR $\frac{3}{4}$	<b>1.076</b>
11980	VSH xPress Stainless Gas stop end F	R2729G	15	<b>0.206</b>
11982	VSH xPress Stainless Gas stop end F	R2729G	22	<b>0.325</b>
11983	VSH xPress Stainless Gas stop end F	R2729G	28	<b>0.465</b>
11984	VSH xPress Stainless Gas stop end F	R2729G	35	<b>0.597</b>
11985	VSH xPress Stainless Gas stop end F	R2729G	42	<b>0.877</b>
11986	VSH xPress Stainless Gas stop end F	R2729G	54	<b>1.346</b>

## tools and accessories

Joints in the VSH XPress system are made by compressing the fitting onto the tube with an appropriate press-fit tool. These are available in 110V and 240V mains, and cordless to suit most site installations.

A full range of press-fit jaws, slings and adaptors, along with all of the relevant accessories required, are available to ensure that every installation option is covered.

A variety of VSH XPress accessories complement the range, including replacement O-rings, lubricants, tube strippers, a deburring tool, depth gauges and a tube preparation kit.

code	name	type	size	total embodied carbon (kgCO <sub>2</sub> e)*
Coming soon!				

## valves

Pegler valves combine with VSH XPress fittings in order to deliver a seamless integrated piping system for press-fit connection.

A wide selection of valves are available including dynamic and static balancing valves, gate valves, ball valves, check valves, strainers, thermal circulation valves and pressure reducing valves.

code	name	type	size	total embodied carbon (kgCO <sub>2</sub> e)*
Coming soon!				

## fullflow

FullFlow ball valves compliment the XPress system. A streamline design that introduces a full bore valve within a streamline fitting. Made of galvanised steel, they are suitable for HVAC applications

code	name	type	size	total embodied carbon (kgCO <sub>2</sub> e)*
Coming soon!				

\* Embodied carbon calculated following 'Basic' calculation method described in CIBSE (2021) Embodied carbon in building services: a calculation methodology CIBSE TM65: 2021 (Hampshire:

Hobbs the Printers Ltd) using CIBSE (2022) Embodied Carbon Calculator TM65 Digital Tool beta version 1.1 January 2022 (London: Chartered Institution of Building Services Engineers)