PEXAL
CONNEX-T

Derivation clamp for multilayer systems

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PEXALCONNEX-T

Connex-T: a revolution in multilayer pipes

PATENTED

ACS

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Connex-T is truly a revolution in the installation of multilayer systems. Developed by Valsir to create **derivations on new or existing multilayer pipes with large diameters**, it provides significant reductions in installation time and costs and facilitates maintenance work.

The solutions adopted have been studied so that **margins of error are minimised and installation is facilitated**: it is not always easy to intervene on existing pipelines due to the position and the limited space in which the job needs to be performed.

The particular profile of the connection with the pipe has been designed and engineered specifically to **reduce pressure loss to a minimum**.

Tested in accordance with the strictest international standards on multilayer systems and subject to the most rigid quality tests in Valsir, Connex-T has a **guaranteed durability of at least 50 years** in full observance of the standards; in this period a use at **pressures of 10 bar and at temperatures up to 95°C** is allowed.

Ø Pexal pipe	Ø outlet
50	½"M
63	¾"M
75	¾"M
75	1"M
90	1"M

MADE IN ITALY

THE CHARACTERISTICS OF THE CONNEX-T CLAMP

Fast and easy installation in every situation on existing pipelines.

On existing Valsir multilayer pipes Connex-T allows a derivation to be created with a **significant reduction in costs** as far as the material used and labour costs are concerned. In conventional systems, in order to create a derivation, quite a long piece of pipe needs to be cut and 2 fittings must be inserted. Connex-T can be installed without cutting the pipe and without fittings.

Body in technopolymer with exceptional characteristics of **mechanical resistance**.

The **blocking nut** of the threaded insert is **provided with an end-of-stroke lock system** that avoids elevated tightening forces that would damage the multilayer pipe.

The clasps placed on the sides to block the two parts keep the two pieces in place during assembly and prevent them from falling during the installation phase.

Locknuts are incorporated in the rear half-shell to simplify screws tightening. The housing where they are inserted is designed to avoid screws loosening during installation and to guarantee a greater tightening torque.

Tested according to the strictest international standards on multilayer systems (DVGW W542, DVGW W534, EN ISO 21003 -2 -3 and -5).

The screw holes have **special profiles that prevent screws loosening during installation.**

The **total resistance to corrosion, to construction materials and to the main chemical compounds** make them suitable for various applications of an industrial kind.

Durability guaranteed for 50 years; when used at pressures of 10 bar and temperatures as high as 95°C.

Significantly reduced pressure loss as compared with a conventional T fitting. Connex-T does not reduce the pipe bore section and the special profile of the insert minimises pressure loss.

Wide range of diameters from 50 mm Ø to 90 mm Ø with available derivations from ½" up to 1".

The system is composed of completely non-toxic materials **certified to transport food liquids and drinking water**.

The Connex-T system is produced with fully recyclable materials that at the end of their life cycle can be recycled.
The manufacturing processes employed are energy efficient and with a low environmental impact. Valsir has adopted the Green Building principles in the interests of environmental protection and resources conservation.

THE DETAILS THAT MAKE THE DIFFERENCE

A number of innovative solutions have been designed for Connex-T to reduce installation time and eliminate margins of error in order to help the plumber that must often work in tight spaces.

Blocking nut with end-of-stroke system

The threaded insert blocking nut has been designed for an easy and safe installation. It is provided with an end-of-stroke lock system that avoids elevated tightening forces that would damage the multilayer pipe.

Blocking system of the half-shells

Special clasps placed on the half-shells allow the two parts of the Connex-T to be blocked before they are fully tightened with the screws, thus preventing the two pieces from disconnecting and falling on the ground.

Anti-loosening system of the screws

Special profiles have been created in the holes where the screws are inserted to avoid them loosening during installation. The screw head allows the use of both socket wrenches and screwdrivers for tightening.

Locknuts incorporated

Locknuts are incorporated in the rear half-shell thus guaranteeing improved screws tightening.
The housing where they are inserted is designed to avoid screws loosening during installation and to guarantee a greater tightening torque.

EASY AND SAFE INSTALLATION

Step 1

Use the centring hole placed in the rear half-shell to create the guide hole (use a 6 mm Ø drill bit for metal).

Step 2

Create the hole through an appropriate hollow cutter using the centring hole as a guide for the cutting tip. While drilling, keep the drill perpendicular to the pipe axis.

Step 3

Remove any cutting burrs and sharp edges inside the hole using the fine sandpaper provided.
Clean the hole in order to eliminate any residue on the edge and inside the hole.

Step 4

Put the threaded insert and the front half-shell inside the hole, positioning it over the pipe.
Turn the blocking nut by hand in order to secure the half-shell to the pipe.

Step 5

Place the rear half-shell and secure it to the front shell using the special fastening clasps, in this way the two parts will remain attached to the pipe.
Tighten using the provided screws with a 6 mm Ø socket wrench or a screwdriver.

Step 6

Fully Turn the locking nut on the threaded insert until end-of-stroke.


THE TECHNICAL MANUAL FOR WASTE SYSTEMS
Characteristics, project design, calculation, installation and testing
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Suite di progettazione per impianti di riscaldamento a pavimento, a radiatori, impianti sanitari e di scarico
Suite for radiator and underfloor heating systems, sanitary distribution and waste systems
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CUSTOMER SERVICE

Technical support

Valsir provides complete support during design and on site, thanks to a high-level technical department that consists of a team of engineers with international experience that are capable of providing solutions to all installation needs.

Valsir Academy

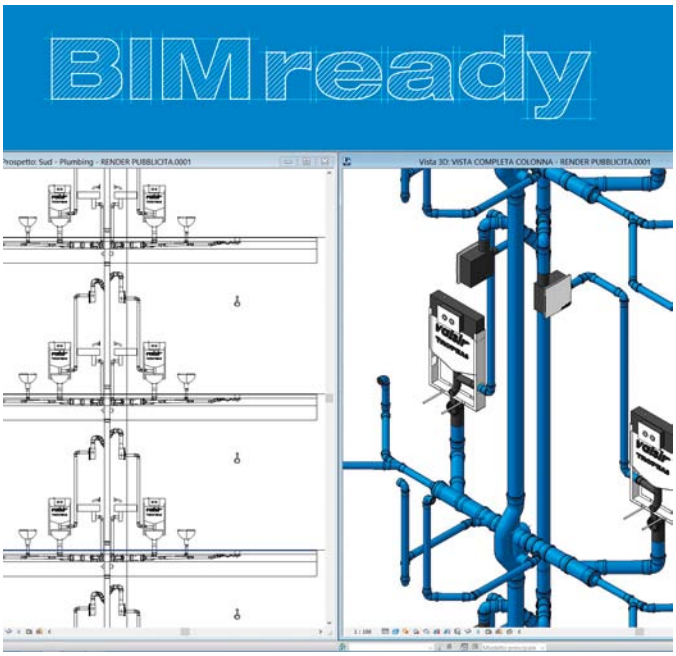
Valsir has an important training facility - **Valsir Academy** - dedicated to clients, distributors, plumbers and planners that provides perfectly equipped courses, both theoretical and practical on the use and the design of plumbing and heating systems. Courses are provided both inside the training facility and on customers' premises.

SOFTWARE

Silvestro software

The design of floor and radiator heating systems, water supply as well as waste and drainage systems, is extremely easy and the issue of the technical documents is rapid when using the Silvestro software program. Rapid, simple, unique, Silvestro has numerous strong points:

- rapid learning curve thanks to a simple and intuitive interface
- completely graphic background that facilitates input of the project details
- automatic drawing of the loops in the floor radiant systems
- automatic repositioning of the stack points on the plan view
- generation of calculation reports that are exportable in an .xls format
- import and export of files in .dwg format
- immediate update of software with a guided procedure
- creation of complete bill of materials from the project files



Valsir is BIM ready

Valsir has embraced the BIM philosophy, the modelling process that allows the improvement of planning, design, construction and the management of buildings, concurring with the transition of the industry toward the digital representation of buildings. “BIM oriented” planning offers extraordinary competitive advantages: greater efficiency and productivity, fewer errors, less downtime, lower costs, enhanced interoperability, maximum sharing of information, a more punctual and coherent supervision of the project.
Valsir captures the essence of this system creating a series of Revit applications and models designed for simple and fast use.

QUALITY AND ENVIRONMENT

Quality

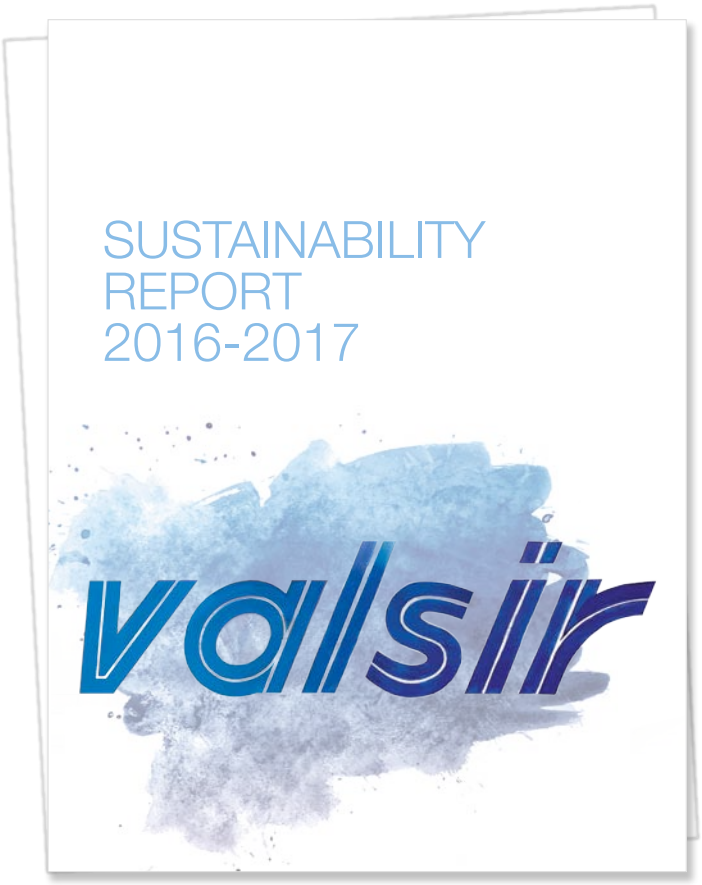
The ongoing commitment of Valsir to the creation of high quality products is demonstrated by over **200 product approvals** obtained around the world from the most strict certification bodies (figure updated on 01/09/2019), by the Quality Management System that is certified in compliance with **UNI EN ISO 9001:2008** and the Energy Management System that is certified in compliance with International Standard **UNI EN ISO 50001:2011**.
Valsir S.p.A. has further demonstrated its commitment to the environment obtaining the **ISO 14001:2015** certificate to the productive site in Vestone.

Sustainability

Efficient processes and reliable products are no longer the only parameters used to perform an assessment of the quality of a company's conduct: the capacity of the company and its management to design and implement production process that are sustainable from an environmental point of view is of equal importance.

Valsir has started a project of Corporate Social Responsibility and has published its 2nd Sustainability Report that gathers facts and figures relating to the daily commitment of Valsir in terms of social, economic and environmental responsibility.

For more information, download here the 2nd Sustainability Report.



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