





Valsir PP3®, the latest technology in push-fit systems

















Valsir PP3® is a waste system made up of pipes, fittings and accessories for the construction of waste and rainwater drainage systems.

Valsir PP3® is an extremely light system and with its push-fit socket with hydraulic seal it represents the most simple solution for the construction of waste and drainage systems.



The wide range of pipes, fittings and accessories allow the entire waste network to be made, from branches to sanitary appliances to stacks and waste manifolds.

MADE IN ITALY



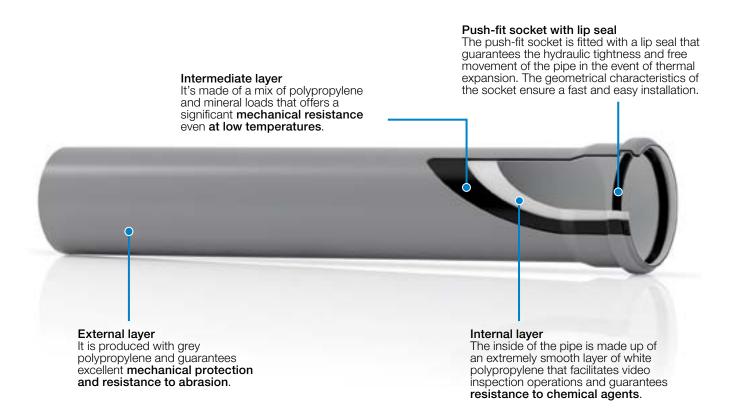


LIGHT WEIGHT, SIMPLICITY AND RELIABILITY

The advantages of using PP3® waste system

- Light weight and ease of installation on site without special tools, thanks to the push-fit connection. Furthermore, the push-fit socket does not require the use of harmful glues or solvents.
- Excellent sound insulating performances:
 17 dB(A) with a flow rate of 2 l/s in compliance with EN 14366 (certificate P-BA 92/2014).
- Smooth internal surface, white in colour to facilitate video inspection.
- High impact resistance at extremely harsh temperatures below 0°C.

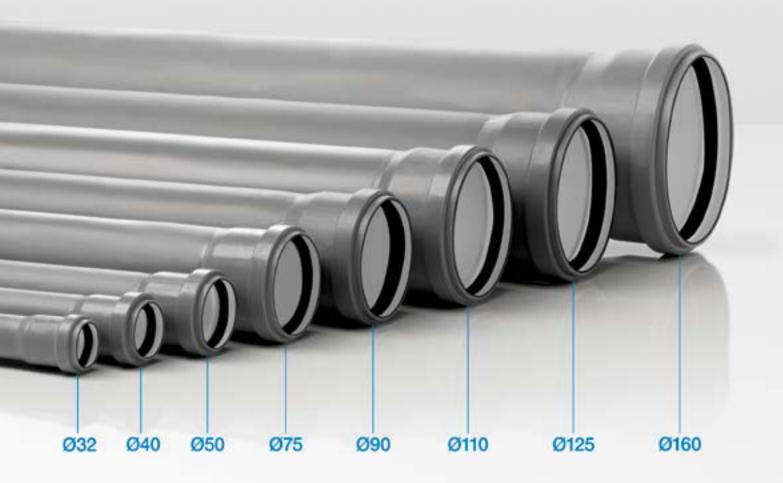
- **High chemical resistance** to the substances dissolved in civil and industrial waste waters.
- Wide range of diameters from DN 32 mm to DN 160 mm characterised by triple layer pipes and single layer fittings.
- Wide range of transition fittings for connection to other waste systems such as cast iron, PE, PP, PVC.
- The product, its recyclability and the production processes used are based on the Green Building principles, respecting the environment and the conservation of resources.



The Valsir PP3® waste system can transport waste liquids at temperatures as high as 95°C, it has a high resistance to the most common chemical agents and is characterised by an extremely smooth internal surface that prevents the accumulation of deposits inside the waste network.

Furthermore, polypropylene is a material that is not attacked by microorganisms and guarantees the absence of internal deposits and the build-up of bacterial flora. This system is also free of problems relating to stray currents.





A COMPLETE RANGE FOR ALL REQUIREMENTS

The range is composed of pipe lengths from 150 mm to 3 m with one socket, two sockets or smooth pipes without sockets.

It features a wide choice of fittings and accessories that allow the most diverse system configurations to be constructed.

Diameters range from the smallest such as 32, 40 and 50 mm for the installation of branches on each floor to larger diameters such as 160 mm for waste manifolds.

The range completed by accessories for connection to other Valsir waste systems, accessories for connection to sanitary appliances and anchor brackets.











Fire collars

When fire protection standards or local regulations require the compartmentalization of rooms such as, for example, central heating plants, underground car parks and industrial facilities that are at risk of fire, then fire collars can be used.

To meet all system requirements a **complete** range is available which covers diameters from 40 to 160 mm.

It is important to remember that the Valsir PP3® waste system is made of polypropylene and therefore, unlike other materials such as PVC, it does not produce carcinogenic compounds such as dioxins and vinyl chloride in the event of fire.





THE BEST SOUNDPROOFING PERFORMANCE IN ITS CATEGORY

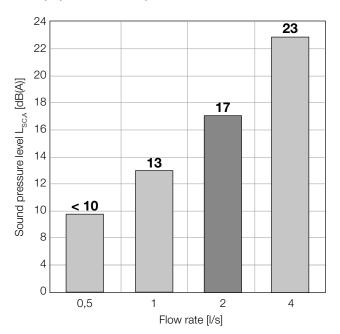
When a waste system is called into action, noises are generated inside the pipelines, causing them to vibrate from the fall of the liquid being discharged.

Most of the generated noise spreads inside the pipe but the vibrations are transmitted from the walls of the pipe to the surrounding area and to the bracketing elements and consequently to the building structure.

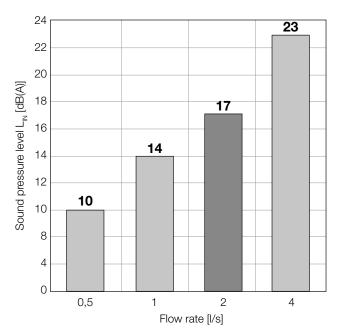
To limit noise levels in waste and drainage systems, not only should the system be designed properly and the waste circuit mounted correctly but it is also important to choose a drainage system with elevated soundproofing performance.

PP3® with 2 l/s (typical drainage from a WC) reaches noise levels of 17 dB(A).

Sound pressure levels $L_{\text{SC,A}}$ of the PP3 pipe in compliance with EN 14366



Sound pressure levels L_{IN} of the PP3 pipe in compliance with DIN 4109



Certificated P-BA 92/2014e in accordance with EN 14366. Certificated P-BA 91/2014e in accordance with DIN 4109.









PUSH-FIT JOINT: RAPID AND EASY INSTALLATION

Valsir PP3® ensures a practical and rapid installation without glues or special tools thanks to the jointing system with push-fit sockets.

The particular shape of the seal and the housing of the push-fit joint guarantee hydraulic tightness and allow the normal movements of the pipe including those caused by thermal expansion.







A system that is suitable for temperature fluctuations: the thermal expansion of Valsir PP3® is extremely low compared to the most common plastic materials, a 3 m pipe will expand in length by just 13 mm when the waste liquid flows at a continuous temperature of 60°C.

It is thanks to this low thermal expansion coefficient that the push-fit joints are capable of absorbing the variations in length of the pipe without taking any particular precautionary measures; just follow the installation instructions in the Valsir technical manuals.





The bi-joint sleeve to reduce wastage to a minimum

To allow leftover pieces of pipe to be used, Valsir supplies a bi-joint sleeve. This is a special fitting that allows two pipes without sockets to be connected guaranteeing hydraulic tightness without compromising flow rates.





REFERENCES



Signature Lux Hotel - Johannesburg (South Africa)



Zazerkalie housing estate - Samara (Russia)



Peles Castle - Sinaia (Romania)



Pendergardens - St. Julian (Malta)



The Elements - Colombo (Sri Lanka)





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.



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Valsir Academy

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



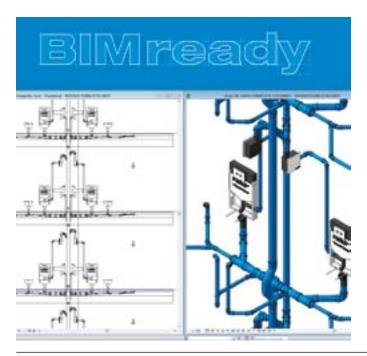
SOFTWARE

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 01/10/2019), 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

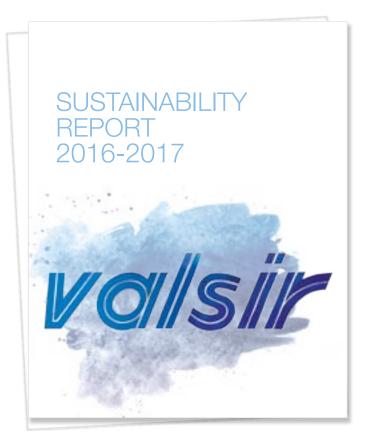
Efficient processes and reliable products are no longer the only parameters used to perform an assessment of the quality of a company's conduct: the capacity of the company and its management to design and implement production process that are sustainable from an environmental point of view is of equal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



Download valsir.it/u/sostenibilita-en









SUPPLY SYSTEMS



GAS SYSTEMS



FLUSHING SYSTEMS



BATHROOM SYSTEMS



TRAPS



RADIANT SYSTEMS



DRAINAGE SYSTEMS



HRV SYSTEM



ACADEMY



SEWER SYSTEMS



WATER TREATMENT







VALSIR S.p.A. - Società a Socio Unico Località Merlaro, 2 25078 Vestone (BS) - Italy Tel. +39 0365 877.011 Fax +39 0365 81.268

e-mail: valsir@valsir.it www.valsir.it

Soggetta all'attività di direzione e coordinamento ex art. 2497 bis C.C. da parte di Silmar Group S.p.A. - Codice Fiscale 02075160172

