


# PP3

## Push-fit waste and drainage system inside buildings

MADE IN ITALY

valsir®

QUALITY FOR PLUMBING




The Kingsbury Hotel - Colombo (Sri Lanka)

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

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**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 seal it represents the most simple solution for **the construction of waste and drainage systems**.



Valsir PP3® is manufactured according to the European Standard EN 1451 and can be used for waste systems at low and high temperatures, ventilation systems for waste networks and for rainwater drainage systems **inside buildings for civil and industrial use, hospitals and hotels**.

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.

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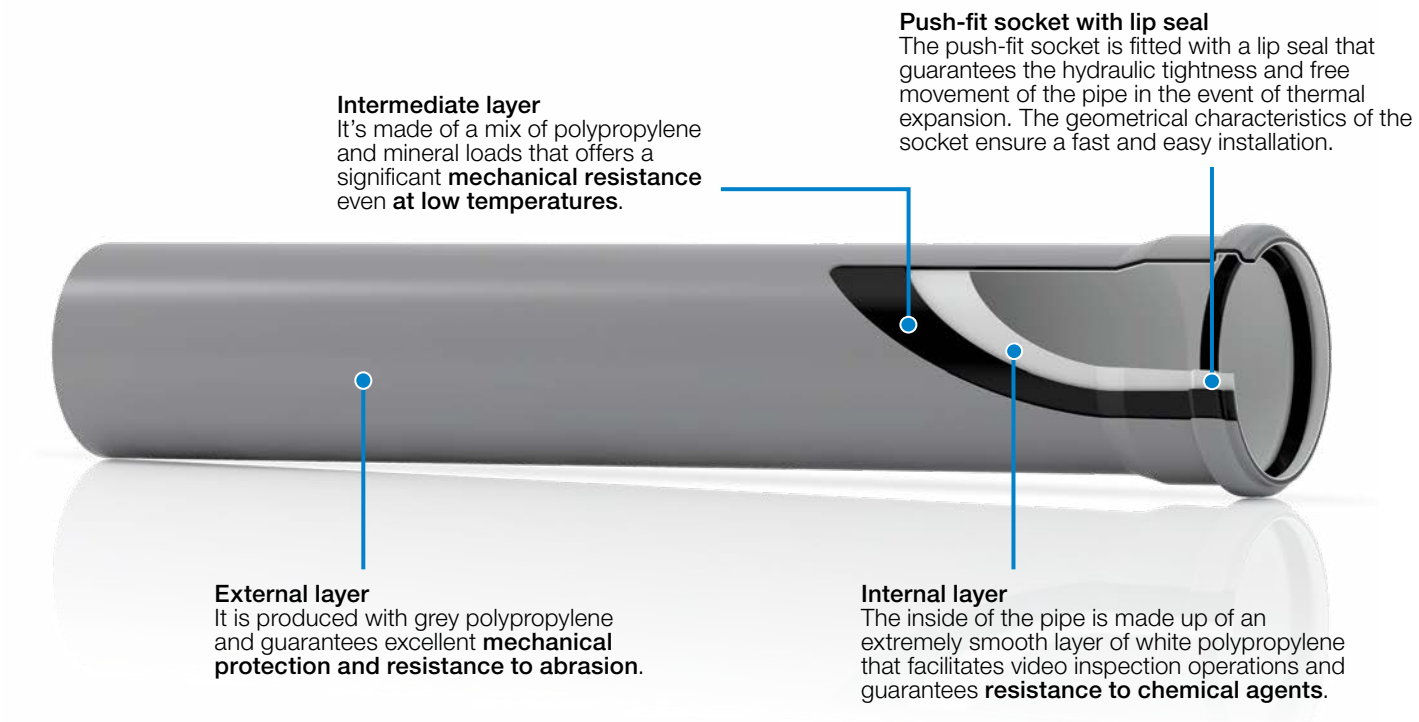


Himalaya - Farroupilha-RS (Brazil)

# 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**: 18 dB(A) with a flow rate of 4 l/s and 11 dB(A) with a flow rate of 2 l/s.
- **Smooth internal surface, white in colour** to facilitate video inspection.
- High impact resistance at extremely harsh temperatures **below -10°C**.
- **High chemical resistance** to the substances dissolved in civil and industrial waste waters.
- Wide range of **diameters from Ø 32 mm to Ø 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 micro-organisms 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.




## Eco sustainability

Valsir PP3® system is produced with completely recyclable materials that can be sent for recovery at the end of their lifespan.
The related production processes are energy efficient and have a low impact.
The available EPD declarations certify the reduced environmental impact associated with the production of discharge system PP3® Valsir according to the LCA analysis, or rather “cradle-to-grave”.

This means having monitored and improved not only the production processes: these systems are optimized from the extraction of raw materials to the disposal of the product itself.

Choose them for your project and get credits for the sustainability protocols (e.g., LEED V4) of Green Procurement!

ECO PLATFORM
EPD
VERIFIED

EPD
ITALY

# 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.

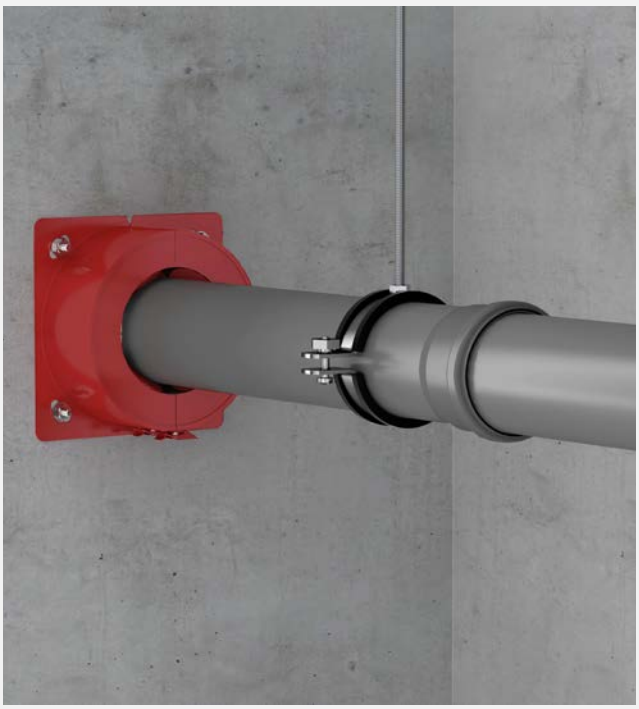
The range completed by accessories for connection to other Valsir waste systems, accessories for connection to sanitary appliances and anchor brackets.











## 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**.

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# THE BEST SOUNDPROOFING PERFORMANCE IN ITS CATEGORY

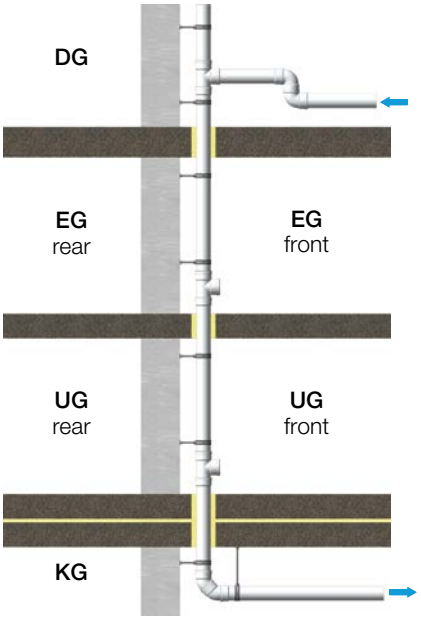
When a waste system is called into action, noises are generated inside the pipelines, causing them to vibrate from the fall of the liquid being discharged.

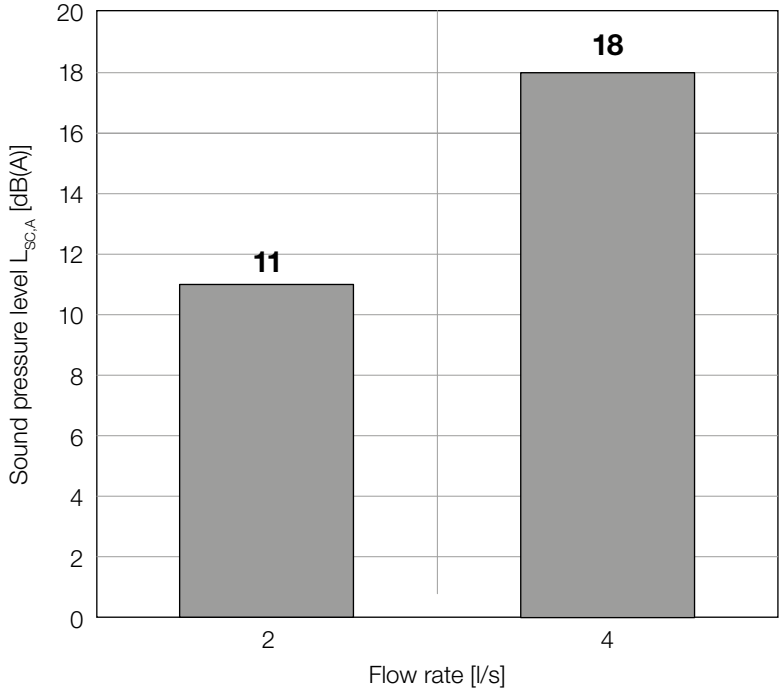
Most of the generated noise spreads inside the pipe but the vibrations are transmitted from the walls of the pipe to the surrounding area and to the bracketing elements and consequently to the building structure.

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 11 dB(A).**

## Sound pressure levels $L_{SC,A}$ in compliance with EN 14366




Certificated P-BA 33/2023 in accordance with EN 14366.


The seal is completely inaccessible thanks to the particular shape of the housing.
The joint guarantees total bore passage thanks to the absence of reductions in the section.

# 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.



Estate - Puegnago del Garda (Italy)

# REFERENCES




Signature Lux Hotel - Johannesburg (South Africa)



Gangdong Millennial Jungheung S-Class - Seoul (South Korea)



Peles Castle - Sinaia (Romania)



The Elements - Colombo (Sri Lanka)



Pendergardens - St. Julian (Malta)



# 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

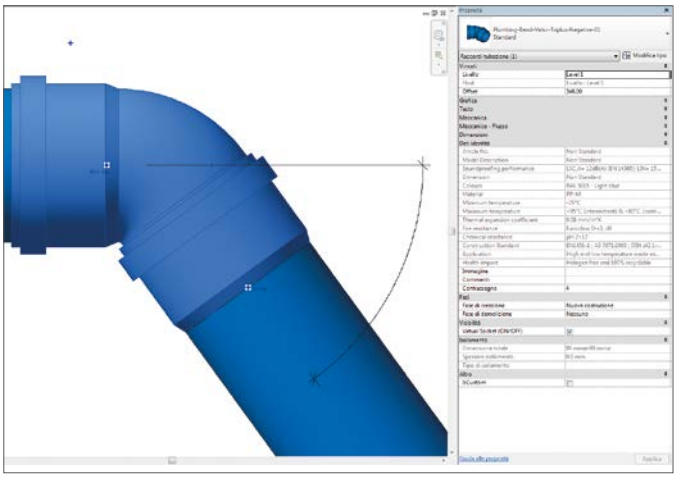
Valsir has an important training facility - **Valsir Academy** - dedicated to clients, distributors, plumbers and planners that provides perfectly equipped courses, both theoretical and practical on the use and the design of plumbing and heating systems. Courses are provided both inside the training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

# VALSIR IS BIM READY

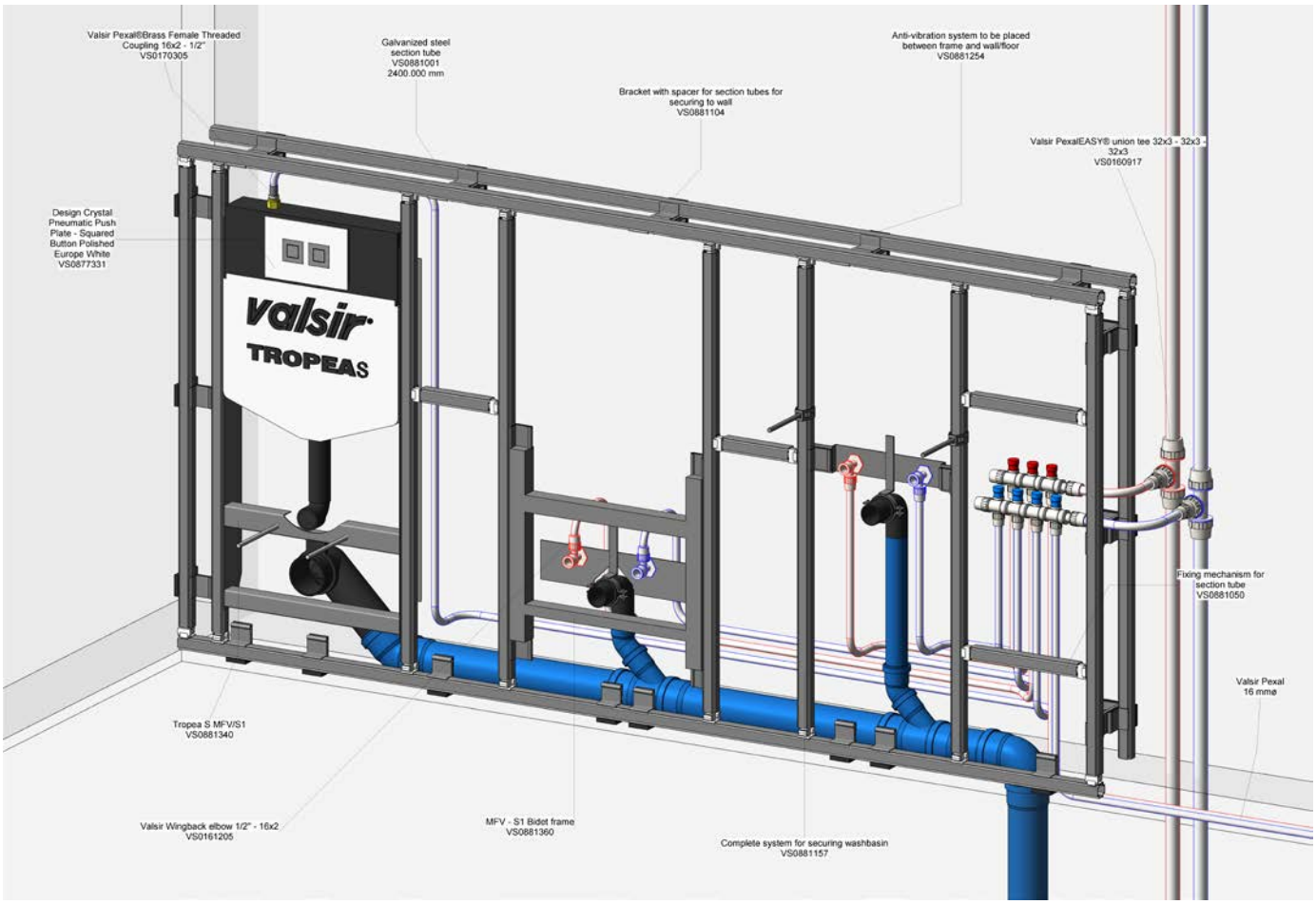
Valsir has adopted the BIM philosophy, the modelling process that allows to improve planning, design, construction and management of buildings, aligning with the industry transition to digital building modelling.

A “BIM-oriented” design offers outstanding competitive advantages: more efficiency and productivity, less errors, less downtime, less costs, greater interoperability, maximum information sharing, more timely and consistent project control.

Valsir captures the essence of this system with a set of Revit models and applications designed for quick and easy use.



[www.valsir.it/u/revit](www.valsir.it/u/revit)



# QUALITY AND ENVIRONMENT

## Quality

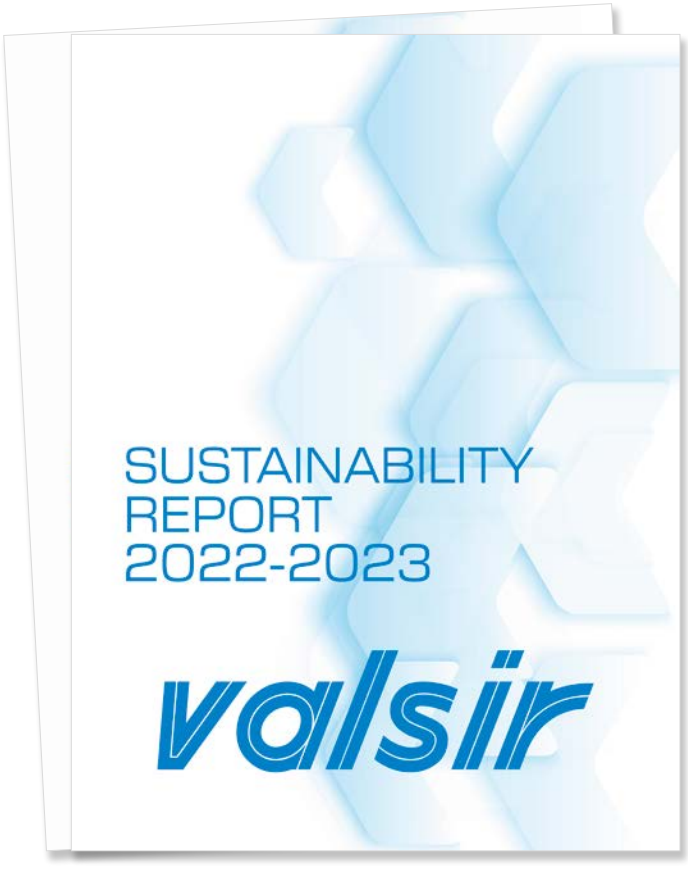


The constant commitment of Valsir in the production of high-quality products is demonstrated by over **350 product approvals** obtained worldwide from the most stringent certification bodies (data updated to 01/06/2025), by a Quality Management System (QMS) certified in accordance with the **UNI EN ISO 9001:2015** standard, and by the Energy Management System (EMS) certified according to the **UNI EN ISO 50001:2018** standard.
Valsir S.p.A. has further demonstrated its environmental commitment by obtaining **ISO 14001:2015** certification.
Since 2019, an innovative facility has been in operation, which, integrated with the already installed photovoltaic park, produces over 30% of the electricity required for Valsir's manufacturing plants. This is a trigeneration system powered by methane gas, capable of producing electricity, steam, and cooling energy.

## Sustainability

Efficient processes and reliable products are no longer the only criteria for evaluating the quality of a company's operations. Today, an equally decisive factor is the ability of the company and its management to design and implement production processes that are environmentally sustainable.

Valsir has launched a Corporate Social Responsibility (CSR) project, which includes the creation of a Sustainability Report. This report gathers information and data on the company's daily commitment in the social, economic, and environmental fields.




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**www.valsir.it/u/sostenibilita-en**

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