



valsir

PP

**Push-fit flame retardant
waste and drainage system
inside buildings**

MADE IN ITALY



valsir[®]
QUALITY FOR PLUMBING



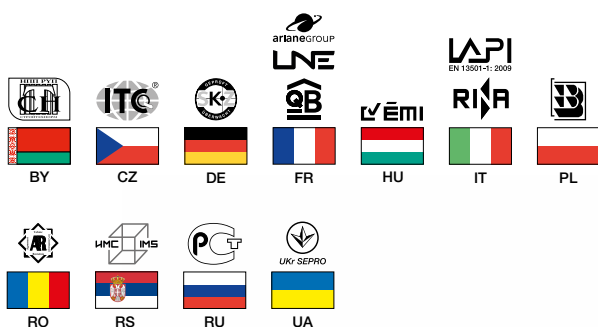
Golf Club Riviera - Cattolica (Italy)



Valsir PP, the push-fit system that stands out for its simplicity

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

Valsir PP is an extremely light system and thanks to the push-fit socket with hydraulic seal it represents the most simple solution for **the construction of waste and drainage systems.**



Valsir PP is manufactured to 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 the branches to sanitary appliances to the stacks and waste manifolds.

MADE IN ITALY



Athénée Palace Hilton - Bucharest (Romania)

LIGHT WEIGHT, SIMPLICITY AND RELIABILITY

The advantages of using the Valsir PP waste system

- **Light weight and extreme ease of installation** on site without the aid of special tools, thanks to the push-fit connection. Furthermore, the push-fit socket does not require the use of harmful glues or solvents.
- **Corrosion and abrasion resistance.**
- Resistance to intermittent discharges at **temperatures as high as 95°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.**
- Wide range of transition fittings for connection to other waste systems such as cast iron, PE, PVC.
- The product, its recyclability and the production processes used are based on **Green Building principles**, in respect for the environment and for the conservation of resources.

Push-fit socket with lip seal

The push-fit socket with lip seal guarantees water tightness and allows movement of the pipe due to thermal expansion. The geometric characteristics of the socket ensure installation speed and simplicity.

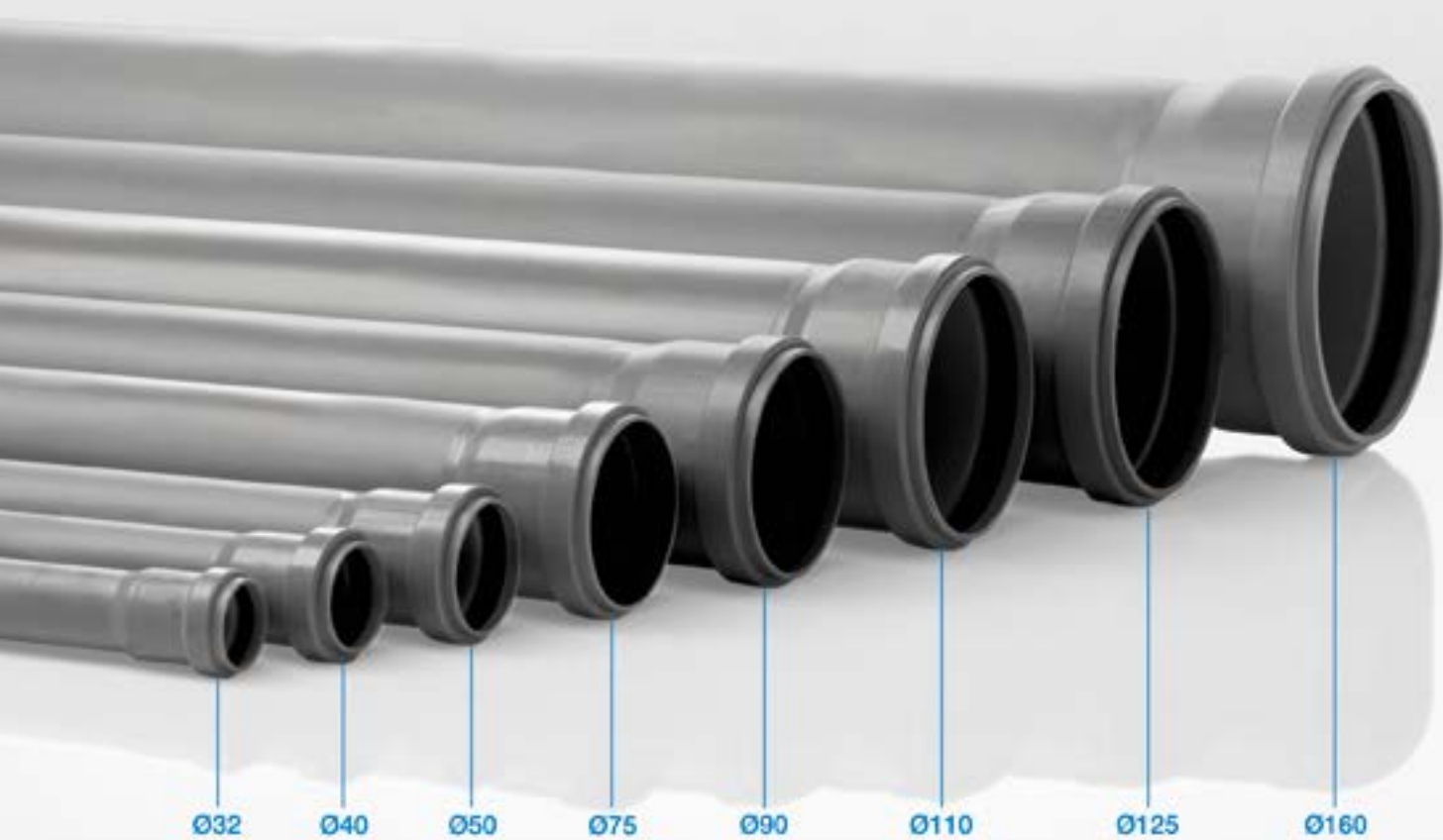


Polypropylene

Pipes and fittings are made of polypropylene that guarantees **light weight**, high **resistance to chemical agents**, excellent resistance to **abrasion** and **extremely smooth internal surface**.

The Valsir PP 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 does not come under the attack of 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.



Ø32

Ø40

Ø50

Ø75

Ø90

Ø110

Ø125

Ø160

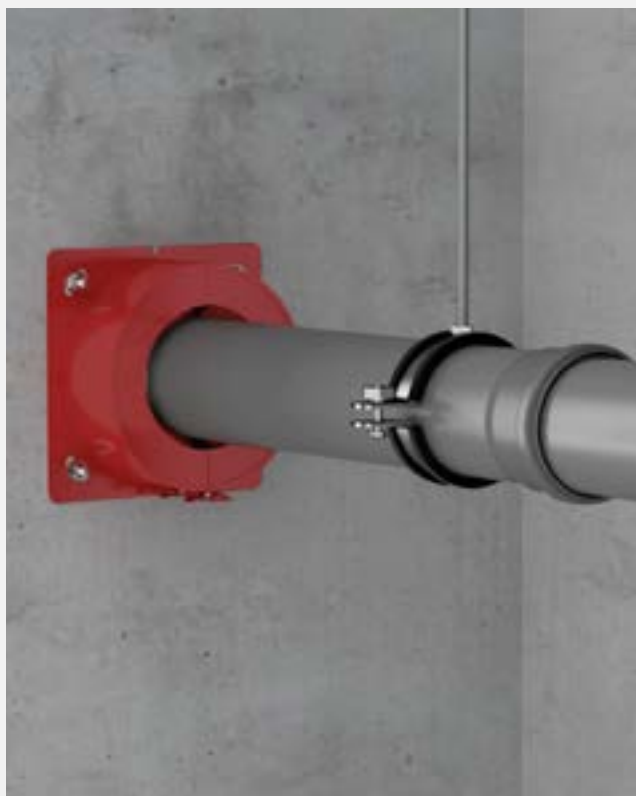
A COMPLETE RANGE FOR ALL REQUIREMENTS

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 the waste manifolds.

The range is made complete with accessories for connection to other Valsir waste systems, accessories for connection to sanitary appliances and anchor brackets.



Fire collars

Valsir PP has a very good resistance to fire, it is in fact **class B1 in compliance with German Standard DIN 4102-1 and class M1 according to NF P 92-505.**

However, 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.**



PUSH-FIT JOINT: RAPID AND EASY INSTALLATION

Valsir PP ensures a practical and rapid installation without the use of 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 PP 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 coefficient of thermal expansion that the push-fit joints are capable of absorbing the variations in length of the pipe without taking any particular precautionary measures; it is enough to follow the installation instructions in the Valsir technical manuals.



The bi-joint sleeve to reduce wastage to a minimum

To allow the use of leftover pieces of pipe, 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.



Il cascinale - Puegnago del Garda (Italy)

RÉFÉRENCES



The Romanian Athenaeum - Bucharest (Romania)



Victoria Aqua Park - Samara (Russia)



Dinamo Stadium - Bucharest (Romania)



Peles Castle - Bucharest (Romania)



Ristorante La Passerella - Wien (Austria)



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

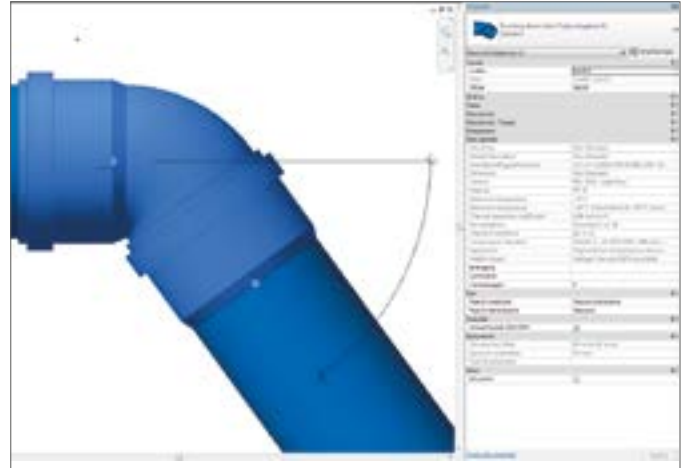
Valsir has an important training facility - **Valsir Academy** - dedicated to clients, distributors, plumbers and planners that provides perfectly equipped courses, both theoretical and practical on the use and the design of plumbing and heating systems. Courses are provided both inside the training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

VALSIR IS BIM-READY

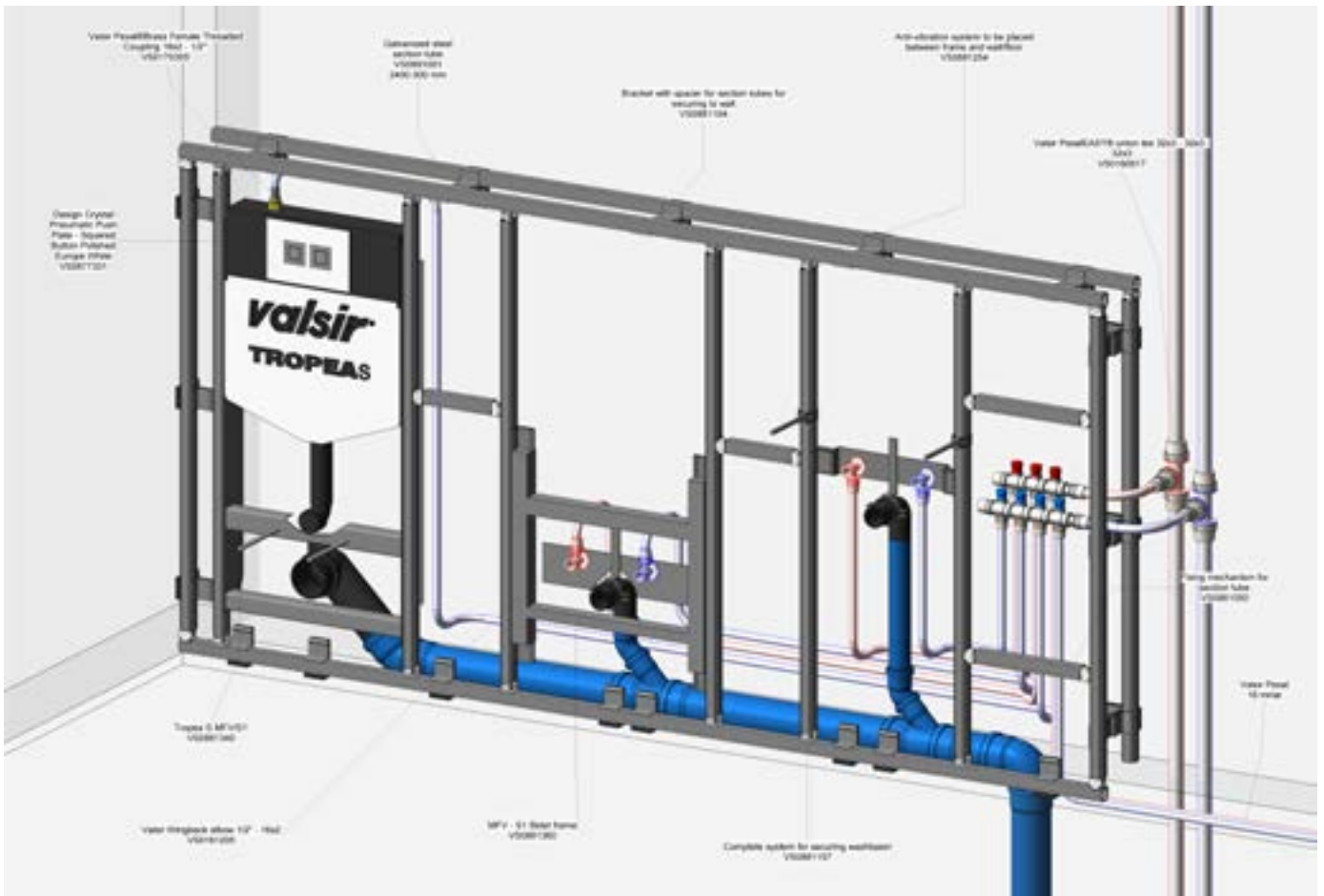
Valsir has adopted the BIM philosophy, the modelling process that allows to improve planning, design, construction and management of buildings, aligning with the industry transition to digital building modelling.

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



QUALITY AND ENVIRONMENT

Quality

The constant commitment of Valsir in the production of quality products is attested by over **300 product approvals** obtained throughout the world by the most stringent certification bodies (data updated to 01/04/2024), by a Management System of the Quality (QMS) certified in compliance with the **UNI EN ISO 9001:2015** standard and the Energy Management System (SGE) certified according to the international standard **UNI EN ISO 50001:2018**. Valsir S.p.A. has further demonstrated its commitment to the environment by obtaining certification **ISO 14001:2015** on the Vestone production site.

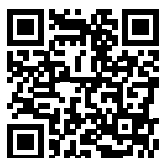
Since 2019 an innovative and modern plant has also been built that, integrated with the already installed photovoltaic park, will be able to produce over 30% of the electricity needed for all Valsir plants. This is a Trigenerator powered by methane gas capable of producing electricity, steam and cooling energy.



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 Sustainability Report that gathers facts and figures relating to the daily commitment of Valsir in terms of social, economic and environmental responsibility.



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





WASTE SYSTEMS



SUPPLY SYSTEMS



GAS SYSTEMS



FLUSHING SYSTEMS



BATHROOM SYSTEMS



TRAPS



RADIANT SYSTEMS



DRAINAGE SYSTEMS



HRV SYSTEM



ACADEMY



SEWER SYSTEMS



WATER TREATMENT



valsir®
QUALITY FOR PLUMBING



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