Sanitary Manifolds

Manifolds • Pipe Systems • Accessories

www.emmeti.co.uk
Sanitary Manifolds

Company Overview

The Group
Our parent company Emmeti S.p.A. was founded in 1976, initially marketing components for heating systems before making a shift in 1984 to focus on automated assembly and distribution. Since then Emmeti have expanded rapidly and now operate in more than 65 countries worldwide with sales and marketing offices in Italy, Spain, France, Brazil and North America as well as the UK.

Emmeti has a wide range of products targeted at the heating, plumbing, renewable and air conditioning markets and is committed to developing products which reduce and monitor energy consumption. In recent years they have developed significant renewable energy products, and continue to innovate in this emerging field. They also operate to the highest possible standards and satisfy the requirements of ISO 9001:2000 for their Quality Management System and ISO 14001:2004 for their Environmental Management System. Emmeti have two large manufacturing and assembly plants in Italy and in 2009 developed and built a third factory, the Multi-layer pipe facility. This factory covers 10,000m² with a dedicated laboratory and 2 working lines which have the capacity to produce up to 30,000,000 metres of pipe per year.

Emmeti UK
We established Emmeti UK in Burford, Oxfordshire in 2004, to distribute and support Group products from a UK base. We sell only to trade customers (excluding directly to installers), via only O.E.M, distributors, wholesalers, merchants, system houses and specialist renewable companies nationwide who serve the needs of the rapidly growing underfloor heating market as well as the heating and plumbing sector. We have achieved a reputation for excellence in fast order turnaround together with sales and technical support for our customers.

From our central warehouse located near Oxford we are able to offer ex-stock next day. This is supported by weekly shipments from our manufacturing base in Italy.

We are able to offer innovative new products to the UK market, with the substantial resources and back-up of the Emmeti Group as well as tailoring products to a customer’s own specification. We have recently gained BBA approval for our manifold and pipe and many of our products are WRAS approved for sanitary use.

Products
We have developed a product portfolio specially designed to cater for the UK plumbing and heating markets, in particular the underfloor heating, wall hung radiator heating and sanitary water sectors. Core products for the markets we serve are:

- Manifolds and fittings for sanitary water distribution
- Emmeti Gerpex Multi-layer composite pipe and press fittings
- Manifolds and fittings for radiator and underfloor heating systems
- Pipe, insulation and accessories for underfloor heating
- Zone controls for radiator and underfloor heating, including thermostats, actuators and wiring centres
- Expansion vessels for both heating and potable water applications
- Manual and thermostatic radiator valves
- Manual and motorised ball valves
- Pressure reducing valves

Product Standards & Customer Support
All of our products are manufactured to comply with European standards wherever possible. Additionally, where appropriate, our products also satisfy the requirements of WRAS for use in potable water systems. More recently, we have gained BBA approval for our manifold systems as can be seen in our technical product guides available on-line. In addition, we have provided individual installation guides with each product and copies can be obtained by going on-line or by contacting our sales office.

We have designed this brochure to showcase the range of sanitary manifold systems available to our customers and included technical information designed to make the job of decision making as simple as possible.

If you would like to receive regular product updates, news and technical articles, please register via our website or, if you are viewing this page electronically, simply click on the link http://www.emmeti.co.uk/news-update

Our Emmeti UK website offers on-line access to literature, product data, technical information, articles, and the latest product launches: www.emmeti.co.uk

For further details such as product codes and prices please refer to our Emmeti Product Price List or visit our website www.emmeti.co.uk, or alternatively please call us on 01993 824900
Sanitary Manifolds

An Overview of Sanitary Manifold Systems

By using an Emmeti sanitary manifold in a point to point plumbing configuration you can greatly reduce the number of joints in your system, speeding up installation time and vastly reducing the chances of a leak. A manifold system also allows you to reduce certain pipe sizes per outlet, which will save on material and installation cost (e.g. WC feed with 10mm and shower feed with 16mm).

What is Point to Point Plumbing?

Point to point plumbing is a method of installation using a manifold to distribute hot and cold water to items of sanitary ware and appliances around the property (such as washing machines, sinks, baths, dishwashers, and so on). Each individual outlet is supplied using a continuous length of pipe from the manifold, with joints at the outlet and at the manifold only. This reduction of joints in the system reduces installation time and vastly decreases the potential for leaks, which can lead to costly repair claims and damage to reputation.

The examples above show how the use of a manifold eliminates all concealed intermediate joints (that could potentially leak) against the conventional method of installation. The pipe distributed to each outlet can be tailored to suit individual requirements i.e. 16mm to shower and 10mm to basin and WC. The manifolds shown also allows for isolation at each outlet in the event of any repair work or maintenance.

<table>
<thead>
<tr>
<th></th>
<th>Number of fittings (Tees &amp; Elbows)</th>
<th>Number of joints</th>
</tr>
</thead>
<tbody>
<tr>
<td>Point to point example</td>
<td>0</td>
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<tr>
<td>Branch example</td>
<td>7</td>
<td>25</td>
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</table>

A joint in a water system is the most likely place for a leak to occur. We offer the ability to greatly reduce this potential risk by reducing the number of joints in the system.

The table above shows the principles of point to point plumbing. There is a huge difference in the number of joints between traditional branch and point to point systems (up to 70%), saving installation time and vastly reducing the potential for a leak. The reduction in fittings along with the speed of installation will offset any additional costs incurred when purchasing the manifold and additional pipe.

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Sanitary Manifolds

How a Sanitary System Works Within a Building

Domestic Applications
Sanitary manifold system supplying main bathroom and en-suite.

A sanitary manifold located in the airing cupboard to distribute hot and cold water to each individual outlet such as showers, sinks and WC. Each individual outlet is supplied using a continuous length of pipe (point to point) from the manifold which means that the only joints created are at each point. The elimination of fittings greatly reduces installation time and potential for future leaks. The addition of isolation for each outlet enables future maintenance and repair work to be carried out easily.

Sanitary manifold system supplying utility and kitchen outlets

Using two pairs of sanitary manifolds, generally located under the sink or in a termobox, hot and cold water is distributed to outlets and appliances in a continuous length of pipe to eliminate any concealed joints behind kitchen units and in floor construction. Please see pipes routed behind units and within flexible conduit in screed.
How a Sanitary System Works Within a Building

Commercial Applications

Sanitary manifold system supplying hotel bathroom outlet

Bathroom outlets supplied from main hot and cold service pipework via manifolds located within service hatches in main corridor. This will allow isolation of individual rooms to facilitate maintenance and repair work in case of emergency while ensuring business continuity. The point to point method ensures that there are no concealed joints which could potentially leak, causing disruption to hotel guests and expense to hotel owners.

This type of installation is ideally suited to POD construction such as pre-fabricated army barracks and student accommodation.
### Sanitary Manifolds

#### How a Sanitary System Works Within a Building

**Commercial Applications**

Rising mains in a multi-story building with sanitary manifold systems feeding off to washrooms.

Using sanitary manifold systems on each level in a multi-story building enables the isolation of individual outlets, rooms, or indeed entire floors, for repair and maintenance. The ability to safely isolate parts of the building whilst keeping the majority of it operational ensures business continuity for the owners.

The main hot and cold water pipework and the manifolds are easily accessible within riser cupboards and there are no concealed joints which could potentially leak, minimising the risk of disruption to occupants.

This type of installation is ideally suited to offices, shopping centres, higher education and high rise multi-occupancy projects such as student accommodation.

This drawing shows 63mm Gerpex MultiLayer Composite Pipe installed as the main hot and cold risers with 16mm Gerpex feeding from the Topsan Manifold to each outlet.
Sanitary Manifolds

Key Benefits

For the Installer

• Provides you with individual isolation of sanitary appliances if required. You are able to isolate parts of the system whilst the rest remains operational, reducing disruption for installation and maintenance. 

• Reduced installation time of between 30%-40% due to less joints.

• Gives you a reduction of up to 70% of joints, with virtual elimination of tees and elbows, therefore less chance of leaks both during and post installation.

• Ensures that you have good accessibility in the event of a problem - limits the points at which a leak could occur to the point of use and the manifold, significantly reducing the time for fault finding.

• All joints are above ground and are easily accessible.

• Monoblocco connectors allow you to tailor the outlet sizes for different pipe sizes going to different outlets. You can therefore optimise the pipe size to be installed per outlet.

• Allows you to adjust the flow rates to individual outlets.

• Allows an easier understanding of water system schematics in relation to points of isolation. This will ensure future maintenance and repair can be carried out with minimum disruption.

* Only applies to Topsan and Multiplex Manifolds

For the Main Contractor / Developer

• Gives you peace of mind. Having fewer and easier to access joints reduces the risk of delays and call backs.

• Allows you to improve planning, organisation and standardisation on site, benefitting the build program for your project.

• Provides you with first fix isolation benefitting your build program.

• Benefits health and safety on your project, cuts down the amount of hot works on site.

For the Building Occupier / Owner

• Gives you the flexibility of central and individual control – when maintenance is required, rather than isolating a whole system (such as the mains supply tap under the kitchen sink) the service engineer can isolate individual circuits. This minimises drain-down time, and reduces system recovery issues on re-commissioning.

• Each circuit is marked with an icon, and whether it is hot or cold, allowing easy identification of which isolating tap to close. The manifolds are supplied with individual identification stickers to apply during installation.

• In the unlikely event of a leak, you have the significant advantage of being able to isolate only the circuit that has the leak, whilst continuing to use the other outlets, until remedial work can be arranged.

• Provides you with considerably reduced maintenance costs through less disruption, down-time and maintenance engineer cost and time on site.

• Your manifolds can be installed in a convenient location such as a riser or service cupboard for easy access meaning less disruption to the building occupiers and ease of repair/maintenance for engineers and contractors.

• Having good accessibility will mean that your ongoing water risk assessments will be easier to conduct.

* Only applies to Topsan and Multiplex Manifolds

For the Specifier

• By specifying this system it allows you to add value to the project with an improved method of installation. This will optimise time on site whilst selling confidence to the client with ease of maintenance and reduced chance of leaks.

• Innovative concept that will distinguish your project from other designers.

• Manifolds give you a precise, neat design and layout allowing a convenient central location for distribution, service and maintenance. Manifolds installed in riser or service cupboards mean lack of disruption to the building occupiers and ease of repair/maintenance for engineers.

• Can offer cost savings due to shorter lengths of primary hot and cold pipework between the source and manifold.

For further details such as product codes and prices please refer to our Emmeti Product Price List or visit our website www.emmeti.co.uk, or alternatively please call us on 01993 824900
Sanitary Manifolds

The Emmeti Sanitary Manifold Range

We offer four types of manifold for use in sanitary plumbing. The choice of manifold will depend on the features required for your project:

**TopSan**
Supplying the greatest number of outlets as a single piece unit with up to 12 ways each with isolation and identification labels.

See Page 10.

**Multiplex**
Offering 2-4 ways with individual isolating taps presented at a 45° angle. See Page 11.

**Topway SN**
Distribution only manifold with 2-12 ways. See Page 12.

**Modular**
Distribution only manifold with 2-4 ways. See Page 13.

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### Product Comparison

<table>
<thead>
<tr>
<th></th>
<th>Topsan</th>
<th>Multiplex</th>
<th>Topway SN</th>
<th>Modular</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Applications</strong></td>
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<td>Sanitary &amp; Radiator</td>
<td>Sanitary &amp; Radiator</td>
<td>Sanitary &amp; Radiator</td>
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<td>¾” &amp; 1” options</td>
<td>¾”, 1” &amp; 1 ¼” options</td>
<td>¾” &amp; 1” options</td>
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<td>10 – 20mm*</td>
<td>10 – 20mm*</td>
<td>10 – 20mm*</td>
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<td>2 to 4</td>
<td>2 to 12</td>
<td>2 to 4</td>
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<tr>
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<td>Yes, with coupling</td>
<td>Yes, with coupling</td>
<td>Yes, screw together</td>
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<td>10 Bar</td>
<td>10 Bar</td>
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<td>No. 1006044</td>
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</tr>
</tbody>
</table>

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* Monoblocco connectors are available to suit pipe sizes 10-20mm and pipe types (PB, PE-Xa, PE-RT, MLCP, & copper)

For further details such as **product codes** and **prices** please refer to our Emmeti Product Price List or visit our website [www.emmeti.co.uk](http://www.emmeti.co.uk), or alternatively please call us on 01993 824900
Sanitary Manifolds

Key Features of a Typical Sanitary Manifold

The full range of sanitary manifolds are available with between 2 and 12 ways (1 way required for each item of sanitary ware / outlet that the manifold is supplying).

1. **Ball Valve** - for complete system isolation

2. **Inlet connections** – Pipe coming into the manifold distributing in either hot or cold water. ¾", 1", and 1 ¼" connections are available depending on the manifold used.

3. **Outlet connections** – Standard 24 x 19 thread designed to take Emmeti Monoblocco connectors to suit pipe sizes 10mm – 20mm, and a range of pipe types such as PB, PE-Xa, PE-RT, MLCP & copper

4. **Extension** – If additional ways are required, manifolds can be joined together with a coupling. A blanking plug is used at the end of the manifold.

5. **Individual isolating taps** – Allows for isolation and adjustment of flow rates for each sanitary outlet. Each outlet (e.g. sink, bath, etc) is identified by applying a small blue or red label with an icon designating the point of use (labels supplied with product)*

6. **Mounting** – The manifolds can be surface mounted on brackets, concealed in a purpose designed plastic cabinet or within a partition wall. (Manifolds should always be mounted rather than being supported by the pipes to reduce the risk of leaks caused by movement from temperature changes in the pipes).

*Only applies to Topsan and Multiplex Manifolds

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Sanitary Manifolds

The Emmeti Manifold Range - Topsan

Topsan Sanitary manifold 2-12 ways with individual isolating taps

A range of WRAS approved nickel plated, extruded brass manifolds with ¾” inlet connection. Available from 2 to 12 ways per manifold to suit a wide range of applications. Wheelhead isolation valves are fitted to each outlet with red and blue labels supplied for easy identification of each outlet.

TopSan is supplied in single rails for flexibility when mounting using our slider rail system. This enables the rails to be mounted either offset above one another or side by side. TopSan can also be mounted in the ‘Termobox’ plastic manifold cabinet which has the slider rail system moulded in and needs only the slider rail brackets.

Also available are ball valves, mounting brackets, fittings and WRAS approved Monoblocco pipe connectors for a wide range of pipe types and sizes.

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inlet connection</td>
<td>¾”</td>
</tr>
<tr>
<td>Outlet connections</td>
<td>24 x 19’</td>
</tr>
<tr>
<td>Outlet centres</td>
<td>36mm</td>
</tr>
<tr>
<td>Ways</td>
<td>2 to 12</td>
</tr>
<tr>
<td>Extension</td>
<td>Yes, with coupling **</td>
</tr>
<tr>
<td>Individual isolating tap</td>
<td>Yes, each outlet</td>
</tr>
<tr>
<td>Identification of individual appliances</td>
<td>Red / Blue coding labels supplied</td>
</tr>
<tr>
<td>Maximum operating pressure</td>
<td>10 bar</td>
</tr>
<tr>
<td>Maximum operating temperature</td>
<td>110°C</td>
</tr>
</tbody>
</table>

* Monoblocco connectors are available to suit pipe sizes 10 - 20mm and pipe types (PB, PE-Xa, PE-RT, MLCP, & copper)
** Consider pressure drop and flow rate if going above 12 ways

Topsan manifold assembly: exploded image of fully assembled kit

1. Ball Valves
2. Monoblocco Connectors
3. Manifold c/w Wheelhead Isolation Valves
4. Blanking Plug
5. Aluminium Slider Rail
6. Brackets

For further details such as product codes and prices please refer to our Emmeti Product Price List or visit our website www.emmeti.co.uk, or alternatively please call us on 01993 824900
Multiplex Sanitary manifold 2-4 ways with individual isolating taps

A range of WRAS approved nickel plated, stamped brass manifolds in ¾” and 1” inlet sizes. Available in 2, 3 and 4 ways per manifold with an extension coupling for greater than 4 way applications. Wheelhead isolation valves at a 45° angle for ease of use with red and blue labels supplied for easy identification of each circuit.

Multiplex manifolds can be mounted using our slider rail system, or the ‘Termobox’ plastic manifold cabinet.

Also available are a range of accessories including ball valves, mounting brackets, fittings and WRAS approved Monoblocco pipe connectors for a wide range of pipe types and sizes.

### Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
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<tbody>
<tr>
<td>Inlet connection</td>
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</tr>
</tbody>
</table>

*Monoblocco connectors are available to suit pipe sizes 10 - 20mm and pipe types (PB, PE-Xa, PE-RT, MLCP, & copper)*

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**Multiplex manifold assembly: exploded image of fully assembled kit**

1. Ball Valves
2. Monoblocco Connectors
3. Manifold c/w Wheelhead Isolation Valves
4. Blanking Plug
5. Plastic Brackets
6. Aluminium Slider Rails
Sanitary Manifolds

The Emmeti Manifold Range - Topway SN

Topway SN Sanitary distribution manifold with 2-12 ways

A range of WRAS approved nickel plated, extruded brass manifold in ¾”, 1” and 1¼” inlet sizes, suitable for heating and hot water applications where isolation at the manifold is not required. Topway SN allows up to 12-way as a single piece without interconnecting 2 or 3, 4-way manifolds.

There are a number of different ways to mount the manifolds such as our slider rail system, metal brackets or placed within a ‘Termobox’ plastic manifold cabinet.

Also available are ball valves, mounting brackets, fittings and WRAS approved Monoblocco pipe connectors for a wide range of pipe types and sizes.

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
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<tr>
<td>Inlet connection</td>
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<td>Extension</td>
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<tr>
<td>Individual isolating tap</td>
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<td>Maximum operating temperature</td>
<td>110°C</td>
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</tbody>
</table>

* Monoblocco connectors are available to suit pipe sizes 10 - 20mm and pipe types (PB, PE-Xa, PE-RT, MLCP, & copper)
** Consider pressure drop and flow rate if going above 12 ways

Topway SN manifold assembly: exploded image of fully assembled kit

1. Ball Valves
2. Monoblocco Connectors
3. Manifold
4. Blanking Plug
5. Blanking Plug
6. Metal Brackets

For further details such as product codes and prices please refer to our Emmeti Product Price List or visit our website www.emmeti.co.uk, or alternatively please call us on 01993 824900
Modular simple Sanitary distribution only manifold with 2-4 ways

A range of WRAS approved nickel plated, stamped brass manifold in ¾” and 1” inlet sizes. Available in 2, 3 and 4 way options, which can be screwed together to create extended manifolds.

Modular sanitary manifolds are a cost effective way to install point to point plumbing in order to reduce concealed intermediate joints. It can be easily connected to any of the wide range of WRAS approved plastic pipes available, by using Emmeti Monoblocco single-piece connectors. It can also be used with conventional copper pipe if required.

Modular manifolds can be mounted using our slider rail system, or placed within a ‘Termobox’ plastic manifold cabinet.

Also available are ball valves, mounting brackets, fittings and WRAS approved Monoblocco pipe connectors for a wide range of pipe types and sizes.

<table>
<thead>
<tr>
<th>Inlet connection</th>
<th>¾” &amp; 1”</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outlet connections</td>
<td>24 x 19”</td>
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<td>Outlet centres</td>
<td>36mm</td>
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<tr>
<td>Ways</td>
<td>2 to 4</td>
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<tr>
<td>Extension</td>
<td>Yes, screw together</td>
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<tr>
<td>Individual isolating tap</td>
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<tr>
<td>Maximum operating pressure</td>
<td>10 bar</td>
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<tr>
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</tbody>
</table>

* Monoblocco connectors are available to suit pipe sizes 10 - 20mm and pipe types (Pb, PE-Xa, PE-RT, MLCP, & copper)

** Use thread sealant when extending.

Modular manifold assembly: exploded image of fully assembled kit

1. Ball Valves
2. Monoblocco Connectors
3. Manifold
4. Blanking Plug
5. Plastic Brackets
6. Aluminium Slider Rail
Sanitary Manifolds

Monoblocco connectors

Emmeti Monoblocco connectors are patented, WRAS approved single piece adaptors available to suit pipe sizes 10 - 20mm and pipe types (PB, PE-Xa, PE-RT, MLCP, & copper). The table below shows some examples of the pipes catered for, see our Price List for full details available from our website at www.emmeti.co.uk

Monoblocco connector for plastic PB polybutylene pipe, nickel-plated

<table>
<thead>
<tr>
<th>Size mm</th>
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<tr>
<td>10</td>
<td>24x19</td>
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<td>12</td>
<td>24x19</td>
</tr>
<tr>
<td>15</td>
<td>24x19</td>
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Monoblocco connector for copper pipe, nickel-plated

<table>
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<th>Size mm</th>
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<tbody>
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<td>10</td>
<td>24x19</td>
</tr>
<tr>
<td>15</td>
<td>24x19</td>
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Monoblocco connector for MLCP multilayer composite pipes, nickel-plated

<table>
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<td>16 x 2.25mm</td>
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<tr>
<td>17 x 2mm</td>
<td>24 x 19</td>
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<td>20 x 2.25mm</td>
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<tr>
<td>20 x 2.5mm</td>
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Monoblocco connector for PEX, PE-RT and PB pipe, nickel-plated

<table>
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<th>Size mm</th>
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<td>20 x 2mm</td>
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<td>20 x 2.8mm</td>
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Sanitary Manifolds

Manifold Accessories and Associated Products

Gerpex MLCP

WRAS approved Multi-layer Composite Pipe for use in point to point systems.

Construction
Multilayer pipe for plumbing systems made of composite material through a technologically advanced process with which a PE-Xb (cross linked polyethylene) pipe is combined to an aluminium core (minimum thickness 0.2 mm) welded on top, coated on the outside with another layer of PE-Xb (PE-HD, size 40–63).

Gerpex pipes combine the processing and durability advantages of a plastic pipe to the sturdiness and dimensional stability to temperature and pressure of a metal pipe.

The Range
Available in rolls with diameters of DN 16, 20, 26, 32 and in bars DN 16, 20, 26, 32, 40, 50, 63. The pipe on rolls is also available pre-insulated with closed cell expanded polyethylene sheath, cross-link coating to protect against heat loss and freezing.

Termobox Manifold boxes

Integrated into the back panel of the box are two slider rails, representing an upper and lower manifold rail. Choosing a plastic bracket support kit allows you to match your manifold requirements exactly, including the facility to offset the flow manifold from the return manifold.

All walls have snap out panels, allowing the installer control of the manifold and pipe orientation in the box.

Size mm

<p>| | | |</p>
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<tr>
<th></th>
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<tr>
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<td></td>
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<td></td>
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For further details such as product codes and prices please refer to our Emmeti Product Price List or visit our website www.emmeti.co.uk, or alternatively please call us on 01993 824900
Sanitary Manifolds

Manifold Accessories and Associated Products

Slider Rails and Brackets

For mounting sanitary manifolds. Manifolds should always be mounted rather than being supported by the pipes to reduce the risk of leaks caused by movement from temperature changes in the pipes. Plastic supporting brackets for use in a Termobox or on a slider rail:

- For Topway & Topsan SN
- For Multiplex & Modular

Metal Brackets

Heavy duty mounting solutions for TopSan and Topway SN manifolds.

Ball Valves

A wide range Ball valves are available, including male/female union and BSP connections as well as with temperature gauge options.

Blanking Plugs

For blanking the end of a manifold when not using as a through piece.

Spanners

These tools allow the installer to easily tighten Monoblocco connectors onto the manifold outlets in the 36 mm inter-axial space provided.

Couplings

Bridging piece for joining Multiplex manifolds together. 
NB. Not suitable for Modular manifolds

Straight swivel adaptors for joining TopSan or Topway manifolds together.
NB. Consideration should be given to pressure drop and flow rate if going above 12 ways

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Sanitary Manifolds

Case Study - Putney Bridge, London

Site Summary
Putney Square is a new development of 1 & 2 bed apartments & a 3 bed penthouse, a total of 210 apartments.

The Application
Sanitary hot and cold distribution plumbing, for bathrooms and kitchen.

The Solution
The WRAS certified Topsan Plumbing Manifold was used. The white distribution pipe work was combined 10mm and 15mm PolyButylene, WRAS approved to BS7291. The manifold is supplied with 22mm PB pipe. The manifold was situated in a low cost recessed plastic cabinet, inside the metal frame stud wall, at an accessible height, generally in a small utility room.

The manifold pipe runs rise up into the ceiling void (the space below the concrete plank construction). Parts of the pipe runs are placed inside plastic conduit for protection and insulation. The pipes are bundled together, using nylon ties and anchored with little bolt and eye fixings.

The Benefits
Point to point plumbing makes installation very fast, no tees and elbows to accommodate. The pipe is uninterrupted from the manifold to the point of use.

You will notice in the images a 7-way and 5-way are shown. This is typical, with the 7-way being cold water (for example toilets only need cold supply). The 10mm pipe, costing less than the 15mm pipe, and slightly faster to install, is used to supply terminal fittings such as basin taps and toilets, where high flow is not required.

The 5-way hot is supplying two basin taps, one bath, one shower and a kitchen tap.

The simple single point of management, with marked up hot and cold isolator taps makes post installation management very simple. This allows independent isolation of each outlet. This is accessible by the occupant, in case of emergency, and also a maintenance engineer, should he be called in. It creates a very neat and tidy ‘Water Fuse Box’. The labelling is not shown here, adhesive labels in red and blue, with icons depicting the terminal fitting are fitted when commissioning.

The Players
This was a Barratts North London site, and the M&E contractor was H2O Plumbing and Heating.

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Sanitary Manifolds

Case Study - Telephone House, High Street, Southampton

Site Summary
This is a full refurbishment of an old office building, BT House, into 100 residential apartments, from 1 to 2 bedroom, with some penthouses.

The Application
Sanitary plumbing for bathroom and kitchen.

The Solution
The WRAS certified Multiplex Plumbing Manifold, with 15mm PolyButylene WRAS approved pipe to BS7291 used as distribution pipe work. The manifold is supplied with 22mm copper pipe. The manifold was situated in a low cost recessed plastic cabinet, inside the metal frame stud wall.

The manifold pipe runs rise up into the ceiling void (the space below the block and beam construction). It is placed inside a conduit which is insulated.

The Benefits
Simple single point of management, with marked up hot and cold isolator taps. This allows independent isolation of each outlet. This is accessible by the occupant, in case of emergency, and also a maintenance engineer, should he be called in.

The Players
This was a Linden Homes Southern site, and the M&E contractor was KA Watts.

A complete sanitary manifold set, the Multiplex is shown here. This has been pressure tested and is ready to be plaster boarded in. Note the simple wooden battens used to support the pipe.

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For further details such as product codes and prices please refer to our Emmeti Product Price List or visit our website www.emmeti.co.uk, or alternatively please call us on 01993 824900.

### TopSan sanitary manifold with isolating taps, nickel-plated brass, 24x19 takeoff connections

<table>
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<tr>
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<th>Ways</th>
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For copper, multilayer, PEX, PP, PB pipe. Please order two rails, one rail for hot and one for cold supply. Separate blue and red labels are shipped with each order, with icons for each plumbed in item. These labels are applied by the installer on site. For 36mm interaxial spacing you need a 27mm spanner, code: 01306046 or 01306054.

For Emmeti Monoblocco connectors, plastic or metal mounting brackets, blanking plugs, and ball valves as shown in the schematic below please refer to the following sections: section 6 Manifold Accessories, section 15 Monoblocco Connectors and Fittings and section 16 Ball Valves. These must be ordered separately.

**Certificate No.** 1006043

**Distance between takeoffs:** 36mm

**Ball Valves**

A range of ¾" Ball Valves are available. For the complete range please refer to section 'Ball Valves' or visit our website www.emmeti.co.uk.

**Manifold**

Code 01282050 (2way) to 012822070 (12 way) ¾"

**Brackets**


**Monoblocco Connectors**

A range of monoblocco connectors are available to suit pipe sizes 10mm - 20mm, and different pipe types PB, PE-Xa, PE-RT, MLCP and Copper. For the complete range please refer to section 'Monoblocco Connectors and Threaded Fittings' or visit our website www.emmeti.co.uk.

**Blanking Plug**

¾" M with O-ring seal Code 90004820

**Aluminum Slider Rail**

Order two per manifold or one 400mm slider rail as this can be snapped into two 200mm lengths by hand. This depends on length required. Code 01306400 400mm or Code 01306398 200mm.

**Additional Bracket Options**

**Single Metal Brackets**

(Sold in pairs)

Code 90011500 - ¾"

**Double Metal Brackets**

(Sold in pairs)

Code 90011530 - ¾" 200mm (sits flush to the wall)

Code 90011560 - ¾" 210mm (allows for circulatory pump)

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Respect the environment!
For a correct disposal, the different materials must be divided and collected according to the regulations in force.

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