

# MultiFAR - Europe's First Choice Manifold System

**Versatile solution for sanitation and plumbing systems now available in the UK**

**F**AR is Italy's leading manufacturer of manifold based distribution systems for heating and domestic services. The advantages which the manifold approach in terms of reduced installation time, space saving and easy maintenance make the FAR range a first choice solution throughout Continental Europe.

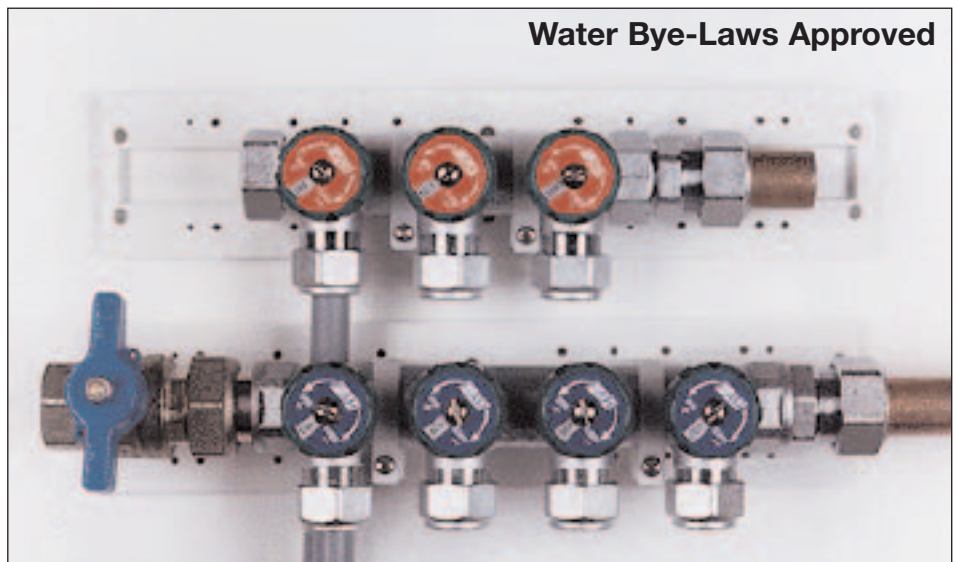
Now SAV is spreading the news of those advantages here in the UK. Consultants, contractors and clients have all been quick to appreciate the benefits and there are already hundreds of successful applications - in hotels, offices, leisure centres, hospitals, schools and homes right across the country.

### Special Connecting System

FAR is more than just another range of manifolds. The special MultiFAR connecting system with dedicated inserts for leak-free material match mean that the manifolds will accept copper, multi layer, or any other type of flexible oxygen barrier pipe from 10-20mm. These inserts - unique to FAR - are so effective in use, that even connections with mixed pipes are possible, provided the correct insert is selected for each type.

*MultiFAR bodies will accept copper or flexible pipework with equal ease.*

MultiFAR manifolds can be used with all types of pipe from 10-20mm diameter and mean an end to the need for elbows, T's and other concealed joints for total, leak-free security. Should it ever be required, any section of pipe can be isolated and replaced with minimum disruption to the system.



Water Bye-Laws Approved

Manifolds can be built up in modules to achieve the number of ports required for each location.

MultiFAR manifolds can be used with all types of pipe from 10-20mm diameter and mean an end to the need for elbows, T's and other concealed joints for total, leak-free security.

The new 4-port version of the popular MultiFAR manifold design, for example, is ideal for application in sanitation and plumbing systems. It will serve four feed pipes and yet is compact enough to be tucked away in any convenient location. No matter how tight the space, the FAR system allows easy identification of all connections to baths, showers, WC's, bidets etc and easy isolation and flow adjustment can be made at the manifold without the need for special tools.

The new 4-Port MultiFAR design requires only six simple connections and can be neatly installed almost  
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## INSIDE STORY

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# FAST AND NEAT - That's The Pipe-In-Pipe Solution

The new AquaFAR manifold based distribution system is already proving its worth in practical applications. Graham Maller of Wilsam Heating Ltd is one of the first to put the new system to the test. His company is installing heating and domestic hot water services at a large private house currently being built by Willowmead. The seven bedroom property in the Surrey stockbroker belt is valued at around £3.5 million and will feature a six car garage, indoor swimming pool and fitness centre.

All pipework is totally concealed and both heating and domestic services are pressurised at around 3 bar by means of specially designed packaged booster sets.

Graham Maller has no doubts about the benefits of AquaFAR.

"Although this project is a house, it is around the size of a small hotel and great

care is taken over the tiniest detail. Because of the wide range of floor finishes including marble, it was preferable to chase the pipework for radiator connections and plumbing services into the walls. This approach may use more pipe, but the FAR system makes it quicker and cleaner.

Exposed pipes are completely unacceptable and with AquaFAR there is no need for concealed and inaccessible joints. We were able to install and even pressure test the system before plastering began.

Because the bodies of the MultiFAR manifolds on which the system is based will accept any kind of pipe, we've been able to use copper up to the manifolds

and then run Qualpex flexible plastic pipe to the individual manifolds. Hot and cold water connections can be clearly identified at the manifold so that each individual outlet - tap, showerhead etc - can be readily identified and isolated.

Regulating valves for this part of the system are also located at the manifolds, which are compact and relatively easy to conceal. This makes the system easier to set up and to isolate individual lines in the future, should a leaking tap or showerhead need to be replaced."

The comprehensive range of accessories and components includes a compact mounting box to house the manifold itself, which can be built up in two or three port modules by means of flanges with nitril gaskets between each unit to ensure a perfect seal.

The bodies of MultiFAR manifolds will accept copper, or flexible pipe with equal ease. A unique connecting system, with dedicated inserts for leak-free material match, means that the manifolds can be used with copper, multi layer or any other type of flexible oxygen barrier pipe from 10 - 20mm. These special inserts - unique to FAR - are so effective in use that even connections with mixed pipes are possible provided the correct insert is selected for each type.

Pipes can be run from the manifold either through the floor, or chased into the wall. At the outlet end pipes are fed through AquaFAR plastic terminal casings.

The terminal boxes can be located in a suitable wall position with the aid of the AquaFAR mounting plate to ensure perfect alignment. Pipes can then be connected to the outlet taps by means of the 1/2 inch



## PIANA - THE FINISHING TOUCH



AquaFAR ensures fast, easy installation and provides a neat terminal ready for connection to the outlet. Now we've added a brand new range of interface connections to our portfolio.

Made in the north of Italy to the highest quality control standards, the Piana range offers a fitting for every application, for every type of tap and shower head.

Elbows, straights, fittings with integral valves and strainers - the Piana range has them all in a choice of chromed or stainless finish.

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anywhere, with easy access for future adjustment and maintenance of the system. Remember -



minimising on site connections save time and money. MultiFAR 4-Port manifolds are designed for operating temperatures up to 100°C and operating pressures up to 10 bar.

female AquaFAR brass terminal fittings, which feature a small circular flange with pre-drilled holes for easy fastening to the plastic terminal box. The end result is a neat finish with only the brass terminals visible on the wall and ready for simple connection to the outlet tap etc.



# Fast And Efficient Connections

## For New Docklands Centre

**E**xCel in the heart of London's Docklands is the capital's major new exhibition and conference centre. A huge range of facilities is available within the 90,000 m<sup>2</sup> ExCel pavilion just to stone's throw from Canary Wharf - to accommodate everything from a board meeting of eight directors up to an international exhibition attracting thousands of visitors.

Restaurants and bars are available to refresh the visitor and a hotel and nightclub will soon be joining the on site attractions.

Behind the scenes MultiFAR manifolds distribute hot and cold water services to the 600 washbasins located throughout ExCel.

Gary Leek of mechanical and electrical

contractors Drake and Skull explains how the MultiFAR approach saved valuable on site time.

MultiFAR manifolds improved our installation time.

Fewer connections were needed as the manifolds have all the valves already connected. The manifolds were ideal for use with flexible pipes.

Hep2O pipework was used at ExCel for connections from the manifold to the hot and cold outlets. MultiFAR manifolds are ideal for use with this and any other type of flexible pipe. The special connecting system with dedicated inserts for leak-free

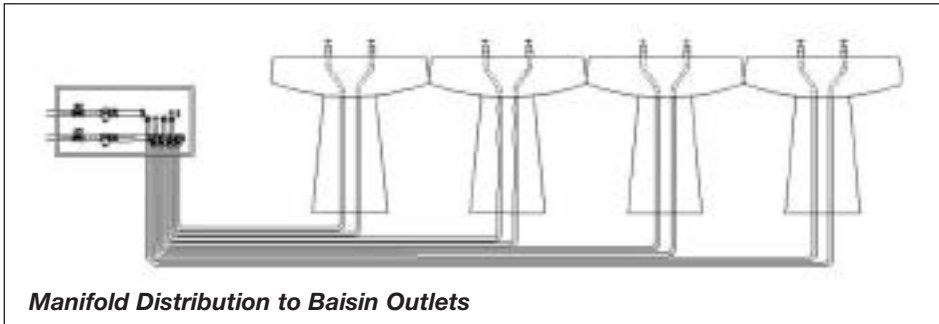


*The New ExCel Pavilion*

material match mean that the manifolds will accept copper, plastic, multi-layer, or any other type of flexible oxygen barrier pipe from 10-20mm. These inserts - unique to FAR - are so effective in use, that even connections with mixed pipes are possible, provided the correct insert is selected for each type. At ExCel mains flow to the manifolds is in copper.

Both 3 and 4-Port MultiFAR manifolds were used in the ExCel project with two or three manifolds been used in some of the larger installations - the longest row of washbasins at ExCel is 10 units.

Discreet invisibility was ensured by the locating the manifolds behind the access panels of the vanity units.



*Manifold Distribution to Basin Outlets*

# BSRIA HOTEL STUDY CONFIRMS MAJOR TIME SAVINGS FROM MANIFOLD APPROACH

**A** major new study reveals that use of a manifold system in association with flexible pipework for hot and cold water services can save up to 42% in installation time.

The study, carried out by experts from the Building Services Research and Information Association (BSRIA), focused on the application of FAR manifolds for hot and cold water distribution as part of the refurbishment of the 119 bedroom Thistle Hotel in Middlesbrough.

The results of this case history are now published as part of the BSRIA series of data sheets on Innovative M & E Installation. It reports that the simplified installation techniques involved can achieve significant reductions in both cost and labour time when compared with traditional methods.

Manifold distribution was selected for the Thistle Hotel project to overcome the problem presented

by extremely congested services risers. Bathrooms on each floor are arranged in back-to-back pairs with MultiFAR manifolds, equipped with Cimberio ball valves as isolation points, supplying three cold and three hot water lines to each bathroom. A separate two-port manifold section - once again, equipped with a Cimberio isolation valve - supplies each pair of toilets. Pipework for the project comprises GF Instaflex polybutylene for the main risers and Hep2O for the small bore distribution to each of the outlets.

MultiFAR manifolds can be used with all types of pipe from 10-25mm diameter and mean an end to the need for elbows, T's and other concealed joints for total, leak-free security. Should it ever be required, any section of pipe can be isolated and replaced with minimum disruption to the system.

The BSRIA study found that the system developed for the Thistle Hotel required fewer pipe connections and because pipe connections were localised at the manifold, easier maintenance would result. The system was also considered ideal for concealed pipe-in-pipe distribution.

The use of flexible pipework makes connections at the manifold quick and easy and because it is possible for the manifolds to incorporate isolating, control valves and flow measurement devices, they require much less space.

Although manifold systems may require more pipe than the traditional approach, the saving in installation time more than compensates.

Mechanical and electrical consultants for the Thistle Hotel project are Ove Arup & Partners and M & E contractors are N.G. Bailey & Company.

# PEACE OF MIND PLUMBING

The pictures on this page tell the story of how FAR's unique approach to manifold design offers real "peace of mind" plumbing.

Compare these two approaches to manifold design. Bottom left is a typical on-site construction of brass and copper with mini ball valves. It requires no fewer than fifteen individual connections! The purpose designed and manufactured FAR unit at top right needs only five simple connections offering a major saving in installation time and on-site cost. You'll notice that the FAR unit is much more compact too. It can be neatly installed almost anywhere, while always ensuring easy access for future adjustment and maintenance of the system.



The new Start range of manifolds from FAR brings the benefits of modular "header" type distribution systems to larger diameter pipework. Start manifolds are available in sizes from 1 1/4 inches to two inches diameter with either 100 or 200 mm spacings.



The MultiFAR approach in action. Here the modular system allows hot water mixing full protected by strainers and check valves to be integrated into a single compact package. Simple to build up and easy to install - that's MultiFAR!

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