

Talbot Modular Manifold Systems

Modular Manifolds for Water Distribution Systems

Quick Reference

The Do's...

- **Do** ensure the unit is supported by a firm, even base
- **Do** flush the system fully before commissioning in order to remove and internal debris that may have contaminated the system during installation
- **Do** ensure that once installed the supply and service pipes are not stressing the connections or manifold
- **Do** ensure that when using the Talbot Pushfit connections the PE pipe has been pushed fully home and, with metric pipe, the liner is used or imperial pipe is bevelled
- **Do** pressure test the unit prior to final commissioning

The Do Not's...

- **Do not** place undue lateral stress on the inlet or outlet connections during installation
- **Do not** connect pipes in such a way as to create excessive, long term stress on the unit
- **Do not** bend supply pipes in order to connect the unit
- **Do not** back fill to cover the unit
- **Do not** over tighten threaded connections
- **Do not** over tighten meters if used.
- **Do not** use the outlets as a point for pressure testing.



Fig 1. Pushfit outlets



Fig 2. Concentric meter mounting pods with Talbot Pushfit outlets



Fig 3. Loose union outlets

Safety

As with all industrial products it is important to take adequate safety precautions such as the use of adequate protective clothing like gloves, overalls, eye protection and safety footwear during installation, use and maintenance with this product.

Installation Guide and Recommendations

The cost effective Talbot Stopvalve Manifold System is used to divide one water service pipe into virtually any number of outlets, giving each outlet its own shut-off device and the option for an individual meter.

These installation recommendations should be used in conjunction with good general working practices to ensure that the connections supplied are secure and robust.



Installation Considerations and Recommendations

The Talbot Modular Manifold is supplied ready assembled and needs no preparation prior to installation. All seals are lubricated prior to despatch with a WRAS approved lubricant to aid pipe insertion and there should be no need to loosen or tighten any joints or threaded connections. Stopvalve keys are however supplied loose to avoid damage to the unit whilst in transit.

- Ensure that the base of the pit, chamber or installation is firm and level
- Ensure that the Manifold is positioned to enable all the connections to be made without putting excessive stress on any of the connections.
- Ensure that the inlet and outlet connections, once assembled, are not subjected to significant lateral bending or shear forces.
- Use Talbot Pushfit bends to help align awkwardly angled pipes.
- Use the meter pods (if supplied) in-built swivel capability to adjust outlets to a more suitable direction if the outlet pipes are at a different angle to the standard direction of the manifold outlet
- Leave a distance of at least 60mm of pipe between the mouths of the two fittings in order to allow the extractor tools to be used to disassemble the fitting should it be necessary.
- Prior to testing and commissioning ensure that all threaded connections are tight. Special attention should be paid to inter-module connections and, if used, the meter mount to manifold long and short distance pieces and the swivel outlet retaining rings.
- Flush the system prior to connection of the service pipes and at the end of the installation process in order to remove any backfill or other debris that may be in the manifold after inlet and outlet connection.

Further Information

For further information on the Talbot Stopvalve Manifold System please refer to product data sheet 'Modular Manifolds for Water Distribution Systems' TTAL900 available from our customer service team at the number shown below or from our web site, www.tycowaterworks.com

Installation Recommendations

Inlet Connection

The Talbot Modular manifold System can be supplied with two types of inlet, either a 2", 1 1/2" or 1 1/4" female threaded inlet or a Talbot Pushfit 63mm, 50mm or 40mm connection for PE pipe.

Talbot Pushfit inlet connection for PE pipe

- Cut the pipe square at the desired point allowing a suitable amount of length for pipe insertion into the mouth of the fitting.
- Ensure the end of the pipe is clean, round and free from deep scratches or scores.
- For metric pipes Insert the liner fully into the pipe end and push the inlet fully onto the pipe, past the two points of resistance. It is advised that the pipe is marked to indicate the correct insertion depth. These are approximately 104mm with 63mm (2") inlets and 90mm with 50mm (1 1/2") inlets. For imperial pipes no liner is required but the pipe end must be bevelled to help pipe insertion.
- When applying pressure to push the inlet onto the inlet pipe avoid excessive stress on the ends of the manifold.

Female threaded inlet connection

- Apply a suitable pipe sealing material such as PTFE tape to the male thread of the chosen fitting. Screw the connection into the Manifold inlet using a suitable wrench avoiding excessive stresses on the ends of the Manifold during assembly.
- Ensure that once fully tightened the unit sits squarely on the base of the chamber, pit or installation site.

Outlet Connection

The Talbot Modular manifold System can be supplied with a variety of outlet connection types. The unit is available with 20mm (1/2") and 25mm (3/4") Talbot Pushfit outlets for metric, imperial and Irish heavy gauge PE pipes or 3/4" female threaded outlets. The unit can be supplied with or without concentric meter mounting pods, each pod has its own outlet in either 25mm (3/4") Talbot Pushfit for metric, imperial and Irish heavy gauge PE pipes or 3/4" female threaded outlets. These pods have a built in directionally adjustable outlet that helps when aligning the outlet to the service pipe.

20mm (1/2") and 25mm (3/4") Talbot Pushfit outlets for PE pipe

- Ensure that the service pipes are of a suitable length and direction to fit easily into the outlets. For units with concentric meter pods use the adjustable outlets to align with the service pipes. When these pods are not used, use Talbot Pushfit bends to bring the PE pipe in line with the manifold outlets. When using additional fittings a length of at least 60mm of pipe should be left between the mouths of the two fittings in order to allow the extractor tools to be used to disassemble the fitting should it be necessary.
- Ensure that the pipe ends are cut square and are clean and free from scratches and deep scores.
- For metric pipes insert the liner fully into the pipe end and push the pipe fully into the fitting, past the two points of resistance. It is advised that the pipe is marked to indicate the correct insertion depth.
- For imperial pipes and Irish Heavy Gauge pipe no liner is required but the pipe must be bevelled to help pipe insertion. Failure to bevel the pipe may damage the 'O' ring seal. Approved pipe bevelling tools are available.

3/4" female threaded outlets

- The installation procedure for manifolds with female threaded outlets is the same as described above. For final connection, apply a suitable pipe sealing material such as PTFE tape to the male thread and tighten fully, ensuring that once fully tightened the unit sits squarely on the pit, chamber or installation base.
- Wherever possible screw the connection into the Manifold inlet using a suitable wrench. Avoid excessive stresses on the ends of the Manifold.

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Notes:

In addition to these recommendations good general working practices should be adhered to whilst installing this product.

These fittings are designed for the conveyance of cold potable water. Save with the express written approval of Tyco Waterworks, no warranty is given that the fittings are suitable for any other purpose.

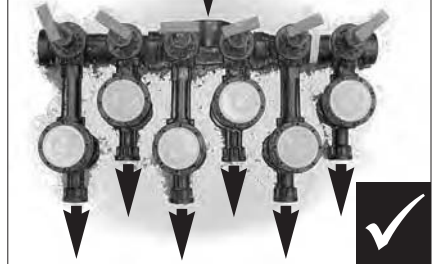
Tyco Waterworks reserves the right to change the design and specification without notice.

Using Swivel Outlet Meter Pods

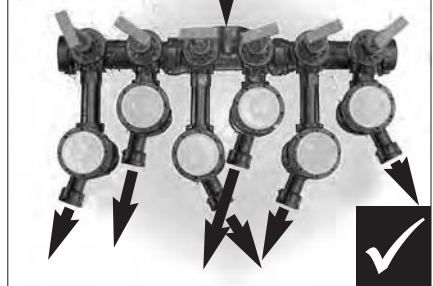
Use the swivel outlet connections to help align supply pipes



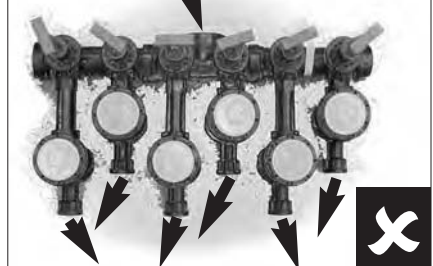
Keep pipes and outlets in-line



Use adjustable outlets to keep pipes and outlets in-line

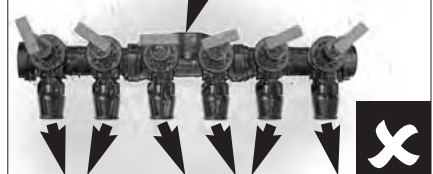


Do not mis-align or stress the inlet or the outlets



Using Fixed Outlets

Do not mis-align or stress the inlets or the outlets



Use elbows to re-align angled pipes

