



John Guest®

Polypropylene Shut-Off Valve Installation Guide

Technical Specification

John Guest Shut-Off Valves are intended for use with potable water. For use with other potable liquids please refer to our Technical Sales Staff for guidance. A detailed technical specification is shown in our catalogue.

These Valves are not for use with explosive gases, compressed air, petroleum spirit, and other fuels or for heating systems.

Working Pressure and Temperatures

Water: 150psi at 70°F (10 Bar at 20°C)
60psi at 140°F (4 Bar at 60°C)
Minimum Temperature 33°F (1°C)

Material Specification

Body: Food Grade Polypropylene
'O' Ring: EPDM
Collet: Food Grade Polypropylene

Valves are offered for 1/4" or 3/8" O/D size plastic or soft metal tube with an outside diameter within the tolerance of +0.001" / -0.004" or for 6mm or 12mm with an outside diameter within the tolerance of +0.05 / -0.10.

Maximum and Minimum Torque Valves

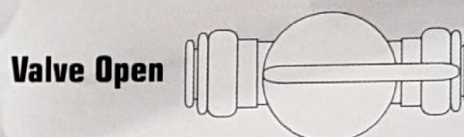
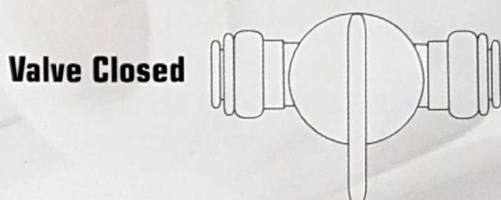
Do not overtighten plastic threads as this will cause undue stress and eventual failure. Maximum recommended torque figures are shown in the table.

Threads	1/4 NPTF	3/8 NPTF
Maximum Torque	1.0ft lbs (1.5Nm)	2.2ft lbs (3.0Nm)

Valve Operation

When using the valve please remember that when the handle is at right angles to the Speedfit port the valve is in the closed position. The handle will always be in the line with the Speedfit port when the valve is in the open position. Note! The handle's movement has been restricted to a 1/4 turn. Do not force the handle if resistance is met.

Must only be used in the fully open or fully closed position. After closing valve and if Speedfit pipe has to be removed, we strongly recommend use of a JG Plug.

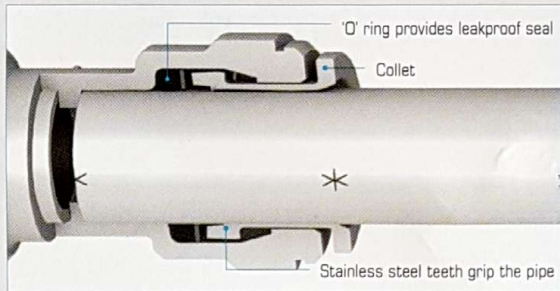


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To Make A Connection

Fittings and tube should be kept clean and undamaged before use.

To make a connection, the tube is simply pushed in by hand; the unique patented John Guest collet locking system then holds the tube firmly in place without deforming it or restricting the flow.



Grips before it seals

The Collet (gripper) has stainless steel teeth which hold the tube firmly in position while the 'O' ring provides a permanent leakproof seal.

Installation and System Testing

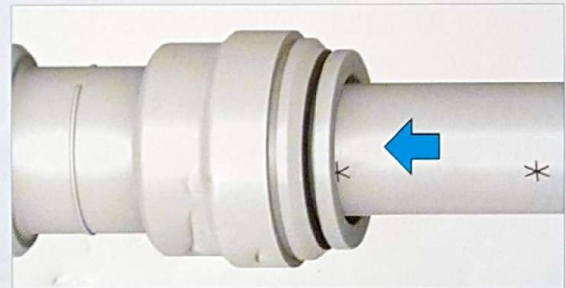
All tube installations must be pressure tested after installation to ensure system integrity before handing over to the final user. See also "How to make a connection".

How to Make a Connection



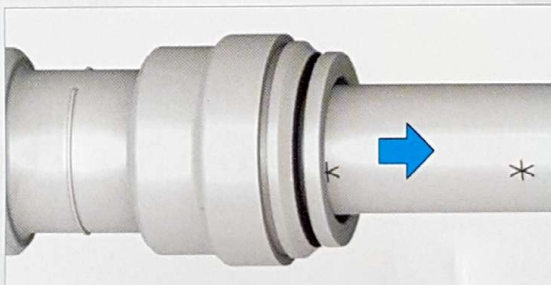
1. Cut the tube square

Cut the tube square and remove burrs and sharp edges. Ensure the outside diameter is free of score marks. For soft or thin walled tube we recommend the use of a tube insert.



2. Push up to tube stop

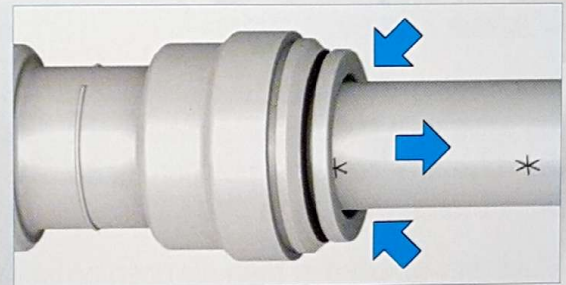
Push the tube into the fitting, up to the tube stop.



3. Pull to check secure

Pull on the tube to check it is secure. Test the system before use.

How to Disconnect



To disconnect

To disconnect, ensure the system is depressurized, push the collet square against the fitting. With the collet held in this position the tube can be removed.