



Smith-Blair Joint Restraints

The Water supply system relies on the pipe being secured in place by timber blocking, or where you cannot achieve the required blocking with timber then concrete is used..

Good blocking timber is getting harder to get as the suppliers are being restricted on the timber they can , use a lot of the timber supplied is split or warped.

To compound the issue, in Developments Contractors are allowed to lay multiple conduits in one trench, including two water mains thus making blocking more difficult to achieve.

The task of providing secure blocking for water mains is getting harder and harder.

When secure blocking is achieved a Contractor then excavates in the vicinity of the blocking or ground water softens the ground causing the blocking to fail.

Then the real problem occurs trying to re block a water main after it has been super saturated

The solution is the use of **Smith Blair Joint Restraints supplied by AWIS MAINS** where the pipe connections does not rely on blocking or ground conditions.



DN 150 UPVC restrained in line



DN 100 restraint pipe to Bend / Fitting



Smith-Blair ® Bell-Lock™ restraints provide a quick and efficient means of restraining hydrants, valves pipes and fittings used in water and wastewater systems.

State of the art manufacturing, combined with extensive testing, produces great performance characteristics with this multi-purpose design.

Smith-Blair® Bell- Lock Restraints incorporate a split design with machined serrations that provide nearly 360degrees of engagement for maximum performance and pipe support.

Bi-directional serrations, machined to exact tolerances, eliminates installation errors associated with other designs. Each serrated half is constructed from 65-45-12 Ductile Iron, meeting ASTM A536 for strength and durability.

Recessed shoulders lock the clamp bolt into place providing easier installation, even in the most adverse conditions.

Bell-Lock restraints are designed top maintain full pipe deflection when used in conjunction with standard fittings.

Bell-Lock™ Features

- * Recessed shoulders allow for single wrench installation
- * Maintains full pipe deflection.
- * 360° of pipe support provided - uncompromised restraint.
- * Adaptable for new and/or existing pipeline applications.
- * Eliminates the need for costly concrete thrust blocks.
- * No need to worry about ground conditions.
- * Fittings that have been blown off can be easily fixed without having to use heaps of blocking

Pressure rating on DICL: DN 100-150 2400kpa

UPVC: DN 100-150 1724kpa

Material Specifications

Retainer:	65-45-12 Ductile Iron
Nuts & Bolts:	M16 x 90 8.8mpa
Retaining Rod:	M16 8.8mpa
Coating:	Black Knight 1000

For any other information please call AWIS Mains either Terry or David on the numbers below.