



# Fact Sheet

## Unitywater commercial water meter configuration

When connecting to the Unitywater commercial water meter connection point, Unitywater will supply an gear driven isolating valve on the main supply, the installing contractor will be required to install an upstream isolating valve as this is part of the by-pass assembly this upstream isolating valve will need to be tested as part of the test procedure. (see attached) On the by-pass Unitywater will supply a water meter sized accordingly, the installing contractor will then install the equivalent backflow prevention device which will detect leakage, low flows and any theft.

The red line is the limit of works by Unitywater.

Sizing of the by-pass will be determined by the probable simultaneous flow rates (PSFR) and when installed on a fire service with fire hose reels (FHR`s) connected, the by-pass will be determined on the amount of FHR`s connected in a location that may be used other than for fire fighting. One to three FHR`s will require a 25mm by-pass, four and more will require a larger sized by-pass.

Testable Single check by-pass assembly will require the main valve to be 10kPa greater than the by-pass. (High pressure spring required)

Double check valve by-pass assembly will require the main valve to be 20kPa greater than the by-pass by adding both check values. (1st check spring to be high pressure spring)

Reduced Zone Pressure Device by-pass assembly will require the main valve to be 20kPa greater than the by-pass by adding both check values. (Both check springs to be high pressure springs)

See Unitywater Field Testing procedure for an RPZD by-pass assembly, this procedure will give the tester a reading of both checks.

For further details please contact:

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