

# Case Study

## Project – Water Distribution, London

### Use of Dorot 30-6-PR (HyMod) solution

#### Project objective

To reintroduce appropriate pressure management to this watersupply zone.

#### The challenge

The existing flow meter and old PRV (figure 1) were surveyed for possible service and re-use. The valve was seized, again putting it beyond economic repair.

#### The solution

1. Replace seized GA PRV with new 150mm (6") diaphragm type PRV.
2. Pressure logging has identified a possible 20-25 m reduction in pressure with some form of modulation at night.
3. A 150mm Dorot PRV was purchased mated to a Fluid Control hydraulic modulator with high pressure limitation pilot rail (figure 2).

#### Results

As demonstrated in the charts below and in the next page:

**The volumetric reduction is 0.23 Mld (million litres per day).**

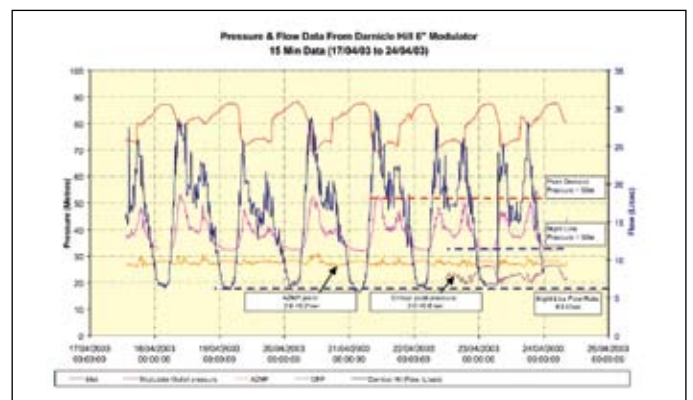
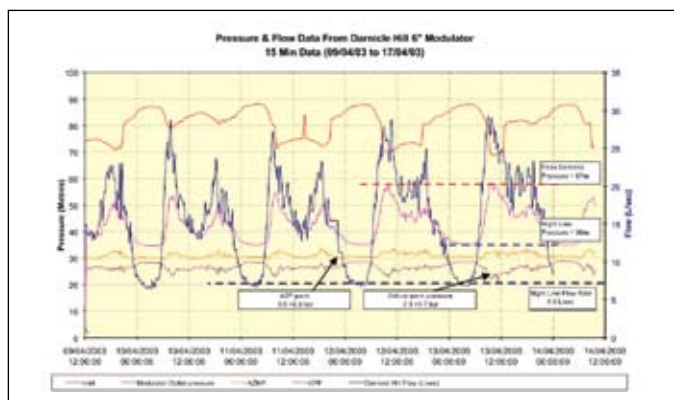


figure 1



figure 2

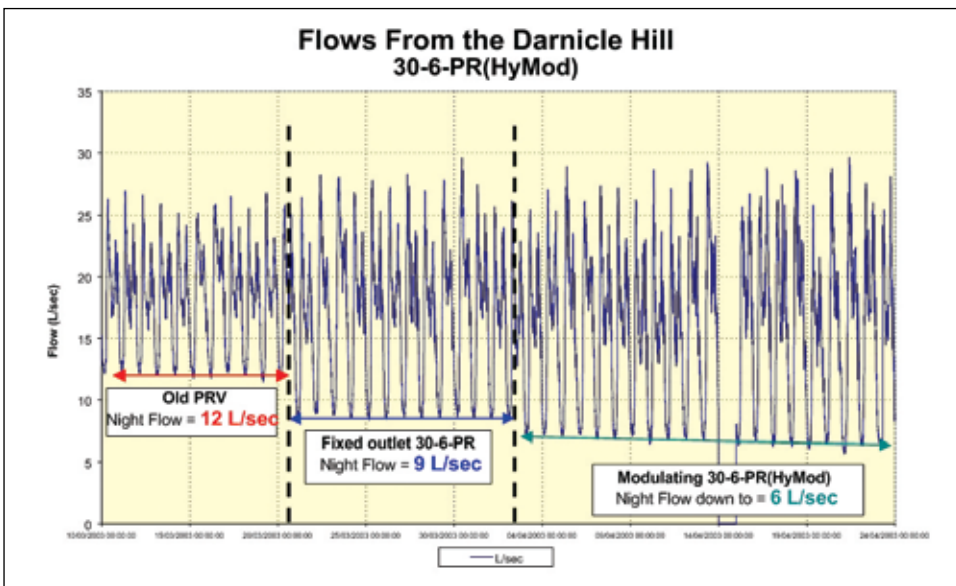
Graph 1 - Pressure and Flow results illustrating post commissioning of PRV and modulator



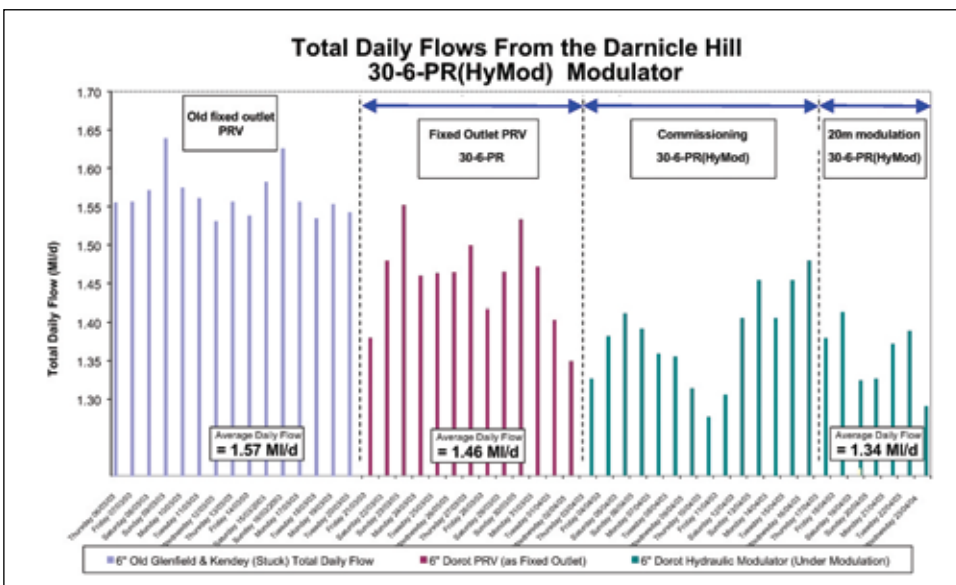
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Graph 2 - Flow results illustrating the drop in night flow (pressure reduction during low demand hours) and improvement in supply during high demand hours (achieved as a result of the low PRV losses).



Graph 3 - Daily Flow results illustrating volumetric saving.



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