

B.M.I

Plumbing & HVAC



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SMARTVALVE

BRAINS FOR YOUR WATER METER

CASE STUDIES

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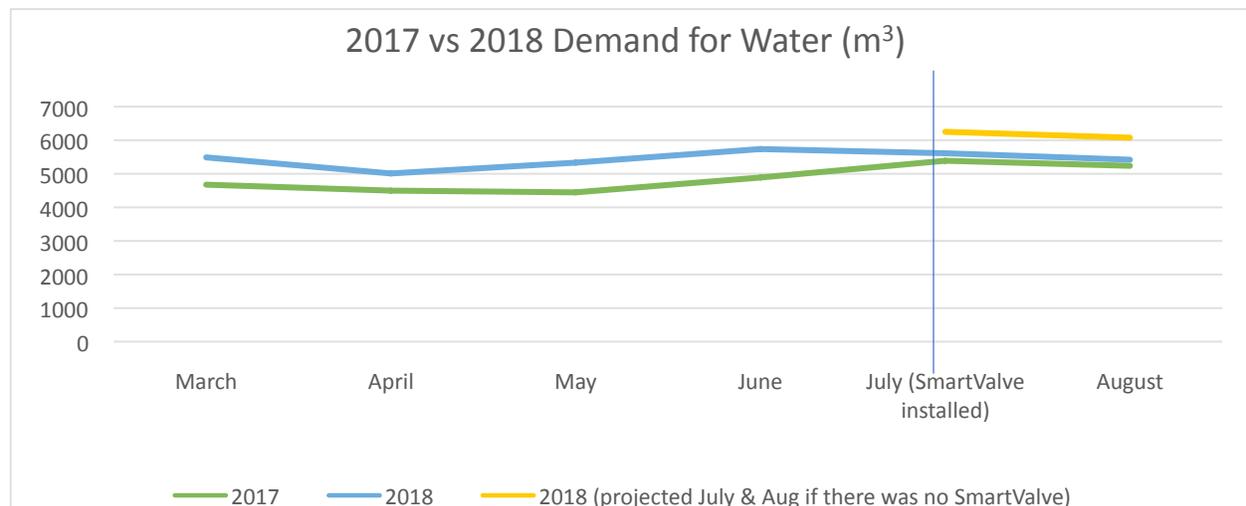
Client: 21 & 23 Carlton St.

BMI has done an extensive study of water demand at 21 & 23 Carlton St for the months leading up to the installation of the SmartValve™. Up to 4 months before the installation, the demand for water increased by an average of 16.25% as compared to the same months in 2017.

The SmartValve™ was installed in the end of June, and we immediately see a significant decrease in the difference between consumption in July 2017 and in July 2018, and the same for August 2017 and August 2018. **The SmartValve™ is saving close to 15% in water consumption.**

Month	2017	2018	Percent Difference
March	4,676m ³	5,489m ³	+17%
April	4,499m ³	5,010m ³	+11%
May	4,447m ³	5,332m ³	+20%
June	4,889m ³	5,737m ³	+17%
SmartValve™ was installed in end of June 2018			
July	5,389m ³	5,612m ³	+4%
August	5,238m ³	5,420m ³	+3%

It is important to compare the savings of the SmartValve™ by referencing changes in water demand that occurred *prior* to the installation of the SmartValve™, *if there was a major change in yearly consumption*. In this way can we add necessary context to calculations. We can clearly see that the SmartValve™ moderates the increased demand for water, bringing consumption close to 2017 levels.





Client: 28 Ted Roger's Way

In the case of 28 Ted Roger's Way, BMI's analysis showed that demand for water was relatively consistent between 2017 and 2018 prior to the SmartValve's installation. Some months like January and May saw slightly increased consumption in 2018 compared to 2017, whereas other months like February and June saw decreased consumption compared to 2017.

The SmartValve™ was installed at the end of June, and we directly compared July 2017 with July 2018 to get an idea of initial savings changes. Right away we see a large decrease in consumption in July 2018.

Month	2017	2018	Percent Difference
May	2,128.73m ³	2,224.55m ³	+4.5%
June	2,596.77m ³	2,549.22m ³	-1.8%
SmartValve™ was installed in end of June 2018			
July	3,109.43m ³	2,551.010m ³	-17%
August	2,982.92 m ³	2,867.61 m ³	-3.8%

In August BMI received multiple calls from management at 28 Ted Rogers regarding floods. These floods occurred in the pool area, in the cooling tower, and in the pipes on the recycle line on the 10th floor. These floods were unrelated to the SmartValve™, but they significantly increased consumption of water in August 2018, lowering the savings amount for that month. Despite the floods, however, the building continues on at consumption levels below 2017 following the installation of the SmartValve™, and we expect a return to July 2018 savings levels in the coming months.



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Additional Installations:

BMI has also completed SmartValve™ installations at **1121 Steeles Ave West** and **3985 Grand Park Dr**. We are waiting for the consumption data to come in prior to analyzing the numbers. We are also expecting a series of installations toward the end of September and early October.

Summary:

Our clients are satisfied with the results of their savings, and we have received positive feedback from the managers in buildings where we have installed the SmartValve™. There is always some month to month fluctuation in consumption and savings amounts, but the overall trend is very clear—the SmartValve™ decreases consumption of water both in cases where year to year consumption is relatively constant, and when consumption increases year to year.

Following a successful hydro and electricity consumption study conducted at **3985 Grand Park Dr** by an independent engineering consulting firm, we know the effect hydro consumption from the SmartValve™ is minimal, and far outweighed by water savings.



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