



Metering Technology

The ProMinent Group is a manufacturer of components and systems for the metering of liquids and a solutions partner for water treatment. It is headquartered in Heidelberg, Germany. Approximately 2300 employees in 56 corporate sales and service companies and agencies in over 60 countries guarantee service and availability worldwide. ProMinent celebrated its 50th anniversary in 2010.

#### **Commissioned:**

December 2010



#### **FluidFuture®: Added efficiency and reliability**

ProMinent's declared objective is to meet the highest standards. Therefore, all process metering pumps undergo a test procedure at the maximum performance ranges adapted to the specific application and customer requirements. In order to perform these tests in line with current state-of-the-art, ProMinent has invested in a new pump test stand with a water treatment unit. The pumps to be tested are fed with water of ultra-high quality. It is sustainably treated by a system using reverse osmosis, ozone and filtration supplied by the in-house plant engineering department and is also continuously monitored. KSB presented a solution with optimally matched components which fully met the confined space requirements as well as the requirements of constant maintenance of pressure and low energy consumption. FluidFuture®, the comprehensive energy efficiency concept which aims to optimise overall system efficiency, played an important role here.



*„PumpDrive makes for energy efficiency, PumpMeter for transparency and system reliability.“*  
Walter Hetzel, ProMinent Dosiertchnik GmbH, Heidelberg



Equipped with PumpDrive speed control and the PumpMeter monitoring system, the Movitec pumps supplied by KSB ensure constant pressure and provide the desired volume of water. The motor-mounted PumpDrive version replaces complex control cabinet solutions. The “Plug & Run” system offers quick and easy commissioning. In addition, all pump, PumpDrive and PumpMeter parameters are factory-set, which means the pump’s characteristic curve is already stored in PumpDrive and PumpMeter.

Once the operating parameters are set, PumpDrive precisely adjusts the motor speed, and thus the head and flow rate of the pump, to match current demand. Such demand-driven operation has the positive side effect of cutting energy consumption by up to 60 %.

Thanks to PumpMeter, the pumps are continuously monitored and any faulty operation is immediately identified.

## ProMinent Dosiertechnik GmbH – Scope of supply and project details

### Scope of supply

#### 1 Movitec VF 90/3 B

Flow rate Q: 82.69 m³/h  
Head H: 69.42 m  
Motor rating: 19.75 kW

#### 2 Movitec VSF 06/6 B

Flow rate Q: 5.00 m³/h  
Head H: 50.47 m  
Motor rating: 1.06 kW

#### 1 Movitec VSF 04/20 B

Flow rate Q: 2.50 m³/h  
Head H: 168.31 m  
Motor rating: 2.05 kW

#### 1 Movitec VF 02/8 B

Flow rate Q: 2.00 m³/h  
Head H: 45.52 m  
Motor rating: 00.46 kW

#### 1 Movitec VSF 02/8 B

Flow rate Q: 2.00 m³/h  
Head H: 5.52 m  
Motor rating: 0.46 kW

#### 6 PumpMeter

#### 5 PumpDrive MM Advanced IP 55

**Should you need more information, please do not hesitate to contact me:**

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