

WATER MANAGEMENT

PERFORMANCE AND RELIABILITY SUSTAINABLE WATER FILTRATION

NORYL™ RESIN



INDUSTRY

Water Management

KEY CHALLENGES

- Dimensional and moisture stability
- Chemical resistance
- Potable water approvals

PRODUCT

- Valve for water treatment filtration pump
- Pump assembly housing

SOLUTIONS

- Injection molded NORYL valve
- Compression-molded GELOY™ housing

CUSTOMER

Village Pump

RESULTS

Lightweight, corrosion-free valve and housing that is also protected from the threat of theft (vs. brass)

CHALLENGES

Innovator Village Pump was seeking a cost efficient, low maintenance and mechanically stable solution for the valve which drives the operation of its new hand-operated water filtration pump. In addition, they sought a paint-free, UV stable and lightweight housing for the final assembly.

SOLUTION

Village Pump decided to mold the valve in NORYL™ FE1740PW for its strength, low moisture absorption and global potable water approvals. The design was very complex with several gates and insert-molded threaded connections, therefore SABIC also helped Village Pump with advanced engineering design simulations and part performance testing. The entire pump assembly was protected by a compression molded housing made of GELOY CR7520 resin.

RESULTS

The resultant valve offered lower total system cost (by integrating three parts into one) and reduced the weight versus a brass solution significantly. The NORYL™ resin part is protected from corrosion and chemical disinfectants damage. The weight reduction of the housing made the pump easier to transport by hand and offers low maintenance due to UV-stable pre-colored GELOY™ resin. The VILLAGEPUMP 500 is an innovative, portable water pump that yields up to 500 litres of purified drinking water per hour requiring no electricity and very little chemicals. The pump can be used wherever surface rainwater and non-salted water is available and has been instrumental in providing drinking water to communities in Africa and Asia.

FURTHER INFORMATION

WEBSITES

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