

INDUSTRIAL PROCESS :

REDUCE YOUR SYSTEM COMPLEXITY WITH GRUNDFOS iSOLUTIONS

GRUNDFOS iSOLUTIONS



OVERVIEW

India's beauty and personal care industry is growing at a rapid pace; thanks to changing lifestyles, increase in consumer spending, and shift towards branded products. Global oleochemicals market is expected to grow at a CAGR of 4.9% between 2019-2025, and in developing countries like India, the industry is expected to grow at 10%. Robust growth of personal care industry, favourable government regulations, and rising consumerism are among the major factors boosting demand for oleochemicals in the country.

MIL India Pvt Ltd., an OEM based out of north India is in the business of plants & machinery that manufactures soap & detergent, and on turnkey basis for products catering to beauty and personal care industry.

THE SITUATION

During the soap manufacturing process, it is essential to get the right mix of raw materials for a quality product. Dosing pumps ensure that these raw materials are dosed in right quantity. MIL India was using a fixed speed pump along with pneumatic valves in their plant to maintain the constant pressure and system flow. This fluid mixture was then bypassed using these two pneumatic valves commanded by the back pressure valve resulting in wastage of both product and energy.

Furthermore, re-circulation of fluid mixture would raise the fluid temperature making the installation hazardous!

EASY
OPERATION

FULL
CONTROL

MAXIMISED
RELIABILITY

THE SOLUTION

Grundfos CRIE solution with inbuilt intelligence was just apt to meet MIL India's process automation & control requirement.

Grundfos configured CRIE pump with inbuilt PI controller and input/output modules to eliminate the use of extra valves in the hydraulic line. With special sealing arrangement, CRIE pump was able to handle the aggressive fluid at process temperature. Fluid bypass line was eliminated as CRIE pump was automated to respond to flow meter signal directly – thus avoiding extra pumping and keeping the fluid temperature under limit, making it a safe operating system.

THE OUTCOME

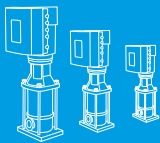
With Grundfos iSOLUTIONS, system complexity is reduced to absolute minimum. System performance is now more demand specific, making it an energy optimized solution.

BENEFITS OF GRUNDFOS iSOLUTIONS



EASY OPERATION

Grundfos iSolutions, in combination with our intelligent built-in controls have significantly reduced the field instrumentation resulting in easy operation.



FULL CONTROL

With Grundfos iSolutions, the new system adapts to the process requirement without any need for external controls. CRIE pump's extended control functionalities aid the customer's process of delivering full system control.



MAXIMISED RELIABILITY

Grundfos iSolution has resulted in reducing the system complexity to a absolute minimum and thereby maximising reliability.