

# Application story

  
**WANNER**<sup>TM</sup>  
**HYDRA-CELL<sup>®</sup> PRO**  
SEAL-LESS PUMP TECHNOLOGIES



## Injecting Monoethanolamine +45°C

|                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                         |                              |
|----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|------------------------------|
| <b>Location</b>                                          | Russia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Hydra-Cell model</b> | Q155ECDTHFESAX               |
| <b>Type of application</b>                               | Injecting Monoethanolamine +45°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>Flow rate</b>        | Up to 420 l/min (92 gal/min) |
| <b>Liquid</b>                                            | Monoethanolamine                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>Pressure</b>         | Up to 60 bar (870 psi)       |
| <b>Application details</b>                               | <p>The end user customer is the largest integrated petrochemicals company in Russia; they purchase hydrocarbons and process them into plastics, rubbers and other high value added products to deliver state-of-the-art technological solutions.</p> <p>In this application, Monoethanolamine injection is used to strip out acid gases generated by the presence of H<sub>2</sub>S and CO<sub>2</sub>; this process is often referred to as CO<sub>2</sub> scrubbing.</p> <p>Existing locally manufactured plunger pumps were leaking the process liquid due to the dynamic, mechanical seals.</p> |                         |                              |
| <b>Advantages of Hydra-Cell pump on this application</b> | Seal-less design ensures 100% leak-free operation for 100% assurance for environmental responsibility and for health and safety of operators.                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                         |                              |

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