

Application story



Acid Gas Recovery (AGR)

Location	India	Hydra-Cell model	G03XKSTHFEHA x 6
Type of application	Gas Scrubbing	Flow rate	Up to 10 l/min (2.6 gpm)
Liquid	Methanol Water Benzene Toluene	Pressure	Up to 10 bar (145 psi)

Application details Reliance Industries' Jamnagar manufacturing division is the World's largest refining hub, with crude processing capacity of 1.24 million Barrels Per Stream Day.

With past experience of Hydra-Cell pump in existing installations, Reliance insisted on the use of Hydra-Cell pumps in a methanol gas scrubbing (Acid Gas Removal) project being provided by ABB. (Linde are the project consultants).

Reliance has been using Hydra-Cell pumps for Density Analyser applications since 2008 with little maintenance and no requirement for spare parts since the pumps were commissioned.

The new system, with 6 x Hydra-Cell G03 pumps, will remove H₂S and other sour gases from the raw methanol liquid before further processing. The Hydra-Cell's ability to operate at very low suction pressures, along with its ability to run dry without damage and its 100% contained, leak-free design were also instrumental factors in the decision.

Advantages of Hydra-Cell pump on this application

Hydra-Cell was chosen for this application for the following reasons:

- Seal-less design, eliminating possibility of leaks in the refinery environment.
- Ability to handle scale particles and non-lubricating liquids at high pressures.
- Reliability.

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