

Application story



HPIB

Location India

Hydra-Cell model G10EKSJSNEHB /
G03XKSJSNEHA /
G03XKSJSNEHK /
G03XKSTSNEHA /
G10EKSJSNEHH /
G10EKSTSNEHB

Type of application Density Analyser Systems (2)

Flow rate G03: Up to 9 L/min (2.4 gpm) /
G10: Up to 22 L/min (5.8 gpm)

Liquid Methanol
MTBE
Isobutane
Isobutylene
1-Butene
n-Butene

Pressure Up to 20 bar (290 psi)

Application details Reliance Industries Jamnagar is currently the largest oil refinery in the world. Italian oil and petrochemical company Maire Technimont is project consultant for the HPIB process within the Jamnagar J3 expansion project, while ABB is the supplier. Reliance has insisted on the use of Hydra-Cell pumps because of past good experience in existing applications.

The Company has been using Hydra-Cell pumps for Density Analyser applications since 2008 without any maintenance and has yet to require any spare parts.

Various liquid streams to be analysed in the HPIB project with as many as eleven fast loop pump skids, each skid/stream having one Hydra-Cell pump. The liquids are taken from main headers for property analysis.

Analysed samples are brought to a recovery tank, from where they are reintroduced into the header under pressure through a Hydra-Cell pump. So far, some 19 Hydra-Cell G03 and G10 pumps have been acquired for the project by ABB.

Advantages of Hydra-Cell pump on www.hydra-cell.co.uk

- 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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