

Application story



Naphtha Dosing Pump

Location	Russia	Hydra-Cell model	G10XKCTHFEHB
Type of application	Gasoline (Straight Run) Transfer	Flow rate	Up to 30 L/min (7.9 gpm)
Liquid	Gasoline (Straight Run) Naphtha	Pressure	25 bar (362 psi)
Application details	Hydra-Cell® Pumps 'Straight Run' Gasoline		

At an oil and gas refinery in the region of Tomsk, Russia, LLC Megan sought a pump for feeding 'straight run' gasoline into a reactor.

Straight-run gasoline, commonly referred to as Naphtha, is a refinery component stream directly taken from crude distillation that requires further processing before becoming automotive fuel. It is a searching, non-lubricating liquid of less than 1 cps viscosity that can contain small hard abrasive particles.

The customer chose a Hydra-Cell G10 pump in preference to a locally made plunger pump for its ability to handle non-lubricating liquids. Plunger pumps depend on the pumped liquid for internal lubrication and seal wear can be a problem where the liquid is non-lubricating or carries particles.

The Hydra-Cell G10 gives a virtually pulse-less flow and requires no seal maintenance, making it the optimum choice for outstanding, long-term reliability.

Advantages of Hydra-Cell pump on this application

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

- Seal-less design, allows this non-lubricating liquid to be pump, continually & reliably.
- Ability to handle this particle laden liquid, with ease.

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