

REPLACING MULTISTAGE PUMPS

Replace a multistage pump with one stage.

For high head at low flow, a multistage centrifugal pump needs many stages. An EHIK pitot tube pump does the duty with one rotating stage, and it connects to your existing piping.



Multistage centrifugal pump · 90 kW (121 hp) motor



EHIK pitot tube pump · 45 kW (60 hp) motor

39.5% less

electricity per 10,000 m³ (2.64 million US gal) of gas-field water

Kong 6 Well, PetroChina Shunan Gas Mine, Zigong · 2015. Site meter readings and project records.

90 → 45 kW

Motor rating, 121 → 60 hp

USD 20,000

Approximate saving on maintenance each year

One stage

One rotor and one fixed pickup tube. No stacked impellers and diffusers to wear.

Seal at low pressure

The mechanical seal is at the inlet and sees only inlet pressure.

Runs at low flow

With a small continuous bypass, it can run even with the outlet valve closed.

Where it fits: flows up to about 70 m³/h (308 US gpm). Above about 70–100 m³/h (308–440 US gpm), a multistage pump is usually the better choice. We will tell you if your duty fits.

1

Send your duty

Liquid, flow, inlet and outlet pressure, and the motor size of the existing pump.

2

We check the fit

Duty, inlet conditions, space and connections.

3

Made to fit

Flanges made to fit your piping. Base and drive confirmed for your site.

4

Tested and shipped

Tested on our test bench, shipped with a test report.

Recorded results at PetroChina sites.



SHUNAN GAS MINE · LESHAN · 2014

Wei 001-H1 Well

23.5% less electricity

per m³ (264 US gal) of gas-field water. Motor 90 → 45 kW (121 → 60 hp). About USD 28,000 a year less maintenance cost.

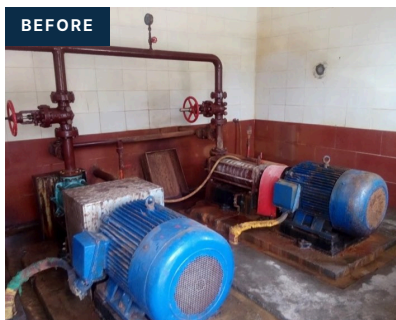


SHUNAN GAS MINE · LUZHOU

Jing 4 Central Station

48.3% less electricity

per 10,000 m³ (2.64 million US gal) of water pumped.



SHUNAN GAS MINE · YUXI

Bao 46 Well

75 → 45 kW motor

Motor rating 101 → 60 hp. The EHIK pump replaced a multistage centrifugal pump.

Also in process plants

Rongxian Natural Gas Purification Plant

2009: hot-water pump motor **15 → 7.5 kW** (20 → 10 hp).

2016: solvent-circulation pump, **more than 500 kWh** of electricity saved a day.

Daqing Oilfield Chemical, ammonia plant

2010: replaced a 75 kW (101 hp) multistage pump. **Over USD 28,000** a year saved on electricity.

Results from site meter readings and project records. Results depend on the duty. For your site, we compare power, volume pumped and running hours under the same conditions.

Send us the duty of your existing pump.

We reply within 1 business day.

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