

> Multiphase pumps

MPP high performance multiphase pump

Features and benefits

- Helico-axial impeller designed for any Gas Volume Fraction (GVF) from 0 to 100%
- Helico-axial stages axially compress the pumped product to avoid separation and gas binding
- Stage design changes to compensate for gas compression through the pump
- Horizontal or vertical configurations to fit the application
- Variety of sizes available from 1 to 6 MW to suit the field development, production and decline

Key characteristics

Capacities	up to 4'500 m ³ / 700'000 BPD
Heads	up to 180 bar dP / 2'600 psi dP
Pressures	up to 1'100 bar / 16'000 psi
Temperatures	1 to 250°C / 34 to 480°F



Applications

- Onshore multiphase or hybrid pressure boosting and transport
- Offshore topside multiphase or hybrid pressure boosting
- Subsea multiphase or hybrid pressure boosting, water injection and transport
- Revive dead wells or increase total recovery

MPP-OHH single stage multiphase pump

Features and benefits

- Helico-axial impeller designed for any Gas Volume Fraction (GVF) from 0 to 100%
- Helico-axial easily handles robust to solid particles (specific coating can be applied depending on the process)
- Standard bearing frame the OHH bearing range designed for long bearing life
- API 682 cartridge seal type, single or dual mechanical seals

Key characteristics

Capacities	up to 1'000 m ³ / 4'400 US gpm
Heads	up to 7 bar dP / 100 psi dP
Pressures	up to 51 bar / 740 psi
Power	up to 400 kW
Maximum speed of rotation	up to 3600 rpm

Applications

- Shell Omega process (monoethylene glycol process plant)
- Petrochemical processes near liquid-vapor saturation line
- Circulation pumps in fermentation process
- DAF waste water applications

