



REDA Multiphase HPS horizontal multistage surface pump

Efficient surface booster pump for pipeline, oil well, and zero-flaring operations without phase separation

 **Flow capacity:**
3,150 to 50,000 bbl/d
[500 to 8,000 m³/d]

 **Gas volume fraction:**
up to 90%

 **Max. boost pressure:**
900 psi [6,200 kPa]

Applications

- Boosting of fluid with high gas volume fraction (GVF)
- Crude gas or liquid effluent transfer
- Well unloading and production boosting
- Zero-flaring well testing operations
- Water-alternating-gas injection

How it improves production economics

REDA Multiphase HPS* horizontal multistage surface pump improves the efficiency of boosting and transporting unprocessed crude oil and gas, eliminating the need for phase separation. By eliminating the limitations of conventional surface centrifugal pumps, the REDA Multiphase HPS pump is ideal for zero-flaring operations to enhance production from wells and transfer raw gas and commingled oil fluids to a central processing facility.

In addition to eliminating costs of wellhead equipment and separators, the technology enables wells to produce at a lower wellhead flowing pressure, facilitating more aggressive reservoir drawdown that increases oil production.

How it works

The REDA Multiphase HPS pump design is an enhancement of the reliable REDA HPS* horizontal multistage surface pumping system, using axial stages based on the field-proven MGH* multiphase gas-handling system. The pump efficiently boosts crude oil with gas content up to 90% in continuous operations.

What it replaces

By enabling efficient boosting of multiphase fluids to central processing facilities without the need for conventional gas separation equipment, routine gas flaring can be eliminated. This contributes to the World Bank [Zero Routine Flaring by 2030 initiative](#) and enables monetization of gas.

Additional information

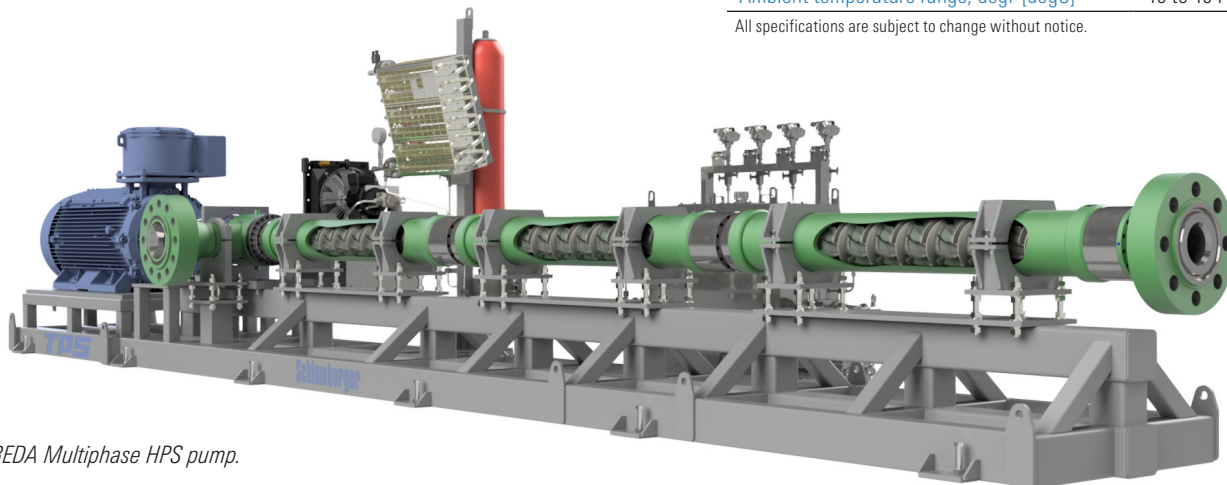
Assembled pumps are delivered to a site, ready for operations. Each pump is instrumented to enable remote monitoring of crucial operating parameters for equipment protection and performance analysis.

The pump facilitates rapid maintenance for reduced downtime with improved configuration of pumps, thrust chamber, seal, and motor.

REDA Multiphase HPS Pump Specifications

Flow capacity, bbl/d [m ³ /d]	3,150 to 50,000 [500 to 8,000]
Liquid rate at 75% GVF, bbl/d [m ³ /d]	700 to 11,400 [110 to 1,800]
Max. GVF for continuous operation, %	90
Max. pump boost pressure, psi [kPa]	900 [6,200]
Max. working pressure, psi [kPa]	2,000 [13,800]
Unit integrity pressure, psi [kPa]	3,000 [21,000]
Process fluid temperature range, degF [degC]	60 to 175 [15 to 80]
Total suspended solids (TSS), ppm	<500
Ambient temperature range, degF [degC]	-40 to 104 [-40 to 40]

All specifications are subject to change without notice.



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