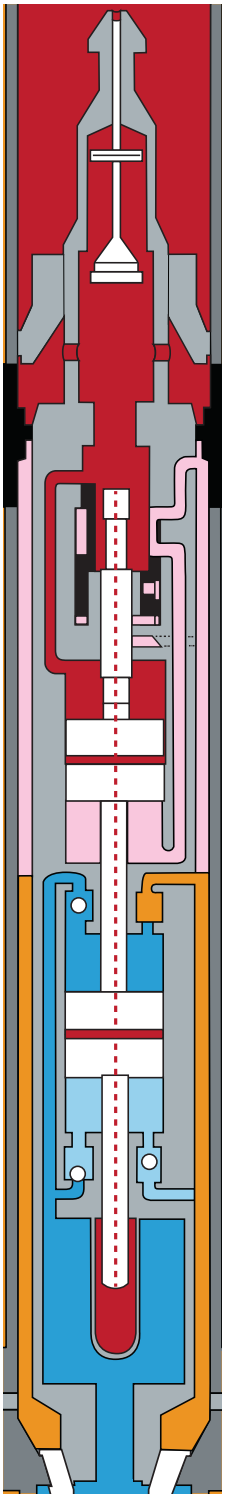
KOBE Type-A Hydraulic Piston Pump

Weatherford's Kobe Type-A pump is a medium-volume hydraulic piston pump that provides a reliable and economical artificial-lift method for producing horizontally drilled wells common with oil and gas-shale plays. The pump's lower pump-to-engine piston ratio and fast, short stroke reduce operating pressure and produce higher volumes at greater depths. Production rates can be modified by varying the injection rate or by changing the pump-end piston to adapt to well conditions. Several wells can be produced from one surface package, lowering the overall cost per well.



KOBE A

Applications

- Deviated, horizontal wellbores
- Coalbed methane and dewatering gas wells
- Oil and gas-shale plays

Features, Advantages and Benefits

- Low pump-to-engine piston ratios allow for reduced operating pressures, producing higher volumes at greater depths.
- Shorter overall length of pump is easily deployed through directional changes common in deviated wells, reducing installation and operating costs.
- Pump design produces fluid volumes up to 250 BPD without risk of failure caused by deliquification problems, minimizing maintenance costs and nonproductive time.

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Specifications

Pump designation, in.	2 -3/8 x 1-3/16 x 3/16	2 x 1-3/16 x 1	2-3/8 x 1-3/16 x 1-3/16	2-3/8 x 1-5/16 x 1-3/16
Stroke length, in. ***(mm)***	12 *304.8*			
Middle rod area, in² ***(mm²)***	0.911 *23.14*			
Displacement engine, BPD/spm ***(m³/day/spm)***	3.3 *0.53*			4.17 *0.66*
Displacement pump, BPD/spm ***(m³/day/spm)***	1.5 *0.24*	2.1 *0.33*	3.25 *0.52*	
Maximum displacement, BPD ***(m³/day)***	139 *22.1*	225 *35.8*	393 *62.5*	
Maximum speed, spm	121			
P/E ratio	0.353	0.647	1.00	0.788

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