

Weighted Sinker Bars

BETTER PERFORMANCE IN DEEPER WELLS

Flexible fiberglass downhole drive rods have many advantages, including lightweight strength.

Yet under certain conditions - pumping viscous fluids, high stroke speeds, and especially when pumping at greater depth - rod-fall issues may arise during the downstroke.

- The lower portion of the rod assembly may buckle under compressive loads.
- The piston's traveling valve may not open exactly when the downstroke begins, losing liquid production because of the shorter plunger stroke.
- Misalignment increases rod wear.

The primary cause of rod-fall is the light weight of the downhole drive-rod string.

7 OR 10 LBS., SS, 5 FT.

The simple solution is a 7- or 10 -pound, 60-inch, solid-stainless-steel sinker bar (or two or three), depending upon well depth and site requirements.

Sinker bars, attached to the drive-rod string immediately above the piston pump's plunger valve, allow gravity to eliminate the lower-rod compression of the fiberglass rod by keeping the rod string under tension during the entire cycle.

That tension also aligns the opening of the traveling valve with the beginning of the downstroke, maximizing the elasticity value of the fiberglass to increase plunger overtravel and thereby boost production per stroke.

Bar connects beneath drive rod.



60-inch bar with threads on each end.



BLACKHAWK RECOMMENDS

Sinker bars are threaded for rod connects at each end and can be installed in tandem.

Blackhawk recommends sinker bars for wells of 50 feet /15 meters or more, and strongly recommends sinker bars for wells 100 feet /30 meters or deeper, and for sites pumping highly viscous fluids.

In general, Blackhawk Model 101 pumps require one bar, 102 models require two bars, and 103 models require three bars.

Bar connects above piston.



TECHNICAL DATA

Material: 304 solid stainless steel

Weight: 7 lb / 3.175 kg

Length: 60 in /152.4 cm

Bar Width: .75 in / 1.905 cm

Threads: 9/16 in. x 20; full threads
0.5 in deep

Sinker bars may be joined linearly on the rod string, immediately above the downhole piston.

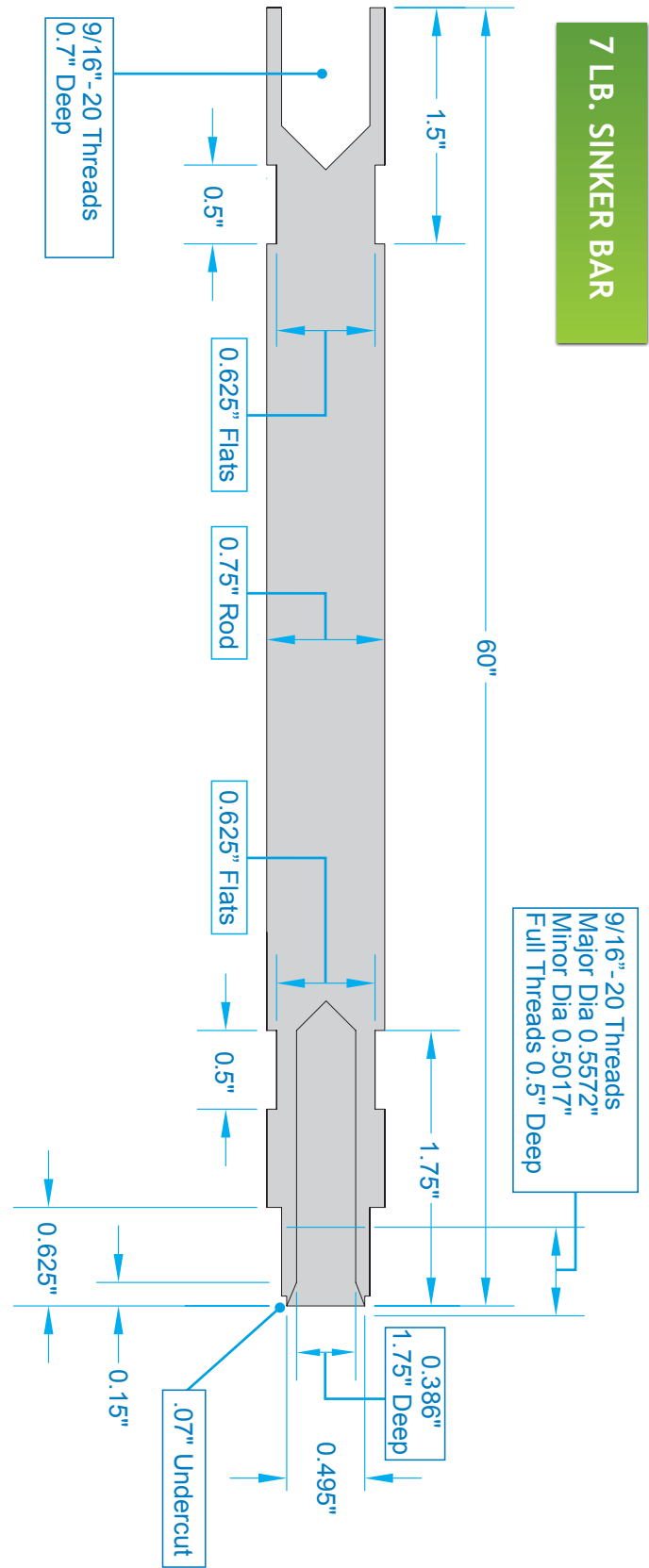
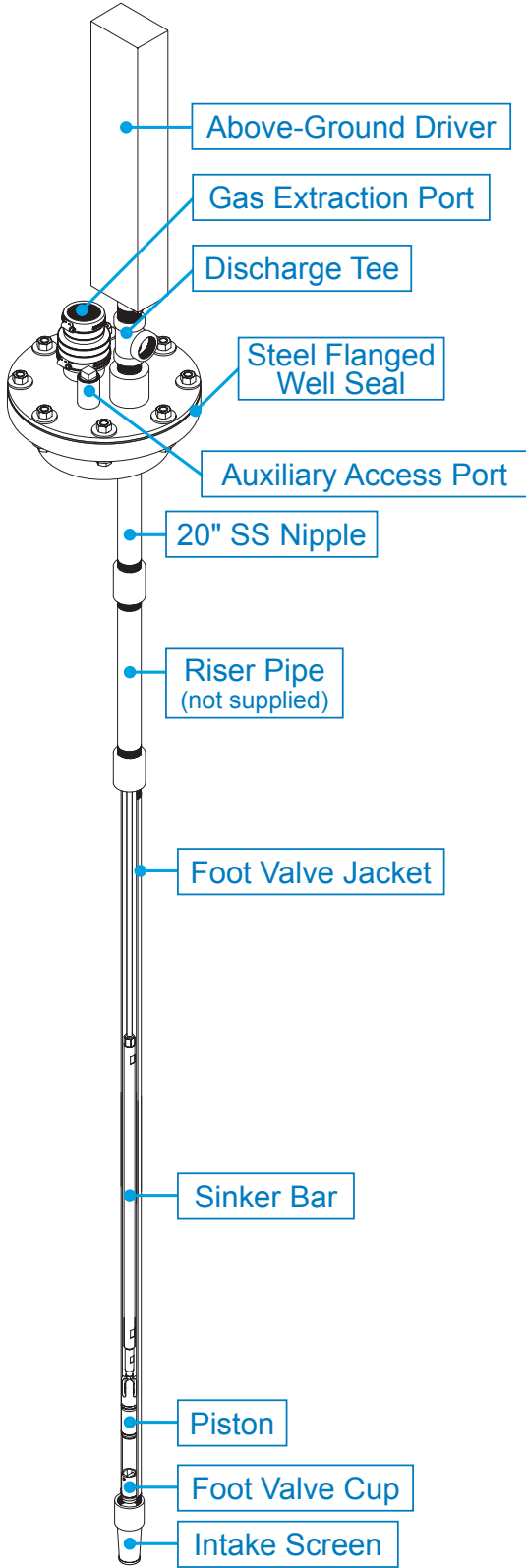
General requirements

by model: Model 101 - 1 bar
Model 102 - 2 bars
Model 102 - 3 bars

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Fact Sheet #23

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The best-performing environmental pump in the business

