



Hollow Pull Tube Rod Insert Pump - 2 Stage*

Works with your existing pumping equipment to elevate the production of high gas-to-oil wells

The [Hollow Pull Tube Rod Insert Pump](#) contains a hollow tube that improves the pump's rigidity and resistance to buckling during downstroke while promoting a straight plunger motion, even if rod strings bend or corkscrew. A wide cavity also improves flow and increases production.

The pump functions as a valve rod pump with top gas checks. A load valve at the top pull tube connection decreases the fluid column load on the traveling valve to prevent gas locking and suppresses any hydrostatic pressure that sits on the travel valve during downstroke.

Fluid discharges through the hollow pull tube into the tubing string instead of flowing around the valve rod and exiting through ported passages in the valve rod guide. The plunger-to-tube connector is ported so fluids can access the annulus between the tube and barrel, entering the annulus during downstroke and exiting during upstroke.

Advantages

- Hollow design resists buckling in harsh conditions
- Straight pumping motion improves efficiency
- Wide tube improves flow for maximum production

Specifications

Pump size	1.5 – 2 in
Barrel length	10 – 30 ft
Operational depth	Suitable for depths up to 10,000 ft
Materials of construction	Carbon steel hollow pull tube (standard)

*A third valve can be added to the top of the pull tube for gaseous applications.



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