

# PRO CYCLE PLUNGER



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The Efficient Pro Cycle Plunger is designed for wells that require short duration shut in times, high daily cycle counts, paraffin control and high liquid volumes. This innovative design allows the plunger to fall against high flow rates. Adaptable to all standard lubricator designs, requires lubricator trip rod and anvil.

## APPLICATION

Free cycle plungers are typically used in wells that can maintain a flowing gas rate equal to or greater than 60% of well head critical rate or wells requiring short closed time.

Rule of thumb Free Cycle Plunger

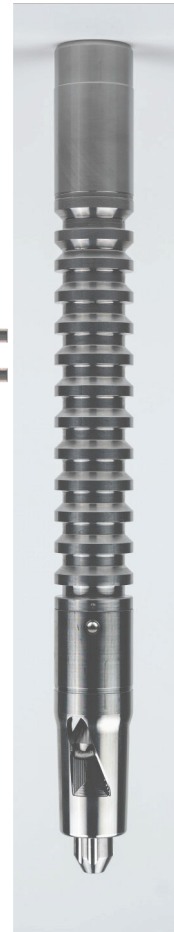
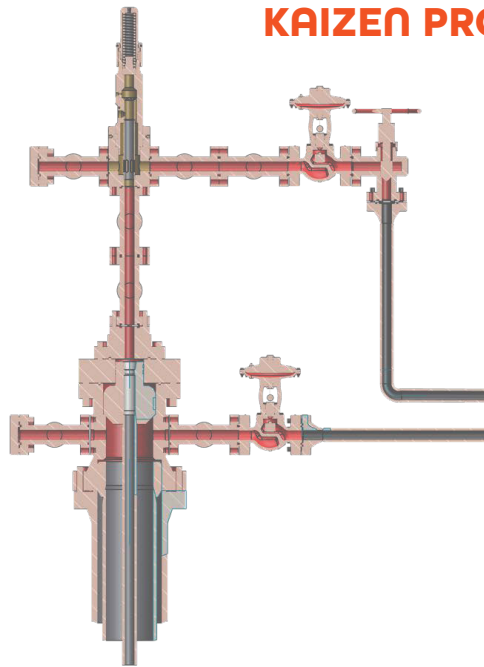
1000 feet per minute or 375 meters per minute fall speed

750-900 feet per minute, or 190-250 mpm rise speed

## DESIGN

- Works in all standard lubricators designs, requires lubricator trip rod and anvil
- The Efficient Pro Cycle Plunger is a free cycle plunger that uses an internal valve to allow a large flow bypass area
- Designed with 3 or 4 ports on nose cone for different fall speed applications.
- This high-quality plunger is built from high strength 4140 material and can be used in sweet and NACE sour service applications
- The Efficient Pro Cycle Plunger can be nickel coated for extreme environments to extend wear life and minimize corrosion
- Available in 60.3mm and 73mm sizes

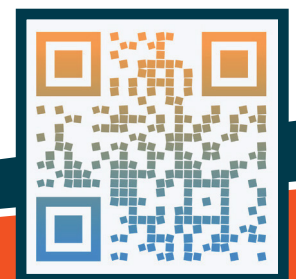
## KAIZEN PRO CYCLE PLUNGER



## ADDED FEATURES

- Valve design and flow path allows plunger to self clean in most sand and scale applications
- The valve clutch is designed to last the life of the plunger unlike other plungers in the market
- The valve clutch will not become soft or weak as the valve is shifted during standard operation

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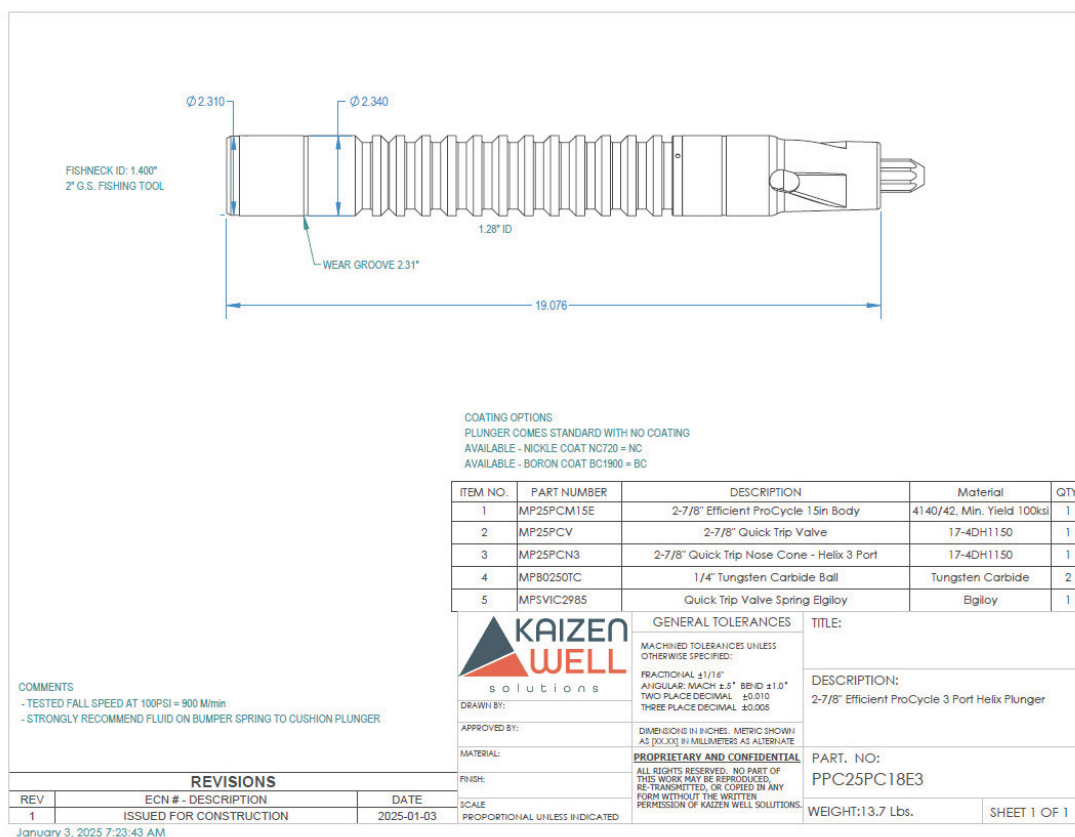


The Efficient Pro Cycle Plunger is designed with a trip rod, anvil and ring to open the valve in the ported nose sub. Once the valve is open the Pro Cycle Plunger will fall against flow and return to the Bumper Spring assembly installed in the tubing string. This type of Free Cycle Plunger can make more trips per day and optimize production. A short shut in time is required to ensure the plunger drops out of the Lubricator. The Pro Cycle is designed to work with Kaizen Lubricators to maximize efficiency.



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- Pro Cycle Fall Rates are a function of Well Flow Rate, Pressure and Number of ports in the Pro Cycle nose cone.
- Contact Kaizen Well Solutions for information on your specific well application.

## PRO CYCLE PLUNGER FALL SPEEDS

Tubing Size	Plunger Type	Port QTY	Fall Speed Static Gas (FPM)	Fall Speed Static Gas (MPM)	Static Pressure (KPA)
2 3/8"	Efficient Pro Cycle 3 Port Helix Ring Plunger	3	2120	646	750
2 3/8"	Efficient Pro Cycle 4 Port Helix Ring Plunger	4	2200	671	750
2 7/8"	Efficient Pro Cycle 3 Port Helix Ring Plunger	3	2932	894	571
2 7/8"	Efficient Pro Cycle 4 Port Helix Ring Plunger	4	3732	1138	520

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