

# Stanadyne's Symbolizes Quality

Stanadyne Corporation introduced its patented design Pencil Nozzle® in the 1960s. It quickly grew in popularity with diesel engine makers like John Deere, J.I. Case, Caterpillar, Ford Europe, Kubota and others; because its slim (9.5 mm diameter) body allowed engine designers to locate the nozzle tip closer to the combustion chamber center. Stanadyne's years of experience in design and precision manufacturing have resulted in an extremely reliable and high quality fuel injector product.

Manufactured to exact OEM specifications, the Pencil Nozzle® plays a significant role in reducing exhaust emissions, while optimizing diesel engine performance.

When look-alike products are substituted for our factory original Pencil Nozzle®, you not only sacrifice the quality, performance and warranty, but also the dependability and life of your diesel engine. Don't take chances with expensive diesel equipment – specify only Stanadyne's original Pencil Nozzle®. Look for Stanadyne's "S", symbolizing precision and quality.



***Nothing Protects Like  
Original Equipment***

## STANADYNE®

***Protect Your Investment  
by Specifying Only  
Stanadyne Original  
Pencil Nozzles®***

### Stanadyne Corporation

92 Deerfield Road, Windsor, CT 06095, USA

Tel: (860) 525-0821 • Fax: (860) 683-4587

Customer Support Toll Free Number: 1-800-842-2496

[www.stanadyne.com](http://www.stanadyne.com)

***Stanadyne Pencil Nozzle®  
Precision  
Manufactured for  
Performance  
& Reliability***



## STANADYNE®



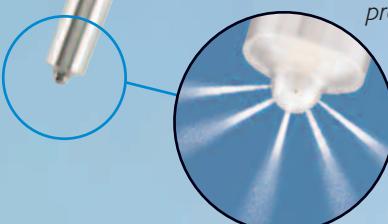
# There is a Difference – Stanadyne World-Class Precision Manufacturing

compared to **Look-alikes**



## Nozzle Tip with Target Spray

Stanadyne nozzle tips are precision drilled to exact specifications for precise fuel targeted and optimum fuel atomization.



## Nothing Protects Like Original Equipment

With Stanadyne Pencil Nozzles® you get:

- Precision Spray Holes (Size and Target Angles)
- Injectors Designed for Your Engine
- The Best Fuel Economy and Reduced Emissions
- Two Year Warranty!

Several companies are attempting to manufacture or remanufacture Stanadyne Pencil Nozzles®. We found the remanufacturing process of Pencil Nozzles® to be too costly and ineffective; therefore, we only supply factory fresh new Pencil Nozzles® as replacement parts and we back them with a 24 month warranty.

Having collected numerous samples of look-alike pencil nozzles and analyzing them in our engineering facilities, we found many defects. The quality of the non-genuine nozzles was unsuitable in many areas. These defects would certainly lead to early nozzle failure and in some cases engine damage. Listed below are some of the findings from our analysis of these non-genuine pencil nozzles.

Look-alike Defects	Safety/Engine Damage Issues
Holes in molded plastic leak-off caps	Low pressure fuel leakage causing odor and possible fire hazard
Poor high pressure braze joints: incorrect braze material, weak & contaminated joints	Braze joint will fail resulting in high pressure fuel leakage on engine, creating fire hazard
None or inferior nozzle body coating	Nozzle sticks in cylinder head making it extremely difficult or impossible to remove
No "T" feature on valve tip	Increased exhaust smoke and emissions Decreased fuel economy
Off Target Spray	Poor engine performance & increased emissions Possible engine damage - burned pistons and cylinder heads