

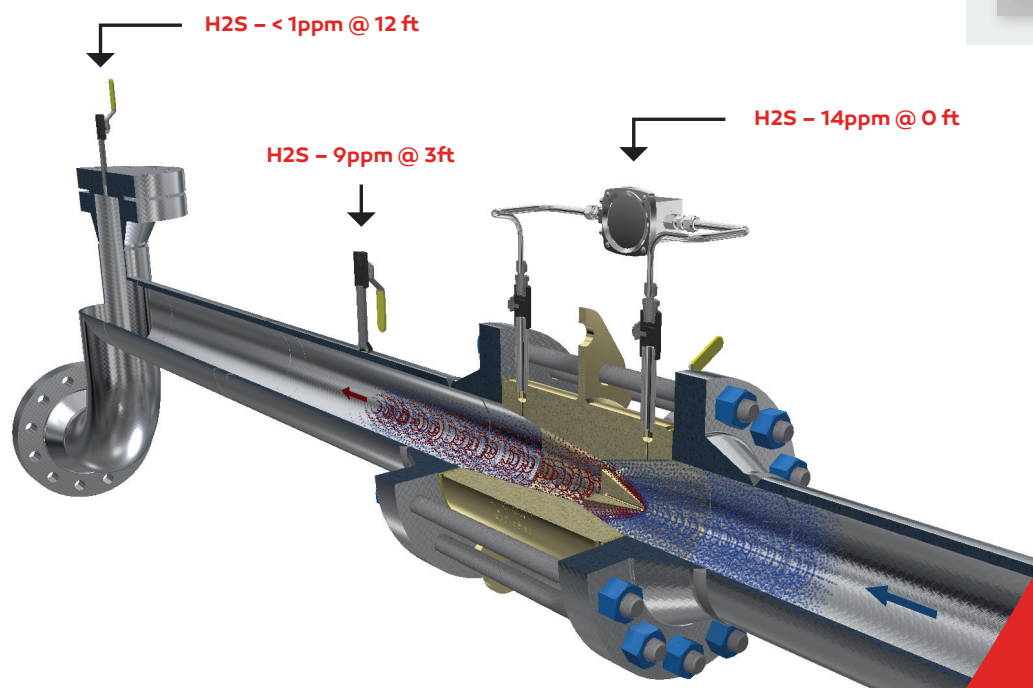
H2S Case Study

Eagle Ford Shale eCLIP

An Eagle Ford producer requested the installation of a second eCLIP inline atomizer after a successful performance with their first unit. The 2nd site was producing between 7.5 and 15 mmcf/d, with an inlet H₂S level of 14 ppm. Injection of triazine scavenger occurs at the tip of the eCLIP nozzle. After 3 ft and 12 ft downstream of the eCLIP, Dräger tube readings were taken to measure the residual H₂S concentration after short residence times of 0.5 and 2.0 seconds. Previously, using a standard injection atomizer, full reaction of the triazine chemical with the H₂S required well over 250ft before the pipeline specification of 4 ppm was achieved. With the enhanced mixing efficiency of the ProSep eCLIP inline atomizer, the readings obtained at 3 and 12 ft, respectively, were 9ppm and <1ppm. The operator pulled several more Dräger tubes at 12 ft, confirming the performance.

With the eCLIP inline atomizer installed, the customer was able to:

- Reach pipeline H₂S specification in less than 12 ft
- Enhance triazine usage
- Prevent clogged atomizer tips due to unique eCLIP design
- Reduce chemical injection pressure, less chemical pump maintenance
- Maintain performance between pump strokes, no chemical pulsation observed



Contact ProSep today to learn more about our eClip inline atomizer by visiting prosep.com or calling 281-504-2040.

eCLIP

efficient Compact Lightweight Injection Port

Increase your efficiency, CLIP your OPEX

ProSep's eCLIP inline atomizers provide chemical savings in a compact, easy-to-install, and cost-effective product.

BENEFITS

- Chemical consumption reduced up to 40%
- No clogging – less down time
- Reduced CAPEX & footprint – replaces contacting towers
- Quick ROI
- Low differential pressure
- Inline solution – easily retrofitted
- No moving parts – low maintenance

APPLICATIONS

- Gaseous flows
 - H₂S scavenging
 - Natural gas dehydration
 - Amine injection
 - Scale inhibitors

FEATURES & DESIGN

ProSep has optimized its gas processing mixer technology to address the specific shale play market need in North America. The eCLIP inline atomizer provides injection, dispersion, and high efficiency mixing in a compact form. Clients will benefit from fast delivery times and simple installation and operation. The eCLIP can be provided in sizes ranging from 2" and up for production pipelines. The compact nature of the eCLIP unit allows for easy installation for field operations. And when process conditions change, the eCLIP has been designed to be easily changed out to match the new production conditions and to ensure that maximum performance is achieved at all times.

