

CLEANING ECOSPEED SERVICE

SLOW DOWN FOR OPTIMAL PERFORMANCE

Gas transportation pipelines convey large volumes of product in a cost-efficient manner, with gas typically moving at rates above 8 m/s. Vital to the cost-effective transportation of any medium is the maintenance of the pipeline's internal diameter because the smallest amount of deposit can hinder performance. This means optimal cleaning techniques and performance are crucial to maintain or even increase the efficiency of transportation.

THE CHALLENGE

Ideal cleaning performance is achieved when cleaning tools travel at lower speed, i.e. below 5 m/s. Running cleaning tools at higher velocity can lead to inferior performance of the tools due to high abrasion on discs and cups, which in turn leads to substandard cleaning. Consequently, for cleaning programs to be most effective, high-velocity gas pipelines often require significant cutbacks to achieve safe & optimal parameters for cleaning operations. Of course, lowering the production speed of any asset also has a dramatic effect on operations and financial performance.

THE SOLUTION

In order to avoid any loss of performance and to ensure optimal cleaning efficiency, ROSEN Group has developed the ROSEN Cleaning EcoSpeed Service. As part of this new service, ROSEN equips cleaning tools with a unique speed reduction valve that enables them to slow down to speeds typically between 3-5 m/s without necessitating a corresponding reduction in product throughput. Following deployment and retrieval of the tools, our field service technicians analyze run performance and cleaning efficiency,



optimize tool set-up where necessary for subsequent runs, and refurbish and maintain the tools for future use.

An active valve system allows product bypass through the tool body to achieve smooth run conditions. As the high-velocity gas passes, the forces acting on the rear of the tool are reduced significantly, so that the tool is propelled forward not at the velocity of the gas, but rather significantly slower, allowing for more effective and controlled cleaning.

Available for various diameters, the valve can also be utilized in dual and multi-diameter configurations. Tools are equipped with a release mechanism for safe launching operations regardless of the pipeline condition.

KEY ADVANTAGES

- Reduced speed of tool for optimal cleaning without hindering regular gas flow
- Flow assurance management can be provided
- Saved operational cost
- Heightened performance of asset