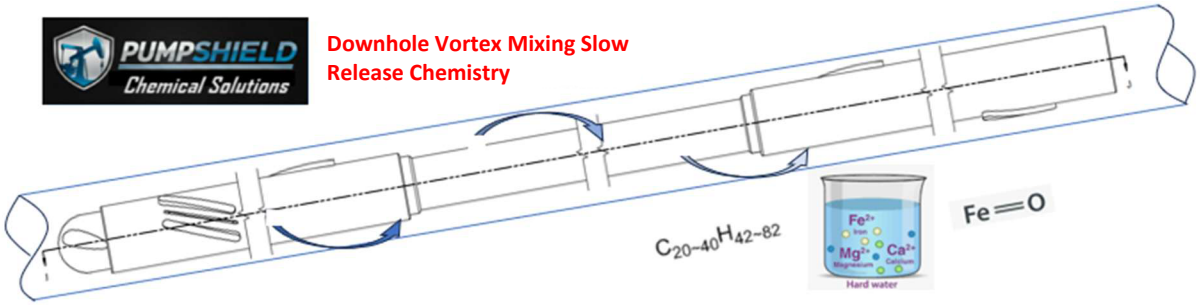
Artificial Lift Services

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Q2 PUMPSHIELD

The Q2 Pump Shield features an advanced design that enables precise dissolution of slow-release chemistry in a vortex flow annulus directly at the pump downhole, ensuring targeted delivery where it matters most. Through dynamic collaboration with Surface Chemical Company and Operators, the Q2 Pump Shield Division revolutionizes chemical treatments for enhanced downhole scale, paraffin, corrosion, asphaltenes and other applications.



The Q2 Pump Shield tackles challenges such as scale, paraffin, corrosion, H2S, and asphaltenes, and can also enhance solid dispersion and friction reduction. Using the same helical angle design as the Q2 Flow Cage, Turbine, and Sand Twister, it first optimizes multiphase flow, homogenizing produced water, oil, and solids. Its vortex velocity inlets and outlets ensure even, consistent chemical mixing with native fluids, preventing erratic release and screen blockages. With features like a 3.14° angle, ramp design, and extruding rounded welded edges, it minimizes pressure drop for efficient operation and allows for full 360 degrees of chemical dissolution. Acting like a lab flask, the patent provisional vortex mixing system ensures controlled, slow chemical release throughout its lifespan. Engineered for versatility, the tool supports multiple chemical formulations for either staged or simultaneous release. It ensures uniform concentrations and consistent performance, offering reliable protection for sucker rods, production tubing, and bottom hole assemblies, while significantly extending the lifespan of your downhole pump. This liquid gets mixed into the production fluid with vortex flow with every stroke, enhancing the even delivery into the system much better than just 90-degree holes and mesh screens, which cause pressure drops and uneven mixing of chemistry into the native production fluid.



Q2 ARTIFICIAL LIFT SERVICES
sales@Q2als.com

CANADA
7883 Edgar Industrial Way, Red Deer, AB
T4P 3R2 P: 403.343.8802

USA
3611 Hwy 158, Midland, TX 79706
P: 432.685.2600