

Proserv Energy Efficient Chemical Injection System

Proserv's Energy Efficient Chemical Injection System uses ingeniously simple techniques whilst using a renewable source of energy but still keeping it as portable as possible. The improved design offers realistic 'fit for purpose' functionality for typical use of corrosion inhibitor chemical dosing with considerable reduction in weight, overall footprint and energy consumption.

Features & Benefits

- Specifically designed for any chemical injection dosing application in mind with ease in mobility, operation and maintenance
- Uses solar power as source of energy
- Reduced number of components for intended dosing application
- Less leakage paths
- Reduced solar power loading for given engineering parameters of flow rate and pressures by using high efficiency pumps
- Use of API 674/675 compliant (on accuracy/reliability & repeatability parameters) dosing pump
- Use of multi-piston pump design to reduce system pressure pulsations and motor torque spikes
- Ultra low friction ceramic wetted parts for the pump for compatibility with a wide range of chemicals
- Self priming system
- Pulse width modulation (PWM) technique for smooth flow control and turn down ratio
- Remote process monitoring through cellular network (GSM) is available as option
- Hazardous area execution is available as an option



Technical Specification

Power supply	24 VDC solar driven, in built solar system
Temperature rating	4 Deg C to 50 Deg C ambient temperature
Flow/pressure range	0.05 LPM to 0.5 LPM dosing rate at 50 BarG (725 PSIG) injection pressure as standard. Higher dosing flow rates and/or higher injection pressures (up to 690 BarG) are also available as options
Flow control	Pulse width modulation technique
Application	Single point portable corrosion inhibitor or other typical oil & gas chemicals dosing application
Duty cycle	Continuous or intermittent as per process requirements
Control system	Built in pump starter arrangement Optional - SCADA interface with intelligent module for monitoring through cellular network
Tank capacity	300L, portable , removable design as standard offering. Can be tailor made to suit client requirements
Skid construction	All in SS316 L stainless steel
Skid pipe work	SS316 L A269 seamless tubing with double compression ferrule fittings in SS316 stainless steel

* Solar panel shown in the product image above is for illustration purpose only. Actual panel size shall vary from application to application.

ingenious simplicity

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