

slick-hd is the second generation of **rime's** patented rotary shear valve servo pulser. it builds on the proven success of our first generation **slick™** servo pulser and adds significant improvements in reliability across the entire operating regime.

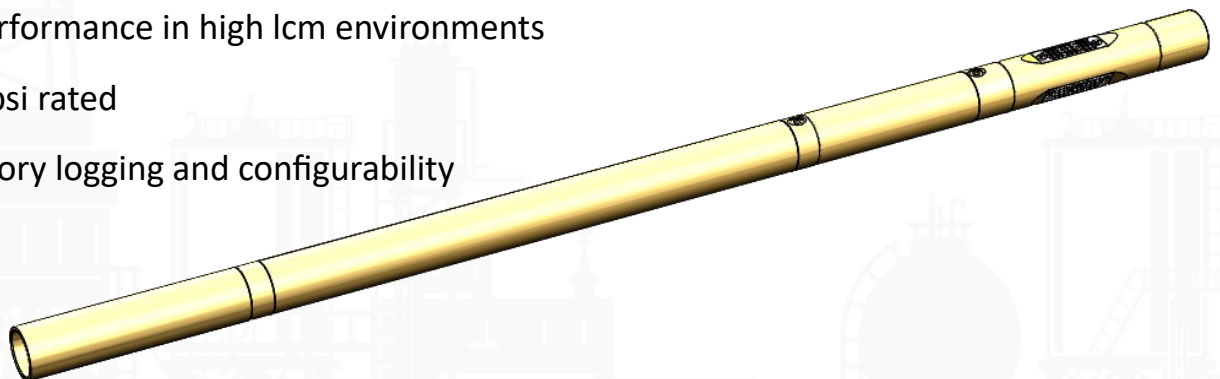
slick-hd features a rotary shear servo valve that provides exceptional performance in high solids and high lcm environments. it minimizes the pressure loss through the servo module, thus allowing greater forces to be imparted to the main valve assembly. this helps create more reliable, sharper and cleaner pulses than can be achieved with other types of servo pulsers. the wiping and cutting action of the rotary shear valve clears away any compacted debris and ensures unobstructed flow through the system in the most challenging and contaminated environments.

slick-hd decouples the hydrostatically compensated section of the servo pulser from the pulser driver module with a high torque magnetic coupling assembly. this eliminates failures of the motor and driver module caused by corrosion, fluid or gas invasion and erosion while also reducing frictional losses in the drive train.

slick-hd is available in both dual port or quad port versions. dual port provides the highest level of lcm capability while quad port offers the ability to achieve faster pulse widths. **slick-hd** is available with many connector and interface options including kintec, lemo and mdm.

the combination of the rotary shear valve, magnetic coupling drive mechanism and robust control electronics enables **slick-hd** to have exceptional performance in deep, hot and hostile environments while maintaining the best combination of low operating cost, high reliability and exceptional functionality.

- second generation high wear rotary shear servo valve
- piston compensated
- magnetically coupled drive
- exceptional performance in high lcm environments
- 175°C, 20,000 psi rated
- extensive memory logging and configurability



specifications

nominal length	46.9" (1191.26mm) with kintec connector
housing o.d.	1.875" (47.6 mm)
operating voltage range	15-40VDC (20-35V recommended)
power consumption	~3mA standby, ~125mA*s/pulse @ 28V (~3.5 joules/pulse)
operating temperature	32° to 347°F (0° to 175°C)
shock rating	1000g, 0.5ms, ½ sine, 10 times, all three axes
vibration rating	5-30Hz@1in double amplitude, 30-500Hz 20grms all axes
pressure rating	20,000 psi (137,895kPa)
operating pulse widths	0.375-2.000 s with dual port option
	0.188-2.000 s with quad port option
flow switch	integrated three axis, solid state with high configurability
memory	8MB non volatile memory with event and statistical data logging

statistics as of 8.1.2019

units deployed	525+
circulating hours	625,000+ hours
pulses sent	555,000,000+ pulses

patents

the product or products described in this document and their features are protected under US09133950, CA2890097, GB2523489 and CN104884738.

