

SK-RP Compensated Servo Pulser



SK-RP 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.

SK-RP 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. SK-RP 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. SK-RP 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 SH-RP to have exceptional performance in deep, hot and hostile environments while maintaining the best combination of low operating cost, high reliability and exceptional functionality.

Product Characteristics

- Interface compatibility Tensor System
- High integration of pulse generator, short in length
- Drive and transmission adopt magnetic coupling separation, high-reliability
- Brushless DC motor, energy efficient
- Rotary shear valve, Difficult to sand jamming

175°C/200°C

Max.Temperature

20000Psi

Max.Pressure

**Energy efficient,
Difficult to sand
jamming**

Rotary shear valve



Product parameter	
Operating Voltage Range	15-40VDC (20-35V recommended)
Power Consumption	~5mA standby, ~125mA*s/pulse @ 28V (~3.5 joules/pulse)
Data rate	0.5-2 bps
LCM	Medium granularity
Vibration Rating	5-30Hz@1in double amplitude, 30-500Hz 20grms all axes
Shock Rating	11000g, 0.5ms, ½ sine, 10 times, all three axes
Mechanical Specification	φ47.6mm × 1192mm

Temperature rating	Type	Max.Temperature-Operating (°C)	Max.Temperature-Survival (°C)	Max.Pressure PSI
High temperature	Bottom mounted Brushless DC motor Rotary shear valve	175	185	20000
Superhigh temperature		200	210	20000