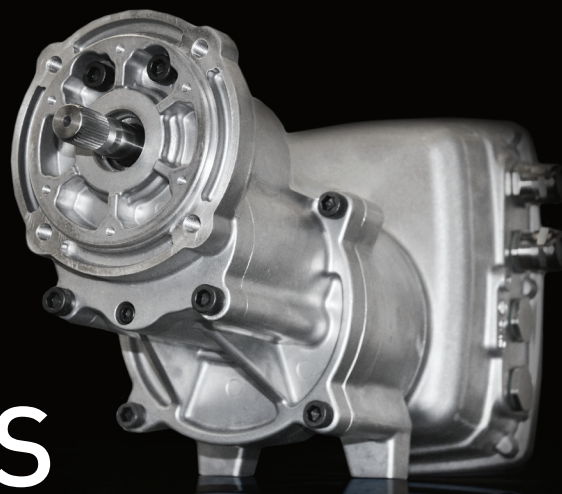


PRECISION CONTROL IN HARSH ENVIRONMENTS



The R-Series actuator family handles your actuation challenges in various applications: fuel throttles, variable turbine geometry turbocharger actuation, wastegate valves, exhaust gas recirculation valves, compressor bypass valves, and various other exhaust valve applications.

- Scalable configuration gearbox/motor/software
- Small, lightweight package
- IP67 dust and water immersion
- High output torque
- Engine mountable
- 73° of travel for more work output
- Fast response
- High vibration / high temperature tolerant
- No hydraulic lines – all electric easy to install and maintain
- Low current demand
- Hazardous location certified
- Designed to meet marine certifications

	PARAMETER	R-11	R-30	Competitor #1	Competitor #2	Competitor #3
PERFORMANCE	Torque	Transient = 11 Nm Steady St = 5.5 Nm	Transient = 30 Nm Steady St = 15 Nm	Transient = 15 Nm Steady St = 5 Nm	Transient = 28 Nm Steady St = 9 Nm	Transient = 40 Nm Steady St = 14.5 Nm
	Travel	73°	73°	42°	42°	42°
	Work	7.0 Joules	19.1 Joules	3.7 Joules	6.6 Joules	10.2 Joules
	Electrical Current	1 A Steady State 3.7 A Max	1 A Steady State 3.7 A Max	1.7 A Steady State 5 A Max	1.7 A Steady State 5 A Max	1.7 A Steady State 5 A Max
	Slew Rate	75 ms	105 ms	120 ms	170 ms	190 ms
	Accuracy	+/-1.36% over the full travel			Unavailable	
	Weight	8.0 kg	8.3 kg	12.3 kg	12.3 kg	12.3 kg
ENVIRONMENTAL	Temp Rating	-40 to +105°C	-40 to +105°C	-25 to +90°C	-25 to +90°C	-25 to +90°C
	Vibration	Frequency (Hz) Allowed PSD Level (G ² /Hz)	10 = 0.000466101 100 = .046610131 1000 = 0.046610131 2000 = 0.023305065	Unavailable		
	IP Rating	IP 67		IP 55	IP 55	IP 55
RELIABILITY	Motor	Brushless DC motor is more reliable, no return spring		Brush type DC motor with return spring, brushes wear out and spring reduces available torque, proprietary pancake motor		
	Gears	Hardened gears for long life		Cut gears, bronze alloy		

Download Product Specification 03413
from www.woodward.com to see more details