



## RAF Series Piston Type Rotary Actuators

Equipped with a cross roller bearing for high accuracy and rigidity. Achieve smooth oscillating operation from low to high speeds 0.2 to 7.0s / 90° up to a max 180 ° rotation degree specification. This series boasts the most compact dimensional size available and allows a workpiece to be mounted directly to bearing and low center of gravity. Large diameter hollow shaft makes piping and wiring easy.

- Precision Rack & Pinion W/ Cross Roller Bearing Guided Table
- Compact Design Allows for High Torque Outputs
- Location Pin Hole Standard for Precision Installations
- Precision Manufactured for Smooth Operation at All Speeds
- Patented Pressure Resistant Linear Orifice Shock Absorbers
- RoHS Compliance

Improve the performance and reduce the size of your next generation machine. Koganei sets the standard for supplying innovative high-quality solutions with unmatched reliability. Optimized designs, with a wide variety of styles and sizes, increase speed to market as well as provide solutions for most applications. Expedite deliveries with product stocked in the USA.

KOGANEI is committed to your success from concept, to initial design, to final delivery and beyond.

### Operations

Double Acting Double Piston

### RAF Series Piston Type Rotary Actuators

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Model	Operation	Bore mm	Rotation Angles degrees	Stroke Adjustment degrees	Port Size metric [imperial]	Effective Torque* N [lbf]	Allowable Energy J [ft.lbf]	Allowable Radial Load N [lbf]	Allowable Thrust Load N [lbf]	Allowable Moment Nm [ft.lbf]	Pressure Range MPa [psi]	Temperature Range °C [°F]
RAF	Double Acting Double Piston	10	180	+5 / -110	M5 x 0.8 [upon request]	0.96 [0.708]	0.4 [3.54]	3830 [861.02]	8700 [1955.838]	65 [47.9]	0.2 - 0.7 [29.0 - 101.5]	0 - 60 [32 - 140]
RAF	Double Acting Double Piston	20	180	+5 / -110	M5 x 0.8 [upon request]	2.13 [1.571]	0.8 [7.081]	5450 [1225.21]	12380 [2783.135]	110 [81.1]	0.2 - 0.7 [29.0 - 101.5]	0 - 60 [32 - 140]
RAF	Double Acting Double Piston	25	180	+5 / -110	Rc 1/8 [upon request]	2.34 [1.726]	1 [8.851]	9120 [2050.26]	20720 [4658.042]	212 [156.4]	0.2 - 0.7 [29.0 - 101.5]	0 - 60 [32 - 140]
RAF	Double Acting Double Piston	30	180	+5 / -110	Rc 1/8 [upon request]	3.57 [2.633]	1.6 [14.161]	10600 [2382.98]	24090 [5415.649]	272 [200.6]	0.2 - 0.7 [29.0 - 101.5]	0 - 60 [32 - 140]
RAF	Double Acting Double Piston	50	180	+5 / -110	Rc 1/8 [upon request]	4.7 [3.467]	2.5 [22.127]	11300 [2540.34]	25680 [5773.095]	319 [235.3]	0.2 - 0.7 [29.0 - 101.5]	0 - 60 [32 - 140]
RAF	Double Acting Double Piston	70	180	+5 / -110	Rc 1/8 [upon request]	6.65 [4.905]	5 [44.254]	20900 [4698.51]	47500 [10678.428]	668 [492.7]	0.2 - 0.7 [29.0 - 101.5]	0 - 60 [32 - 140]

\* @ 0.5 MPa / 72.5 psi

Focused on providing industry leading pneumatic, fluid handling, and electrical automation components and assemblies for the OEM market | Think KOGANEI