



RAP Series Piston Type Rotary Actuators

Compact in size, the RAP Series offers 5 different rotation specifications from 90° to 360° of rotation. This design uses a separate-type piston construction that avoids interference with the loads caused by backpressure and eliminates air leakage issues. Stainless steel and double rod options have been added along with solid state and reed sensor options.

- Double Acting Rack and Pinion Piston Type
- Double Shaft Design and Stainless-Steel Shaft Available
- Utilizes 4 mm Solid State Sensors
- No-backlash Operation - Double Rack Design
- 90° to 360° Rotation Options
- 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 Piston

RAP 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]
RAP / HRAP	Double Acting Piston	1	90, 100, 180, 190, 360	Not Adjustable	M5 x 0.8 [10-32 UNF]	0.078 [0.058]	0.001 [0.009]	1.5 [0.34]	0.08 [0.018]	Consult Factory	0.15 - 0.7 [21.8 - 101.5]	0 - 50 [32 - 122]
RAP / HRAP	Double Acting Piston	5	90, 100, 180, 190, 360	Not Adjustable	Rc 1/8 [1/8 NPT]	0.373 [0.275]	0.003 [0.027]	2.5 [0.56]	0.13 [0.029]	Consult Factory	0.15 - 0.7 [21.8 - 101.5]	0 - 50 [32 - 122]
RAP / HRAP	Double Acting Piston	10	90, 100, 180, 190, 360	Not Adjustable	Rc 1/8 [1/8 NPT]	0.883 [0.651]	0.008 [0.071]	4.3 [0.97]	0.22 [0.049]	Consult Factory	0.06 - 0.7 [8.7 - 101.5]	0 - 50 [32 - 122]
RAP / HRAP	Double Acting Piston	20	90, 100, 180, 190, 360	Not Adjustable	Rc 1/8 [1/8 NPT]	1.863 [1.374]	0.015 [0.133]	8 [1.8]	0.4 [0.09]	Consult Factory	0.06 - 0.7 [8.7 - 101.5]	0 - 50 [32 - 122]

* @ 0.5 MPa / 72.5 psi