

RAN Series Vane Type Rotary Actuators



This compact aluminum alloy body series is lightweight and provides easy mounting and installation. This series provides OEM customers flexibility for installation with 5 different mounting options available. Six different rotation degree specifications from 90° to 275°.

- Double Acting Single Vane Type
- Low Air Leakage and Long Life Operation
- Utilizes 4 mm Solid State Sensors
- Four Mounting Options for Easy Installation
- 90° to 275° 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 Vane

RAN Series Vane 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]
RAN	Double Acting Vane	1	90, 100, 180, 270	Not Adjustable	M5 x 0.8 [upon request]	0.118 [0.087]	0.0004 [0.004]	19.6 [4.41]	2 [0.45]	Consult Factory	0.25 - 0.7 [36.3 - 101.5]	5 - 60 [41 - 140]
RAN	Double Acting Vane	3	90, 100, 180, 270	Not Adjustable	M5 x 0.8 [upon request]	0.294 [0.217]	0.002 [0.018]	39.6 [8.9]	3.9 [0.877]	Consult Factory	0.2 - 0.7 [29.0 - 101.5]	5 - 60 [41 - 140]
RAN	Double Acting Vane	8	90, 100, 180, 270	Not Adjustable	M5 x 0.8 [upon request]	0.785 [0.579]	0.005 [0.044]	58.8 [13.22]	5.9 [1.326]	Consult Factory	0.2 - 0.7 [29.0 - 101.5]	5 - 60 [41 - 140]
RAN	Double Acting Vane	20	90, 100, 180, 270	Not Adjustable	M5 x 0.8 [upon request]	1.961 [1.446]	0.015 [0.133]	294.2 [66.14]	29.4 [6.609]	Consult Factory	0.2 - 0.7 [29.0 - 101.5]	5 - 60 [41 - 140]
RAN	Double Acting Vane	50	90, 100, 180, 190, 275	Not Adjustable	Rc 1/8 [upon request]	5.197 [3.833]	0.06 [0.531]	588.4 [132.28]	98.1 [22.054]	Consult Factory	0.2 - 0.7 [29.0 - 101.5]	5 - 60 [41 - 140]

* @ 0.5 MPa / 72.5 psi