# **Rotary Actuators-Light Duty, Flange**

• **Tight spaces:** The "ultra thin" profile and bearing supported flange provide an extremely compact package for tight space applications. Payload can be connected directly to the flange without the need for extra bearing support.

- Precision applications: Zero backlash, preloaded ball bearings, and slip fit dowel pins make this a very precise and repeatable rotary actuator.
- Rotary Air Manifold Eliminates twisted airline.

# **Mounting Information:**

### Mounts and operates in any orientation



Payload attaches to flange with screws and locates by using dowel pins



Unit can operate inverted with payload attached to the flange.



Body mounts with screws and locates with dowel pins for accuracy

# **Technical Specifications:**

**Pneumatic Specifications** Pressure Operating Range Cylinder Type **Dynamic Seals** Valve Required to Operate

Imperial Metric 30-100 psi 2-7 bar **Dual Double Acting** Internally Lubricated Buna-N 4-way, 2-position

Air Quality Requirements Air Filtration Air Lubrication Air Humidity

40 Micron or Better Not Necessary\* Low Moisture Content (dry)

**Temperature Operating Range** Buna-N Seals (standard)

-30°~180° F -35°~80° C -20°~300° F -30°~150° C

# Maintenance Specifications<sup>†</sup>

Viton Seals (optional)

Expected Life Normal Application w/ Preventative Maintenance Field Repairable Seal Repair Kits Available \*Addition of lubrication will greatly increase service life <sup>†</sup>See Maintenance Section

5 million cycles 10+ million cycles\* Yes Yes

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### Air pressure supplied to both cylinders simultaneously using internal porting, drives the piston racks in opposite directions.

- The piston racks simultaneously drive the pinion gear which is attached to the flange.
- The flange is supported in the body by a preloaded ball bearing
- Hardstops, located directly on the flange, reduce wear on internal drive components.

## **Designed and manufactured in the USA**

Style-RR Rotary Actuator			
Size -18M	Style: RF Max. Payload: 1 Torque: 6.5 Weight:* 0.44 *Base unit.	Image: https://www.image.org/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/action/lbs/act	

# **Style-RR Rotary Actuator**



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# ROTARY ACTUATORS RR-18M FLANGE OUTPUT SERIES





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# ROTARY ACTUATORS RR-28M FLANGE OUTPUT SERIES



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02	1	Flange/Turntable
03	2	Rack, Piston
04	1	Pinion
05	1	Lock Nut
06	2	Plug, Flow Control
08	1	Clamp Plate
09	1	Bearing, Radial
10	1 or 2	Striker
11	2	Puck
15	1 or 2	Sensor
21	1 or 2	Push-in Fitting
22	1 or 2	Barb Fitting
25	1	Sensor Coupler

**NOTE:** Contact the Robohand Sales Department for a complete spare parts list with order numbers and prices.

# **Accessory Installation & Adjustment Instructions**



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