Vane Type Rotary Actuator
Pneumatic HI-ROTOR

aerospace
climate control
electromechanical filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding
Miniature HI-ROTOR

PRNA series

<table>
<thead>
<tr>
<th>Vane type</th>
<th>Model No.</th>
<th>Output torque (N·cm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single vane</td>
<td>PRNA1S</td>
<td>12.9</td>
</tr>
<tr>
<td></td>
<td>PRNA3S</td>
<td>31</td>
</tr>
<tr>
<td></td>
<td>PRNA10S</td>
<td>98</td>
</tr>
<tr>
<td></td>
<td>PRNA20S</td>
<td>170</td>
</tr>
<tr>
<td></td>
<td>PRN30S</td>
<td>319</td>
</tr>
<tr>
<td>Double vane</td>
<td>PRNA1D</td>
<td>28.6</td>
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<tr>
<td></td>
<td>PRNA3D</td>
<td>71</td>
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<tr>
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<td>PRNA10D</td>
<td>211</td>
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<tr>
<td></td>
<td>PRNA20D</td>
<td>388</td>
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<tr>
<td></td>
<td>PRN30D</td>
<td>770</td>
</tr>
</tbody>
</table>

(Note) Output torque is the value at 0.5 MPa.

HI-ROTOR

PRN series

<table>
<thead>
<tr>
<th>Vane type</th>
<th>Model No.</th>
<th>Output torque (N·cm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single vane</td>
<td>PRN50S</td>
<td>479</td>
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<tr>
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<td>PRN150S</td>
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<td>PRN300S</td>
<td>2850</td>
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<td>PRN800S</td>
<td>10200</td>
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<tr>
<td>Double vane</td>
<td>PRN50D</td>
<td>1040</td>
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<td></td>
<td>PRN150D</td>
<td>3500</td>
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<td></td>
<td>PRN300D</td>
<td>6800</td>
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<tr>
<td></td>
<td>PRN800D</td>
<td>20600</td>
</tr>
</tbody>
</table>

(Note) Output torque is the value at 0.5 MPa.
Vane Type Rotary Actuator
Pneumatic HI-ROTOR

■ Full series line-up
A full line of 1, 3, 10, 20, 30, 50, 150, 300, 800 is available. For PRNA1 and bigger models, single and double vane type (with double the effective torque) are available. For PRN50 and bigger models, a series of specially made cushion units (CRN) are available. In addition, there are HI-PAL HI-ROTORs of PRHA10 and bigger (incorporating solenoid valve).

■ Easy-to-use oscillating angle
Three oscillation reference points of 45° and 90° and five oscillating angles of 90°, 100°, 180°, 270° and 280° are featured. Oscillating angles that are frequently used are standardized for wide selection.

■ Durability to high temperature
Use of dry air dehumidified through an air dryer makes it possible to use HI-ROTOR within a surrounding temperature range of -5°C ~ 80°C. (PRN:Usable at a maximum of 60°C)

■ Stable operation
Uniquely designed sealing mechanism minimizes leakage, assuring low speed oscillating and stable, smooth operation at low pressures and speeds.

■ Outstanding durability
A solid vane shaft and built-in damper are combined with a unique sealing mechanism to assure outstanding durability. PRN50 and bigger models are capable of operating a greater load with the incorporation of a Hydro-cushion.

Application

Stopper
Rotary motion
Open & Close
Full series line-up

MINIATURE HI-ROTOR

HI-PAL HI-ROTOR
/With solenoid valve
PRNA Series

PRHA Series

Variable oscillating angle type
PROA Series

STEP HI-ROTOR
Unique vane type oscillating actuator
consisting of a combination of two
HI-ROTORs designed for 2 and 3-step feeds.

SH Series

HI-ROTOR

Standard type
PRN Series

HI-PAL HI-ROTOR
/With solenoid valve
PRH Series

SH Series

Hydraulic

HYDRAULIC HI-ROTOR
Hydraulic vane type rotary actuator
HRN Series

HYDRO-CUSHION
Shock absorber for HI-ROTOR
CRN Series

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