KAY DOUBLE STAGE ROTARY VANE VACUUM PUMPS

KRP/KMP Series
6-95 m³/h
A rotary vane vacuum pump is an oil-sealed rotary displacement pump. The pumping system consists of a housing, an eccentrically installed rotor, vanes that move radially under centrifugal force and the inlet and outlet. The outlet valve is oil-sealed. The inlet valve is designed as a vacuum safety valve that is always open during operation. The working chamber is located inside the housing. Rotor and vanes divide the working chamber into two separate spaces having variable volumes. As the rotor turns, gas flows into the enlarging suction chamber until it is sealed off by the second vane. The enclosed gas is compressed until the outlet valve opens against atmospheric pressure. In the case of gas ballast operation, a hole to the outside is opened, which empties into the sealed suction chamber on the front side.

Rotary vane vacuum pumps are built in single- and two-stage versions. Two-stage pumps achieve lower ultimate pressures than single-stage pumps. Moreover, the effects of the gas ballast on the ultimate pressure are lower, as the ballast gas is only admitted in the second stage.

Production of semiconductors, Vacuum Coating, Research & development, Chemistry/Pharmaceuticals, Metallurgy/Furnaces, Lamps & tubes manufacture, Automotive Industry, Space simulation, Analytical engineering, Environment engineering, Cooling and air-conditioning, Electrical engineering, Mechanical engineering, Medicine technology, Chemistry and research labs, Freeze-drying systems, Backing pump for high vacuum pump systems & Leak detectors.
Design Advantages

1) Excellent ultimate vacuum and pumping speed by high performance new materials.
2) Improved oil anti-suckback system to protect the vacuum system in the event of sudden stop.
3) International standard clamp and flange at inlet and outlet port.
4) Low noise and vibration.
5) Strong and constant pressure based oil circulation system to protect the pump.
6) Convenient gas ballast valve control enabling open and shut-down of gas ballast valve at ease while operational.
7) Simple maintenance and oil replacement without any special tools.

Technical Data

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>UNIT</th>
<th>KRP 6</th>
<th>KRP 12</th>
<th>KRP 24</th>
<th>KRP 36</th>
<th>KMP 58</th>
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<td>60 Hz</td>
<td>m3/h</td>
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<td>12</td>
<td>24</td>
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<tr>
<td>GAS BALLAST C</td>
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| ROTATIONAL SPEED OF PUMP         | R.P.M |       |        |        |        |        |        |        |
| 60 Hz                            |       |       |        |        |        | 1750   |        |        |
| 50 Hz                            |       |       |        |        |        | 1450   |        |        |
| NOISE LEVEL (WITHOUT GAS BALLAST)| dBA  | 50    | 50     | 52     | 52     | 60     | 62     | 65     |
| WEIGHT                           | Kg    | 21    | 22.5   | 38     | 41     | 62     | 65     | 85     |

Pumping Speed Curve

![Graph showing Pumping Speed Curve](image)
SALES CUM SERVICE CENTERS

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