

2BV Series Liquid Ring Vacuum Pump and Compressor

2BV series liquid ring vacuum pumps are suitable for pumping the gases and steam. Its suction pressure can reach 33mbar (abs) (i.e. 97 % vacuum degree). If the transformer oil is used as the operating liquid, these pumps are called oil ring vacuum pump and the suction pressure can reach 6.7mbar (abs) (i.e. 99 % vacuum degree). So the oil ring vacuum pumps can replace the reciprocated vacuum pumps completely.

When the liquid ring vacuum pumps work under the condition near the utmost vacuum for a long time, it is necessary to couple with the cavitation protection pipe in order to get rid of the screaming so as to protect the pump. When the 2BV pumps are used as compressor, it should check the discharge pressure and select suitable motor power because the motor power will be increasing along with the exhausting pressure.

| Curve No. | Model | Max. suction capacity | | Ultimate vacuum mbar(MPa) | Motor power kW | Speed r.p.m | Operating liquid flow rate L/min | Noise dB(A) | Weight kg |
|-----------|----------|-----------------------|------|------------------------------|-------------------|----------------|-------------------------------------|----------------|--------------|
| | | m3/min | m3/h | | | | | | |
| 60V | 2BV2-060 | 0.45 | 27 | 33mbar (-0.097MPa) | 0.81 | 2840 | 2.5 | 62 | 37 |
| 61V | 2BV2-061 | 0.86 | 52 | | 1.45 | 2840 | 2.5 | 65 | 41 |
| 70V | 2BV2-070 | 1.33 | 80 | | 2.35 | 2860 | 3 | 66 | 66 |
| 71V | 2BV2-071 | 1.83 | 110 | | 3.85 | 2880 | 4.7 | 72 | 85 |
| 110V | 2BV5-110 | 2.75 | 165 | | 4 | 1440 | 7.2 | 63 | 120 |
| 111V | 2BV5-111 | 3.83 | 230 | | 5.5 | 1440 | 8.8 | 68 | 150 |
| 121V | 2BV5-121 | 4.66 | 280 | | 7.5 | 1440 | 11 | 69 | 210 |
| 131V | 2BV5-131 | 6.66 | 400 | | 11 | 1460 | 16 | 73 | 280 |
| 161V | 2BV5-161 | 8.33 | 500 | | 15 | 970 | 22 | 74 | 390 |
| 110V | 2BV6-110 | 2.75 | 165 | | 4 | 1440 | 67 | 63 | 150 |
| 111V | 2BV6-111 | 3.83 | 230 | | 5.5 | 1440 | 10 | 68 | 200 |
| 121V | 2BV6-121 | 4.66 | 280 | | 7.5 | 1440 | 12 | 69 | 230 |
| 131V | 2BV6-131 | 6.66 | 400 | | 11 | 1460 | 17 | 73 | 315 |
| 161V | 2BV6-161 | 8.33 | 500 | | 15 | 970 | 23 | 74 | 426 |



Features:

1. The direct connection of the motor and pump with the same shaft saves space and convenient installation
2. Adopting mechanical seal as standard configuration, which can eliminate leakage and make the maintenance convenient.
3. operate steadily and the noise low to 62 dB
4. All the components are processed precisely by the CNC lathe, and the mechanical seal adopts international famous brand such as John Crane or Bergman to ensure the precision.
5. Take NTN or NSK international famous brand bearing.
6. 2BV series liquid ring pump can be combined with ZJ series Roots vacuum pump to make roots and liquid ring vacuum system. The ultimate vacuum can be 5pa. The 2BV liquid ring vacuum pump also can be coupled with separator and heat exchanger to make closed circulation unit, which improved the safety and reliability by one pump working, one pump backup.