

2BV Series Liquid Ring Vacuum Pumps



Introduction:

2BV series liquid ring vacuum pump is suitable for suction gas and vapour ,and the suction pressure can reach 33mbar (abs.)(i.e.97% vacuum degree).When the liquid ring vacuum pump works under the condition that the suction pressure is near the limited vacuum (saturated pressure of the operating liquid)for a long time ,it should couple with the cavitation protection pipe in order to protect the pump .When it's used as a compressor ,the maximum pressure is 0.26mpa (abs).As a new generation of energy-saving product ,2BV series liquid ring vacuum pump will replace the SK and 2SK series liquid ring vacuum pumps and W,WY,WL series reciprocating vacuum pumps completely with their superior performance and advantages . 2BV6 series liquid ring vacuum pumps and compressors are mainly used for pumping the explosive gas or working in the flammable and explosive environment .The technical parameter of each type is the same as the corresponding type of the 2BV2and 2BV5 series products .

Advantages:

The direct-coupled design is easy installation and can save space .
The pump has the cavitation protection port opens (or connects with the separator)in the case of ensure maximum suction effect to eliminate the noise of cavitation and protect the pump
2BV whole series are all use the aluminum bronze impeller with high strength and raise its corrosion resistance and durability .If the liquid flows parts adopt stainless steel ,the pump can work in the more hard condition .

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Application:

Pulp & paper industry : black liquid evaporation,vacuum dehydrator,degassing system of raw materials and white water, suction tank,couch roll, absorption-shift roll and transmission roll, Anti-wind box.

Chemical industry: methane gas recovery,petroleum recycle, gas collection, exhaust compression, vapor collection, filtration and deceration, polyester Production, PVC Production.

Power plant: condenser exhausting,water box priming,flue gas desulfurization, fly ash conveying,geothermal gas removal,Vacuum Pressure impregnation for transformers. Sugar industry: Sewage filtering, CO2 production etc .

Technical Specification:

| Model | Max.Suction capacity m ³ /h | Inlet &outlet | Feed water inlet | Motor power kw 50Hz | Motor explosion-proof grade | Pump speed r.p.m | Operating liquid flow rate L/min | Noise dB(A) | Weight kg |
|----------|--|---------------|------------------|---------------------|------------------------------|-----------------------------|----------------------------------|----------------------------------|-------------|
| 2BV2-060 | 27 | G1" | G3/8" | Y90S-2-0.81 | Non-explosionp roof | 2840 | 2.5 | 62 | 31 |
| 2BV2-061 | 52 | G1" | G3/8" | Y90S-2-1.45 | | 2840 | 2.5 | 65 | 36 |
| 2BV2-070 | 80 | G1.5" | G3/8" | Y100L-2-2.35 | | 2860 | 3 | 66 | 56 |
| 2BV2-071 | 110 | G1.5" | G3/8" | Y112M-2-3.85 | | 2880 | 4.7 | 72 | 60 |
| 2BV5-110 | 165 | DN50 | G1/2" | Y112-4-4KW | | 1440 | 7.2 | 63 | 105 |
| 2BV5-111 | 230 | DN50 | G1/2" | Y132-4-5.5KW | | 1440 | 8.8 | 68 | 126 |
| 2BV5-121 | 280 | DN65 | G3/4" | Y132-4-7.5KW | | 1440 | 11 | 69 | 149 |
| 2BV5-131 | 400 | DN65 | G3/4" | Y160-4-11KW | | 1460 | 16 | 73 | 195 |
| 2BV5-161 | 500 | DN80 | G3/4" | Y180-6-15KW | | 970 | 22 | 74 | 320 |
| Model | Max.Suction capacity m ³ /h | Inlet &outlet | Feed water inlet | Motor power kw 50Hz | | Motor explosion-proof grade | Pump speed r.p.m | Operating liquid flow rate L/min | Noise dB(A) |
| 2BV6-060 | 27 | G1" | G3/8" | YB80-2-1.1KW | Explosionproof DIIBT4/DIICT4 | 2840 | 2.5 | 62 | 37 |
| 2BV6-061 | 52 | G1" | G3/8" | YB90-2-1.5KW | | 2840 | 2.5 | 65 | 41 |
| 2BV6-070 | 80 | G1.5" | G3/8" | YB100-2-3KW | | 2860 | 3 | 66 | 66 |
| 2BV6-071 | 110 | G1.5" | G3/8" | YB112-2-4KW | | 2880 | 4.7 | 72 | 75 |
| 2BV6-110 | 165 | DN50 | G1/2" | YB112-4-4KW | | 1440 | 6.7 | 63 | 150 |
| 2BV6-111 | 230 | DN50 | G1/2" | YB132-4-5.5KW | | 1440 | 10 | 68 | 200 |
| 2BV6-121 | 280 | DN65 | G3/4" | YB132-4-7.5KW | | 1440 | 12 | 69 | 230 |
| 2BV6-131 | 400 | DN65 | G3/4" | YB160-4-11KW | | 1460 | 17 | 73 | 280 |
| 2BV6-161 | 500 | DN80 | G3/4" | YB180-6-15KW | | 970 | 23 | 74 | 400 |