CoreVac
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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 2BV2 and 2BV5 series products.

Advantages:

1. The direct-coupled design is easy installation and can save space
2. 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.
3. 2BV whole series are all use the stainless-steel 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 m3/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"	2P-0.81kW	Non-explosion proof	2840	2.5	62	31
2BV2-061	52	G1"	G3/8"	2P-2.3kW		2840	2.5	65	36
2BV2-070	80	G1.5"	G3/8"	2P-2.35kW		2860	3	66	56
2BV2-071	110	G1.5"	G3/8"	2P-3.85kW		2880	4.7	72	60
2BV5-110	165	DN50	G1/2"	4P-4kW		1440	7.2	63	105
2BV5-111	230	DN50	G1/2"	4P-5.5kW		1440	8.8	68	126
2BV5-121	280	DN65	G3/4"	4P-7.5kW		1440	11	69	149
2BV5-131	400	DN65	G3/4"	4P-11kW		1460	16	73	195
2BV5-161	500	DN80	G3/4"	6P-15kW		970	22	74	320

Model	Max. Suction capacity m3/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
2BV6-060	27	G1"	G3/8"	2P-1.1kW	Explosionproof DIIBT4/DIICT4	2840	2.5	62	37
2BV6-061	52	G1"	G3/8"	2P-1.5kW		2840	2.5	65	41
2BV6-070	80	G1.5"	G3/8"	2P-3kW		2860	3	66	66
2BV6-071	110	G1.5"	G3/8"	2P-4kW		2880	4.7	72	75
2BV6-110	165	DN50	G1/2"	4P-4kW		1440	6.7	63	150
2BV6-111	230	DN50	G1/2"	4P-5.5kW		1440	10	68	200
2BV6-121	280	DN65	G3/4"	4P-7.5kW		1440	12	69	230
2BV6-131	400	DN65	G3/4"	4P-11kW		1460	17	73	280
2BV6-161	500	DN80	G3/4"	6P-15kW		970	23	74	400