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Catalog 2BV series water ring vacuum pumps

2BV series water ring vacuum pumps

2BV serious can be used to pumping air and steam. The suction absolute pressure can reach 33mbar (vacuum degree 97%). When the vacuum pump always works in the condition that the gas pressure is below 80mbar, cavitation protection tube is supposed to be linked. If air ejector is equipped, the suction pressure can reach 10mbar. The ejector can be Installed directly on the pump. Worked as a compressor, 2BVA's highest pressure can reach 0.26Mpa (absolute pressure).

Water ring vacuum pumps and compressors are widely used in petrochemical engineering, medicine, food, sugar industry and other areas. In the gas compression processes, the temperature is constent, so this serious, which should be used more widely, can be more safe when pumping explosion hazard gases.

Usage and characteristics

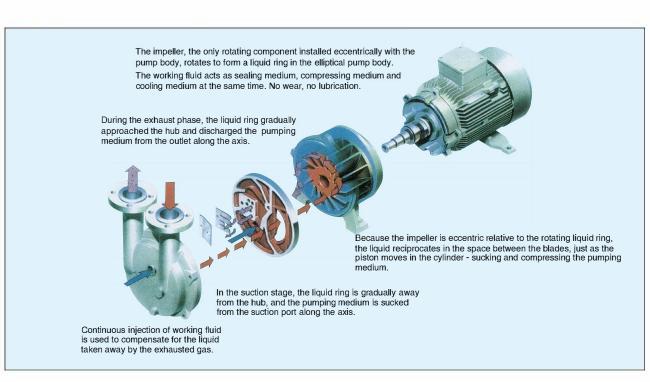
With coaxial direct design, pumps become space-saving and easy to install.

Using mechanical seal as normal technology, avoiding revealing, it is easy to repair and reliable when operating, with noise below 62DB. With corrosion resistance to uniform design, bronze impellers and stainless steel material, pumps are resistant to corrosion.

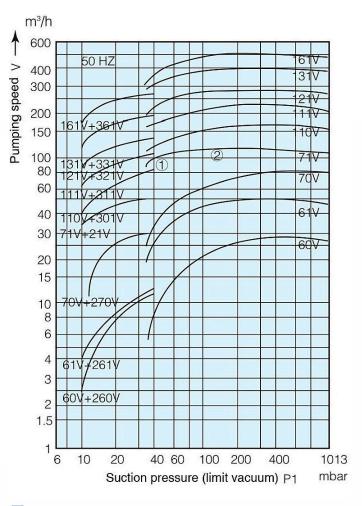
With special flexibility exhaust port desigh, avoiding overcompression, 2BVA can reach the best efficiency in the performance range.



Decomposition structure diagram



Performance curve



Example of selection

- Design parameter points
 Inspiratory capacity: V=100m³/h
 Inhalation pressure plus P1 = 40mbar.
- The remaining parameters are in the same standard state (see note) Selection and design of the nearest curve at point 1.
- This example is 71V.
 According to the curve number, the corresponding product type (i.e. order number,but only standard type) can be found. For example, the pump type which can be checked from the curve chart is 2BV-2071.

Note: The performance curve is obtained under the condition of saturated air with 20 \circlearrowright inhalation medium,15 \circlearrowright working fluid temperature and 1013 mbar exhaust pressure. Performance allowed 10% of the difference. On the left side of the figure is the performance curve of the air ejector.

2BV Series Main Technical Parameters

Curve num	Model	Power (kw)	Pumping speed		Limit vacuum		Speed	Fluid-flow	Noise	Weight
			m³/min	m³/h	Pa	-Mpa	(r.p.m)	(L/min)	dB(A)	(kg)
60 V	2B V 2060	0.81	0.45	27	3300	0.098	2880	2	62	35
61 V	2BV2061	1.45	0.86	52	3300	0.098	2880	2	65	37
70 V	2B V 2070	2.35	1.33	80	3300	0.098	2850	2.5	66	56
71 V	2BV2071	3.85	1.83	110	3300	0.098	2860	4.2	72	65
110 V	2B V 5110	4	2.75	165	3300	0.098	1450	6.7	63	106
111V	2B V 5111	5.5	3.83	230	3300	0.098	1450	8.3	68	125
121 V	2BV5121	7.5	4.66	280	3300	0.098	1450	10	69	150
131 V	2BV5131	11	6.66	400	3300	0.098	1450	15	73	195
161V	2B V 5161	15	8.33	500	3300	0.098	970	20	74	330
110V	2B V 6110	4	2.75	165	3300	0.098	1450	6.7	63	167
111V	2BV6111	5.5	3.83	230	3300	0.098	1450	8.3	68	207
121 V	2BV6121	7.5	4.66	280	3300	0.098	1450	10	69	268
131 V	2B V 6131	11	6.66	400	3300	0.098	1450	15	73	324
161 V	2B V 6161	15	8.33	500	3300	0.098	970	20	74	460

^{1.}The data is listed in the table in the condition that air temperature of 20°C, the water temperature of 15°C, exhaust pressure 1013 hpa, suction medium for saturated air.

^{2.2}BV6 Series is Explosion-proof Products