

2BV SERIES

WATER RING VACUUM PUMP

water circulation

water cooling

DAVE Make



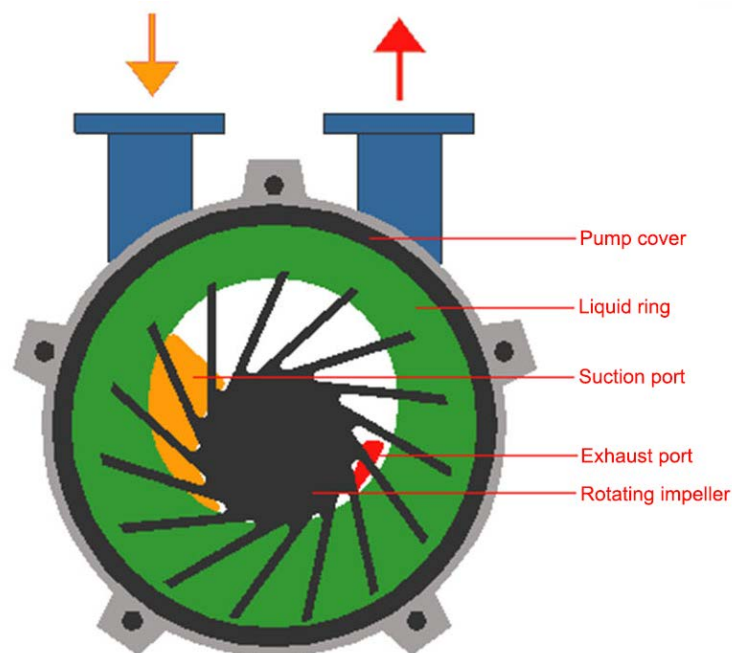
Product Introduction



2BV series vacuum pump is suitable for extracting gases and water vapor, with a suction pressure of up to 33mbar absolute pressure (97% vacuum degree). When the vacuum pump operates for a long time with a suction pressure below 80mbar, a cavitation protection tube should be connected to protect the pump. If equipped with an atmospheric injector, the suction pressure can reach 10mbar, and the injector can be directly installed on the vacuum pump. When used as a compressor, its maximum pressure is 0.26MPa (absolute pressure)

Performance characteristics

1. The coaxial direct connection design of the pump saves space and is easy to install.
2. Using mechanical seals as standard configuration eliminates leaks and makes maintenance easy
3. Smooth operation, with noise levels as low as 62 decibels.
4. The unified corrosion-resistant design, bronze impeller improves the corrosion resistance of the pump, and stainless steel material is more suitable for more demanding applications.
5. Unique flexible exhaust port design ensures optimal efficiency of 2BV within its performance range without excessive compression



2 | 2BV series water ring vacuum pump

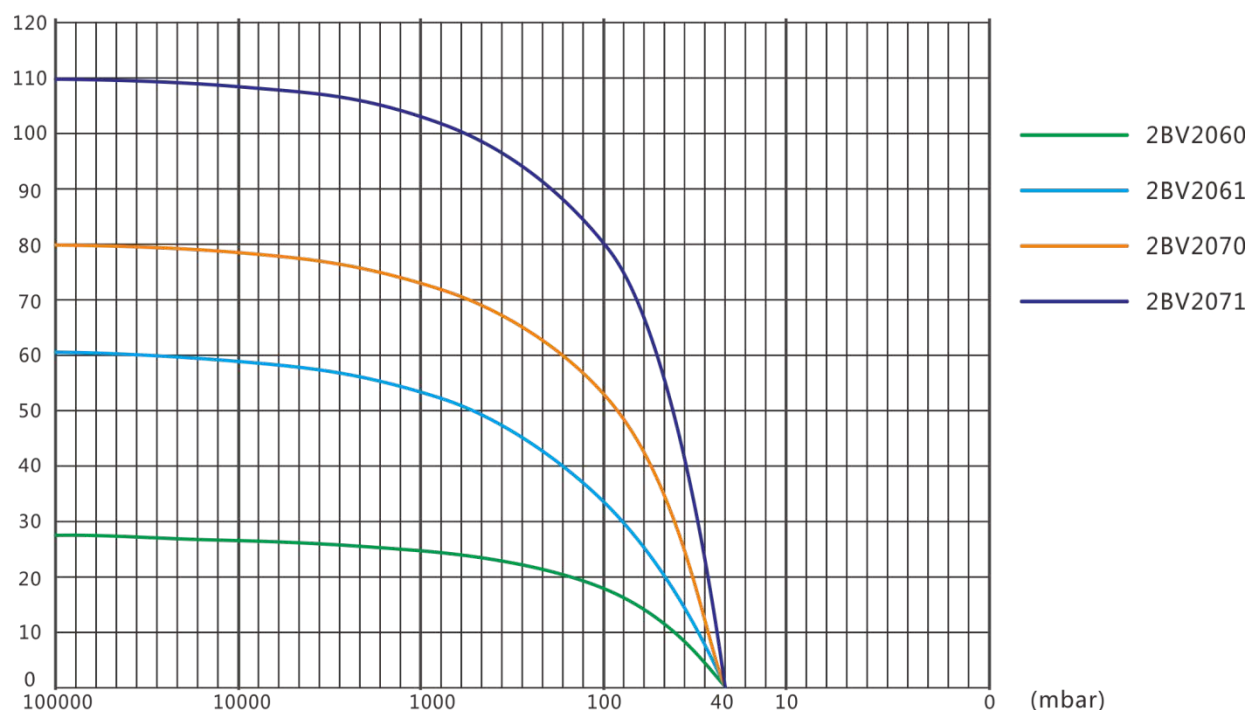
Parameter Table -I

Model	Unit	2BV2060	2BV2061	2BV2070	2BV2071
Pumping speed	m ³ /h	27	61	80	110
	L/s	7.5	16.9	22.2	30.5
Vacuum absolute	kPa	3.3	3.3	3.3	3.3
	mbar	33	33	33	33
	Torr	24.7	24.7	24.7	24.7
Motor power	kW	0.81	1.45	2.35	3.85
Rated voltage	V	Δ 200-230	Δ 200-230	Δ 200-230	Δ 200-230
		Y 380-415	Y 380-415	Y 380-415	Y 380-415
Rated speed	rpm	2880	2880	2850	2860
Noise level	dB(A)	62	65	66	72
Circulation water	L/min	2.0	2.0	2.5	4.2
Inlet/outlet flange	/	G1"	G1"	G1 1/2"	G1 1/2"
Cooling method	/	Water cooling	Water cooling	Water cooling	Water cooling
Weight	kg	37	41	66	85
External dimensions	mm	455x186x195	476x186x195	545x223x222	566x223x234

Note: You can choose explosion-proof motor, stainless steel impeller and stainless steel pump body according to your needs.

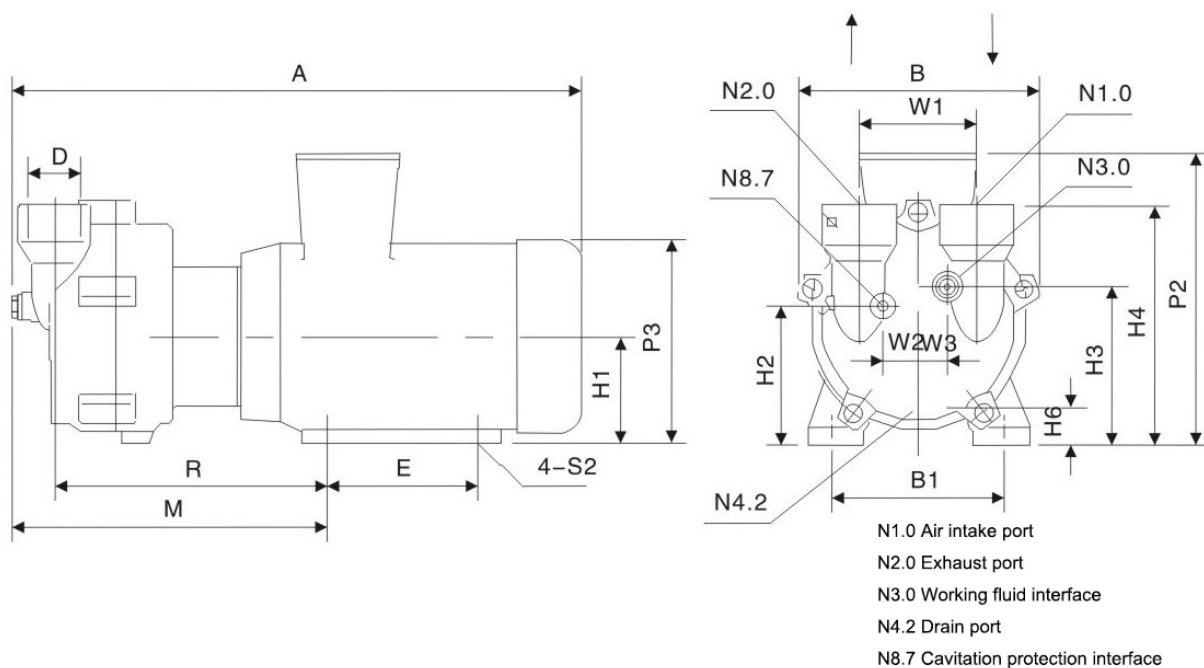
Pumping speed curve: 2BV2060 2BV2061 2BV2070 2BV2071

SUCTION AIR RATE [m³/h]



3 | 2BV series water ring vacuum pump

Dimensions : 2BV2060 2BV2061 2BV2070 2BV2071



(Length Unit: mm)

Model	2BV2060	2BV2061	2BV2070	2BV2071
A	455	476	545	566
B	186	186	223	223
B1	140	140	160	190
E	100	100	140	140
H1	90	90	100	112
H2	118	118	128	140
H3	126	126	146	158
H4	195	195	222	234
H6	37.5	37.5	33	45
M	244	263	280	309
P2	250	250	270	300
P3	180	180	203	225
R	217	236	252	278
S2	φ10	φ10	φ12	φ12
W1	110	110	110	110
W2	25.5	25.5	33	33
W3	21	21	27	27
d	G1"	G1"	G1 1/2"	G1 1/2"
N3.0	G3/8"	G3/8"	G3/8"	G3/8"
N4.2	G1/4"	G1/4"	G1/4"	G1/4"
N8.7	G3/8"	G3/8"	G3/8"	G3/8"

4 | 2BV series water ring vacuum pump

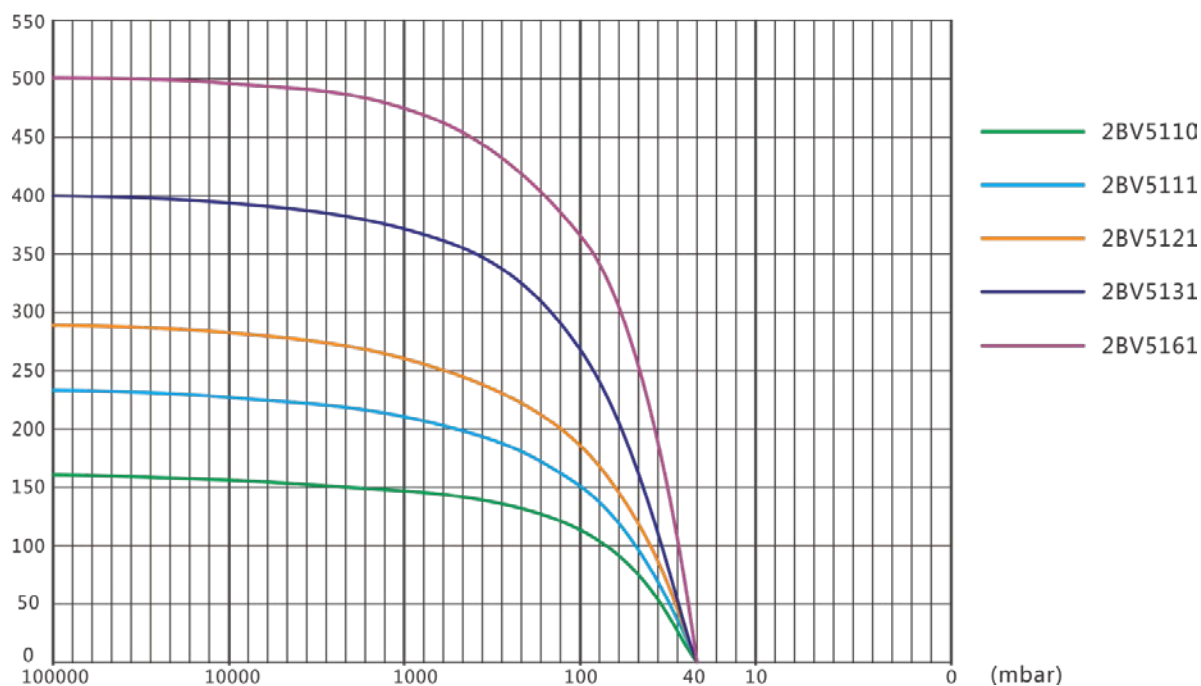
Parameter Table -2

Model	Unit	2BV5110	2BV5111	2BV5121	2BV5131	2BV5161
Pumping speed	m³/h	165	230	280	400	500
	L/s	45.8	63.8	77.7	111.1	138.8
Vacuum absolute	kPa	3.3	3.3	3.3	3.3	3.3
	mbar	33	33	33	33	33
	Torr	24.7	24.7	24.7	24.7	24.7
Motor power	kW	4.00	5.50	7.50	11.00	15.00
Rated voltage	V	Δ 200-230	Δ 200-230	Δ 200-230	Δ 200-230	Δ 200-230
		Y 380-415	Y 380-415	Y 380-415	Y 380-415	Y 380-415
Rated speed	rpm	1450	1450	1450	1430	970
Noise level	dB(A)	63	68	69	73	74
Circulation water	L/min	6.7	8.3	10.0	15.0	20.0
Inlet/outlet flange	/	DN50	DN50	DN65	DN65	DN80
Cooling method	/	Water cooling	Water cooling	Water cooling	Water cooling	Water cooling
Weight	kg	120	150	210	280	390
External dimensions	mm	637x325x361	679x325x371	771x347x385	852x377x427	1044x479x521

Note: You can choose explosion-proof motor, stainless steel impeller and stainless steel pump body according to your needs.

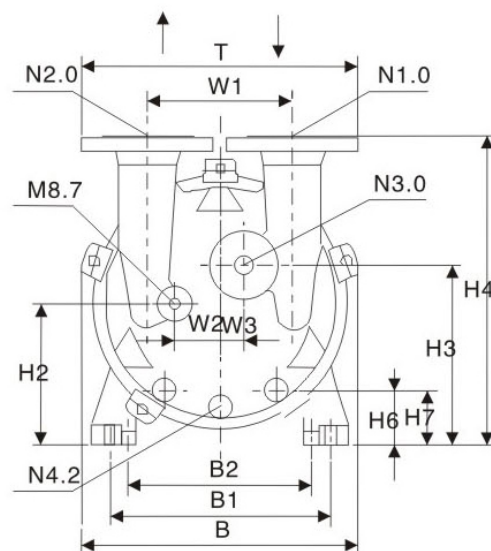
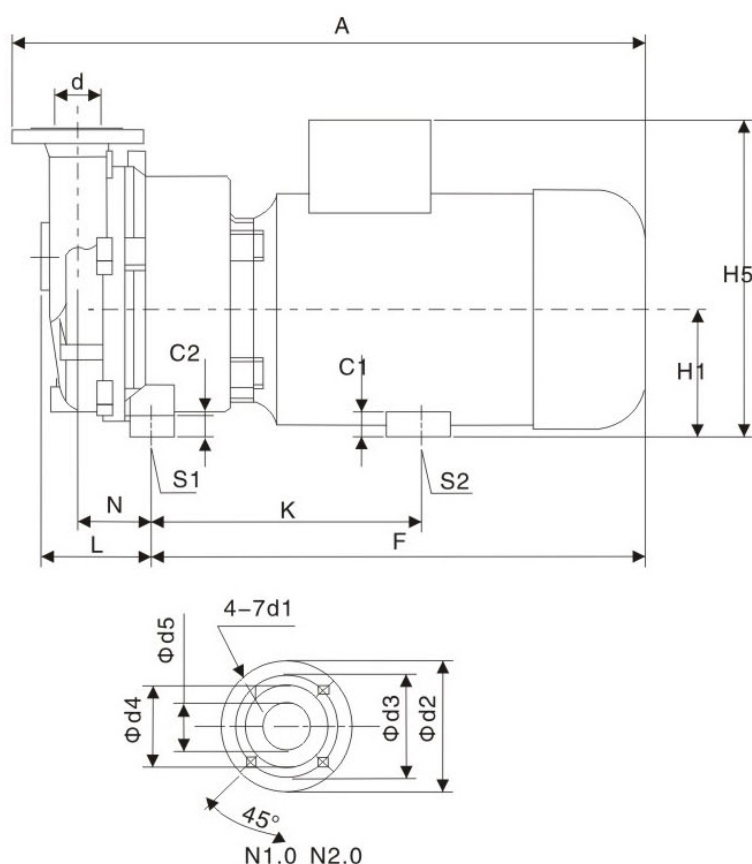
Pumping speed curve: 2BV5110 2BV5111 2BV5121 2BV5131 2BV516

SUCTION AIR RATE [m³/h]



5 | 2BV series water ring vacuum pump

Dimensions: **2BV5110** **2BV5111** **2BV5121** **2BV5131** **2BV5161**



N1.0 Air intake port
N2.0 Exhaust port
N3.0 Working fluid interface
N4.2 Drain port
N8.7 Cavitation protection interface

1-1(Length Unit: mm)

Model	2BV5110	2BV5111	2BV5121	2BV5131	2BV5161
A	637	679	771	852	1044
B	325	325	347	377	479
B1	255	265	265	300	370
B2	190	216	216	254	279
C1	41	36	36	35	30
C2	26	26	26	30	30
H1	140	150	150	175	210
H2	156	166	167	194	225
H3	202	212	217	249	303
H4	361	371	385	427	521
H5	328	363	363	435	485
H6	38	48	39	53	51
H7	57	68	60	76	80
K	342	348	430	477.5	555

1-2(Length Unit: mm)

Model	2BV5110	2BV5111	2BV5121	2BV5131	2BV5161
L	130	130	147	147	201
F	464	500	584	658.5	808
N	92	92	97	103	138
S1	φ12	φ12	φ12	φ15	φ15
S2	φ12	φ12	φ12	φ15	φ15
T	340	340	381.5	381.5	450
d1	19	19	19	19	20
d2	160	160	182	182	200
d3	123	123	142	142	156
d4	97	97	113	113	130
d5	52	52	66.5	66.5	80
w1	180	180	200	200	250
w2	52	52	57	57	81
w3	27	27	29	29	41
d	DN50	DN50	DN65	DN65	DN80
N3.0	G3/4"	G3/4"	G3/4"	G3/4"	G3/4"
N4.2	G3/8"	G3/8"	G3/8"	G3/8"	G3/8"
N8.7	G3/8"	G3/8"	G3/8"	G3/8"	G3/8"

- Service

Sales and Service Network