

# 2BV SERIES LIQUID RING VACUUM PUMPS



2BV2 Series



2BV5 Series



Explosion-proof 2BV Series

The 2BV series water ring vacuum pump is suitable for extracting gas and water vapor, and the suction pressure can reach 33mbar absolute pressure (97% vacuum). When using transformer oil as the working fluid (referred to as oil ring) Vacuum pump, suction pressure can reach 6.7mbar absolute pressure (99.3% vacuum degree), can completely replace reciprocating vacuum pumps. When the vacuum pump operates for a long time at a suction pressure close to the limit vacuum, a cavitation protection pipe should be connected to protect the pump. When used as a compressor, its maximum pressure is up to 0.26MPa (absolute pressure). As a new generation energy-saving product, the 2BV series water ring vacuum pump Excellent performance and numerous advantages will comprehensively replace SK, 2SK,W, WY, WL Series water ring vacuum pump, reciprocating vacuum pump.

The 2BV6 water ring vacuum pump/compressor is mainly used for extracting explosive gases and in various applications working in flammable and explosive environments. Working flammable and explosive environments.

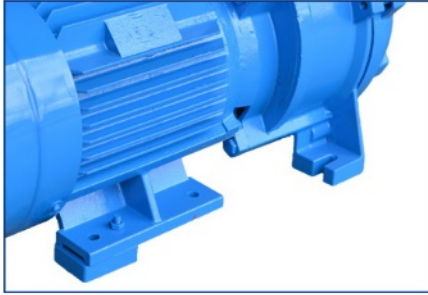
## Product Description

### 2BV series Vacuum Pump

Direct link  
Explosion-proof motor

Strong Explosion-proof  
BT4 motor

## Product Details



### Metal Base

Prevent secondary pollution, not easy to deform, strong and reliable.

### Heat Sink

The good heat dissipation makes longer lifespan and more durable



### Customized Service

Cast Iron or Stainless steel 304/316  
Suitable for different needs, stainless steel is more resistant to corrosion

### High quality cast iron

2BV series water ring vacuum pump  
Suitable for extraction of gas and suction of moist steam  
Up to 33Mbar absolute pressure (97% vacuum)



### Flexible Outlet design

The function of the flexible valve disc is to discharge the gas before the exhaust port when the gas between the impeller blades reaches the exhaust pressure

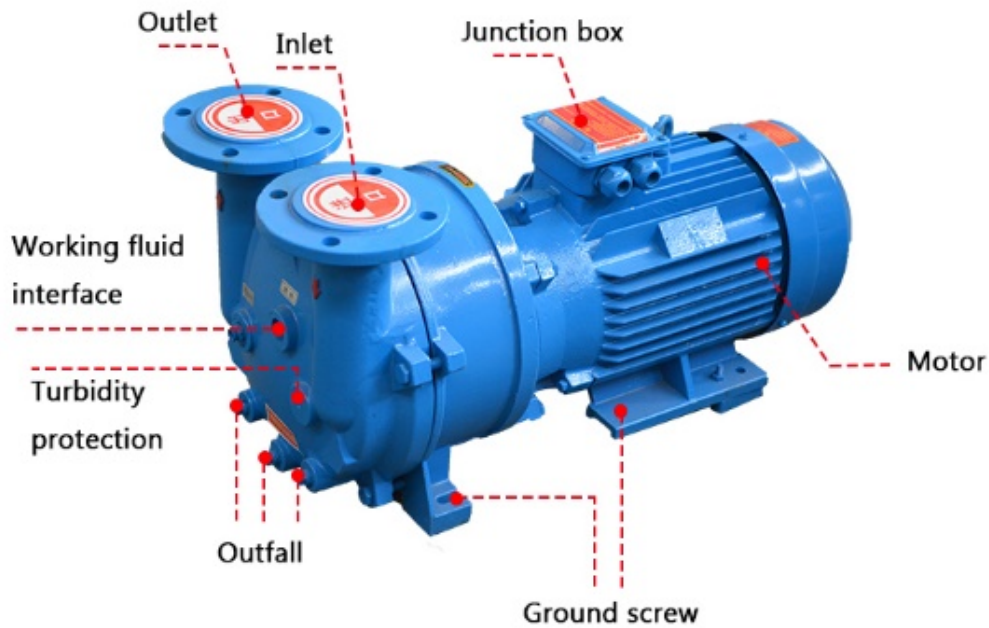
### Machine pump coaxial direct link design

Space saving, low noise and easy maintenance



## Technical Parameters

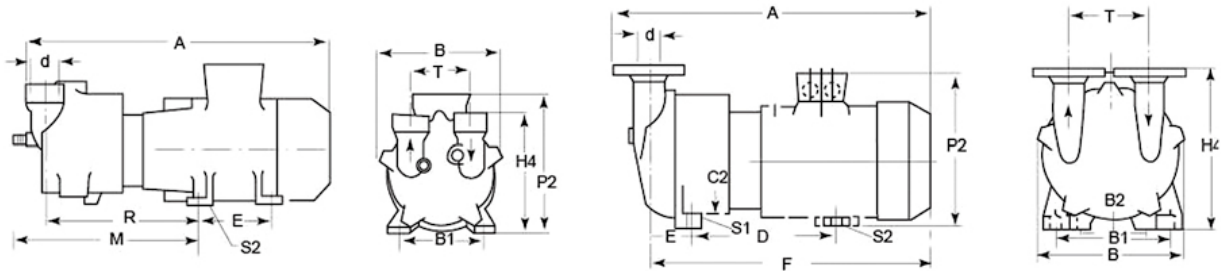
Model	Capacity m <sup>3</sup> /min	Ultimate vacuum -Mpa	Power kw	Rotate speed r.p.m	Working fluid flow L/min	Noise dB ( A )	Weight kg
2BV2060	0.45	0.097	0.81	2880	2	62	32
2BV2061	0.86	0.097	1.45	2880	2	65	33
2BV2070	1.33	0.097	2.35	2880	2.5	66	50
2BV2071	1.83	0.097	3.85	2880	4.2	72	62
2BV5110	2.75	0.097	4	1450	6.7	63	94
2BV5111	3.73	0.097	5.5	1450	8.3	68	110
2BV5121	4.66	0.097	7.5	1450	10	69	136
2BV5131	6.66	0.097	11	1450	15	73	184
2BV5161	8.33	0.097	15	970	20	74	296



**3 Factories | 100% Test**  
 GLS & FPB Pump | Since 1987



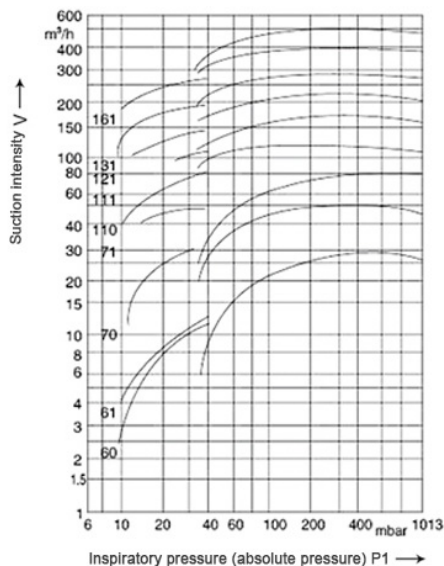
# Dimensions



MODEL	A	B	B1	R	T	H4	P2	M	E	S2	d/DIN
2BV2 060	455	186	140	217	110	195	250	244	100	φ10	G1"
2BV2 061	476	186	140	236	110	195	250	283	100	φ10	G1"
2BV2 070	545	223	160	252	110	222	270	280	100	φ12	G1 1/2"
2BV2 071	566	223	190	278	110	234	300	309	100	φ12	G1 1/2"

MODEL	A	B	B1	B2	D	T	E	F	H4	P2	S1	S2	d/DIN
2BV5 110	637	325	255	190	342	180	92	556	361	328	12×23-	φ12	DN50
2BV5 111	679	325	265	216	348	180	92	592	371	363	12×23-	φ12	DN50
2BV5 121	771	347	265	216	430	200	97	681	385	363	12×23-	φ12	DN65
2BV5 131	852	377	300	254	477.5	200	103	761.5	427	435	15×25-	φ15	DN65
2BV5 161	1044	479	370	370	625	250	138	946	521	485	15×27-	φ15	DN80

# Characteristic Curve



## Performance curve (selection example)

① Design point parameters: suction volume  $V=100\text{m}^3/\text{h}$ , suction pressure  $P=40\text{mbar}$ .

② Other parameters are the same as the standard state (see note)

Select the curve closest to the design point ①

③ In this example, it is 71V

Find the corresponding product model (and order number, but only for standard models) based on the curve number

The pump type that can be checked from 71V in this example is 2BV2071

Note: This performance curve is for saturated air with a suction medium of 20 °C and a working fluid temperature of

**2BV Series Liquid Ring Vacuum Pump with Water Tank**



**Explosion-proof 2bv Series Industrial Water Ring Vacuum Pump**



**304/316L Stainless Steel/Cast Iron Pump  
Casings/ Round Plate**



**304/316L Stainless Steel/Copper/Cast Iron  
Impeller**

