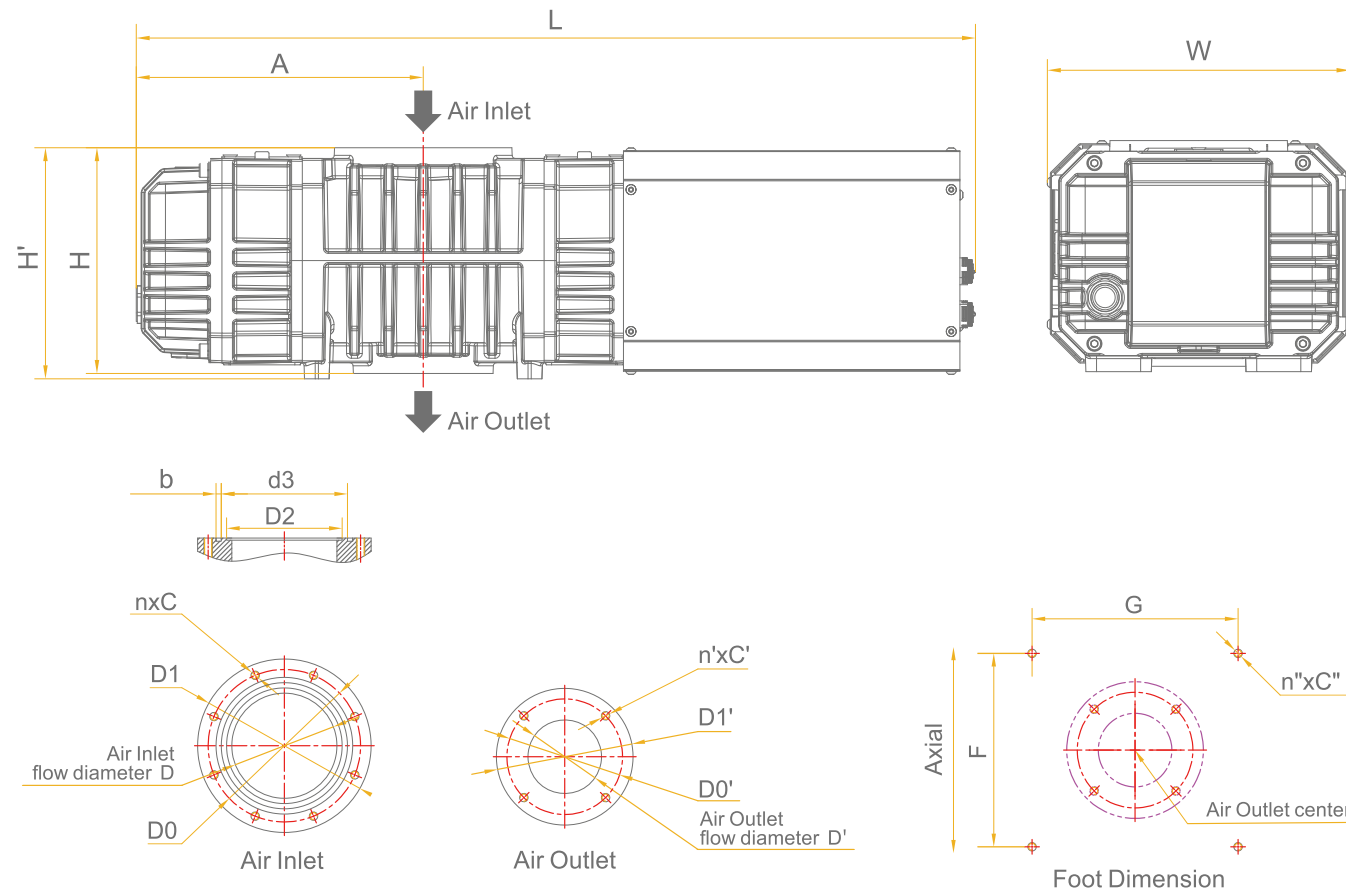


**Installation specification**



**Dimension**

Model	L	W	H	H'	A	D	D0	D1	n	C
VBP100	493	212	160	160	164	50	100	116	4	M8
VBP300S	598	212	160	165	214	83	125	145	8	M8
VBP300	681	283.5	210	215	232	83	125	145	8	M8
VBP600	781	283.5	210	215	267	100	145	165	8	M8
VBP1200	962	384.5	268	276	342.5	150	200	225	8	M10
VBP1800	1058	384.5	268	276	372	150	200	225	8	M10
VBP2400Si	1058	384.5	268	276	372	150	200	225	8	M10

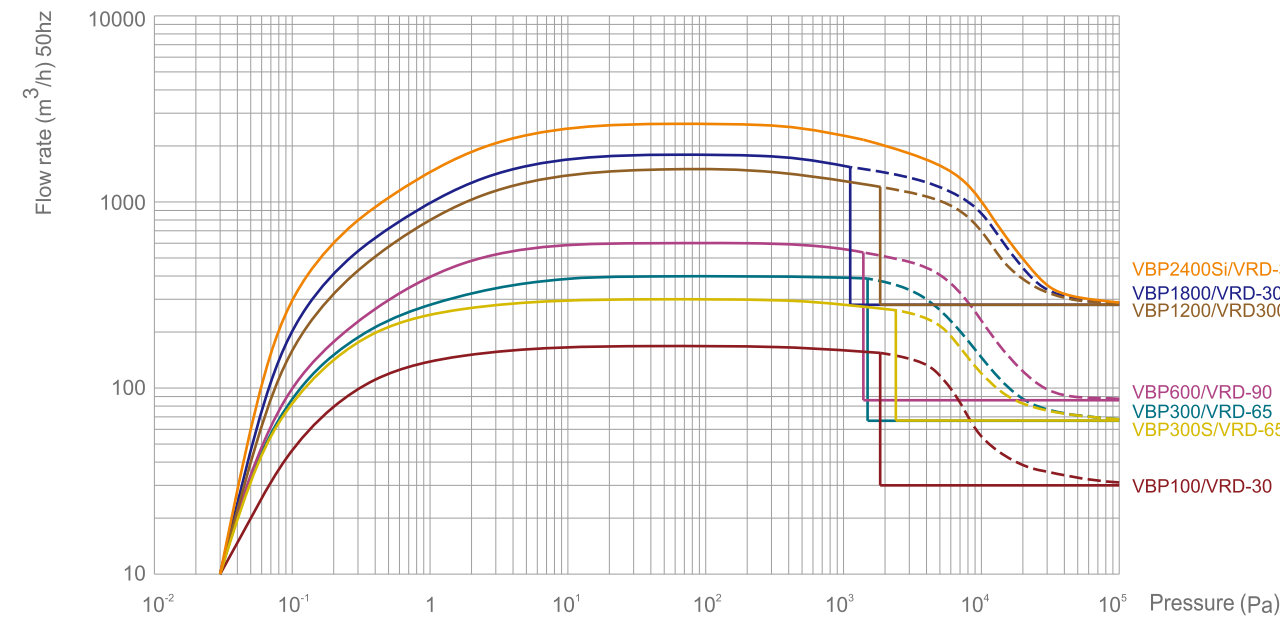
Model	d3	b	D2	D'	D0'	D1'	n'	C'	F	G
VBP100	70	5	64	50	100	/	4	M8	82	118
VBP300S	/	/	90	83	125	145	8	M8	184	132
VBP300	/	/	90	70	110	130	4	M8	126	184
VBP600	/	/	110	70	110	130	4	M8	196	184
VBP1200	/	/	160	100	145	165	8	M8	255	250
VBP1800	/	/	160	100	145	165	8	M8	315	250
VBP2400Si	/	/	160	100	145	165	8	M8	315	250

**Technical Parameters**

Item		VBP100	VBP300S	VBP300	VBP600	VBP1200	VBP1800	VBP2400Si	
Pumping speed	50Hz	m <sup>3</sup> /h	160	300	400	600	1500	1800	2600 (70Hz)
		L/min	2667	5000	6667	10000	25000	30000	43333 (70Hz)
	60Hz	CFM	94	177	235	353	882	1060	1530 (70Hz)
		m <sup>3</sup> /h	190	360	480	720	1800	2160	2600 (70Hz)
		L/min	3167	6000	8000	12000	30000	36000	43333 (70Hz)
		CFM	112	212	283	424	1059	1272	1530 (70Hz)
Ultimate pressure	Pa	3.0x10 <sup>-2</sup>	3.0x10 <sup>-2</sup>	3.0x10 <sup>-2</sup>	3.0x10 <sup>-2</sup>	3.0x10 <sup>-2</sup>	3.0x10 <sup>-2</sup>	3.0x10 <sup>-2</sup>	
	Torr	2.2x10 <sup>-4</sup>	2.2x10 <sup>-4</sup>	2.2x10 <sup>-4</sup>	2.2x10 <sup>-4</sup>	2.2x10 <sup>-4</sup>	2.2x10 <sup>-4</sup>	2.2x10 <sup>-4</sup>	
	mbar	3.0x10 <sup>-4</sup>	3.0x10 <sup>-4</sup>	3.0x10 <sup>-4</sup>	3.0x10 <sup>-4</sup>	3.0x10 <sup>-4</sup>	3.0x10 <sup>-4</sup>	3.0x10 <sup>-4</sup>	
Max. allowed differential pressure	50Hz	Pa	8.0x10 <sup>3</sup>	8.0x10 <sup>3</sup>	8.0x10 <sup>3</sup>	8.0x10 <sup>3</sup>	8.0x10 <sup>3</sup>	6.0x10 <sup>3</sup>	4.3x10 <sup>3</sup> (70Hz)
	60Hz	Pa	6.6x10 <sup>3</sup>	6.6x10 <sup>3</sup>	6.6x10 <sup>3</sup>	6.6x10 <sup>3</sup>	6.6x10 <sup>3</sup>	5.0x10 <sup>3</sup>	4.3x10 <sup>3</sup> (70Hz)
Backing pump <sup>(recommended)</sup> power supply		VRD-30/48	VRD-65/90	VRD-65/90	VRD-90/VSV-100	VRD-300/VSV-300	VRD-300/VSV-300	VRD-300/VSV-300	
		Three-PH	Three-PH	Three-PH	Three-PH	Three-PH	Three-PH	Three-PH	
Rated power	kW	0.37	0.37	1.1	1.5	3	4	4	
Cooling mode		Air cooling	Air cooling	Air cooling (Customizable water cooling)	Air cooling (Customizable water cooling)	Air cooling (Customizable water cooling)	Air cooling (Customizable water cooling)	Air cooling (Customizable water cooling)	
Intake & Exhaust	mm	VG50/VD50	DN80/DN80	DN80/DN63	DN100/DN63	DN160/DN100	DN160/DN100	DN160/DN100	
Rated speed	rpm	2880	2880	2880	2880	2880	2880	4032 (70Hz)	
Operating temperature	°C	5 ~ 40	5 ~ 40	5 ~ 40	5 ~ 40	5 ~ 40	5 ~ 40	5 ~ 40	
Noise level	dB(A)	≤62	≤62	≤63	≤63	≤65	≤65	≤65	
Weight	kg	23	27	88	99	213	230	235	
Dimensions(L*W*H)	mm	493x212x160	598x212x165	681x284x215	781x284x215	962x385x276	1059x385x279	1059x385x279	

\*For the actual operating voltage, please confirm with our company's sales department or local dealers.

**The curve graph of pumping rate**



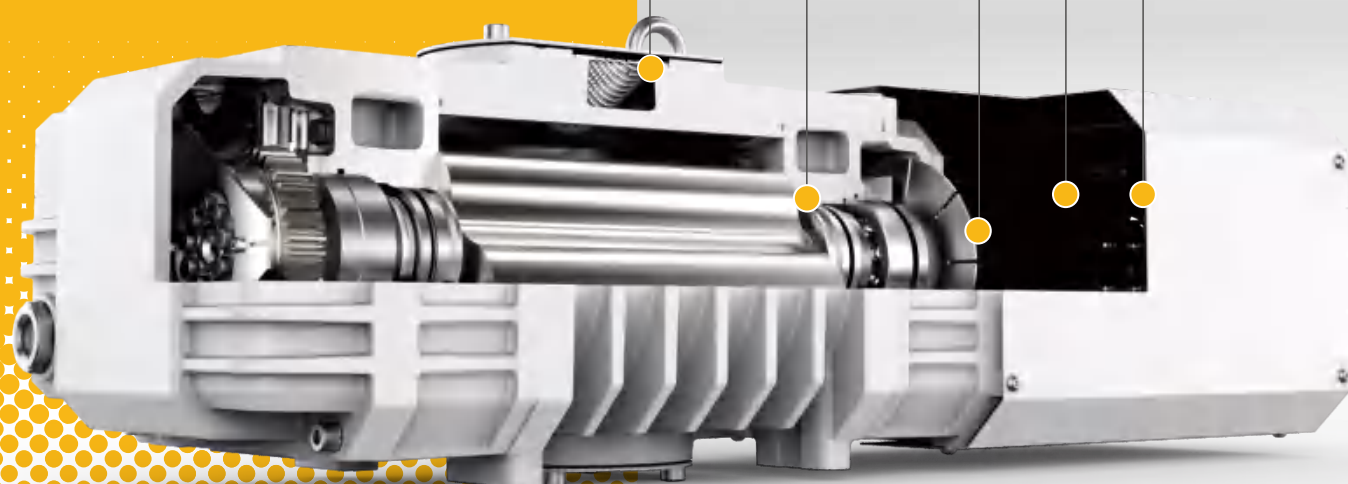
**VBP** Series Roots Pump  
 Energy Efficient · Intelligent · Reliable



- High pumping speed
- High vacuum
- Low energy consumption
- High reliability



Featuring a coaxial integrated design, a lightweight rotor structure, and a high-precision transmission system, this pump significantly improves pumping speed, achieves higher vacuum levels, and enhances reliability. These advancements ensure consistently excellent performance across various applications.



**Outstanding Performance**

Low leakage rate, fast pumping speed, and high vacuum level.

**Sealed Potting Technology**

Fully sealed motor structure, compact, and highly efficient with reliable performance.

**High Energy Efficiency**

IE4 high-efficiency energy-saving cantilever motor with low power consumption and minimal heat generation.

**Precision Transmission Technology**

Coaxial integrated design featuring a high-precision transmission system with zero leakage and no shaft seals.

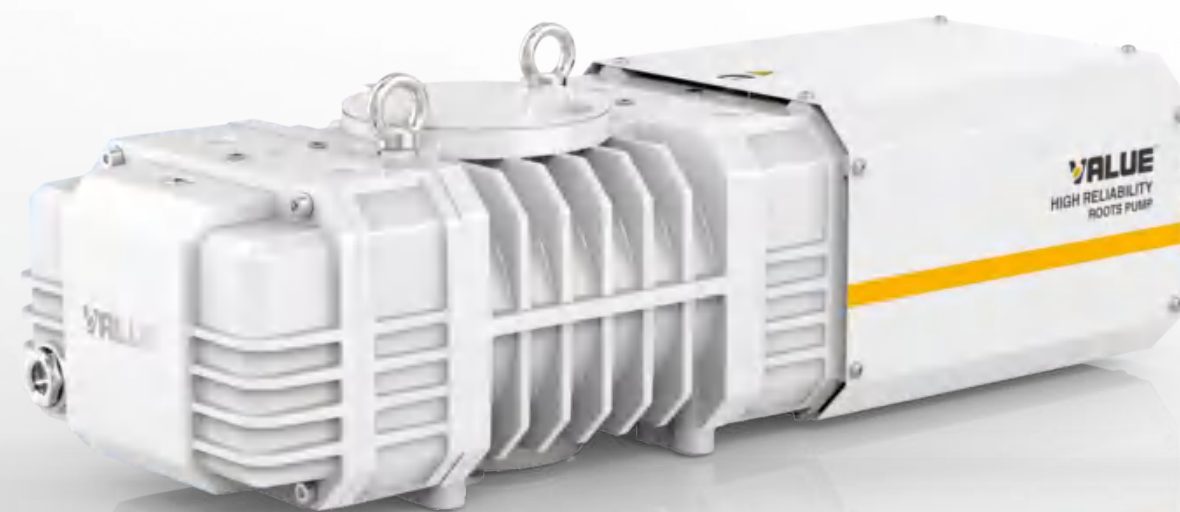
**Intelligent Control**

Optional built-in frequency converter adaptable to different working conditions.

**VBP300/600/1200/1800/2400Si**  
**Roots pump**

Designed for faster pumping speed, higher vacuum levels, stronger and more reliable performance, and lower energy consumption. Features a motor-pump rotor coaxial integrated design (cantilever motor) and a lightweight rotor structure for higher energy efficiency and stability. Delivers oil-free, high-quality performance through a high-precision transmission system and a sealed motor design.

- Sealed potting technology ensures reliable performance.
- The coaxial integrated design minimizes leakage.
- Non-contact operation eliminates friction.



Plasma Cleaning

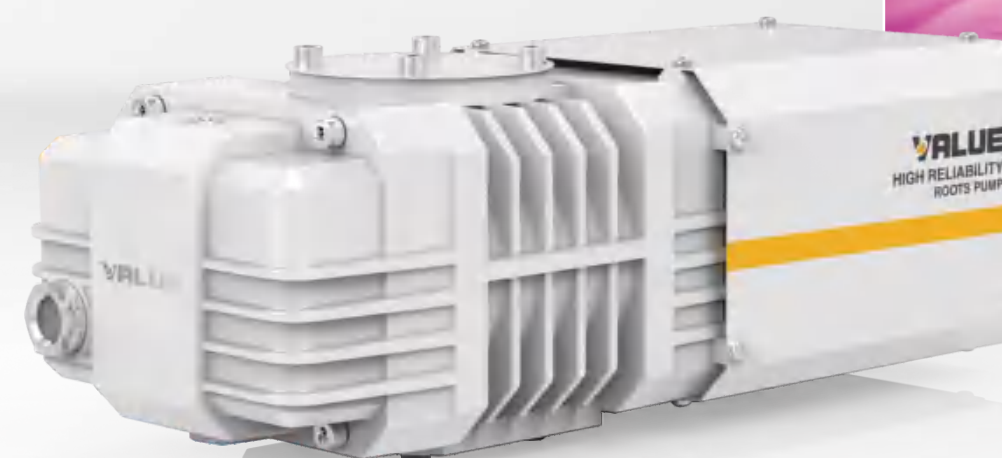
Photovoltaic

Coating

**VBP100/300S**  
**Roots pump**

The VBP series Roots vacuum pump features a coaxial integrated pump rotor design. Its high-precision transmission system and sealed potting motor design enable high-speed operation with minimal leakage. It can be widely used in scientific experiments, plasma cleaning, HVAC, photovoltaics, semiconductors, and other fields.

- Aluminum alloy lightweight design
- Hard coating design resistant to moisture and special working conditions
- IE4 high-efficiency energy-saving cantilever motor with low power consumption and minimal heat generation.



HVAC



Laboratory



Plasma Cleaning