

High Reliability

Speed • Innovation • Quality

Roots Blower

The pump has a pair of rotors that are designed and processed with good symmetry, so it has the characteristics of high speed, small size, light weight, and small vibration; and it has a compact structure and a small footprint.

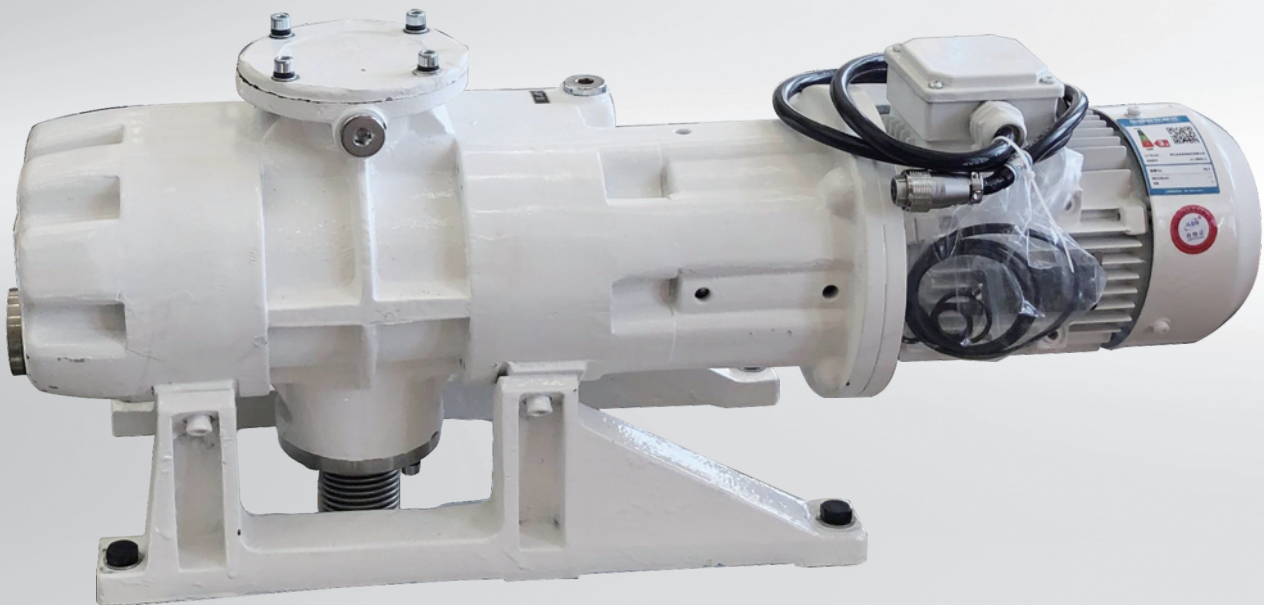
■ Quick start can reach the ultimate vacuum in a short time. No compression occurs in the pump cavity, so condensable gases can be eliminated without the need for a vent valve.

■ There is a certain gap between the rotors, and there is no contact between the rotor and the pump cavity, so there is no friction, low power consumption, and good energy saving effect.

■ Does not require oil lubrication, eliminates oil vapor pollution to the vacuum system, and is not sensitive to tiny dust.

■ The pump has a stable large pumping speed within the pressure range of $1.3 \times 10^3 \sim 1.3 \text{ Pa}$, and can quickly release the suddenly released gas, which makes up for the shortcomings of oil-sealed vacuum pump and diffusion pump, and is most suitable for use as a booster pump.

■ This type of pump has a relief valve, which has the function of automatically preventing overload. The pump always runs under safe conditions. So it can start at the same time as the foreline pump, and it is safe and reliable.



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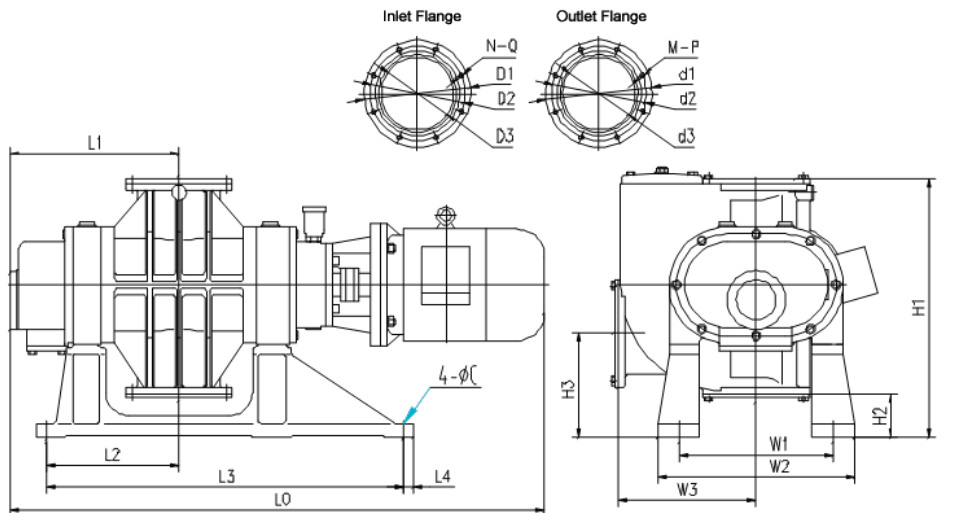
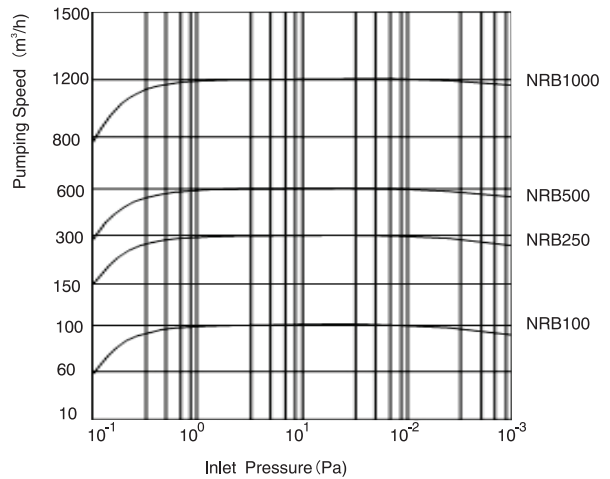
🌐 www.hivac.us

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Model		NRB100	NRB250	NRB500	NRB1000	NRB2000
Pump Speed m ³ /h (L/S)		100 (30)	250 (70)	500 (150)	1000 (300)	2000 (570)
Ultimate Pressure (Pa)	Dual stage pump as backing	3×10 ⁻²				
	Single stage pump as backing	1×10 ⁻¹				
Maximum allowable pressure differential in continuous operation (Pa)		1×10 ⁴			8×10 ³	
Relief Valve Pressure Difference (Pa)		4×10 ³	4×10 ³	4.8×10 ³	5.8×10 ³	3.2×10 ³
Motor Speed (r/min)		3000				
Motor Power (kW)		0.75	1.1	2.2	4	7.5
Flange Nominal Size	Inlet (mm)	50	80	100	150	200
	Outlet (mm)	40	50	80	150	200
Allowed Temperature Rise (°C)		100				
Weight (kg)		80	98	220	310	630

Flow Rate Characteristic

NRB is one of the most basic vacuum obtaining equipment in the field of vacuum application. It is widely used in chemical industry, food, medicine, smelting, and motor manufacturing. Especially when its front stage uses a two-stage rotary vane pump, it can pump out gas containing a large amount of water vapor, so it is very suitable for distillation, evaporation, freeze drying and other production processes.



Model	L0	L1	L2	L3	L4	H1	H2	H3	W1	W2	W3	4-ØC	D1	D2	D3	d1	d2	d3	N-Q	M-P
NRB100	680	186	120	360	15	270	40	100	220	270	145	4-Ø14	110	90	50	100	80	40	4-M8	4-M8
NRB250	773	221	155	450	15	300	50	130	220	265	168	4-Ø14	145	125	80	110	90	50	4-M8	4-M8
NRB500	890	267	195	580	20	475	90	195	320	380	245	4-Ø18	170	145	100	170	145	100	4-M10	4-M10
NRB1000	1100	327	275	740	20	525	90	215	320	408	285	4-Ø18	225	195	150	220	195	150	8-M10	8-M10
NRB2000	1370	399	277.5	760	27.5	673	70	235	480	590	375	4-Ø24	285	250	200	280	250	200	8-M10	8-M10