



LIQUID RING VACUUM PUMPS

N1B SERIES

Pumps. Systems. Service. Support. — One Source.
SINGLE-STAGE PORT PLATE LIQUID RING VACUUM PUMP



Bolt-in replacement for Edwards® LR1B vacuum pumps — matching capacity and performance, with capacities from 2,300 to 56,500 CFM.

— FIT	— MATERIALS	— CONFIGURATION	— WARRANTY
Bolt-in replacement for Edwards LR1B; compatible with LR1A and LR1B configurations.	Standard cast iron construction; optional 304 or 316 stainless steel.	Bare pump, direct drive , or V-belt systems.	1-year factory warranty against manufacturer's defects, backed by NES parts & repair kits.

Built for deep vacuum performance. Proven in demanding industrial environments.

Designed for reliability and low maintenance, the N1B Series serves industries such as chemical, pharmaceutical, power generation, and environmental processing. The N1B Series is factory performance tested and includes a 1-year warranty against manufacturing defects.

CAPACITY RANGE	MAX VACUUM	MODELS	WARRANTY
2,300–56,500 CFM, vacuum pump	25" HgV Rated ultimate vacuum	6 Frames Frame sizes 3500–10000	1-Year Factory warranty

PERFORMANCE RANGE

Capacity Range	2,300 – 56,500 CFM
Max Vacuum	25" HgV

MATERIALS & METALLURGY

Standard	Cast iron
Optional	Stainless steel 304, 304L, or 316L
Optional	Duplex steel, titanium, Hastelloy, or 20# alloy steel

SEALING OPTIONS

Standard	Gland packing
Optional	Single mechanical seal
Optional	Single cartridge seal
Optional	Dual cartridge seal with seal pot

APPLICATIONS

- ▶ Vapor Recovery
- ▶ Filtration
- ▶ Degassing
- ▶ Evacuation
- ▶ Evaporation
- ▶ Distillation
- ▶ Work Holding
- ▶ Priming
- ▶ Conveying

CONFIGURATION OPTIONS

- ▶ Recovery — once-through, partial, or full sealant recovery.
- ▶ System — simplex, duplex, triplex, or quadruplex.
- ▶ Rotation — clockwise or counter-clockwise.

MODEL LINEUP

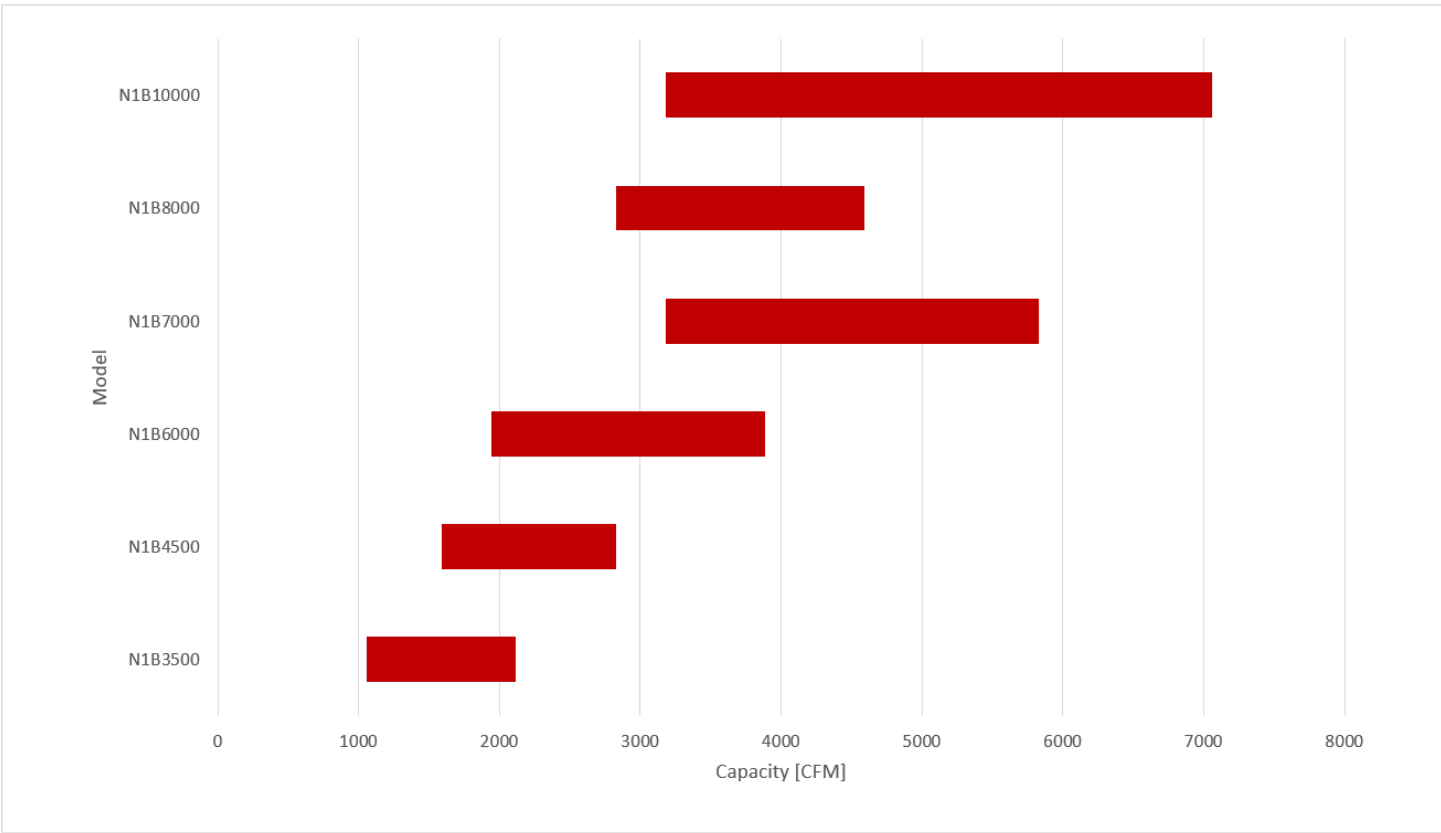
N1B Series
Bolt-in replacement for Edwards® LR1B, compatible with LR1A and LR1B configurations. Models:
3500 · 4500 · 6000 · 7000 · 8000 · 10000.

FULL TECHNICAL DATA

This sheet summarizes the N1B Series. **Contact NES** for the complete technical data sheet — frame-by-frame performance data and dimensional drawings.

Vacuum Pump / Capacity by Model

CAPACITY RANGE — N1B3500 THROUGH N1B10000

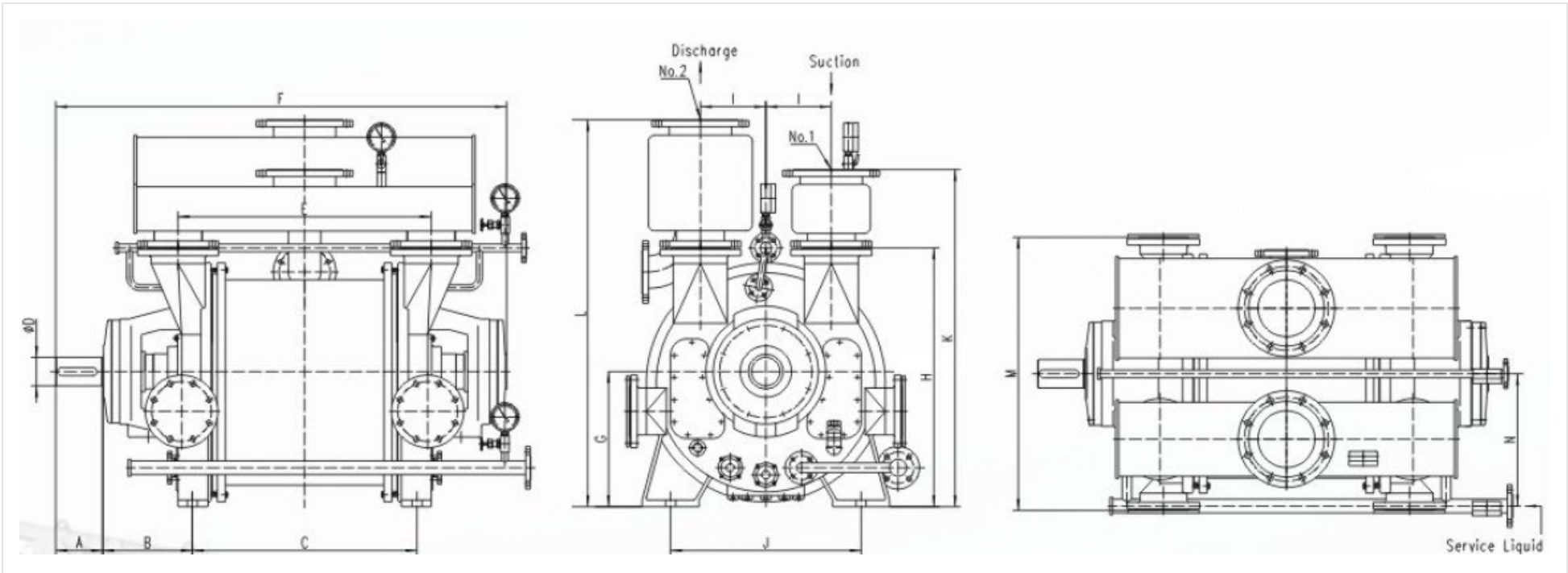


FULL TECHNICAL DATA

This sheet summarizes the N1B Series. **Contact NES** for the complete technical data sheet — frame-by-frame RPM, motor power, and dimensional drawings.

Dimensions / Keyway & Shaft Data

DIMENSIONAL DRAWING

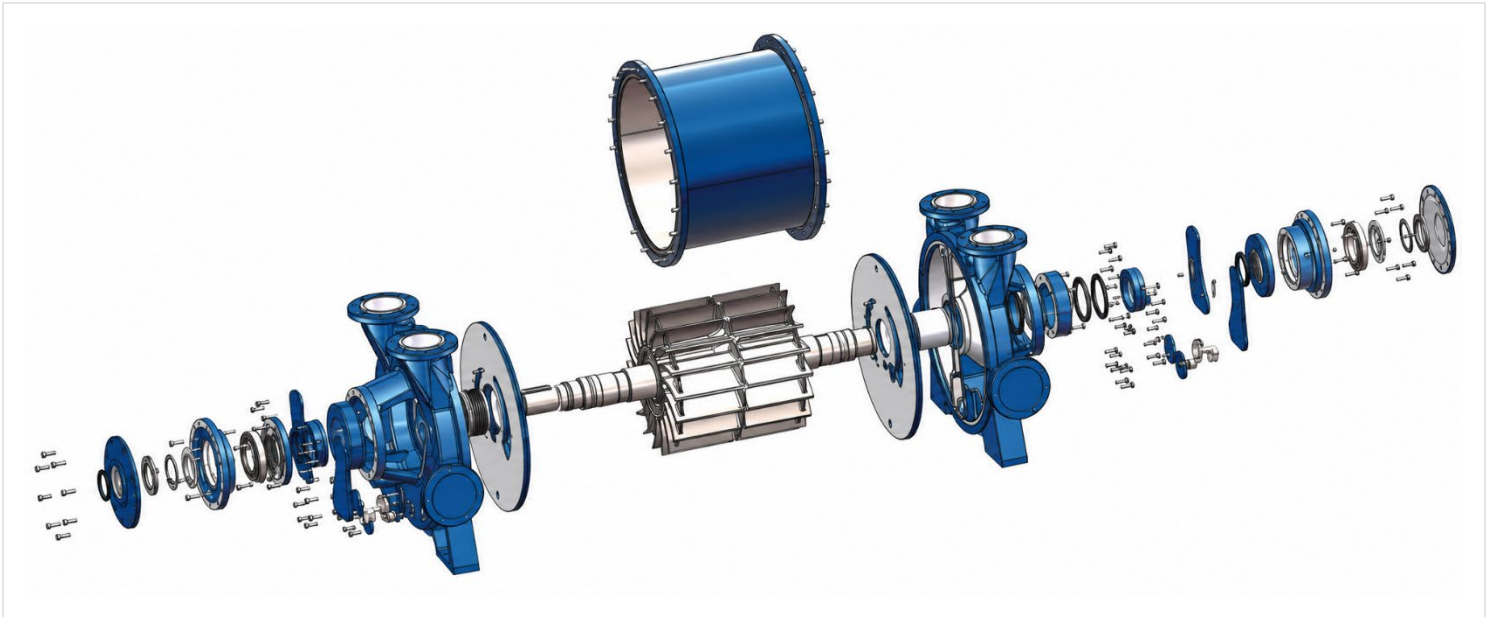


DIMENSIONS, KEYWAY & SHAFT DATA — DIMENSIONS IN MM

Model	A	B	C	D	E	F	I	J	K	L	M	N	No.1/No.2
N1B3500	165	315	790	100	890	1585	230	670	1185	1360	1000	465	DN200
N1B4500	165	315	990	100	1090	1785	230	670	1185	1360	1000	465	DN200
N1B6000	165	335	1150	120	1290	1985	285	800	1370	1570	1110	503	DN250
N1B7000	165	335	1300	120	1440	2135	285	800	1410	1650	1110	503	DN300
N1B8000	200	355	1110	140	1260	2020	335	950	1625	1865	1310	600	DN300
N1B10000	200	355	1110	140	1600	2360	335	950	1625	1865	1310	600	DN300

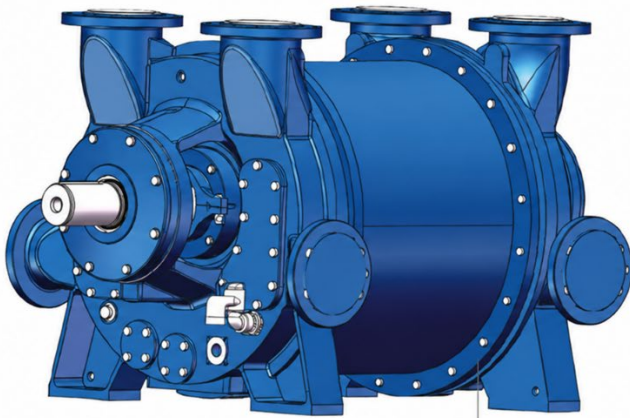
Exploded View / Reference Drawings

EXPLODED VIEW

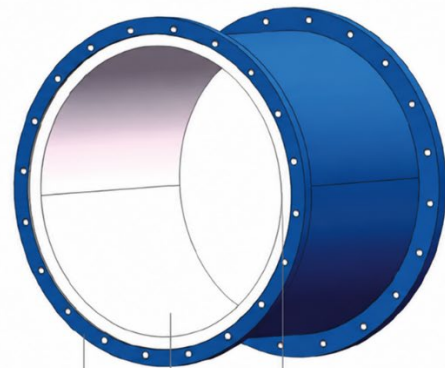


CHARACTERISTICS OF FLANGE STRUCTURE PUMP

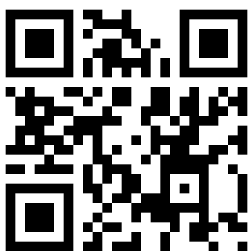
CHARACTERISTICS OF FLANGE STRUCTURE PUMP



The pump casing and end shield have flanges



Wide sealing surface
Cavity finish machining
Finish machining of locating circular rabbet

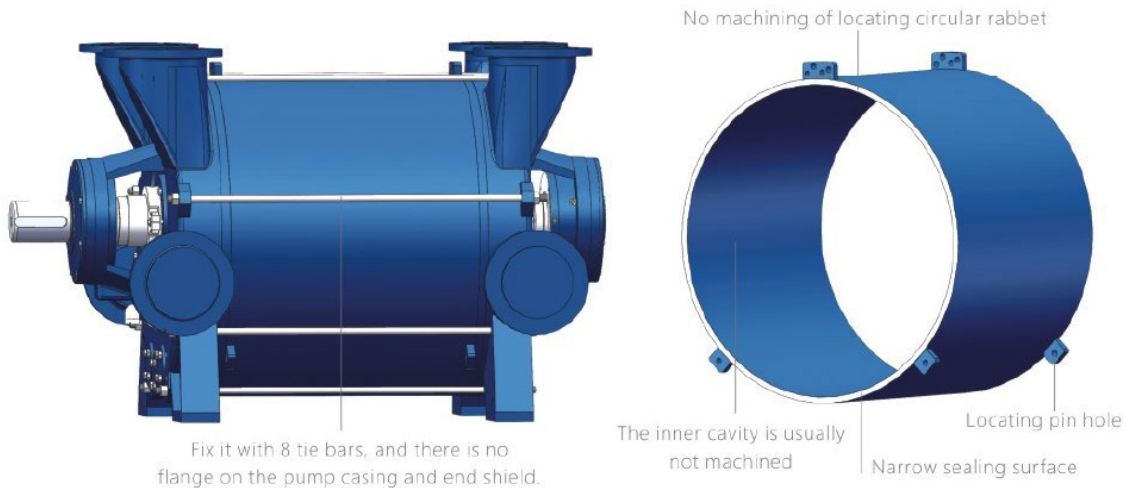


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CHARACTERISTICS OF TIE BAR STRUCTURE PUMP



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