

## VRN liquid ring vacuum pump (LRVP)

VRN pump range has been designed for highly demanding applications, pumping all kinds of clean and contaminated gases. Due to its great adaptability through a wide range of designs and material of construction, the VRN pump is perfectly suitable for vacuum pump applications in the fertilizer, chemical process, paper and sugar industries.

### Design

- Single-stage pump with inlet via guide plates at both ends of the rotor
- Shaft sealing by packing with inserted lantern rings
- Shaft fully protected
- Self-adjusted compression rate
- Not affected by liquid or dust
- Water saving reservoir at pump discharge
- Eccentric blade impeller between bearings
- Extensive material range
- Various sealing options available
- Compressor operation design available
- Liquid ring water supply optimization
- Partial / total water recirculation system
- Epoxy fiber separator

### Applications

- Filtration under vacuum
- Vacuum condensers
- Crystallization
- Concentration



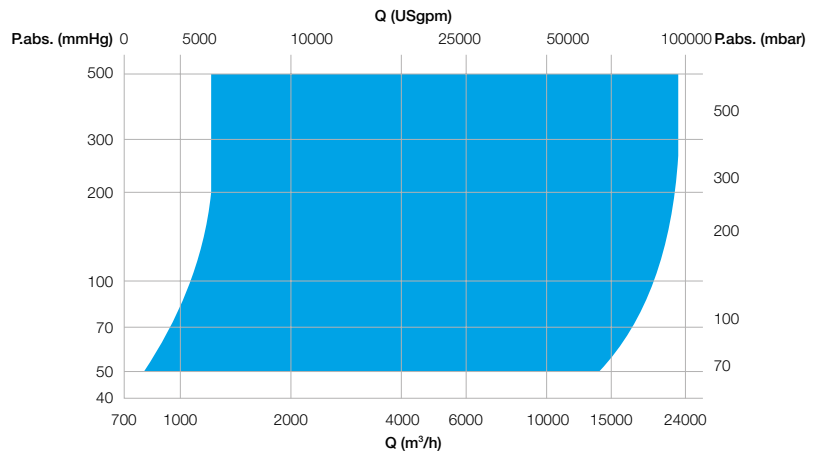
## Materials

Standard construction	Castings	Fabricated
Austenitic stainless steel	ASTM A351 grade CF3M	ASTM A240/ A276 Type 316L
Super austenitic stainless steel	EN 10283 1.4584	ASTM A240 Type 904L EN 10088 1.4539
Duplex stainless steel	ASTM A890 grade 1B	ASTM A240 UNS S31803 EN 10088 1.4462
Super duplex stainless steel	ASTM A890 grade 6A	ASTM A240 UNS S32520/550/760

## Operating data

	50 Hz	60 Hz
Capacities	up to 23'000 m <sup>3</sup> /h	up to 101'200 USgpm
Absolute suction pressure	up to 50 mmHg	up to 50 mmHg
Temperatures	up to 45°C	up to 112°F
Maximum speed of rotation	up to 750 rpm	up to 750 rpm

## Performance range



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your best solution.

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