



ITT

Vogel Pumpen

Vogel - Blockpumps

Design LMN / LM



Ernst Vogel Pumpen GmbH
Pumpenfabrik Ernst Vogel
D-42699 Solingen

VOGEL Blockpumps, Design LMN / LM


Design LMN, Sizes DN 32 - 80



Design LM, Sizes DN 100 - 150

Performance:

Capacity up to 500 m³/h (2200 USgpm)
 Head up to 95 m (312 feet)
 Speed up to 2950 min⁻¹ (2950 rpm)

Pump sizes:

DN 32 up to DN 150 (1 1/4" up to 6") discharge,
 Pumps with higher capacities, sizes DN 125
 up to DN 600 (5" up to 24"), refer to design LS,
 brochure 1300.1.B.

Temperature of pumped liquid:

max. 140 °C (284 °F)

Casing pressure:

Design LMN:
 up to 16 bar/120 °C or 13 bar/140 °C

Design LM:
 up to 12 bar/120 °C or 10 bar/140 °C

Pumps in other materials and for higher casing pressures refer
 to Design LSB.

Liquids:

Clean and slightly contaminated fluids
 (without bigger solids)
 Cold and hot water
 Condensate
 Water-Glycol mixtures, etc.

Applications:

Water supply and water treatment
 Cooling and hot water supply in industries and
 building services
 Filter systems, etc.

Materials:

Design	Code	Size	Impeller	Casing, Seal chamber	Wear rings	Motor adapter	Shaft
LMN	VN	32-125 up to 65-125	1.4404	0.6020	1.4402	0.6020	1.4401
	NN	65-160 up to 80-250	0.6020		1)		
	SN		2.1050.01				
LM	NN	65-315 80-315 80-400 100-160 up to 150-400	0.6025	0.6025	1)	0.6025	1.4021
	SN		2.1050.01				

1) optional 0.6020 or 0.6025

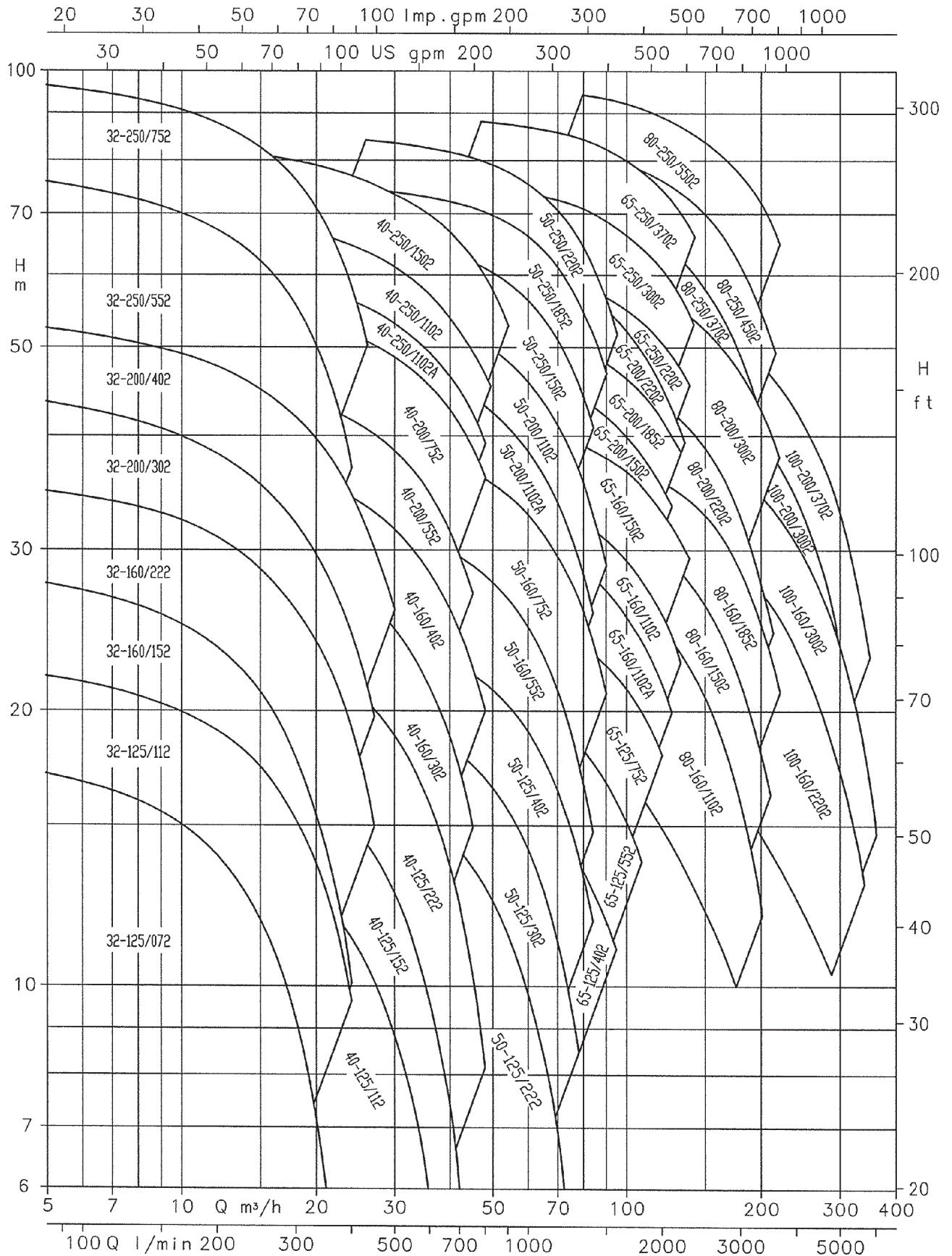


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VOGEL Blockpumps, Design LMN / LM

Performance 2950 r.p.m.



Engineered for life

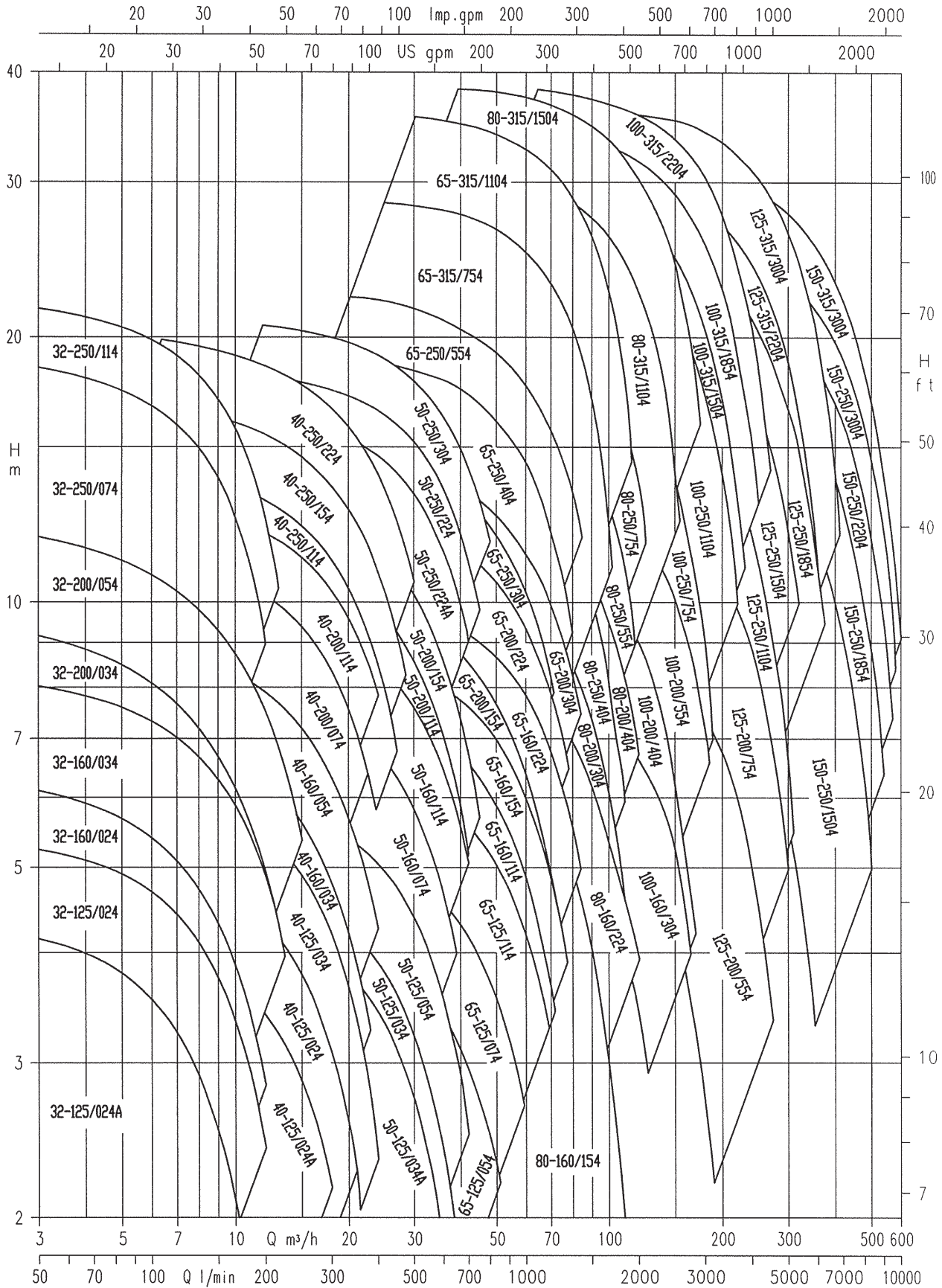


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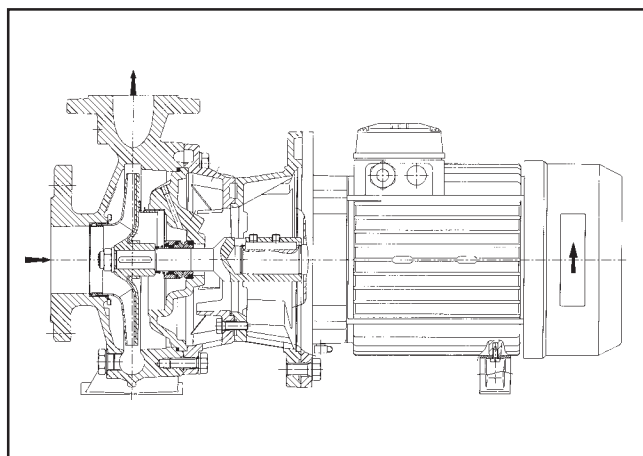
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VOGEL Blockpumps, Design LMN / LM

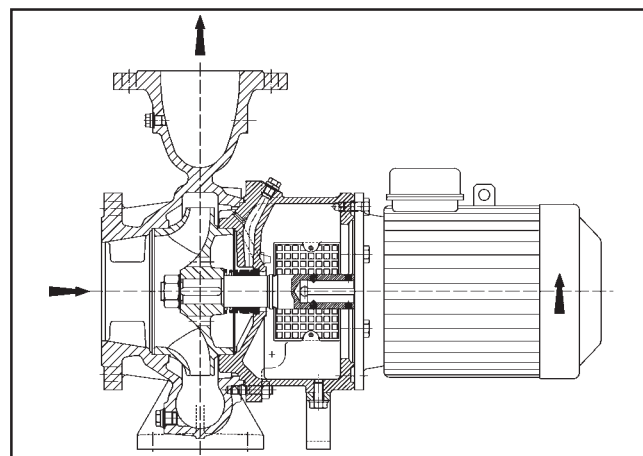
Performance 1450 min⁻¹



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VOGEL Blockpumps, Design LMN / LM


Design LMN



Design LM

Design features:

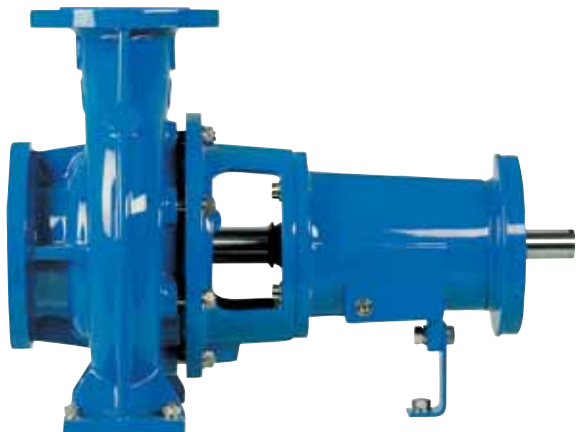
- Horizontal single stage end suction pump in close coupled (block) design which allows the mounting of any standard IEC Motor. The wet end components are interchangeable from the design LN/L and are according to EN 733.
The casings are identical with the former DIN 24255 and therefore interchangeable.
- Meet the requirements according to ISO 9908
- High efficiency enclosed impeller. Sizes 32-125 up to 65-125 standard made of stainless steel 1.4404, stamped and laser welded. Sizes 65-160 up to 150-315 standard cast iron, optional bronze.
- Casing in solid design to absorb the flange forces in accordance with ISO 9908. Suction horizontal, discharge top centerline. Flanges DN 32 up to DN 150 standard PN 10/16, except suction flange DN 200, standard PN10, optional PN 16.
- Seal chamber dimensioned according to EN 3096
- Large open conical seal chamber, selfventing with internal circulation for proper lubrication and cooling of the seal. Ribs in the seal chamber prevent the accumulation of air or gas in the area of the seal faces and reduce wear caused by solids in the fluid.
- Shaft sealing by means of single, unbalanced mechanical seal according to EN 12756, design U, version k (former DIN 24 960, I1k).
- Standard mechanical seal materials: Carbon – Silicon Carbide (SiC) – EPDM (BQ1EGG), optional elastomers in FPM (Viton[®]) (BQ1VGG).
As option also available in SiC – SiC – FPM (Viton[®]) (Q1Q1VGG).
- Solid motor adapter made of cast iron to connect directly standard IEC Motors, design B5/V1.

VOGEL Blockpumps, Design LMN / LM**HYDROVAR**

- HYDROVAR from VOGEL is a compact pump controller.
- Performances up to 45 kW.
- Simple mounting and installation.
- The integrated frequency converter has included an automatic controller for pressure, pressure differential or capacity.
- Applications with several pumps allow to have an automated change over in case of faults and to control the lead and lag pump according to demand by means of the integrated interfaces.



- HYDROVAR Smart for performance ranges above 45 kW. Hydrovar Controller without integrated converter.

VOGEL Blockpumps, Design LMN / LM
Program Extension


Design L

Volute Casing Pumps LN / L:

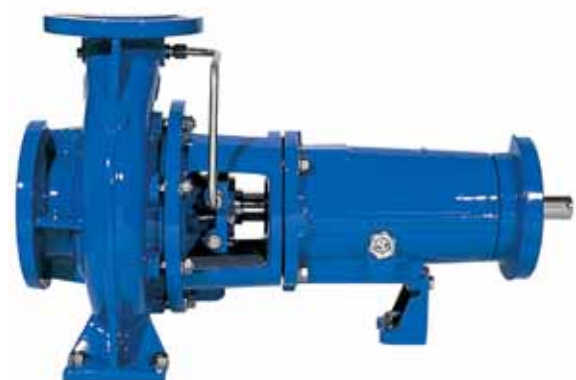
- Single stage volute casing pump according to EN 733 / ISO 9908
- Sizes from DN 32 up to DN 150 (1 1/4" up to 6")
- Capacities up to 600 m³/h (2640 USgpm)
- Heads up to 100 m (328 feet)



Design LMR

Inline Pumps LR / LMR & LRZ / LMZ:

- Inline design for direct installation into the piping with direct mounted IEC Norm-Motor
- Sizes from DN 40 up to DN 150 (1 1/2" up to 6")
- Capacities up to 350 m³/h (1540 USgpm)
- Heads up to 80 m (262 feet)
- Motor sizes up to 22 kW (30 hp)
- Design LMZ: Twin Inline Pump



Design LS

Inline Extension Program LER / LEZ:

- Extended performances up to 1000 m³/h (4403 USgpm)

Volute Casing Pumps LS:

- Extension of the performance range of model LN/L
- Horizontal design according to ISO 5199
- Sizes from DN 125 up to DN 600 (5" up to 24")
- Capacities up to 4600 m³/h (20250 USgpm)
- Heads up to 100 m (328 feet)

Pumpenfabrik ERNST VOGEL GmbH

A-2000 Stockerau

Ernst Vogel-Straße 2

Telefon: ..43-2266-604

Telefax: ..43-2266-65311

E-Mail: info@vogel.itt.com

www.vogel-pumpen.com

Liability of manufacturer and/or supplier

The mentioned limits of operation and/or application are only a general information and may not be applied for every case. The permitted range of operation and/or application for the specific case is to be obtained from our acknowledgement of order and/or the instructions for installation, operation and maintenance, sent with the goods.

Liste 1130.1.B

9/2007-e



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