

# Vacuum pump

LEMA, LEMB

LEM 26/51

<b>Capacity</b> 3-58 m <sup>3</sup> /h	<b>Pressure range</b> 33-1013 mbar	<b>Material</b> Cast iron & Stainless steel
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## Description

A one stage liquid ring vacuum pump in OEM construction.  
A close coupled pump where the motor is mounted directly on the pump casing to take up as little space as possible when the pump is mounted in the system.



AT 6300

## Range of application

Evacuation and pumping of dry gases and saturated steam.  
Typical industries are chemistry, pharmaceutical, food, plastic and rubber industry.  
Vacuum is used for distillation, drying, degassing, filling and boiling.

## Design

The pump works according to the liquid ring principle. Liquid ring pumps are in some regards related with displacement pumps since the pump wheel is eccentrically located in the round pump body. When the wheel is rotating a fluid ring is created along the pump body's inner wall. In the cells (the space between the pump body's wings) inside the fluid ring rising part volumes (intake) and then decreasing volumes (outlet) will be created under one rotation.

## Product key (example LEMA 26 AZ AA1 4B 7 1A)

Pos	Description	Code	Explanation
1-3	Pump model	LEM	Liquid ring vacuum pump
4	Construction	A,B	
5-7	Pump size	25-425	
8	Hydraulics	A,8	Threaded inlet/outlet
		C,9	Flanged inlet/outlet
9	Bearings	Z	Motor bearings
10-12	Sealing	AAE	Mechanical sealing SIHI FN EBPGG
		AA1	Mechanical sealing SIHI FN GBVGG
13-14	Material	0A	See table below
		0K	See table below
		4B	See table below
15	Gasket	0	Fluid sealing
		7	O-ring Teflon
16-17	Motor data		Depending on motor size

Only the most common combinations above, for specials Contact Armatec

## Material combinations

Pos	0A	0K	4B
Vacuum casing	0.6025 Cast iron 1.4301 Stainless steel	0.6025 Cast iron 1.4301 Stainless steel	1.4408 Acid-proof steel 1.4404 Acid-proof steel
Guide disc	1.4301 Stainless steel	1.4308 Stainless steel	1.4404 Acid-proof steel
Cover	1.4301 Stainless steel	1.4308 Stainless steel	1.4404 Acid-proof steel
Valve ball	PTFE	PTFE	PTFE
Impeller	2.1096.01 Bronze	1.4308 Stainless steel	1.4408 (LEM 26) / 1.4517 (LEM 51)

## Connections

Connection	Designation
UB	Service fluid G 1/4
Ue	Drainage G 1/4
Uc	Cavitation protection G 1/4
Um	Pressure sensor G 1/4

## Service fluid in m<sup>3</sup>/h

Pressure mbar	in	33	120	200	400
LEM 26		0,39	0,36	0,3	0,28
Total service fluid by installation where the fluid is directed straight in to the drain. For other installations ask Armatec					

