Vacuum pump LEMA, LEMB

Capacity	Pressure range	Material
3-58 m ³ /h	33-1013 mbar	Cast iron & Stainless steel

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.

SBII

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.

AT 6300

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 LEMD 27 AZ D52 0E 1 1A)

Pos	Beskrivning	Kod	Förklaring
1-3	Pump model	LEM	Liquid ring vacuum pump
4	Construction	D	
5-7	Pump size	27-427	
8	Hydraulic	A,B	Treaded inlet / outlet
		C,D	Flanged inlet / outlet
9	Bearing	Z	Motor bearing
10-12	Mechanical seal	D52	Mechanical seal Flowserve BVPFF
		D4W	Mechanical seal Flowserve BQ2PFF
		D5N	Mechanical seal Flowserve BVVGG
		D4J	Mechanical seal Flowserve BQ2VGG
		AFJ	Mechanical seal
13-14	Material	0F	See table
		0E	See table
		VP	See table
		VF	See table
15	Packning	1	Packing
16-17	Motor data	AA, AB	Depending on motor size
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Material combinations

Pos	0F	0E	VP	VA
Vacuum			1.4408 acid-	1.4408 acid-
casing	0.6025 cast iron	0.6025 cast iron	proof steel	proof steel
			1.4408 acid-	1.4408 acid-
Cover	0.6025 cast iron	0.6025 cast iron	proof steel	proof steel
	1.4404 acid-	1.4404 acid-	1.4404 acid-	1.4404 acid-
Guide disc	proof steel	proof steel	proof steel	proof steel
		1.4408 acid-		1.4408 acid-
Impeller	POM polymer	proof steel	POM polymer	proof steel
Valve ball	PTFE	PTFE	PTFE	PTFE

Service fluid in m³/h

Pressure in mbar	33	120	200	400		
LEM 27852	0,45	0,41	0,38	0,32		
LEM 92&127	0,60	0,53	0,48	0,41		
LEM 162	1,20	1,10	1,00	0,90		
LEM 252	1,30	1,10	1,00	0,90		
LEM 327&427	1,80	1,40	1,30	1,10		
	Total service liquid in installation where service liquid transported to drain					