

# Vacuum pump

LEM, LEL

LEM/LEL G 91/126/161

|  |                                       |  |
|--|---------------------------------------|--|
| <b>Capacity</b><br>24-78 m <sup>3</sup> /h | <b>Pressure range</b><br>33-1013 mbar | <b>Material</b><br>Cast iron & Stainless steel |
|--|---------------------------------------|--|

## Description

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

## Material combinations

| Pos           | OK                      | 4B                      |
|---------------|-------------------------|-------------------------|
| Vacuum casing | 0.6025 Cast iron        | 1.4408 Acid-proof steel |
| Cover         | 1.4301 Stainless steel  | 1.4404 Acid-proof steel |
| Guide disc    | 1.4301 Stainless steel  | 1.4404 Acid-proof steel |
| Shaft         | 1.4571 Acid-proof steel | 1.4571 Acid-proof steel |
| Valve plate   | PTFE                    | PTFE                    |
| Impeller      | 1.4308 Stainless steel  | 1.4408 Acid-proof steel |