Vacuum pump

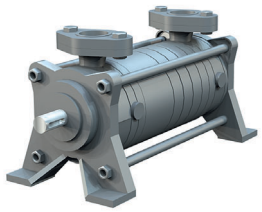
LOHE

LOH 25003/25007/25309

Capacity	Pressure range	Material
11-26 m^3/h	40-1013mbar	Cast iron & Stainless steel

Description

A two step liquid ring vacuum pump with a simple, robust construction.
With a free shaft end all options of shaft coupling, motor and DIN seals are available to adapt the pump to your industry



AT 6300-25003

Range of application

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

Design

The pump works according to the fluid 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 wheels wings) inside the fluid ring rising part volumes (intake) and then decreasing volumes (outlet) will be created under one rotation.

Product key (example LOHE 25007 BN 131 0K 0)

Pos	Description	Code	Explanation
1-3	Pump model	LOH	Fluid ring vacuum pump
4	Construction	E	
5-10	Pump size	20103-20107	One stage pump
		05501-25309	Two stage pump
11	Hydraulics	A	
12-13	Bearings+sense of rotation	B	two grease lubricated antifriction bearing
		N	one shaft end clockwise rotating
14-16	Sealing	131	Mechanic sealing SIHI FK EBPGG
		X0A	Mechanic sealing SIHI FK GBVGG
17-18	Material	01	Se table below
		32	Se table below
19	Gasket	0	O-ring

Material combination

Pos	0K	42
Vacuum casing	0.6025 Cast iron	1.4408 Acid-proof steel
Central body	1.0553 Steel	1.4571 Acid-proof steel
Guide disc	0.6025 Cast iron	1.4408 Acid-proof steel
Shaft	1.4021 Stainless steel	1.4401 Acid-proof steel
Impeller	1.4308 Stainless steel	1.4571 Acid-proof steel

Connections

Connection	Designation 25003
N1	Inlet G 1 1/4
N2	Outlet G 1 1/4
UB	Service fluid G 3/8
Uc	Cavitation protection G 1/8
Ue	Drainage G 1/4

Service fluid in m^3/h

Pressure in mbar	40	120	200	400
25003	0,35	0,3	0,3	0,26
	Total service fluid by installation where the fluid is directed straight in to the drain For other installations ask Armatec			