

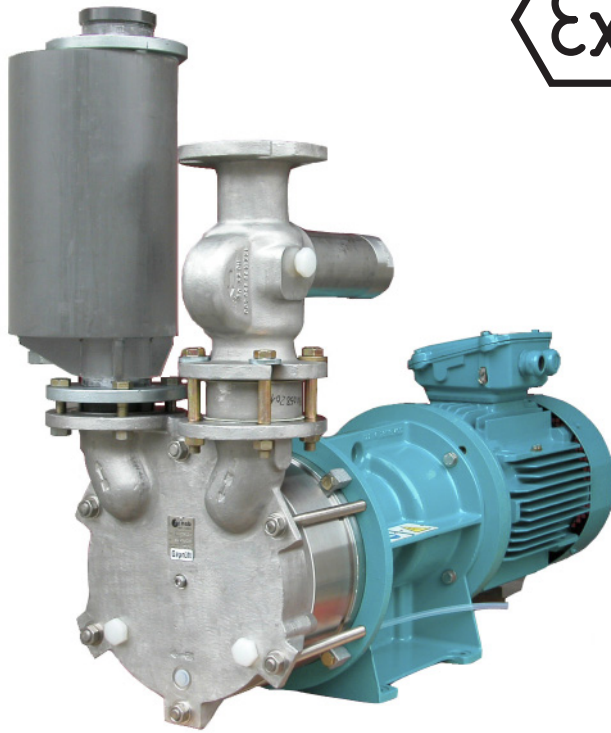
Liquid-ring pumps for vacuum or compressor duty

Types



PMZF/K 2507 to 3817

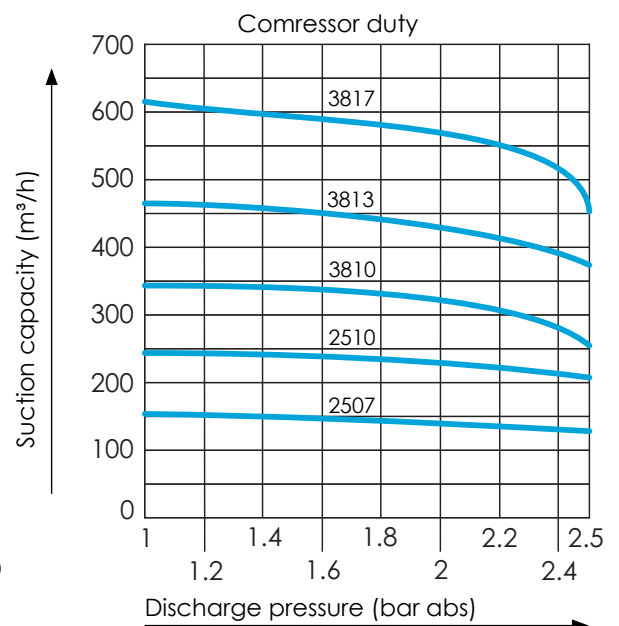
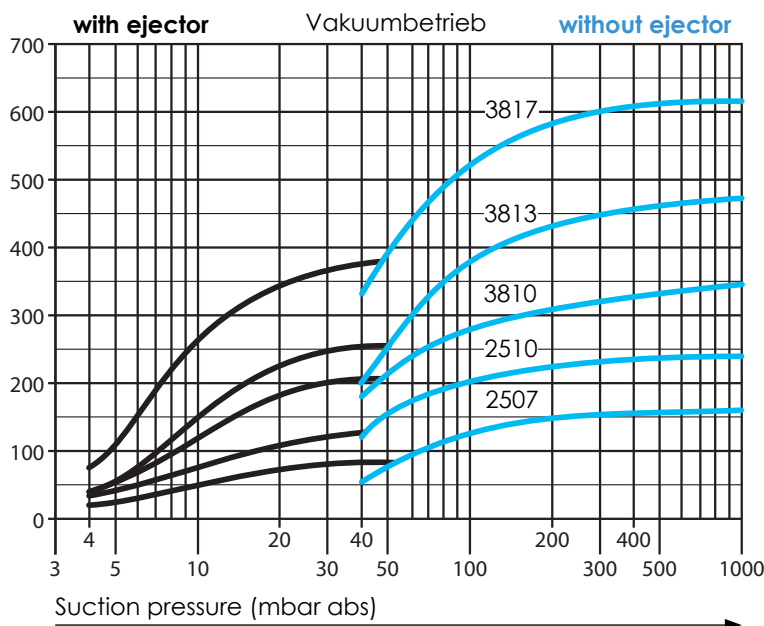
Single-step standard pump for vacuum down to 40 mbar (6 mbar with gas ejector),
Suction property from 150 up to 600 m³/h
Overpressure up to 2.5 bar abs



Features and advantages

- Sturdy
- Cold compression
- Not sensitive to impurities nor liquids
- Conformity with ATEX
- With mechanical seal
- IEC motors
- Low power requirement
- Low ring-liquid requirement
- Simple concept
- Quiet running
- Low maintenance
- Self-priming
- Safe operation
- Simple installation

Suction capacity



The performance curves indicate effective suction capacities at given pressure of the respective pumps with a tolerance of $\pm 10\%$ for the following operation conditions:

- Intake of dry air with a temperature of 20°C
- Ring liquid: water with an inlet temperature of 15°C
- Ambient pressure 1013 mbar abs
- Electric motor 50 Hz

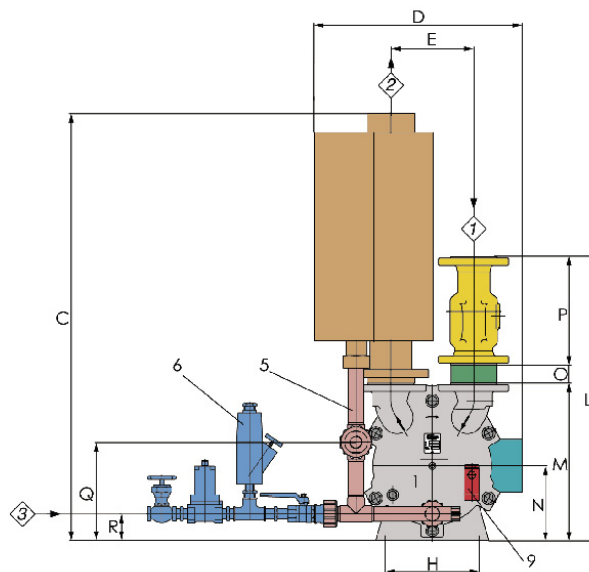
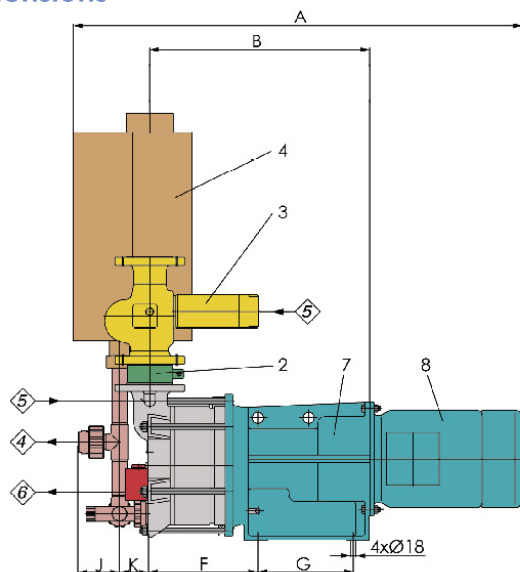
Construction materials

Part	Execution A	Execution C	Execution D	Execution H
Pump body	cast iron	cast iron	stainless steel	Hastelloy
Casting cover	cast iron	cast iron	stainless steel	Hastelloy
Port plate	cast iron	stainless steel	stainless steel	Hastelloy
Impeller	cast iron	stainless steel	stainless steel	Hastelloy

Materials (example)

stainless steel 1.4435 / 1.4408
 bronze GK-CU AL 9 NI
 cast iron EN-GJL-200
 hastelloy C-22
 Actual materials in accordance with offer / confirmation of order

Dimensions



	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q	R
PMZF 2507	~1170	548	920	~495	220	250	260	250	110	80	616	420	220	46	150	265	75
PMZF 2510	~1205	583	920	~495	220	285	260	250	110	80	616	420	220	46	150	265	75
PMZF 3810	~1560	813	1310	~885	360	277	470	420	125	110	960	590	300	50	310	321	221
PMZF 3813	~1650	848	1310	~885	360	312	470	420	125	110	960	590	300	50	310	321	221
PMZF 3817	~1695	888	1310	~885	360	352	470	420	125	110	960	590	300	50	310	321	221

- 1 Vacuum pump
- 2 Non-return valve
- 3 Gas ejector
- 4 Liquid separator
- 5 Economy circuit
- 6 Automatic ring-liquid control
- 7 Support
- 8 Motor
- 9 Drain valve

Technical data

Size	Installed motor rating IP54/ EEx e II T3 kW	Speed min ⁻¹	Ring liquid flow l/h	Weight with mo- tor IP54/ EEx e II T3 kg	Noise level db (A)	Inlet 1 PN16	Outlet 2 PN16	Kavitation protection* 5 R	Ring- liquid pipe * 3&4 R	Over- flow * 6 R
PMZF										
2507	5.5/6.8	1500	1400	190/210	< 70	DN65	DN65	1/2"	1/2"	1/2"
2510	7.5/10	1500	1500	210/250	< 70	DN65	DN65	1/2"	1/2"	1/2"
3810	11/13.2	1000	2000	430/470	76	DN80	DN80	1/2"	1/2"	1/2"
3813	15/16.5	1000	3000	480/540	82	DN80	DN80	1/2"	1/2"	1/2"
3817	18.5/20	1000	3400	570/580	85	DN80	DN80	1/2"	1/2"	1/2"

*Deviations are reserved

Accessories

Non-return valve (2)

Gas ejector (3)

For pressure down to 6 mbar abs.

Liquid separator (4)

Polypropylene or stainless steel

Economy circuit (5)

With the economy circuit, combined with liquid separator, the consumption of ring-liquid can be reduced, up to one half of its normal quantity, depending on the required vacuum.

Automatic ring-liquid control (6)

consisting of regulating valve, pressure guard, solenoid valve and stop valve.

Drain valve (9)

Design concept

Pump and motor are flanged to a support, so that a base frame is not necessary. Drive is by means of a directly coupled, flanged motor to IEC standard. Motors to other standards can be connected by means of an adapter flange. Shaft sealing with single-acting mechanical seal acc. to DIN 24960 (except Code 1).



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