

LMF Series Linear Diaphragm Liquid Pump



FEATURES

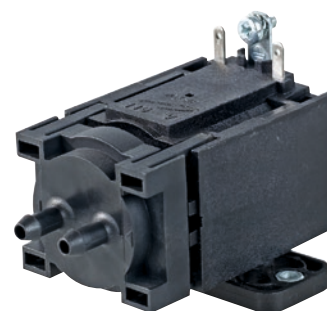
- > High Lifetime
- > Low Sound
- > Self Priming

TYPICAL APPLICATIONS

- > Industrial Applications
- > Medical Devices
- > Laboratory and Analysis
- > Dosing Applications
- > HVAC
- > Fuel Cells

BASE MODEL

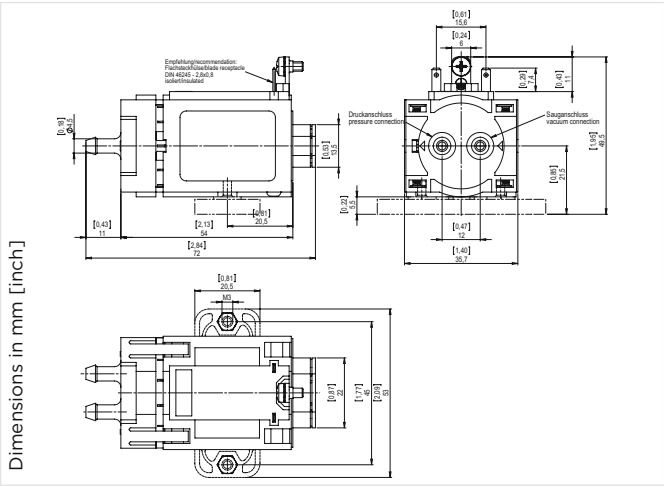
LMF3 115/230 V AC
LMF3 12/24 V AC
LMF4 115/230 V AC
LMF4 12/24 V AC



Linear

Linear Diaphragm Liquid Pump LMF3 115/230 V AC

Flow	185 ml/min
Pressure height	7 m H ₂ O
Suction height	2 m H ₂ O



HYDRAULIC DATA

Description	LMF3 115/230 V AC PP/PBT/EPDM	
Part number	115 V/60 Hz	9471410
	230 V/50 Hz	9470410
Max. flow	185 ml/min	
Max. continuous pressure height (flooded)	7 m H ₂ O	
Max. suction height (flooded)	3,5 m H ₂ O	
Max. suction height (dry)	2 m H ₂ O	

ELECTRICAL DATA

Motor type	Linear magnetic drive
Nominal voltage	115 V 60 Hz / 230 V 50 Hz
Max. power consumption	4,6 W
Protection class	IP00

GENERAL DATA

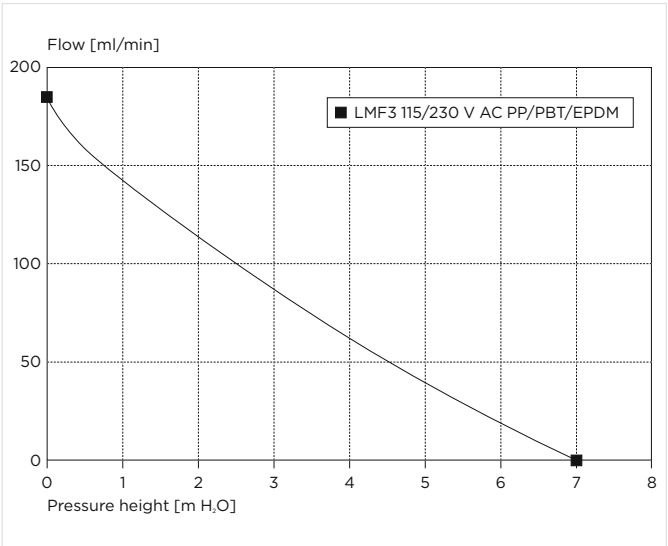
Ambient temperature	0 to 50°C
Media temperature	0 to 50°C
Weight	0,14 kg

WETTED PARTS

Pump chamber	PP
Nozzle plate	PBT
Diaphragm	EPDM
Valve gasket	EPDM

All listed values are average values and related to a Silicone tubing, OD 6,5 mm x ID 4,5 mm, Hardness Shore D 50. Tolerances depend on viscosity of media, temperature, position of pump/tubing.

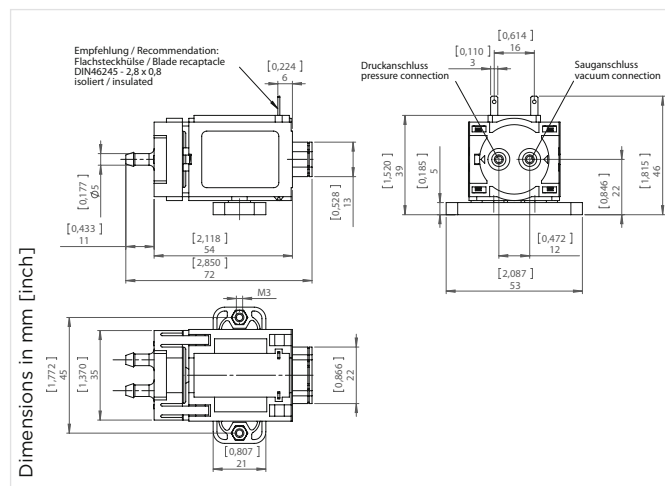
FLOW CURVES



947... Stock programme

Linear Diaphragm Liquid Pump LMF3 12/24 V AC

Flow	185 ml/min
Pressure height	7,2 m H ₂ O
Suction height	2 m H ₂ O



HYDRAULIC DATA

Description	LMF3 12/24 V AC PP/PBT/EPDM	
Part number	12 V/50 Hz	9474310
	24 V/50 Hz	9473310
Max. flow	185 ml/min	
Max. continuous pressure height (flooded)	7,2 m H ₂ O	
Max. suction height (flooded)	3,5 m H ₂ O	
Max. suction height (dry)	2 m H ₂ O	

ELECTRICAL DATA

Motor type	Linear magnetic drive
Nominal voltage	12 V 50 Hz / 24 V 50 Hz
Max. power consumption	3,8 W
Protection class	IP00

GENERAL DATA

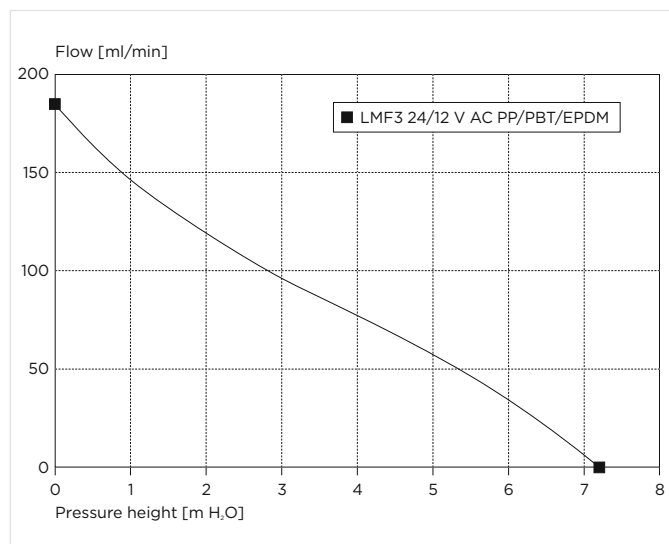
Ambient temperature	0 to 50°C
Media temperature	0 to 50°C
Weight	0,16 kg

WETTED PARTS

Pump chamber	PP
Nozzle plate	PBT
Diaphragm	EPDM
Valve gasket	EPDM

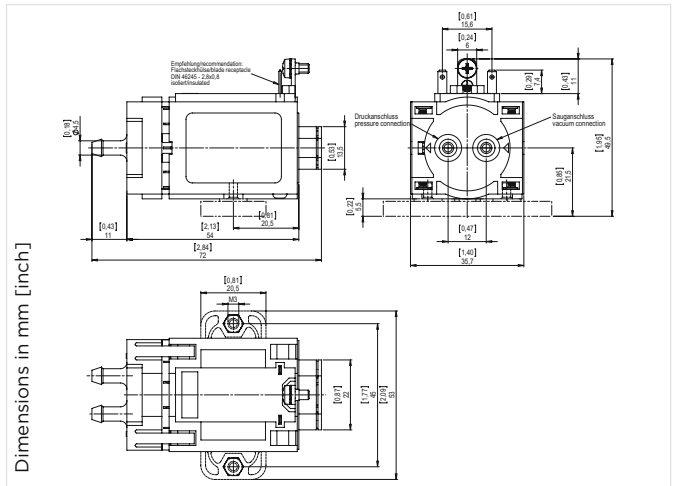
All listed values are average values and related to a Silicone tubing, OD 6,5 mm x ID 4,5 mm, Hardness Shore D 50.
Tolerances depend on viscosity of media, temperature, position of pump/tubing. Dry running during self priming only.

FLOW CURVES



947... Stock programme

Flow	300 ml/min
Pressure height	8 m H₂O
Suction height	3 m H₂O



Description		LMF4 115/230 V AC PP/PBT/EPDM
Part number	115 V/60 Hz	9441410
	230 V/50 Hz	9440410
Max. flow		300 ml/min
Max. continuous pressure height (flooded)		8 m H ₂ O
Max. suction height (flooded)		3,5 m H ₂ O
Max. suction height (dry)		3 m H ₂ O

Motor type	Linear magnetic drive
Nominal voltage	115 V 60 Hz / 230 V 50 Hz
Max. power consumption	4,4 W
Protection class	IP00

Ambient temperature	0 to 50°C
Media temperature	0 to 50°C
Weight	0,165 kg

Pump chamber	PP
Nozzle plate	PBT
Diaphragm	EPDM
Valve gasket	EPDM

Flow [ml/min]

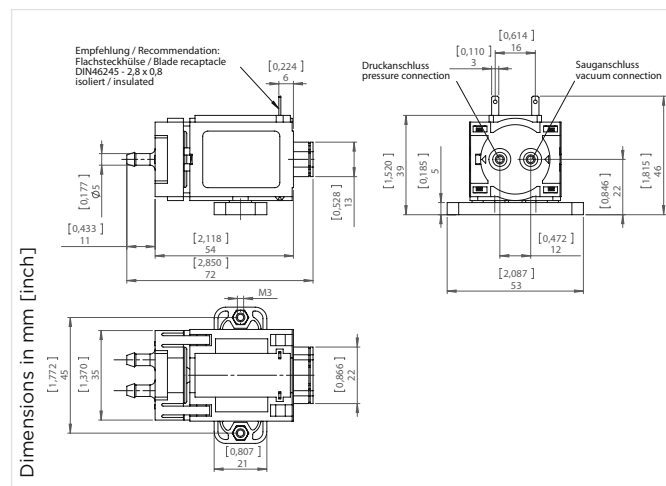
■ LMF4 115/230 V AC PP/PBT/EPDM

Pressure height [m H ₂ O]	Flow [ml/min]
0	300
1	250
2	220
3	190
4	150
5	100
6	50
7	20
8	0

Pressure height [m H₂O]

Linear Diaphragm Liquid Pump LMF4 12/24 V AC

Flow	300 ml/min
Pressure height	9 m H ₂ O
Suction height	3 m H ₂ O



HYDRAULIC DATA

Description	LMF4 12/24 V AC PP/PBT/EPDM	
Part number	12 V/50 Hz	9444310
	24 V/50 Hz	9443310
Max. flow	300 ml/min	
Max. continuous pressure height (flooded)	9 m H ₂ O	
Max. suction height (flooded)	5 m H ₂ O	
Max. suction height (dry)	3 m H ₂ O	

ELECTRICAL DATA

Motor type	Linear magnetic drive
Nominal voltage	12 V 50 Hz/ 24 V 50 Hz
Max. power consumption	3,9 W
Protection class	IP00

GENERAL DATA

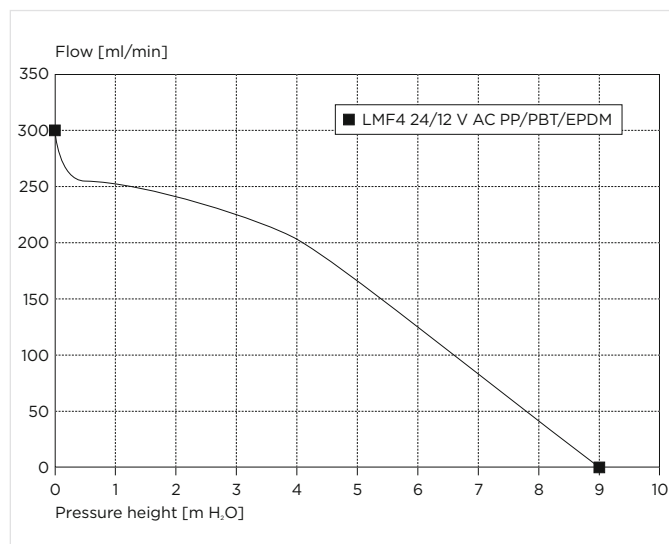
Ambient temperature	0 to 50°C
Media temperature	0 to 50°C
Weight	0,165 kg

WETTED PARTS

Pump chamber	PP
Nozzle plate	PBT
Diaphragm	EPDM
Valve gasket	EPDM

All listed values are average values and related to a Silicone tubing, OD 6,5 mm x ID 4,5 mm, Hardness Shore D 50. Tolerances depend on viscosity of media, temperature, position of pump/tubing. Dry running during self priming only.

FLOW CURVES



944... Stock programme

PUMP AND COMPRESSOR SOLUTIONS FOR OEMS WORLDWIDE

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