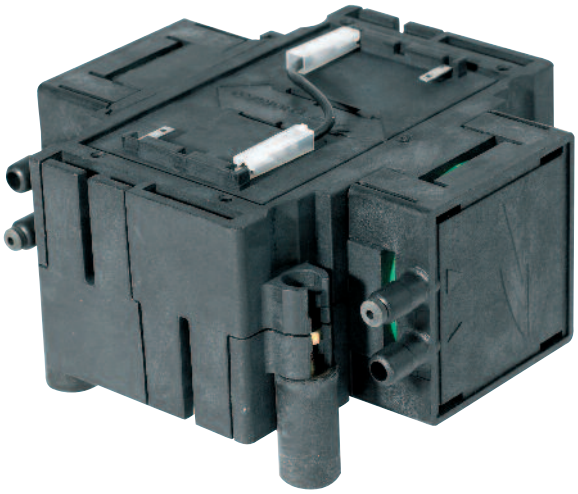
LINEAR

# Linear Diaphragm Pumps

## MODELS

LM 15
LM 22



OIL-LESS

## PRODUCT FEATURES

- Oil-less
- Maintenance free
- Long life
- Compact
- High flow
- Low power consumption

## TYPICAL APPLICATIONS

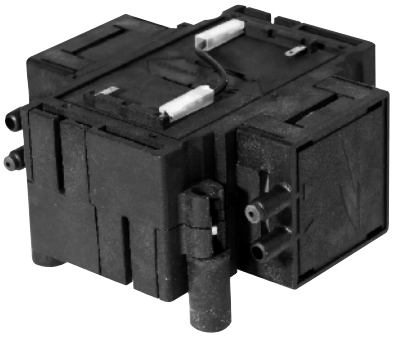
- Medical
- Aeration
- Gas circulation
- Gas/particle analysis
- Energy technology

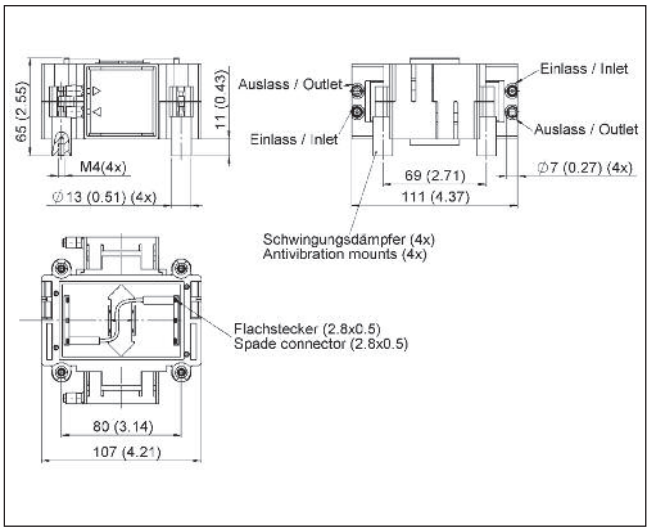
TÜV SÜD ISO 9001

THOMAS
*A Gardner Denver Product*

# Linear Diaphragm Pump LM 15 AC

| Flow at 100 mbar | 12,5 l/min |
|---|---|






| Pneumatic Data | | |
|---|---|---|
| Description | LM 15 230 V/50 Hz | LM 15 115 V/60 Hz |
| Part number | 6440002 | 6440006 |
| Flow at 100 mbar | 12,5 l/min | 12,5 l/min |
| Operating range | 30% to 300 mbar | 30% to 300 mbar |

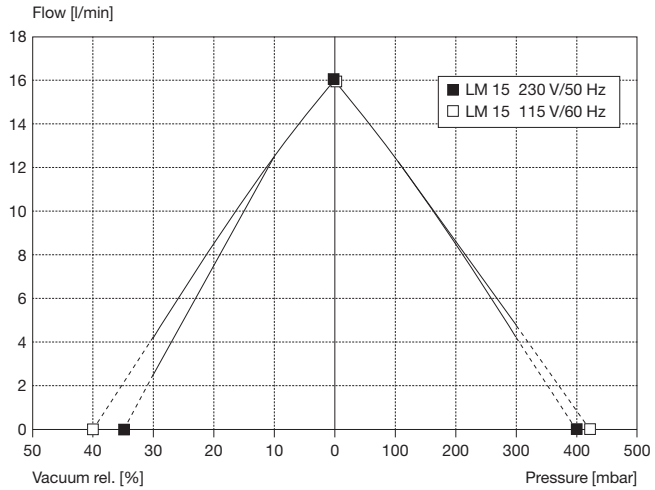
| Electrical Data | | |
|---|---|---|
| Motor type | Linear drive | Linear drive |
| Nominal voltage | 230 V/50 Hz | 115 V/60 Hz |
| Consumption max.* | 0,13 A/18 W | 0,26 A/19 W |
| Protection class | IP 20 | IP 20 |

| General Data | | |
|---|---|---|
| Ambient temperature | 10 to 50° C | 10 to 50° C |
| Weight | 0,95 kg | 0,95 kg |
| Inlet/Outlet diameter | 7 mm (4 x) | 7 mm (4 x) |

| Wetted Parts | | |
|---|---|---|
| Pump chamber | Polypropylene | Polypropylene |
| Nozzle plate | Polypropylene | Polypropylene |
| Diaphragm | EPDM | EPDM |
| Valve gasket | EPDM | EPDM |

* Between 0 and 100 mbar.
All listed values are measured at standard atmospheric conditions and parallel connection.

## Flow curves




**Option**

Valve gasket: FPM (Viton)
More antivibration mounts on request.
Position of inlet/outlet in 90° steps possible.

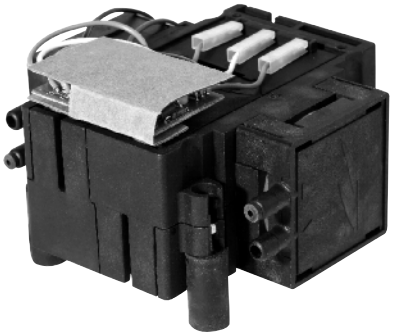
644... Stock programme

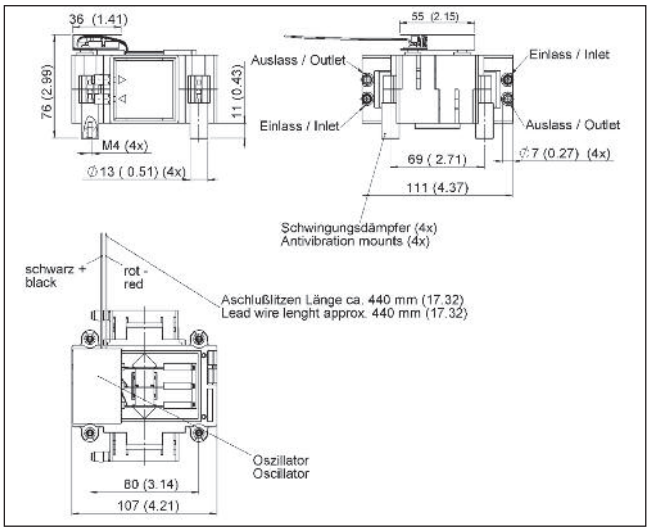


THOMAS
A Gardner Denver Product

# Linear Diaphragm Pump LM 15 DC

| Flow at 100 mbar | 11,5 l/min |
|---|---|






| Pneumatic Data | | |
|---|---|---|
| Description | LM 15 12 V DC | LM 15 24 V DC |
| Part number | 6440010 | 6440014 |
| Flow at 100 mbar | 11,5 l/min | 11,5 l/min |
| Operating range | 20% to 200 mbar | 20% to 200 mbar |

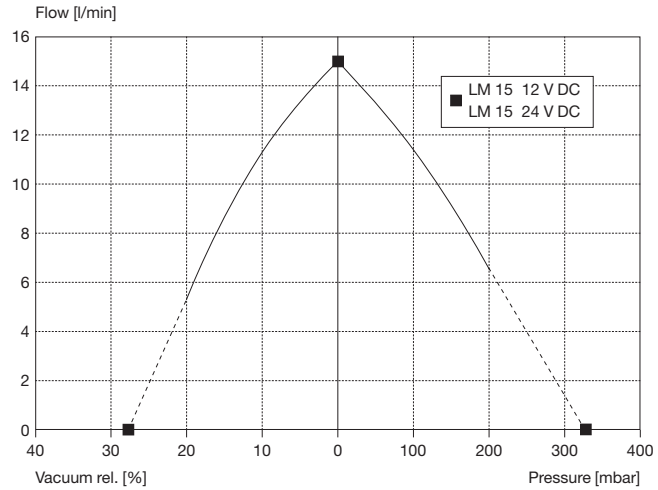
| Electrical Data | | |
|---|---|---|
| Motor type | Linear drive | Linear drive |
| Nominal voltage | 12 V DC | 24 V DC |
| Consumption max.* | 1,40 A/17 W | 0,70 A/17 W |
| Protection class | IP 20 | IP 20 |

| General Data | | |
|---|---|---|
| Ambient temperature | 10 to 50° C | 10 to 50° C |
| Weight | 0,95 kg | 0,95 kg |
| Inlet/Outlet diameter | 7 mm (4 x) | 7 mm (4 x) |

| Wetted Parts | | |
|---|---|---|
| Pump chamber | Polypropylene | Polypropylene |
| Nozzle plate | Polypropylene | Polypropylene |
| Diaphragm | EPDM | EPDM |
| Valve gasket | EPDM | EPDM |

* Between 0 and 100 mbar.
All listed values are measured at standard atmospheric conditions and parallel connection.
Pumps include oscillator part number: 8807 (standard).

## Flow curves




**Option**

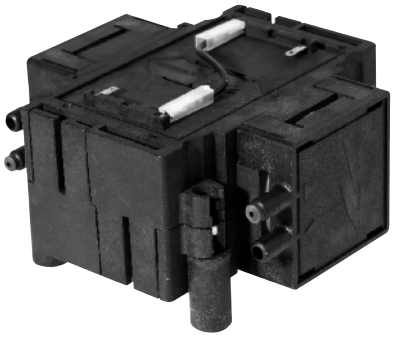
Valve gasket: FPM (Viton)
More antivibration mounts on request.
Position of inlet/outlet in 90° steps possible.

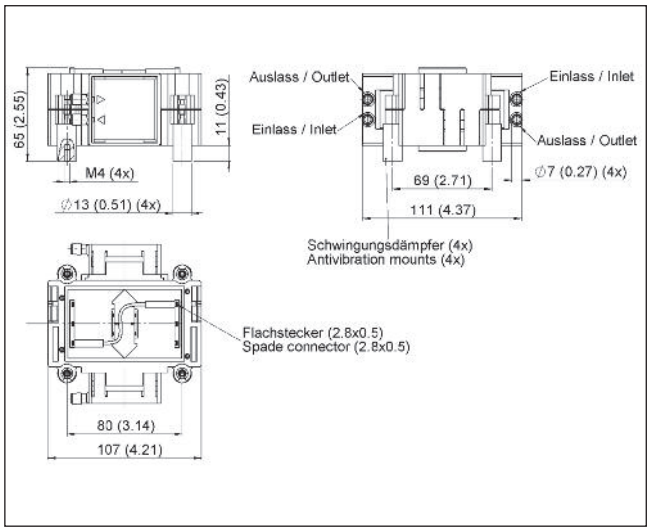


THOMAS
A Gardner Denver Product

# Linear Diaphragm Pump LM 22 AC

| Flow at 100 mbar | 16 l/min |
|---|---|






| Pneumatic Data | |
|---|---|
| Description | LM 22 230 V/50 Hz |
| Part number | 6540002 |
| Flow at 100 mbar | 16 l/min |
| Operating pressure range | 50 to 250 mbar |
| Operating vacuum range | 5% to 25% |

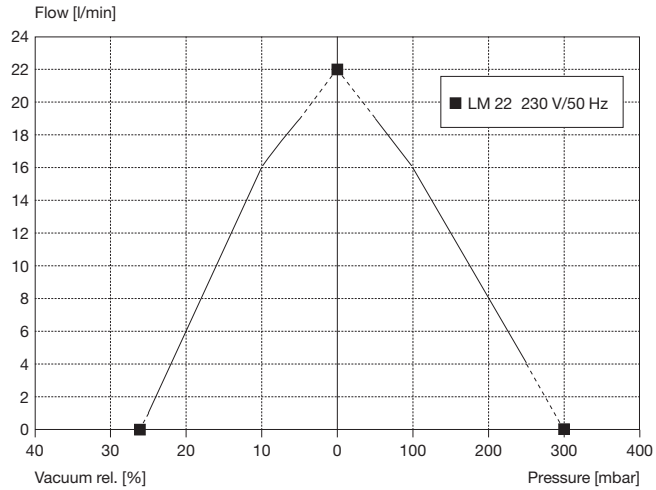
| Electrical Data | |
|---|---|
| Motor type | Linear drive |
| Nominal voltage | 230 V/50 Hz |
| Consumption max.* | 0,10 A/18 W |
| Protection class | IP 20 |

| General Data | |
|---|---|
| Ambient temperature | 10 to 50° C |
| Weight | 0,95 kg |
| Inlet/Outlet diameter | 7 mm (4x) |

| Wetted Parts | |
|---|---|
| Pump chamber | Polypropylene |
| Nozzle plate | Polypropylene |
| Diaphragm | EPDM |
| Valve gasket | EPDM |

* Between 0 and 100 mbar.
All listed values are measured at standard atmospheric conditions and parallel connection.

## Flow curves




**Option**

654... Stock programme

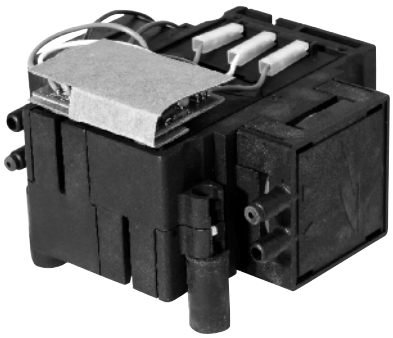
Valve gasket: FPM (Viton)
More antivibration mounts on request.
Position of inlet/outlet in 180° steps possible.

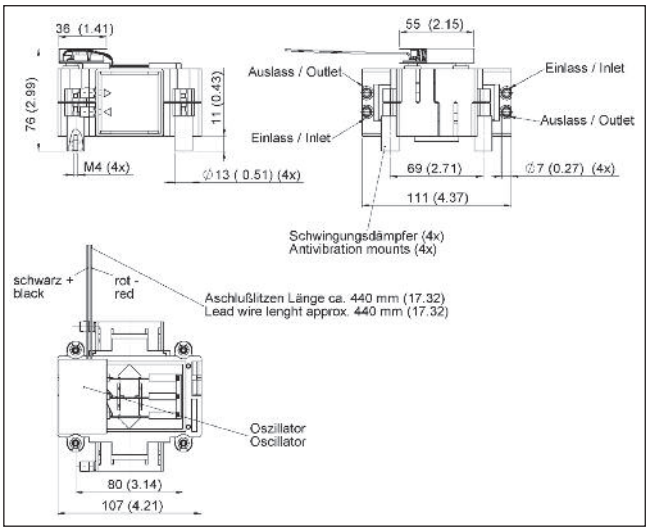


THOMAS
A Gardner Denver Product

# Linear Diaphragm Pump LM 22 DC

**Flow at 100 mbar** **15 l/min**






| Pneumatic Data | | |
|---|---|---|
| Description | LM 22 12 V DC | LM 22 24 V DC |
| Part number | 6540010 | 6540014 |
| Flow at 100 mbar | 15 l/min | 15 l/min |
| Operating range | 20% to 200 mbar | 20% to 200 mbar |

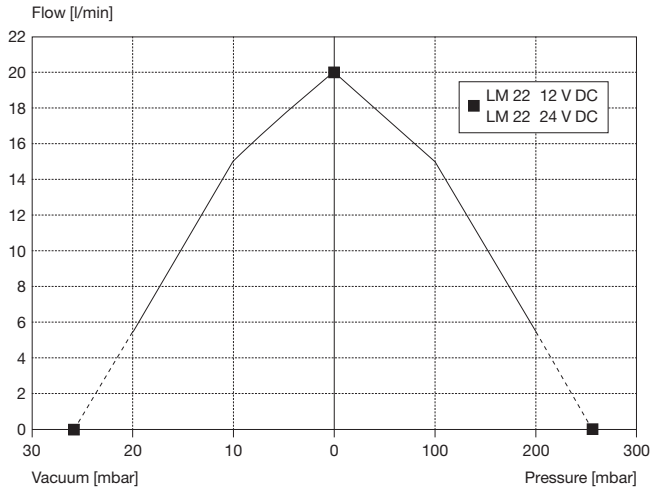
| Electrical Data | | |
|---|---|---|
| Motor type | Linear drive | Linear drive |
| Nominal voltage | 12 V DC | 24 V DC |
| Consumption max.* | 1,60 A/18 W | 0,80 A/18 W |
| Protection class | IP 20 | IP 20 |

| General Data | | |
|---|---|---|
| Ambient temperature | 10 to 50° C | 10 to 50° C |
| Weight | 0,95 kg | 0,95 kg |
| Inlet/Outlet diameter | 7 mm (4x) | 7 mm (4x) |

| Wetted Parts | | |
|---|---|---|
| Pump chamber | Polypropylene | Polypropylene |
| Nozzle plate | Polypropylene | Polypropylene |
| Diaphragm | EPDM | EPDM |
| Valve gasket | EPDM | EPDM |

* Between 0 and 100 mbar.
All listed values are measured at standard atmospheric conditions and parallel connection.
Pumps include oscillator part number: 8807 (standard).

## Flow curves




**Option**
Valve gasket: FPM (Viton)
More antivibration mounts on request.
Position of inlet/outlet in 90° steps possible.

654... Stock programme



THOMAS
A Gardner Denver Product

Printed in Germany.
Art.-Nr.: 17000096 10/2014HMU
ClimatePartner
printed climate-neutrally

THOMAS
*A Gardner Denver Product*

Gardner Denver Thomas GmbH
Benzstraße 28 · Gewerbegebiet Nord · D-82178 Puchheim
Phone: +49 89 80900-0 · Fax: +49 89 808368
e-Mail: thomas.de@gardnerdenver.com · http://www.gd-thomas.com