

Product description
Gear pumping
unit AD-M

APPLICATION AND DESIGN

The gear pumping unit AD-M is predominantly used in medium-sized machine building applications for single-line centralized lubrication systems. Substantially consisting of a gear pump with AC motor, it can be supplied with and without reservoir.

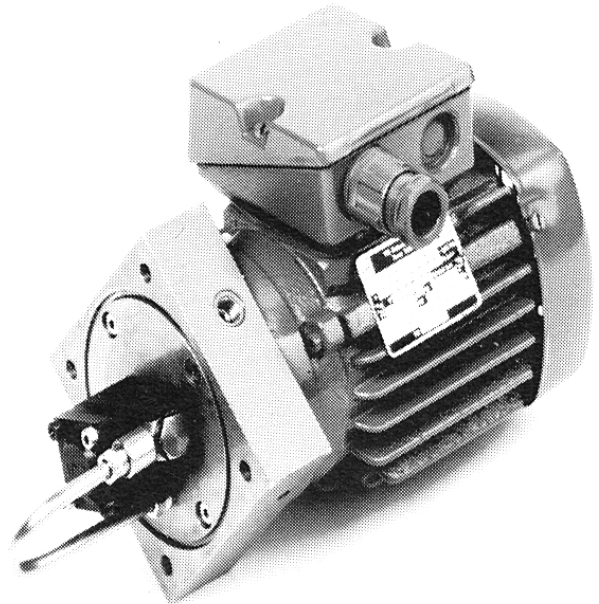
Pump and motor are firmly screw-connected with each other. For attachment to the tank, the gear pump features a flange with inserted seal ring, fastening as such being implemented by means of 4 screws.

The reservoir made from oil- and impact-resistant 6-mm-thick plastic has 2 mounting flanges on either side of its backside. Oil gages serve to indicate the oil level.

Each of the fastening threads comes with a metallic insert in the plastic material, thereby ensuring permanent durability and a long service life even in case of frequent screwing in and out.

The pump is equipped with a relief valve to relieve the pressure line when the pump motor is cut out. On reaching specified pressure, a pressure relief valve opens and thus keeps any detrimental overpressure away from the pump.

An air-relief valve prevents air from being introduced into the pressure line and enables quick venting of the gear pump during system startup.



Gear pumping unit type AD-M without reservoir

PRODUCT CHARACTERISTICS

- Gear pump technique
- Lubricants: oil, liquid grease
- Discharge pressure max. 30 bars
- Surface signal grey RAL 7004

PRINCIPLE OF OPERATION

After the electric current supply has been switched on, the gear pump starts immediately delivering lubricant. The integrated pressure relief valve opens at a pressure of more than 3 MPa (30 bar) and thus prevents the gear pump from being overloaded.

After the electric current supply has been switched off, a residual pressure of 0.08 MPa (0.8 bar) is maintained – via the relief valve - in the lubricant line.

The running and pause time of the gear pump/the gear pumping unit depends on the number of metering elements (number of lubrication points), the line length, the viscosity of the lubricant etc. The pressure increase and decrease can be monitored by a pressure switch (does not belong to the extent of supply), which is installed at the end of the lubricant line.



A. TYPE AGGREGATE

Code

ADM

B. NUMBER OF OUTLETS 1 / DELIVERY RATE

Code

Delevery rate 0.06 liters/min	06
Delevery rate 0.12 liters/min	01
Delevery rate 1.0 liters/min	10
Delevery rate 1.2 liters/min	12
Delevery rate 2.0 liters/min	20

C. REVISION

Code

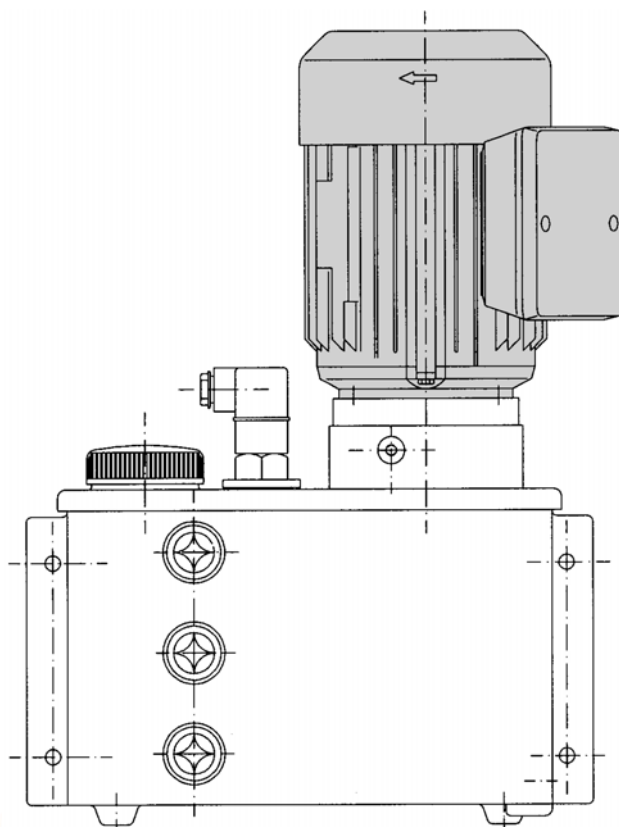
Status A

A

D. KINDS OF DRIVE

Code

Three-phase A.C. motor 400/460V, 50/60 Hz, 0.18 kW (3000 / 3600 r.p.m.)	01
Three-phase A.C. motor 400/460V, 50/60 Hz, 0.18 kW (1500 / 1800 r.p.m.)	02
Three-phase A.C. motor 500V, 50 Hz, 0.18 kW (1500 r.p.m.)	03
A.C. motor 230V, 50 Hz, 0.18 kW (3000 r.p.m.)	05

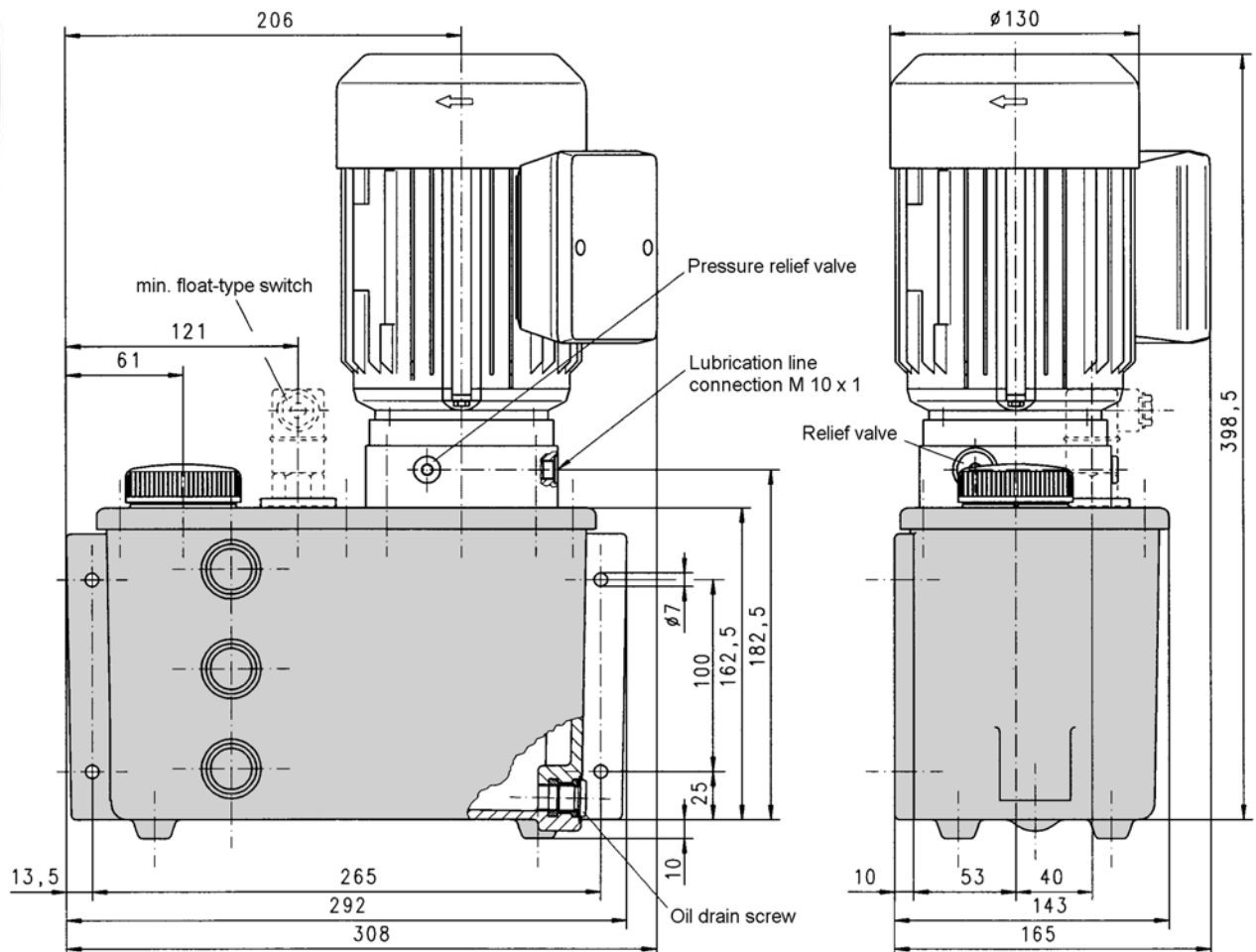


E. RESERVOIR

Code

without
4 liters, plastic
12 liters, aluminium

O
A
B



Pump with reservoir, 4 liters plastic

F. ACCESSORIES

Code

without
Float-type switch for 4 liters, 2 switching points, 24 V DC
Float-type switch for 4 liters, 2 switching points, 250 V AC
Float-type switch for 12 liters, switching point 160 mm
Float-type switch for 12 liters, switching point 175 mm
Suction filter

00
01
02
03
04
05

EXAMPLE OF ORDER

Code											
A	D	M	0	6	A	0	2	A	0	1	
Type of aggregate AD-M Code: ADM											
Number of outlet 1 / Delivery rate Delivery rate 0.06 liters/min Code: 06											
Revision Status A Code: A											
Kinds of drive Three-phase A.C. motor, 400/460V, 50/60Hz, 0.18kW (1500/1800 r.p.m.) Code: 02											
Reservoir 4 liters, plastic Code: A											
Accessories Float-type switch for 4 liters, 2 switching points, 24 V DC Code: 01											



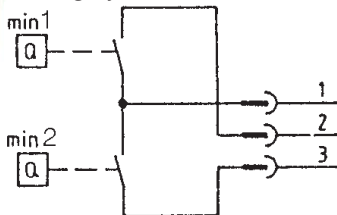
SPECIFICATION

Output volume : _____ 0.06; 0.12; 1.0; 1.2; 2.0 Liter/min
 Feed pressure : _____ 3 MPa (30 bar)
 Discharge pressure : _____ 0.08 MPa (0.8 bar)
 Reservoir volumen : _____ 4 and 12 liters
 Suction height : _____ 500 mm
 Usable lubricants based on mineral oils : oil _____ 21 to 1800 mm²/s⁻¹, service viscosity
 liquid grease _____ please consult us
 Ambient temperature : _____ - 20°C to + 60°C
 Pressure connection : _____ M10x1 - Ø 6 for pipe male fitting according to DIN 3871 and olive according to DIN 3862
 Suction connection : _____ G 1/8
 Motor data : _____ Three-phase A.C. motor 3/AC 230V/400V 50/60Hz 0.91A/0.52A 0.18kW
 _____ Three-phase A.C. motor 3/AC 400V/460V 50/60Hz 0.52A/0.51A 0.18kW
 _____ Three-phase A.C. motor 3/AC 500V 50HZ 0.46A 0.18kW
 _____ A.C. motor 3/AC 230V 50Hz 1.5 A 0.18kW

Float-type switch 4 liters

Type of contact : _____ 2 NO (reed contact)
 Switching voltage : _____ 48V, DC AC / 250V, DC AC
 Constant current : _____ max. 0.5A
 Switching capacity : _____ 10VA / 30VA
 Utensil socket : _____ 4 x 90° rotatable (pin-and-socket connector A DIN 43650)

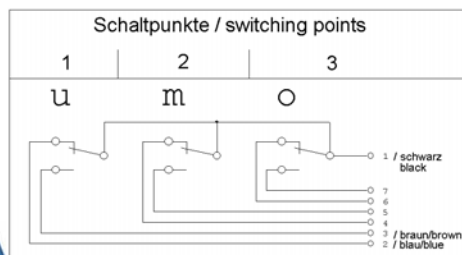
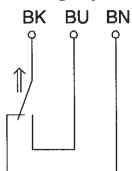
Switching symbol :



Float-type switch 12 liters

Type of contact : _____ 1 NO (reed contact)
 Switching voltage : _____ 250V, DC AC
 Constant current : _____ 1.0A
 Switching capacity : _____ 60VA
 Switching function : _____ change-over switch
 Mode of connection : _____ clamping border in the connection head

Switching symbol :



DELIMON

Headquarter

Arminstraße 15
D-40227 Düsseldorf
PO Box 10 20 52
D-40011 Düsseldorf
Phone: +49 211 7774 0
Fax: +49 211 7774 210
info@delimon.de
www.delimon.de

DELIMON

Office & Plant Beierfeld

Am Bockwald 4
D-08344 Grünhain-Beierfeld

DELIMON

Office Austria

Am Spitz 2-3 / Schloßhofer Str. 4-6
Stiege 4, Top 20
A-1210 Vienna
Phone: +43 1 585 66 17
Fax: +43 1 585 66 17 50
info@delimon.at
www.delimon.at

LUBRIMONSA

Spain

Avda. Txori-Erri 38
48150 Sondica - (Vizcaya)
Teléfono: +34 94 453 20 00
Fax: +34 94 453 25 00
sales@lubrimonsa.es

DELIMON-Denco Lubrication

DELIMON-Cooling

United Kingdom

Ramsden Court, Ramsden Road
Rotherwas Industrial Estate
Hereford, HR2 6LR
Phone: +44 (0) 1432 365 000
Fax: +44 (0) 1432 365 001
info@delimon.co.uk
www.delimon.co.uk

BIJUR Products, Inc.

France

BP 50
ZI de Courtabœuf
5, Avenue de l'Atlantique
91942 Les Ulis Cedex
Tél.: +33 1 692 985 85
Fax: +33 1 690 776 27
bijur@bijur.fr

*Für reibungslose Bewegung
For smooth motion*

