



Fig.1



Fig.2

**Centralized Lubrication System for grease**  
**Special execution**

Progressive system for grease

**Application:**

Customer !XXX Milano  
Lubrication system for 64 points (SKF ball bearings)  
of an Horizontal Belt Filter

**Type of pump:**

GMF-C/7V/97/M/0/0/8/0/0/0/V/1/X

**Type of progressive distributors :**

VPB-BN

**Special executions:**

- 1) Stainless steel AISI 304 cabinet:
  - External dimensions : 600x1000x400mm;
  - Double door, electric panel and hydraulic components (Fig. 1÷9)
- 2) Electric panel for pump working's check and lubricant's level check (Fig. 2÷5),
- 3) Woerner stainless steel progressive distributors series VPB-BN

- Subject to changes without notice -



Fig.3

Details of control lights

- Power
- Failure: lubricant level or pump's motor over-tension

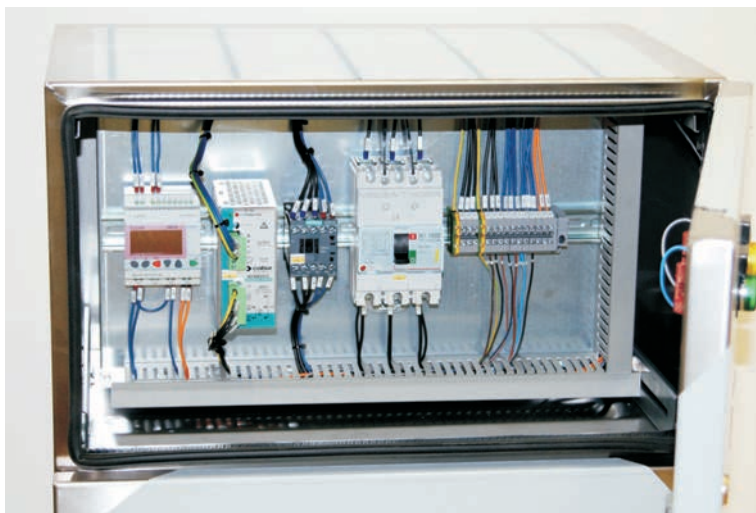


Fig.4



Fig.5

- Con riserva di modifiche senza preavviso -



Fig.6

Details of pump's housing equipped with removable grease tray (for grease collection, from checking valves, in case of overpressure on pumping elements).



Fig.7

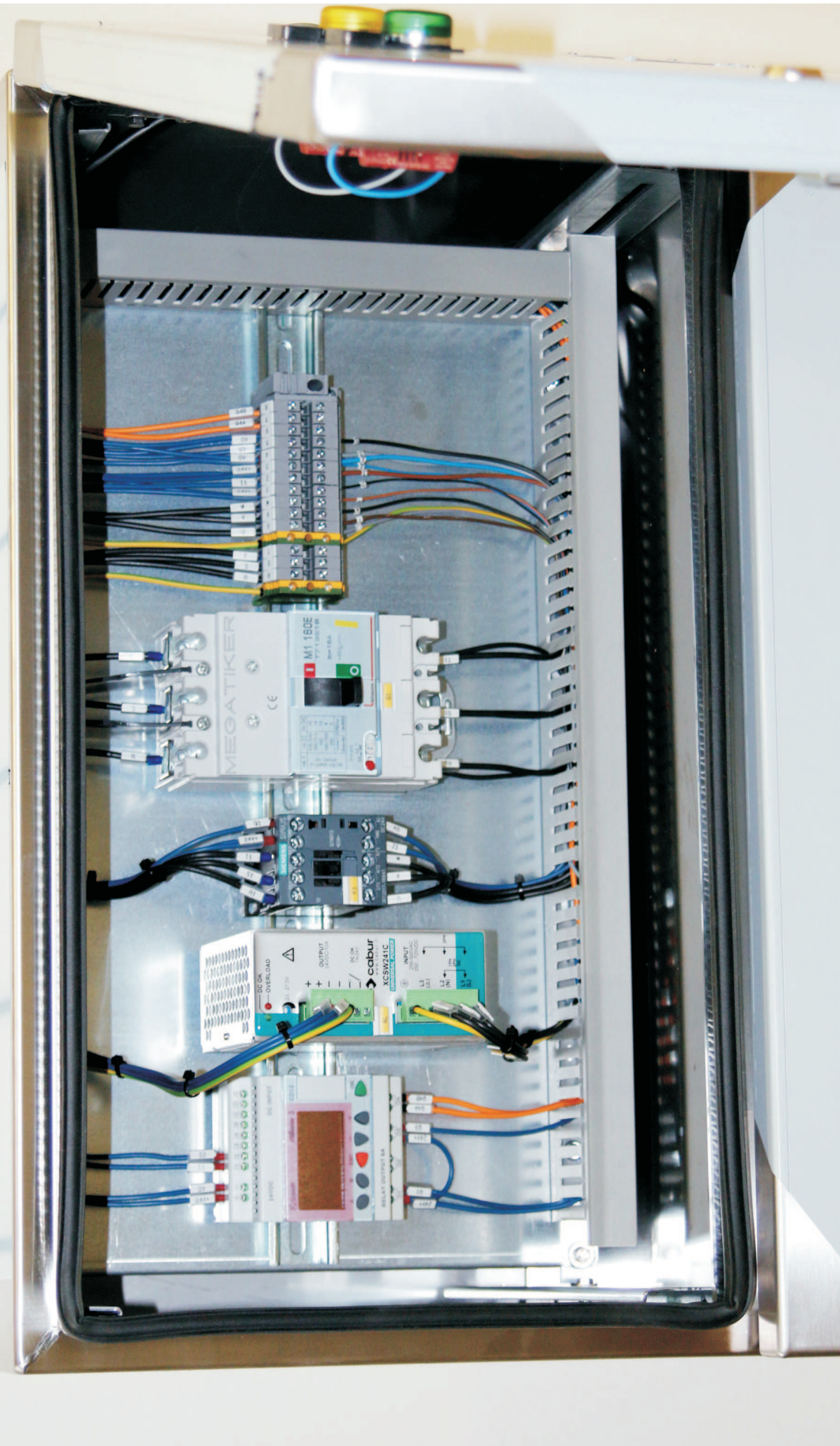


Fig.8



Fig.9

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SCHMIERANLAGEN

ELECTRIC PANEL

SE010714\_FL Smidth

Drawing 3 Of 3

Follows -

Date 05/02/2014

Designer 2M

LM 140513

1 2 3 4 5 6 7 8

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A

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C

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Functional Parameters Screen

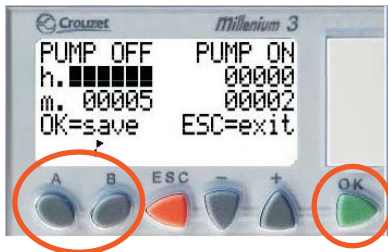


Fig. 4

Pump On Screen



Fig. 5

Pump Off Screen



Minimal Level Fault Signal



Electric Fault Signal



**Programming and set-up instructions:**

**- Functional parameter modification**

Functional parameters which can be changed are:

- 1) Pump active time;
- 2) Pump inactive time.

To modify parameters carry out following operations:

- Press A+B for 3 seconds at least to activate changing mode;
- Press + o - to select the parameter you need to modify (PUMP ON: hours/minutes; PUMP OFF: hours/minutes);
- Press OK to confirm the choice;
- Press + o - to increase or decrease the value;
- Press OK to confirm the selected value;
- Press ESC to exit the changing mode and return to the previous screen .

Full scale values of minutes is presetted in a range from 1 to 59.

Full scale values of hours is presetted in a range from 0 to 32.767.

The system automatically returns to the previous screen after 3 minutes, from the access to the changing mode, without an exit confirmation (ESC).

**Only a qualified person can change the functional parameters.**

**- Fault signals**

The system gives a fault signal if:

- grease reaches the minimal level;
- electric fault of either pump's motor or contactor.

Alarm output O4 (OUT4) is presetted NC, therefore the signal is interrupted in case of fault. It is possible to use output O3 (OUT3) as NO, the signal is closed in case of fault.

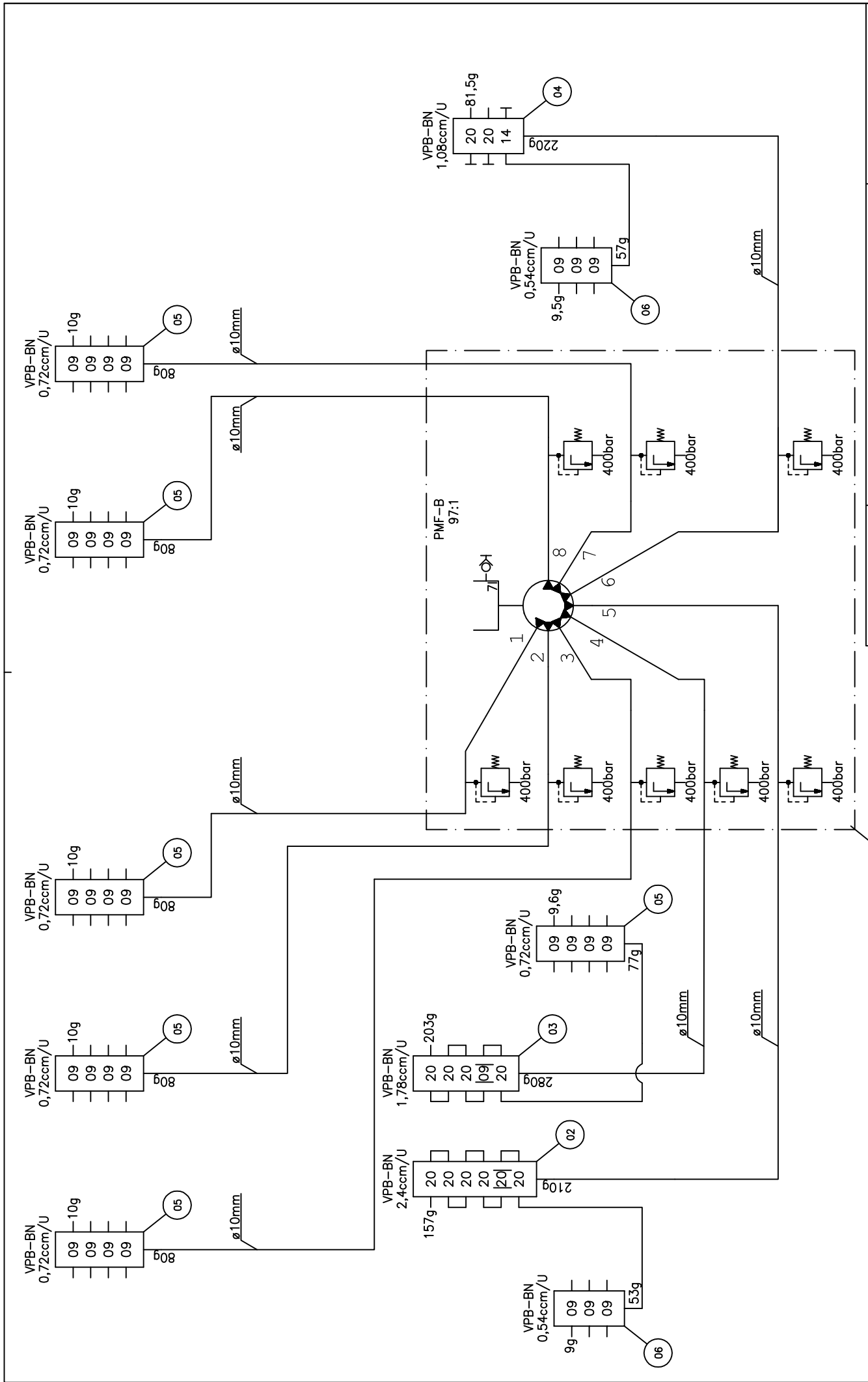
**- Reset ( only contactor)**

After checking and resolving the fault problem, press ESC.

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Änderungen vorbehalten!

Datum	17.01.2014
Name	cep
Ersatz für	

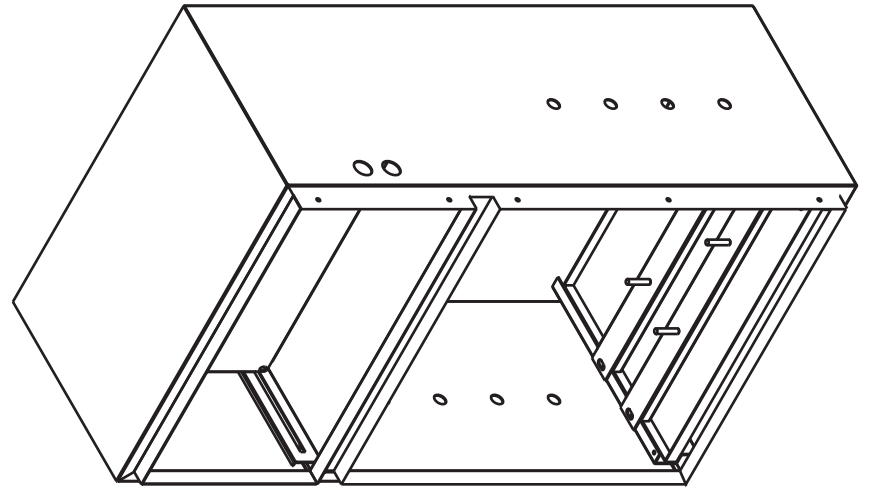


## Grease quantity and Regulation pumping elements

Pumping element	Metered quantity gr	Regulation pumping element	Metered volume %	Type of Progressive Distributor	Parts List Position LM140513	Drawing position 310141.2764-3A	Lubrication points type	Quantity	Points
1	80	5 notchs	27%	VPB-BN/8/0/0/0/09/09/09/V	25	05	8x Ø40	10 gr	8
2	80	5 notchs	27%	VPB-BN/8/0/0/0/09/09/09/V	25	05	8x Ø40	10 gr	8
3	80	5 notchs	27%	VPB-BN/8/0/0/0/09/09/09/V	25	05	8x Ø40	10 gr	8
4	280	max (18 notchs)	100%	VPB-BN/10/0/0/0/0/20/20/20/V	23	03+05	8x Ø40 + 1xØ200	(8x10)+200	9
5	210	14 notchs	78%	VPB-BN/12/0/0/0/0/20/20/20/V	22	02+06	6x Ø40 + 1xØ180	(6x10)+150	7
6	220	14 notchs	78%	VPB-BN/6/0/0/0/0/14/20/20/V	24	04+06	6x Ø40 + 2xØ110		8
7	80	5 notchs	27%	VPB-BN/8/0/0/0/09/09/09/V	25	05	8x Ø40	10 gr	8
8	80	5 notchs	27%	VPB-BN/8/0/0/0/09/09/09/V	25	05	8x Ø40	10 gr	8
								<b>Total</b>	<b>64</b>

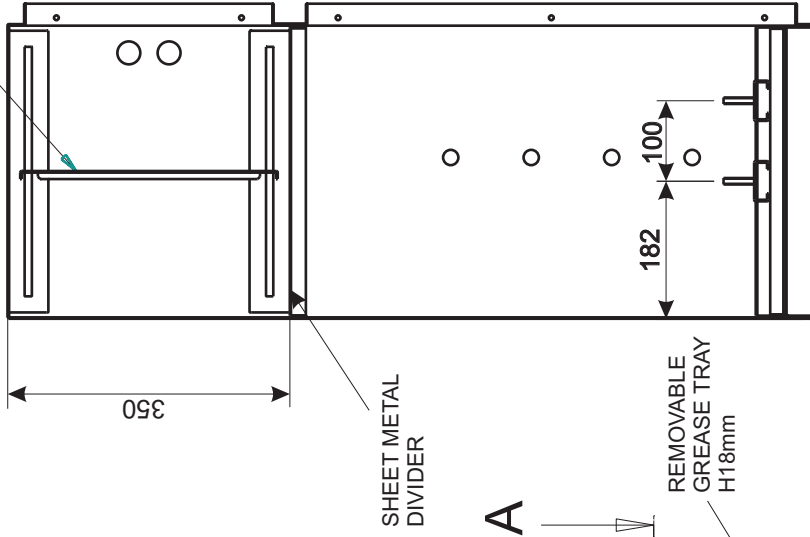
Required grease quantity - Annual requirements	
Type of bearing	gr
Bearings Ø40 mm	10
Bearings Ø110 mm	80
Bearingsi Ø180 mm	150
Bearings Ø200 mm	200
<b>Total</b>	<b>64</b>

Flow for each pumping element: 1,12 cm<sup>3</sup>/min  
 Pump's working time: 250 min  
 For example: 10 lubrication cycles per year - 25 minutes  
 For example 250min \* 1,12 cm<sup>3</sup> = 280 gr

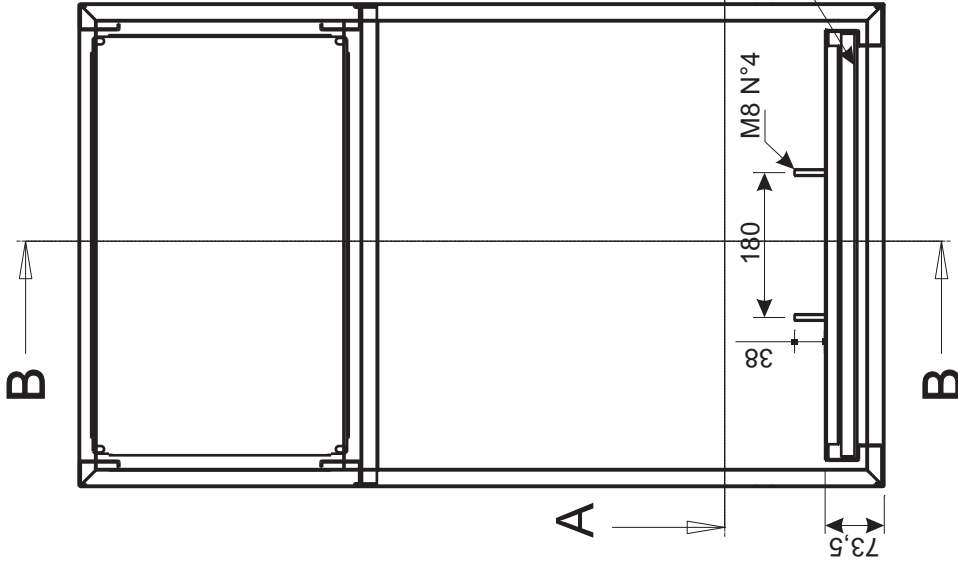


SECTION VIEWS WITHOUT DOORS  
AND SHEET METAL BASES H100

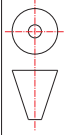

SHEET METAL  
ADJUSTABLE IN DEPTH  
522mm X 320 mm



SECTION B-B



SECTION A-A

n°	Descrizione modifica	data	autore
	Special stainless steel cabinet MWM Code F904701 Drawing <b>DQ 034114</b>		
	 Mat.: Stainless steel AISI304		
	 SCHMIERANLAGEN	Designer: Claudio Arezzi Date: 17/01/2014	Sheet 2/2

Special stainless steel cabinet  
MWM Code F904701  
Drawing **DQ 034114**

Mat.: Stainless steel AISI304

Designer: Claudio Arezzi  
Date: 17/01/2014



**Test Report Nr.** 1XX-VV  
**Unit type:** MWM-LM 140153

**Start test:** time: \_\_\_\_\_ date: \_\_\_\_\_  
**Stop test:** time: \_\_\_\_\_ date: \_\_\_\_\_  
**Total testing time:** \_\_\_\_\_

**Customer:** Customer-Milano  
**Order Nr. :** 1  
**Date of the order:** 17.12.2013  
**Requested delivery:** 20.02.2014

**Components:**

- Woerner Pump type:  
PMF-B.B/7V/97/M/0/0/8/0/0/0/V/1/0  
**Registration Nr: 261914-\_\_ 2014/2**

**Accessories:**

- Binary level switch ON-OFF type:  
Li5142 L=273 mm  
with climatic Tube E43100L=264 mm

- Control and monitoring el. unit:  
MWM LM 140515 with PLC  
PLC software: F305060

- Special stainless steel cabinet  
MWM Design DQ 034114



**Test procedure:**

**Functional checks:**

- 1) Check electrical wirings
- 2) Pump Working check
- 3) Check Level switch
- 4) PLC Software running
- 5) Fault signal:
  - level fault
  - motor relais

**Notes:**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Test Operator:**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

CG  
 DP  
 MN