

# Miniwrap 100

2015

## User's Guide



## POMI Industri ApS

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Updated 06.05.2024

## **1. Pomi Miniwrap 100**

Before using the Miniwrap 100, please take care to carefully read these instructions. The operator should have sufficient knowledge of the design and operation of the wrapper and know how to maintain it properly as this is essential to safe operation of the wrapper.

Thank you for choosing a POMI Miniwrap 100, you may use it for straw and silage.

If you want to use it for other crops, please contact the manufacturer to have his written approval.

## **2. Safety details**

### **FOR YOUR OWN SAFETY**

- **Never move about on or work on the machine unless the tractor engine has been stopped and the control box emergency stop button has been activated.**
- **Do not allow unauthorised persons within a distance of 10 metres from the machine when it is in operation. There are two reasons for this: partly the machine may suddenly move and partly oil may squirt from a damaged tube.**
- **All lamps must function as provided in your national road code.**
- **Drive sensibly when moving the machine as fierce driving strains both the wrapper and the baler. POMI disclaims any liability for damage to the baler.**
- **Remember to re-torque the wheels and wheel axle.**
- **Avoid hitting kerbstones and bumps at high speeds.**

**3. EU Declaration of Conformity**

Manufacturer: POMI Industri ApS  
Abildvadvej 5, Thorup  
DK-9610 Nørager

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Tel. +45 98 55 20 00  
Company

Declares THAT

Machine: Miniwrap 100  
Brand

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serial no., year

has been produced in conformity with the provisions of Council Directive 89/392/EEC of 14 June 1989 on the mutual approximation of the laws of the Member States relating to machinery as amended on 20 June 1991 (91/368/EEC) (93/44/EEC) and (93/68/EEC) with special reference to Annex I of the Directive relating to material safety and health requirements in connection with the design and manufacture of machinery.

Especially:

has/have been manufactured in conformity with the following harmonised standards (subart. 2 of Article 5 of the Directive)

has/have been manufactured in conformity with other standards and/technical provisions.

---

Signature

---

Date:

Poul Mikkelsen  
Managing Director  
POMI Industri ApS

#### **4. Identification of the machine**

Please state the serial number of the machine when ordering spare parts. You will find the serial number on the type plate on the left side of the machine (see ill.).



Serial no. \_\_\_\_\_



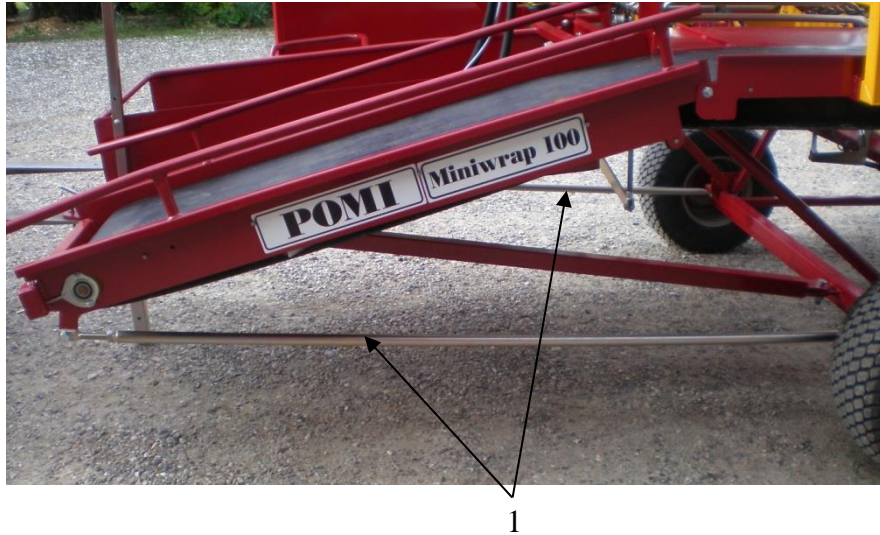
## 5. Lifting the wrapper



If you need to lift the wrapper using a crane, mount the straps as shown in the illustrations. In this position the machine is in a reasonable state of equilibrium.

## **6. Setting/adjusting the wrapper**

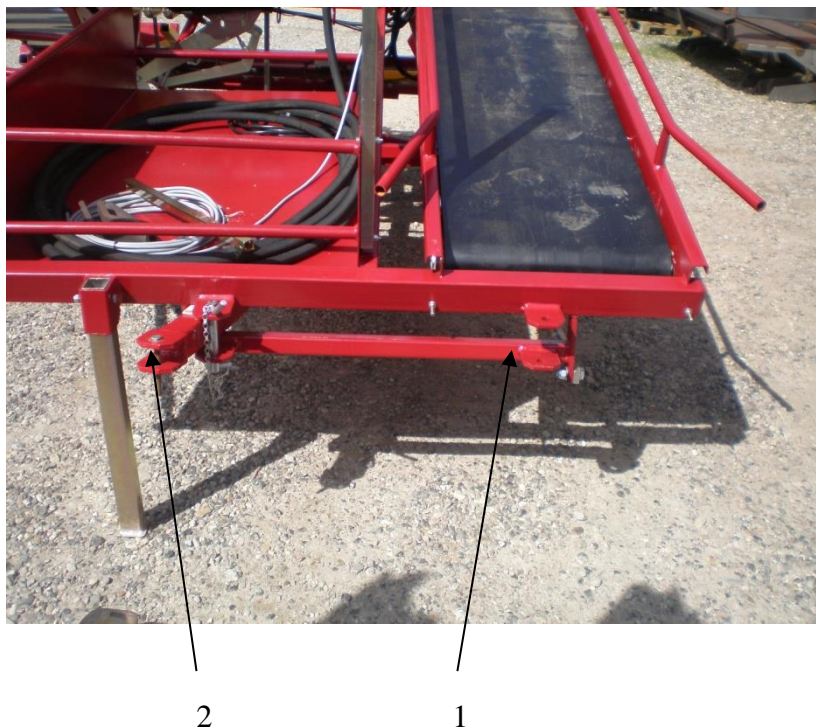
### **6.1. Adjusting the front bed**



When installing the wrapper on the baler, it is important to ensure as high a pressure on the baler as possible, preferably so the bales start to glide up as soon as they run off the baler. This ensures the smallest possible pitch on the belt and prevents the bales from stacking up.

Adjust the height of the front wrapper table at the two connecting rods (1) to bring the wrapper table to a horizontal position or to a slight forward tilt.

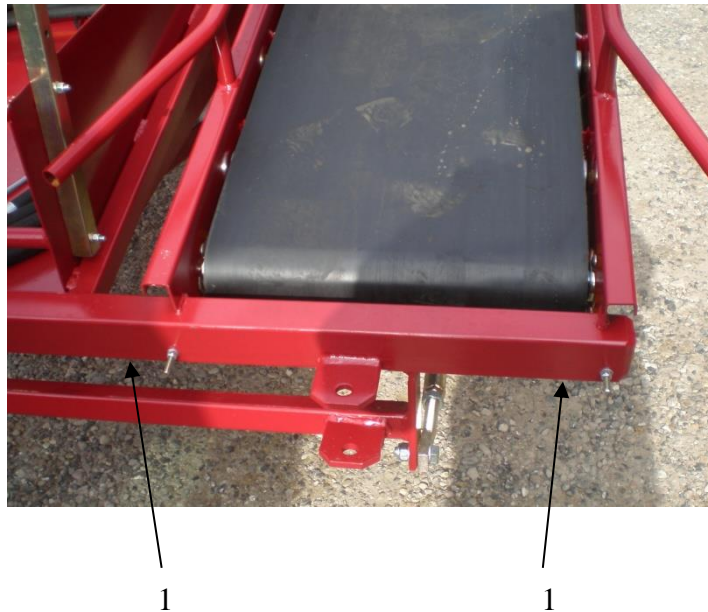
## 6.2. Shifting the drawbar



The drawbar can be set in 2 positions: Pos. 1 is working position. Pos. 2 is road haulage for centre mounted balers.

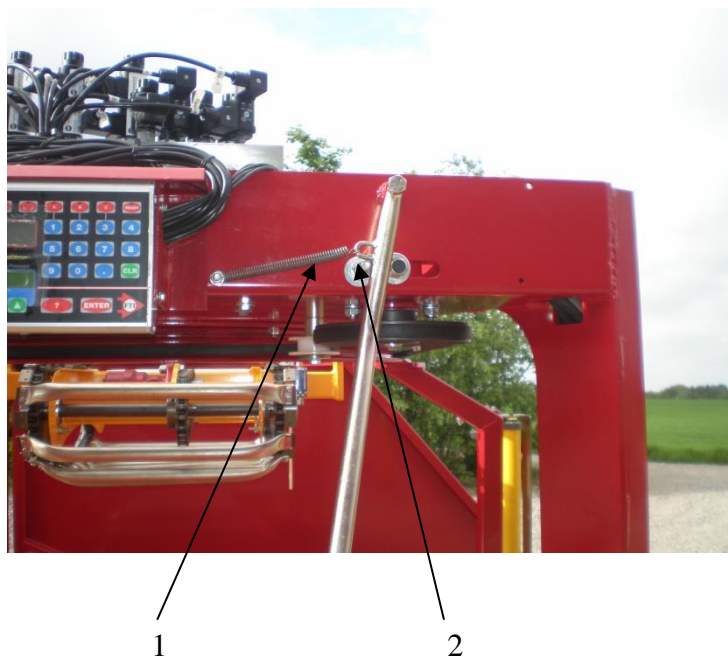


### 6.3. Adjusting the belt



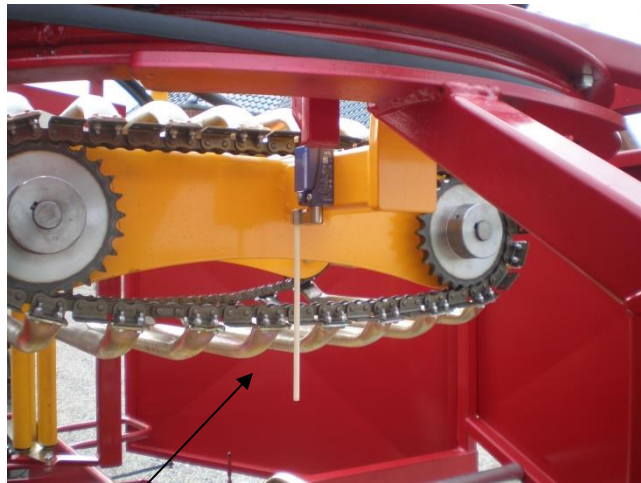
Adjust the belt sideways by slackening the bearings; next adjust the two screws so the belt runs across the middle of the rollers.

### 6.4. Bale stop on belt



The arm of the bale stop can be adjusted by the forward length: move the bolt (1). The sensor (2) can be moved forwards and backwards in the oblong hole to shift the location where the bale stops relative to the wrapper section.

### 6.5. Wrapper bale stop sensor



1

The sensor arm (1) can be moved stepwise by loosening the screw holding the white rod. Adjust and retighten.

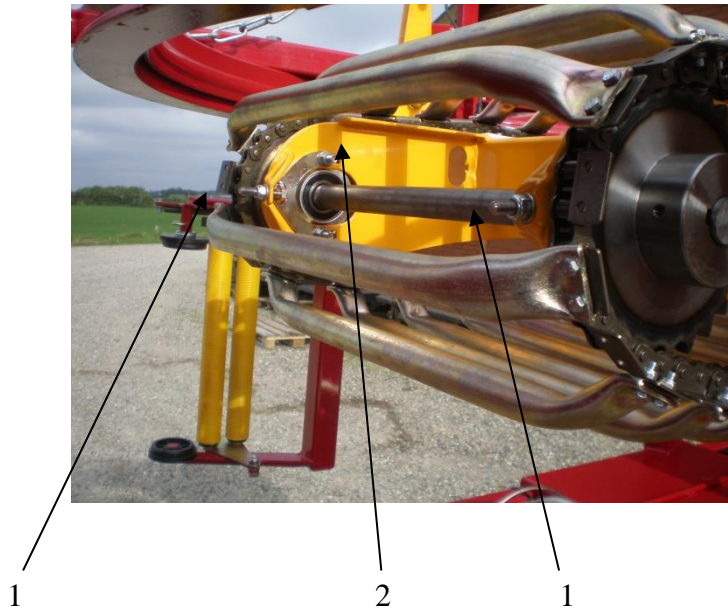
### 6.6. Belt tensioner



1

Tension the belt by shifting the tensioning wheel (1)

### 6.7. Adjusting the baler table chains



Adjust the chains by slackening the bearings at the tensioning end of the chains. Tension the chains using the screw (1). It is recommended to ensure as slack a tensioning as possible; however, the pushers must not touch the yellow plate (2).

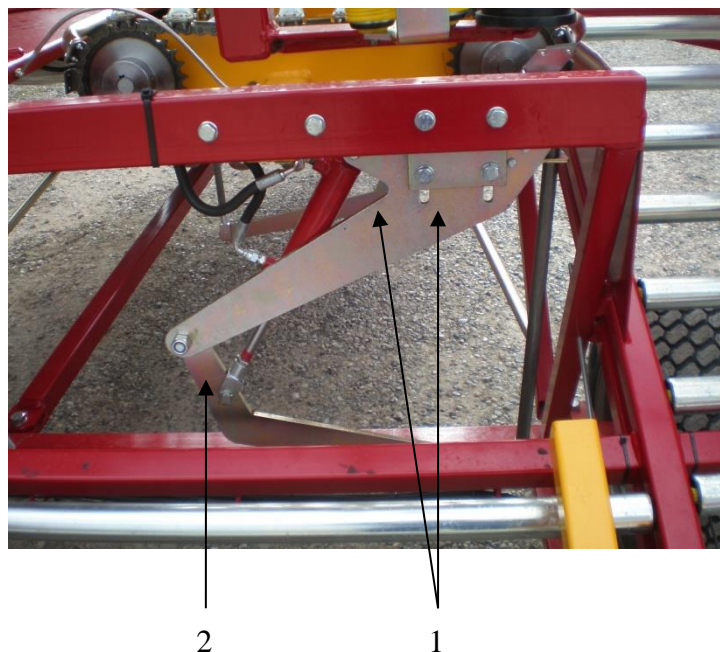
### 6.8. Adjusting the pressure on the upper part



Tension the springs if the baler table cannot retain the bales.

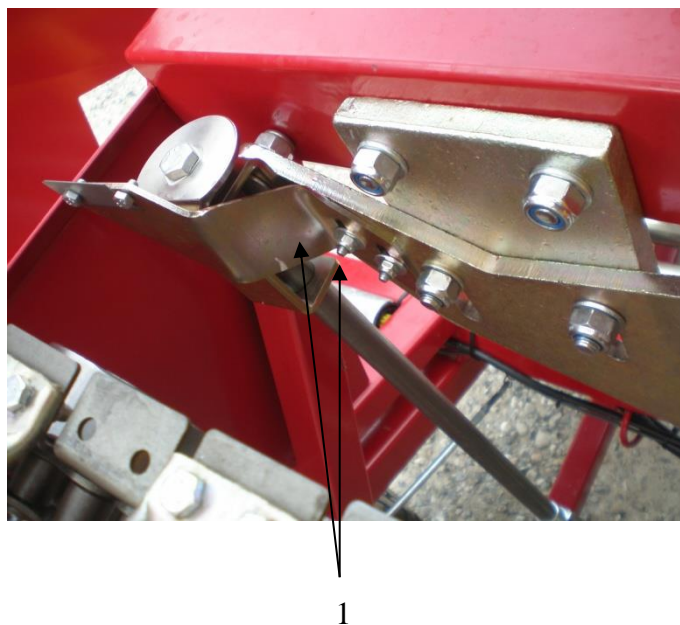


### 6.9. Gripper adjustment



The gripper can be moved in the oblong holes (1). The travel of the gripper can be adjusted on the cylinder fork (2).

### 6.10. Knife adjustment



The knife can be adjusted in the oblong holes (1)

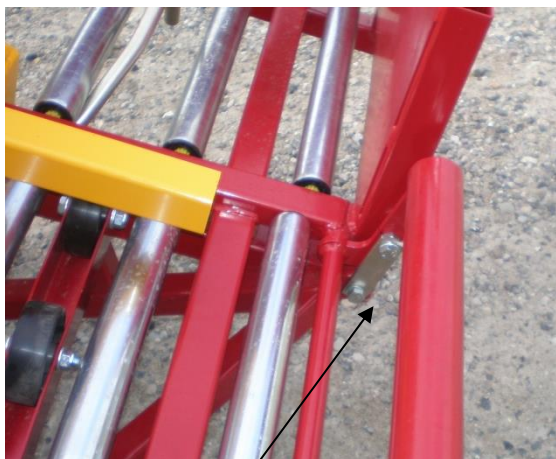
### 6.11. Adjusting the collector table bale sensor



1

Adjust the sensitivity of the bale sensor by shifting the plate (1).

### 6.12. Rear door adjustment



1



2

It is recommended to adjust the position of the rear door (see ill.). Adjust the position on the cylinder fork (2).



### 6.13. Sensor overview

Sensor 1 Ballstop on belt.

Stops belt when activated.

Sensor 2 Load arm out.

Turns off when the load arm is out, turns on and keeps light when the arm moves.

Sensor 3 Load arm in.

Turns on when load arm is in. Turns off when arm is on its way out.

Sensor 4 Balestop in wrapper.

Activates when a bale comes in.

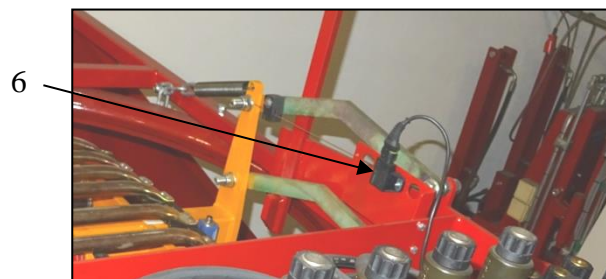
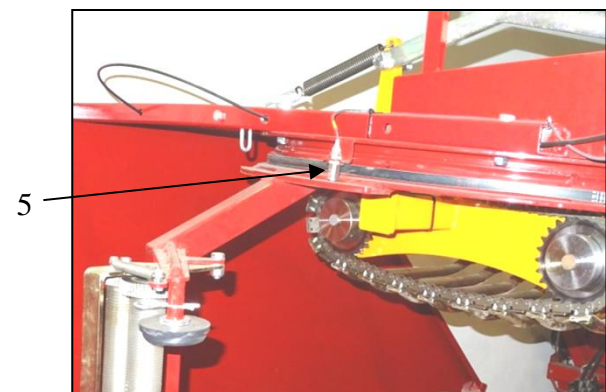
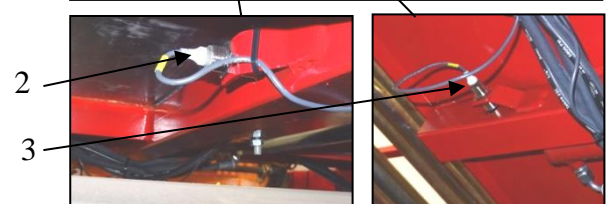
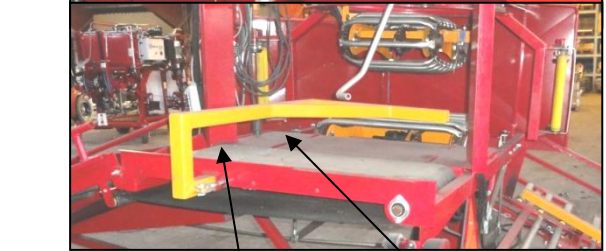
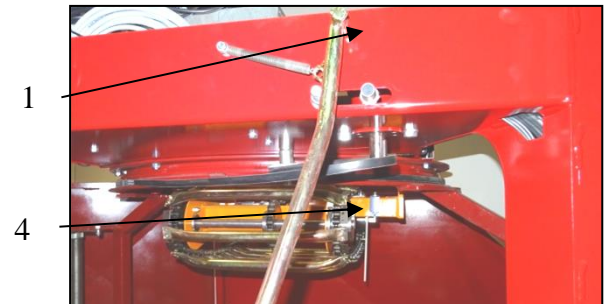
Stops loading so the bale is right located.

Sensor 5 Rotor switch.

Lights each time a foil arm passes.

Sensor 6 Bale pos. max. error switch.

You can adjust the bale pos. max. error in the menu so the bale stops on the surface. If the value is too high the bale stands skewed. Is it too low, the bale continues to rotate.



Sensor 7 Switch roller path.

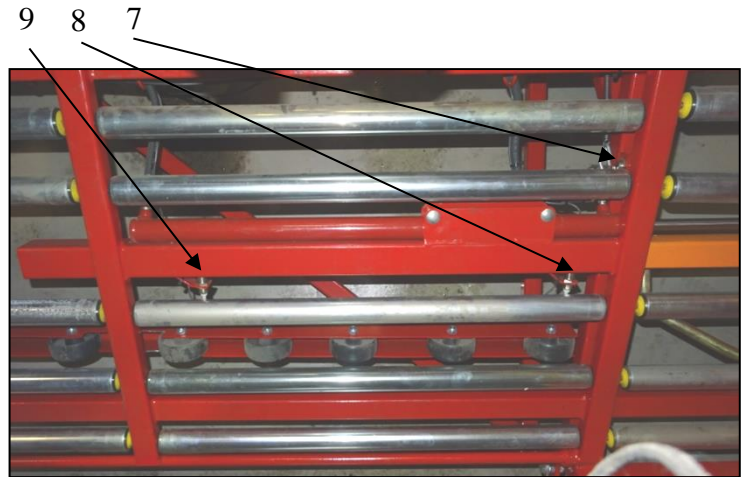
Turns off when a bale activates the arm.

Sensor 8 Collecting table in.

Turns off when the push arm is in and keeps light for the rest of the time.

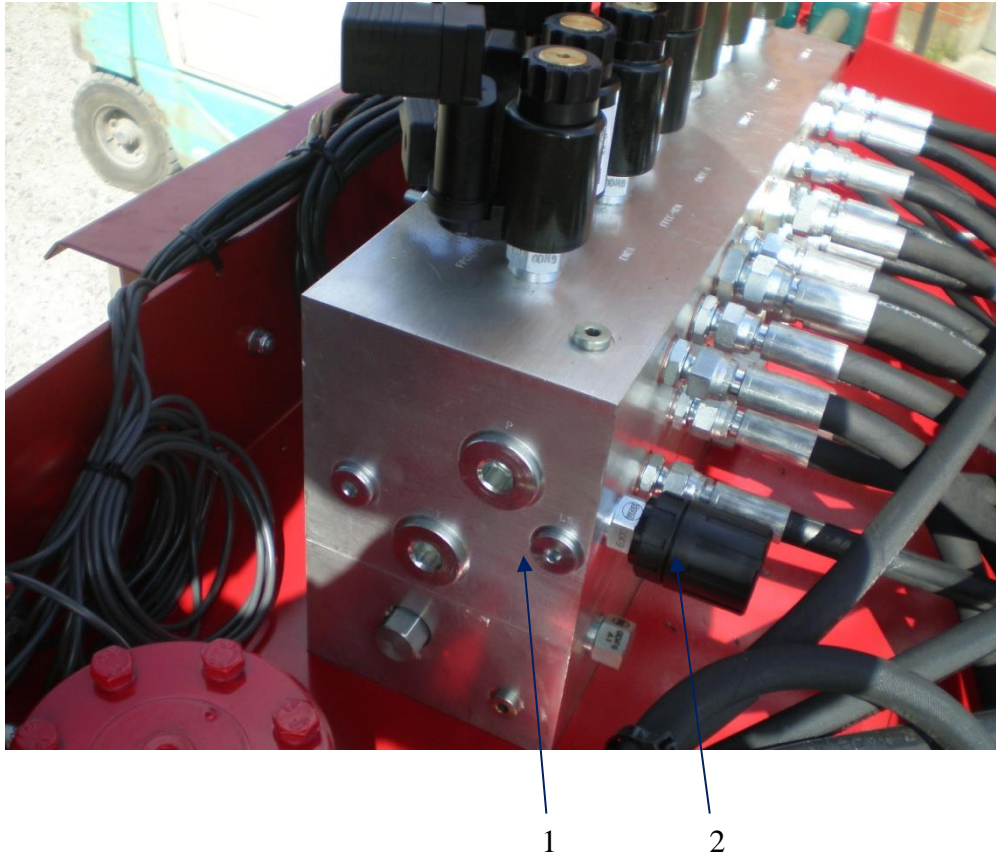
Sensor 9 Collecting table out.

Turns off when the arm is out and keeps light for the rest of the time.



## **7. Operating the wrapper**

### **7.1. Connection of oil**



Connect the oil so the flow is through the filter.

If LS is to be connected, connect the LS hose from the valve block at the LS (1) imprint over to the LS of the tractor, and turn the switch on the back of the block to LS. Make sure the switch (2) is on F when using a closed circuit and permanent pump. The hydraulics block is marked with F and LS.

### **7.2. Connection of electricity**

There are numbers on wires.

Wire 1 is -

Wire 2 is +

### 7.3. Computer

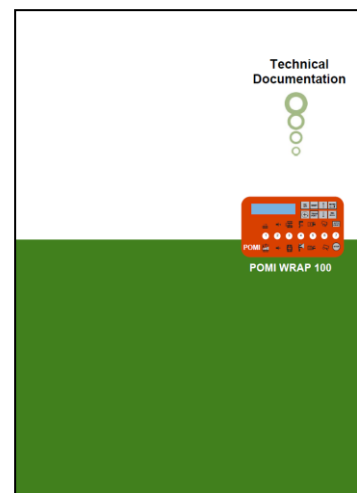
Take care when setting the number of plastic layers to be wrapped around the bales. Check regularly. Check by counting the number of machine revolutions. If you know how many bales can be wrapped using one roll, you can also use this value to check.

We disclaim liability for faulty wrapping.



### User guide for computer

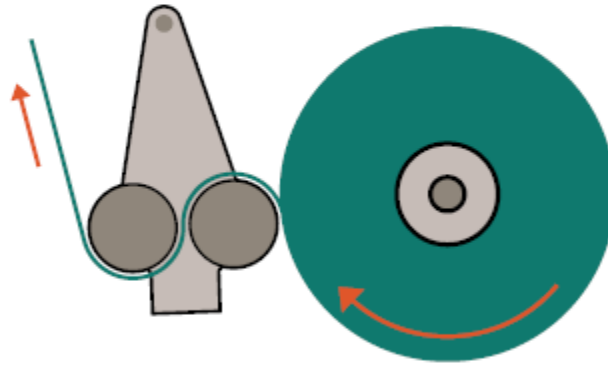
See Technical Documentation - POMI WRAP 100.





#### 7.4. Installation of film rolls

Set the computer to service function.



Feed the film through the pre-stretchers as shown above.



1

Attach the end of the film to retainer (1).





Turn the rotor using button (1).

Install the second film roll and attach the end of the film to the same retainer.

## **8. Hydraulic drive**

The hydraulic block features a number of flow control valves and pressure-relief valves.

There are flow control valves for the following functions:

See also the hydraulic chart A51358-51217.

Belt

Load arm

Gripper arm

Door

Pusher

Adjust the above flow control valves on the hydraulic block: Loosen a counter nut, next turn a socket screw in or out. If it is turned out, the speed is increased. Locate the specific flow control valve on the block by studying the diagram. Let us say you want to increase the speed of the gripper arm: See diagram A51358-51217. Locate the gripper arm by working your way through the diagram. Here you will find a valve termed FDBA-D. Locate the corresponding ID on the hydraulic block. Adjust this valve by screwing it half a turn – check whether this is sufficient.

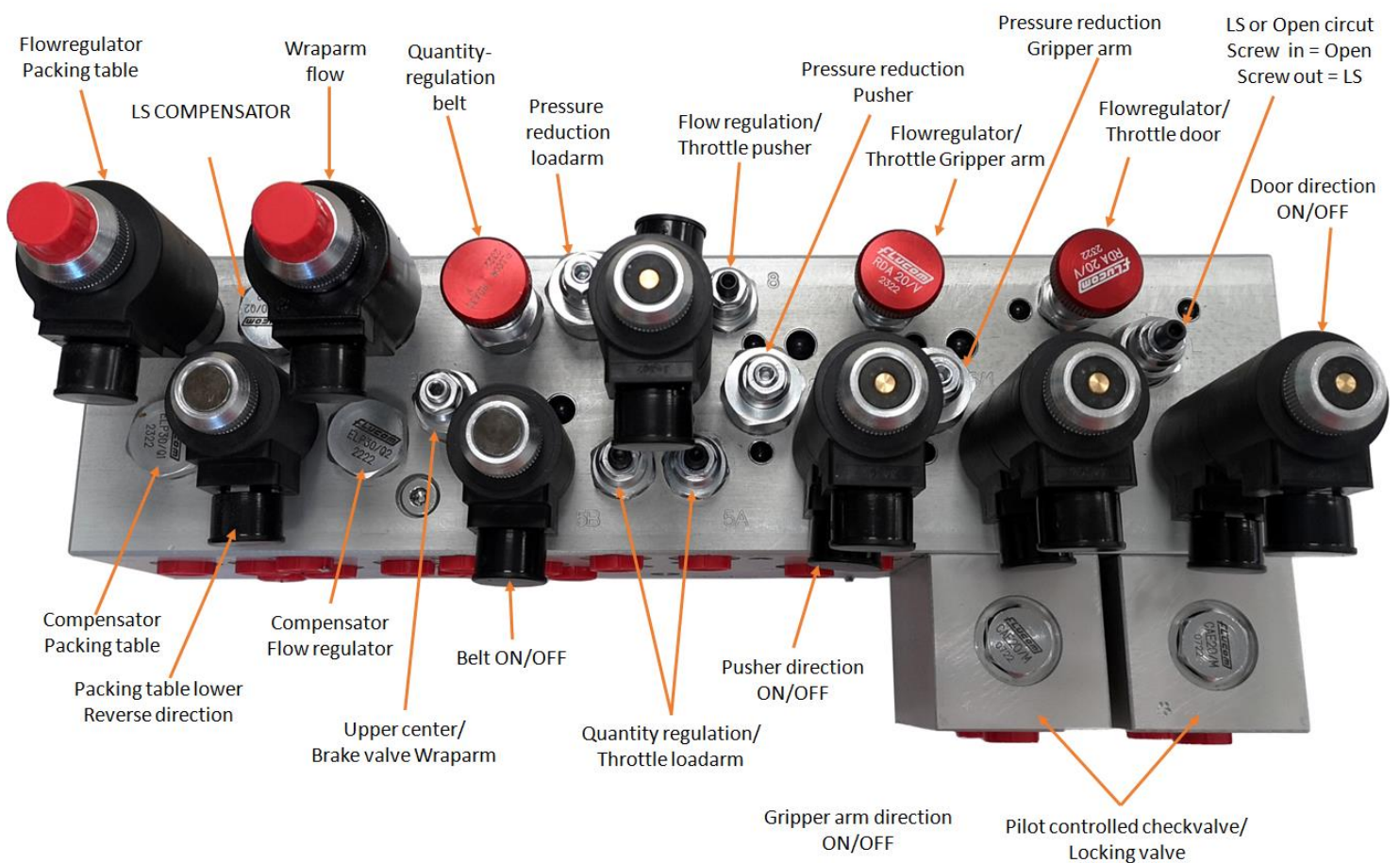
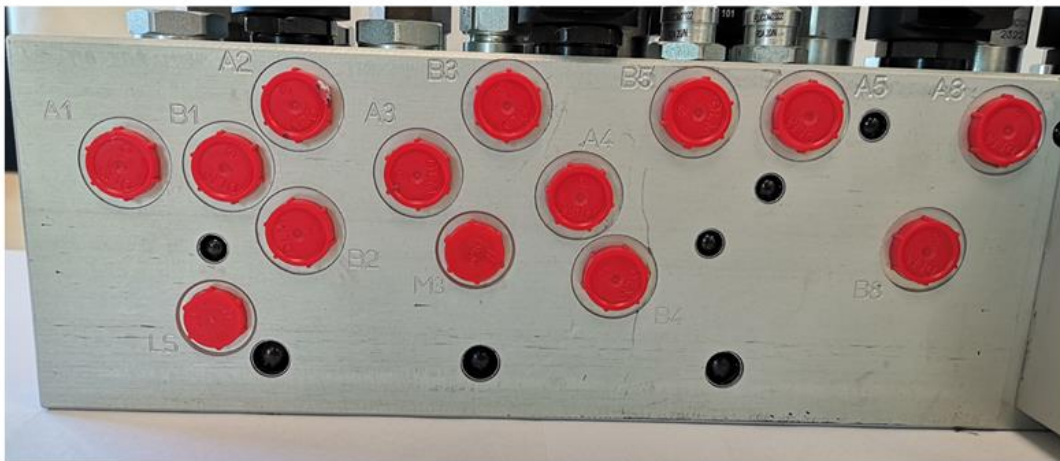
There is also a pressure-relief valve for the pusher arm and the load arm. The pressure can be increased or reduced, as required. If the pressure is increased excessively, this may damage the machine.

## 8.1. Hydraulic block from January 2023

A1 B1: Upper Packing table  
A2 B2: Lower Packing table  
A3 B3: Rotator  
A4 B4: Belt  
A5 B5: Load arm  
A8 B8: Pusher

LS: Plug  
M3: Plug

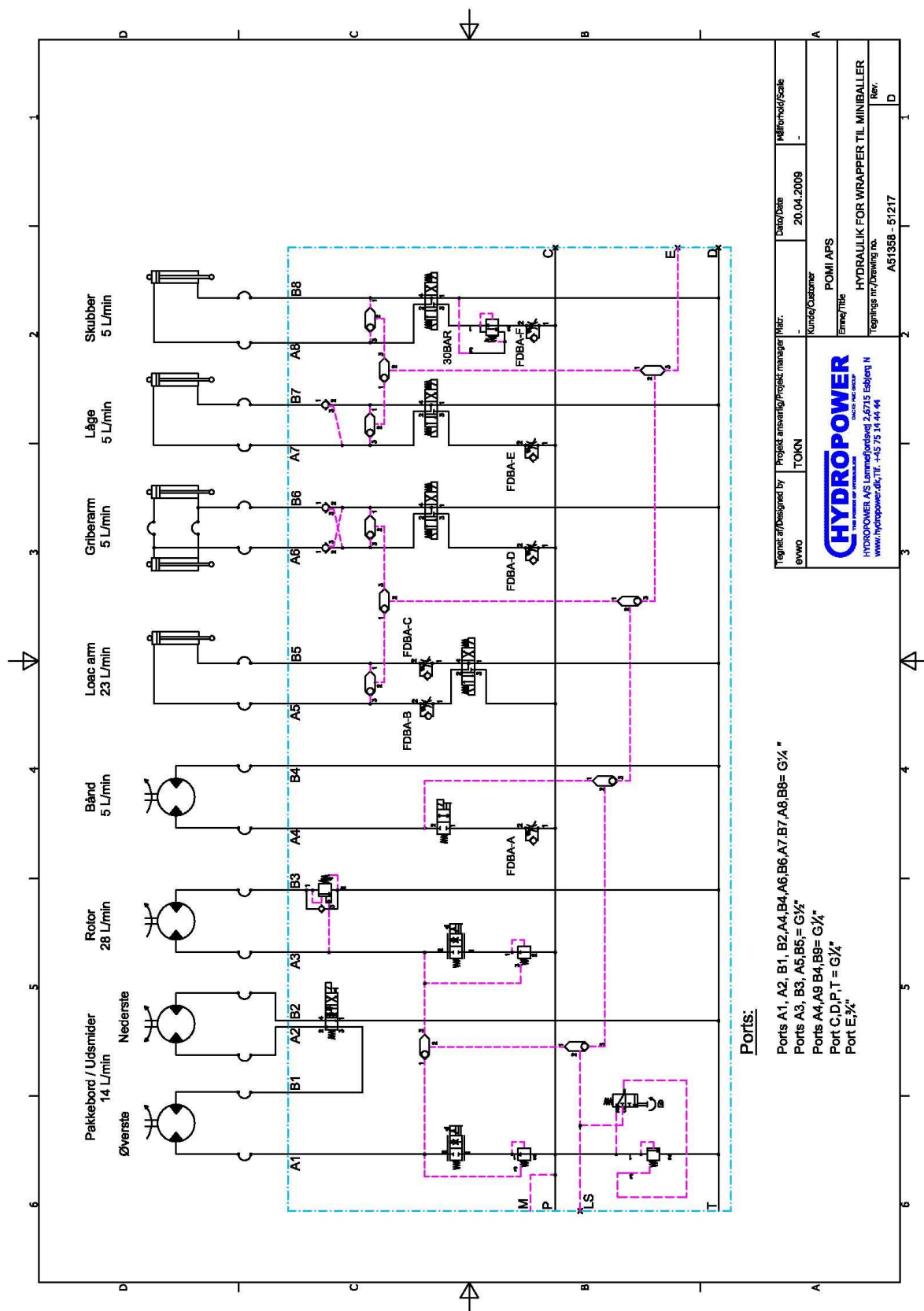
A6 B6: Gripper A7 B7: Locks



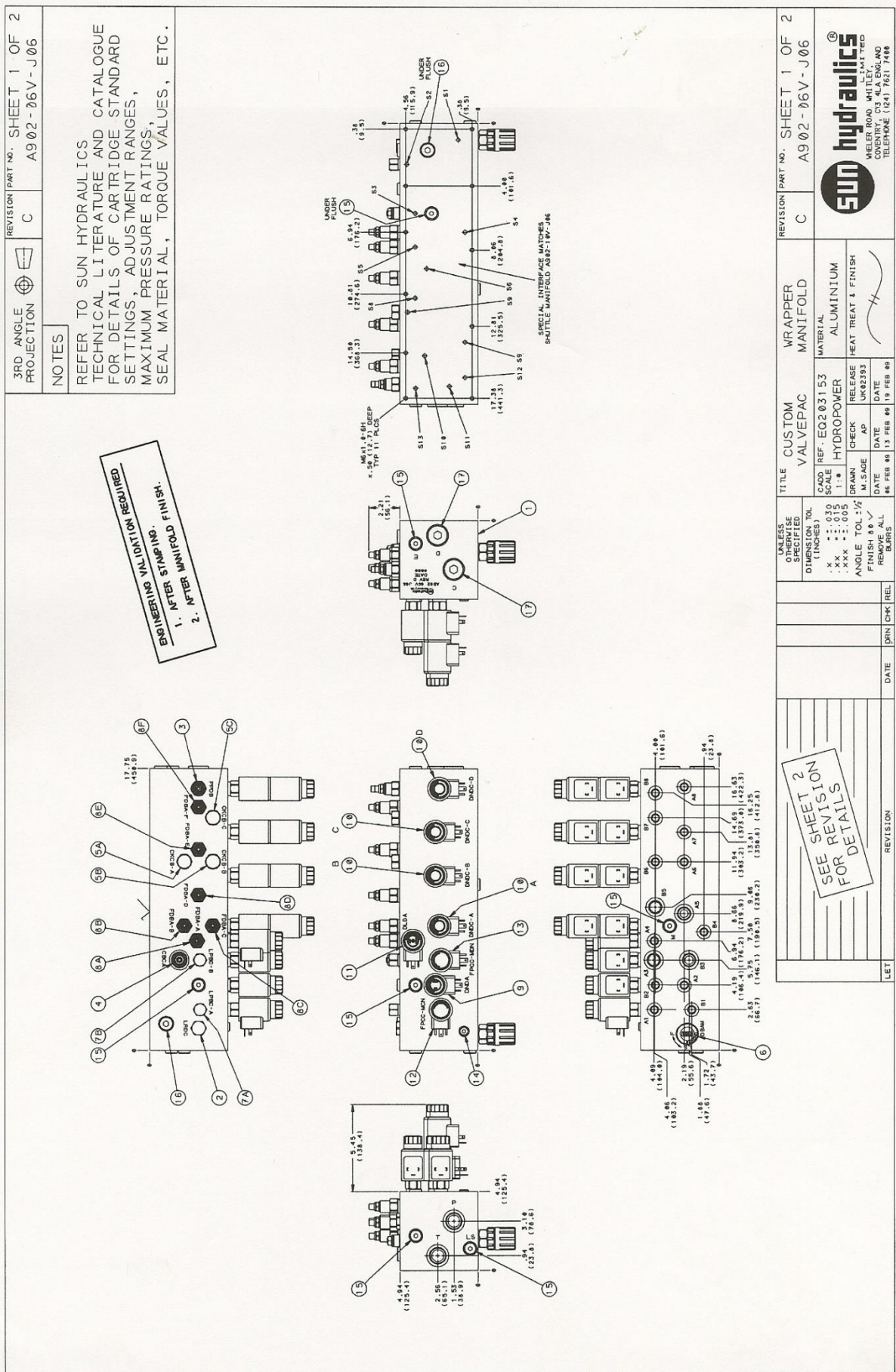
## 8.1. Hydraulic diagrams

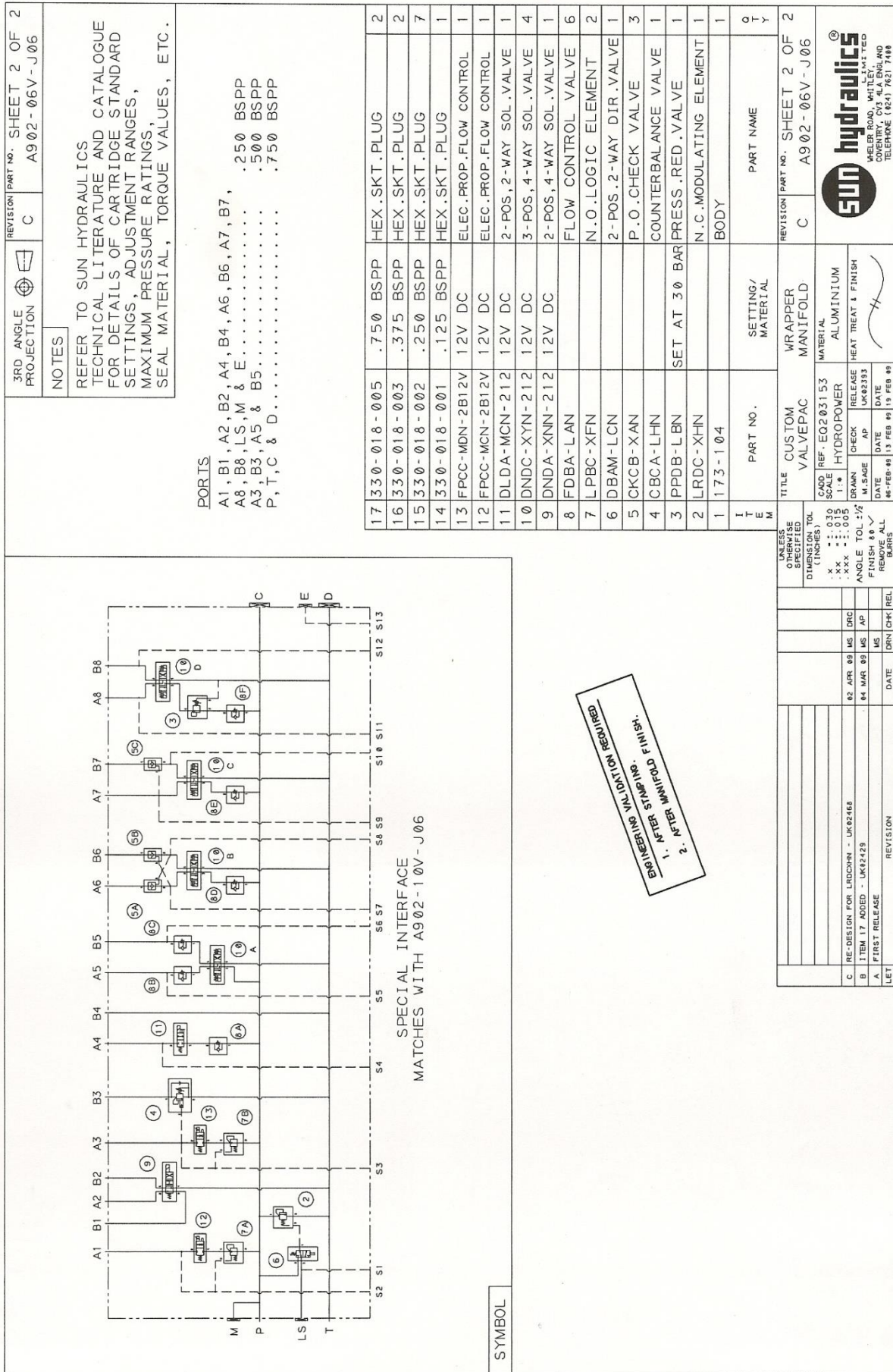
From January 2023

Pos.	Qty.	Type	Description	Manufacturer	Remark
1	1	RDB20/B	Flow control valve	Flucom	For L.S.
2	2	PSS 30/2202 - D	Proportional flow control valve	Flucom	
3	1	ETD 30/2202	2/2 Directional spool valve solenoid operated normally closed	Flucom	
4	1	ELP30Q2	Pressure compensator	Flucom	
5	1	ETD 30/4205	4/2 Directional spool valve solenoid operated	Flucom	
6	1	CMS 20/D-N	Motion control valve	Flucom	
7	1	RD230-D-HG	Flow control valve with check valve	Flucom	
8	5	ROA 20/V	Pressure reducing valve	Flucom	
9	3	RLY 30/D-N	4/3 Directional spool valve solenoid operated	Flucom	
10	4	ETD 30/4309	Check valve pilot to open	Flucom	
11	3	CAT20	Check valve	Flucom	
12	12	CAB10	Logic element normally closed	Flucom	
13	1	ELP30Q1-11	Pressure compensator	Flucom	
14	1	ELP30Q2-11	Pressure compensator	Flucom	
<p>This must be FLEPSS30-2-2020Q</p> <p>This must be CMS 20/D-N 15.0bar setting</p> <p>This must be FLEP30-Q1-11 Please write in manifold LS &lt;-&gt; Openloop</p> <p>There must be installed and nozzle valve the one Christian send from L.S-T</p>					
<p>Customer : POMI</p> <p>Date : 23-01-2023</p> <p>Drawn by : Jacob</p> <p>Checked by :</p> <p>Material :</p> <p>Weight :</p> <p>Paper Size : A3</p> <p>Page : 11</p> <p>Scale : 1:1</p> <p>Project number : MINIWRAP 100</p> <p>Drawing Number :</p> <p>DANI TRADING</p> <p>ESSEN 2 4000 Kolding Denmark</p> <p>This document is confidential and may not be copied nor disclosed to a third party without written consent.</p>					











3RD ANGLE  
PROJECTION

REVISION PART NO. SHEET 1 OF 2  
A902-10V-J06

NOTES

REFER TO SUN HYDRAULICS  
TECHNICAL LITERATURE AND CATALOGUE  
FOR DETAILS OF CARTRIDGE STANDARD  
SETTINGS, ADJUSTMENT RANGES,  
MAXIMUM PRESSURE RATINGS,  
SEAL MATERIAL, TORQUE VALUES, ETC.

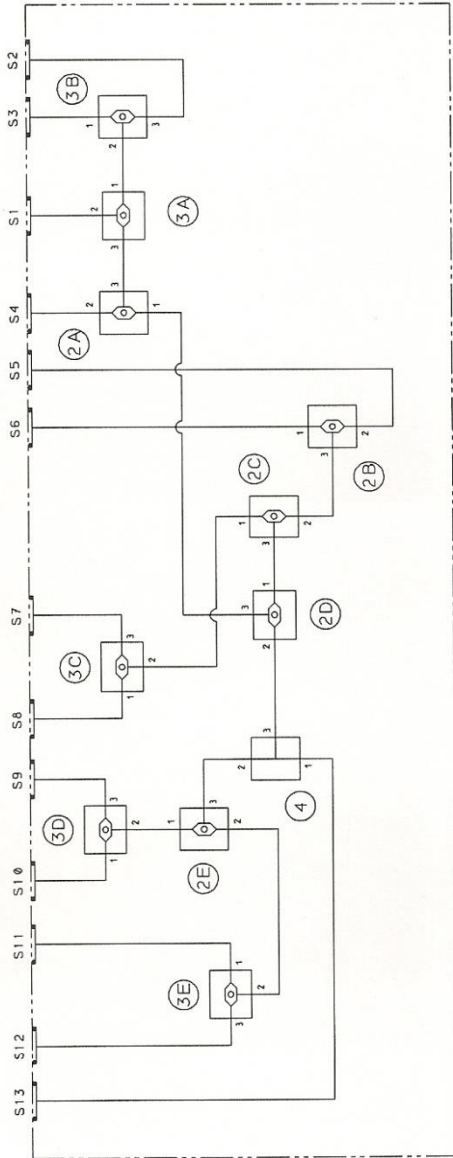
Technical drawing of a hydraulic manifold assembly, showing front, side, and detail views with dimensions and callouts.

**Front View Dimensions:**

- Overall width: 2.94 (74.6)
- Overall height: 17.75 (450.9)
- Port 1 (top left): 0.25 (6.4)
- Port 2 (top left): 0.25 (6.4)
- Port 3 (top left): 0.25 (6.4)
- Port 4 (top left): 0.25 (6.4)
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- Port 99 (top left): 0.25 (6.4)
- Port 100 (top left): 0.25 (6.4)

**Side View Dimensions:**

- Overall width: 17.38 (441.3)
- Overall height: 17.38 (441.3)
- Port 1 (top left): 0.25 (6.4)
- Port 2 (top left): 0.25 (6.4)
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- Port 37 (top left): 0.25 (6.4)
- Port 38 (top left): 0.25 (6.4)
- Port 39 (top left): 0.25 (6.4)
- Port 40 (top left): 0.25 (6.4)
- Port 41 (top left): 0.25 (6.4)
- Port 42 (top left): 0.25 (6.4)
- Port 43 (top left): 0.25 (6.4)
- Port 44 (top left): 0.25 (6.4)
- Port 45 (top left): 0.25 (6.4)
- Port 46 (top left): 0.25 (6.4)
- Port 47 (top left): 0.25 (6.4)
- Port 48 (top left): 0.25 (6.4)
- Port 49 (top left): 0.25 (6.4)
- Port 50 (top left): 0.25 (6.4)
- Port 51 (top left): 0.25 (6.4)
- Port 52 (top left): 0.25 (6.4)
- Port 53 (top left): 0.25 (6.4)
- Port 54 (top left): 0.25 (6.4)
- Port 55 (top left): 0.25 (6.4)
- Port 56 (top left): 0.25 (6.4)
- Port 57 (top left): 0.25 (6.4)
- Port 58 (top left): 0.25 (6.4)
- Port 59 (top left): 0.25 (6.4)
- Port 60 (top left): 0.25 (6.4)
- Port 61 (top left): 0.25 (6.4)
- Port 62 (top left): 0.25 (6.4)
- Port 63 (top left): 0.25 (6.4



SYMBOL

[illegible]

## 9. Common faults

Fault	Remedy
Film ruptures when started	<p>There may be plastic residue in the gripper. Clean out.</p> <p>The rotor overruns and makes the plastic stick to the gripper when it is drawn downwards. Adjust in the computer: either reduce the time function of the rotor or reduce the end speed of the rotor.</p> <p>Adjust the knife if the plastic is cut too early, meaning that the gripper does not catch it.</p>
Film ruptures during wrapping	<p>Check that the pre-stretchers run lightly. If they are worn or damaged: replace.</p> <p>The film roll runs up leaving the plastic slack. When the machine is started again, the film bursts. Reduce the speed of the rotor. The spring that keeps the rollers against the film should be tighter.</p>
Bale gets stuck in the plastic when it is pushed out of the wrapper table.	Check the knife, replace or adjust, as required.
Bale is on its side when it reaches the collector table.	Increase the speed of the wrapper table. Check whether the bale sticks to the plastic ends; adjust knives, if necessary.
Bale is not positioned on the flat surface when finally wrapped.	Adjust Bale pos. max. error. If the value is too high the bale stands skewed. If it is too low, the bale continues to rotate.
Machine has stopped and will not restart.	<p>Check that the load arm is in the correct position.</p> <p>Check that the rotor is in the correct position.</p> <p>Check that the collector table pusher is in the correct position.</p> <p>Check that the last bale has left the machine and has activated the collector table sensor.</p> <p>Stop the machine, press reset and restart.</p>



**10. Technical Data**

<b>Oil consumption</b>	<b>60 litres</b>
<b>Hydraulic oil connection</b>	<b>1 double-acting/Min. 150 Bar</b>
<b>Current</b>	<b>12 V</b>
<b>Width during transportation</b>	<b>2.65 metres</b>
<b>Length</b>	<b>3.80 metres</b>
<b>Height</b>	<b>2.20 metres</b>
<b>Weight</b>	<b>850 kg</b>
<b>Wheels</b>	<b>2 x 26-12 D = 640 mm</b>
<b>Max. bale compression</b>	<b>10 cm</b>