

Schlußüberprüfung – Final inspection

	Machine is uiterlijk goed afgewerkt (lakwerk, blanke asdelen ingevet, etc.)	O
2	Tank en filters zijn gereinigd, boorspanen en vijlsel verwijderen	O
3	Zuig- en persleidingen zijn gecontroleerd	O
4	Alle bouten en moeren zijn gecontroleerd (o.a. tandwielkast, pomp, wielen + as)	O
5	Elektrische installatie is getest	O
6	Tank+afdichtingen zijn gecontroleerd:	Lekkage tank O Roerwerk O
		Peilglas Aftap
7	Oliepeil tandwielkast is gecontroleerd	O
8	Oliepeil pomp is gecontroleerd	O
9	Luchtgeleidingsplaten zijn gemonteerd (boven en onder)	O
10	Roeras is gesmeerd	O
11	Automatische spanner is op goede werking gecontroleerd	O
12	Beschermingskappen V-riemoverbrenging zijn gemonteerd	O
13	Poelies bij aandrijving roerwerk zitten in een lijn	O
14	Beschermingskap aftakas is gemonteerd	O
15	Beschermingsrooster zijkant ventilator is gemonteerd	O
16	Beschermingsrooster achterkant ventilator is gemonteerd, en afstand tussen rooster en ventilator is minimaal 12 cm	O
17	Insteek pen voetsteun en trekpen zijn geborgd	O
18	Stickers zijn aangebracht:	Wielblokken O Tandwielkast Driewegkraan O Max. wieldruk 2x
	Handleiding O Max. toerental aftakas O Tankopening 2x	O Afstand houden 2x
	Werkplaats handleiding O Spuittipschema O	
19	Banden spanning is gecontroleerd	NVT
20	Wielblokken zijn bevestigd	O O
21	Verlichtingssset is aangebracht (verlichtingsbalk, driehoek, reflectoren)	O O
22	Dwaarsstroomkappen zijn gemonteerd	O O
23	Set elek. kranen extra (voor dwarsstroomkappen) is gemonteerd	O O
24	Elec. drukregelaar inclusief afstandsbediening is gemonteerd	O O
25	Sputcomputer is gemonteerd	O O
26	Sputmonitor is gemonteerd	O O
27	Aftakas is bijgeleverd	O O
28	2 extra spuitdoppen (12 i.p.v. 10) zijn gemonteerd	O O
29	Chemicaliën-mixer is gemonteerd	O O
30	Goede as + spoorbreedte en juiste banden gemonteerd	O O
31	Bladvanger is gemonteerd	O
32	Typeplaatjes pomp+machine zijn volledig ingevuld en aangebracht	O
33	Assortimentdoosje (spuittips+dichtringen) is bijgeleverd	O
34	Bevestigingsbeugel bedieningskastje is bijgeleverd	O
35	Handleiding (volledig ingevuld) is bijgeleverd inclusief Conformiteits verklaring	O
36	Handleiding aftakas is bijgeleverd	O
37	Onderdelenboek is bijgeleverd	O

HANDTEKENING.....

10503 . . .

Manual

Orchard Spray-Machine

Version 3



Machinefabriek J.M. van den Munckhof B.V.

Preface

This user guide refers to the MUNCKHOF Orchard Spray-Machine:

Type :	105
Serial number :	10503 . . .
Build year:	2009

The above-mentioned machine is manufactured by:

Machinefabriek J.M. van den Munckhof B.V.

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This machine is developed and produced according to the newest techniques.

This contains that the machine satisfies the European directives concerning safety and health. The machine is provided with a CE marking.

The machine is supplied in accordance with the **METAALUNIE** delivery conditions.

These conditions are obtainable from our suppliers.

Throughout these instructions graphic pictures are used to emphasize special information. The explanation of these graphics is illustrated below:



TIP



ATTENTION



WARNING / HAZARD



RISK OF LIFE / PERILOUS

This user guide can be re-ordered at all times at cost price.

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1 Introduction

1.1 Advice to user

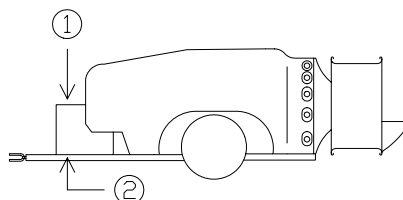
The MUNCKHOF Orchard spray-machine is a machine designed for spraying fruit orchards with crop protection agents. To get an optimum use of the Orchard spray-machine it is necessary to carefully read and study this user guide. Ignoring these instructions and not complying with them can lead to dangerous situations and endanger the environment.

Should there, in spite of this instruction manual, still be some uncertainties please contact your supplier or the machine manufacturer direct. For names and telephone numbers refer to Chapter 9

1.2 Guarantee

Should any of our carefully manufactured parts fail within the guarantee period of 12 months, these will be replaced free of charge (excluding fitting fee). This guarantee is invalid in cases of normal wear and tear or misuse in maintenance or handling. Guarantee is only valid if the defective parts are sent to us for inspection, together with a completed warranty form. Claims have to be presented at the latest three month after the damage has taken place. Claims received later than 3 month's after determination of the damage will not be considered as such. The commissioner and/or salesman is NEVER liable for any other damage whatsoever to customer or buyer.

1.3 Type - description



1 Pump type plate:

 J.M. VAN DEN MUNCKHOF METERIKSEWEG 115 HORST - HOLLAND	
TYPE	WM80-WM70-WM35
SERIAL	
MAX. OUTPUT	92 - 64 - 32 LTR. / MIN.
MAX. PRESSURE	40 - 60 10 ⁵ Pa (BAR)
MAX. ROTATION	540 1 / MIN.

TYPE	=	Type description.
SERIAL	=	Serial number.
MAX. OUTPUT	=	Litres p. min
MAX. PRESSURE	=	Pressure in 10 ⁵ Pa (BAR)
MAX. ROTATION	=	R.p.m.
YEAR	=	Build year

The crossed out sections do not apply to your pump.

2 Machine type plate

  J.M. VAN DEN MUNCKHOF METERIKSEWEG 115 HORST - HOLLAND	
TYPE	
SERIAL	
WEIGHT	kg
SYS.PRESS	10 ⁵ Pa (BAR)

TYPE	=	Type description 105
SERIAL	=	Serial number
WEIGHT	=	Weight of the machine with empty/full tank in kg
SYS. PRESS.	=	Maximum pressure in the spray piping in 10 ⁵ Pa (BAR)
YEAR	=	Build year

2 Warnings

2.1 Machine



- Do not use the machine for an application other than this machine is designed for.
- Do not use the machine if any part of the machine is damaged, missing or not functioning well.
- If the machine does not function well, stop the machine immediately.
- Installation, repairs, maintenance and cleaning should only be carried out with the machine shut down. Preferably with the coupling shaft disconnected and the fan stationary.
- Maintenance, such as grinding, cutting and welding is only to be carried out after all spray agents deposits have been thoroughly cleaned off.
- Check cardan shaft on correct length: adapt if necessary.(see 4.1)
- Ensure that the maximum allowed revolutions of the coupling shaft do NOT exceed 540 r.p.m.
- Ensure that the maximum allowed effective pressure does NOT exceed 40×10^5 Pa (40 BAR). The maximum allowed effective pressure of the CP 104 pump might not exceed 50×10^5 Pa (50 BAR).
- Check the oil-level in the pump and gearbox before using the machine. Check also that all nuts and bolts are secure. Repeat the previous actions after the first 10 hrs of operation.
- Check the tyre pressure regularly. Ensure the maximum allowed pressure of 2,5 bar is not exceeded.
- Use ear-defenders if the tractor has an open cabin.
- Do NOT use the pump without water or input filter.
- When not in use the machine should be stored away safely, i.e. use the foot support and discharge the pump pressure using the bleeder (see fig.1 nr.5)
- For safety reasons all replacement parts must comply with the specifications of the original parts, e.g. spray nozzles, manometer, pressure regulator or any parts thereof. The replacement pressure pipes must be calculated to withstand an operating pressure of at least 60×10^5 Pa (60 BAR).
- All changing and connecting of pressure piping should be carried out by the manufacturer, dealer or qualified mechanic.
- Empty the tank and the entire pressure system when frost is expected. (See § 6.5).
- When transporting on public roads, appropriate vehicle lighting must be fitted, including warning triangle and side reflectors. This lighting system must be in accordance with local national road traffic laws. Check the lighting regularly and change defective parts.
- Never climb into the tank.
- Do not use the coupling shaft and the protection cap on the pump as a step.
- Ensure that during use no-one is in the immediate vicinity of the machine and especially the fan

2.2 Crop protection agents

- Always act in accordance with the manufacturers user- and safety instructions i.e. refer to usage, expiry-date and personal protection.
- Only use crop protection agents that conform to legal requirements; agents that coagulate or leave deposits in the pump should not be used.
- Crop protection agents should only be used for their intended purpose.
- Prevent contact with the crop protection agents. Eating, drinking and smoking are forbidden during spraying.
- Prevent unnecessary killing of bees and other useful insects in order to minimise the effect on the biological cultivation. Watch out for plants and weeds in their flowering period and the presence of beehives.
- During spraying reduce the possibility of the crop protection agents drifting onto adjacent plots.
- Refrain from always using the same crop protection agents in order to prevent resistance and selection.
- Keep residue of crop protection agents in the tank to a minimum. Should there be any left, spray this in diluted form over the crops.
Also spray the slops of the tank over the previously sprayed areas

Transportation and storage of the crop protection agents.

- Crop protection agents and left-covers should only be moved and/or stored in their original packing.
- Keep crop protection agents and left-covers under lock and key in a place exclusively used for this purpose.

No crop protection agents in surface water

Crop protection agents should never be allowed to reach surface water because it would endanger fish and other water organisms. Moreover ditch water is often used as drinking water by cattle, or as water supply for spraying or for irrigation.

- Determine if in your situation the crop protection agents could drain into surface water and if so seek a solution to eliminate this.
- It is totally forbidden to empty left over crop protection agents into ditches or other drainage systems.

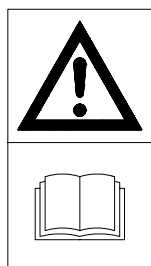


Mixing the crop protection agents

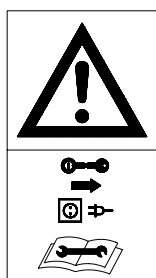
Fill the tank to three quarter full with water. Add the crop protection agents to it. If done in reversed order foaming and dust will occur. This foam can overflow onto the ground and could leak into underground water. Breathing in the dust is harmful to health.

If intending to use large quantities of crop protection agents, in relation to the capacity of the filling sieve (see fig.1. nr.13), it is advisable to split the quantity into two lots and slowly swill this through with water. For further actions see §5.1. Point 8.

2.3 Graphic labels on the machine



Before use read the instructions and act according to the safety regulations



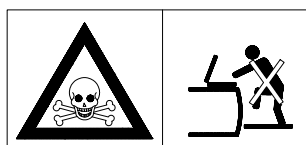
Before repair, maintenance and cleaning the motor must be stopped and the key removed from the ignition.



When uncoupling/parking the machine on a slope, wheel-chocks should be used to prevent the machine from rolling away.



Keep away from the machine when it is working



Danger of poisoning: NEVER climb into the tank.

3 Technical data

The technical data for the various types of machine can be found in the table below (table 1). If the machine is fitted with one or more accessories refer to Chapter 8: Accessories for further information.

Table 1: Technical data

Pump Type	Tank- capa- city	Fan ø [cm]	Total blades	Triple fan ø [cm]	Fan drive	Weight* [kg]		Sound level** [dB(A)]	Dimensions[cm] L x B x H***
						Tank empt y	Tank full		
WM70	600	80	8	40	2 speed	520	1120	97	330x135x128
WM70	1000					555	1555		370x135x130
WM70						685	1685		370x135x280
WM80						600	1600		370x135x130
WM80						730	1730		370x135x280
CP104						545	1545		370x135x130
CP104						675	1675		370x135x280
WM70	1500					580	2080		395x135x150
WM70						710	2210		395x135x302
WM80						625	2125		395x135x150
WM80						755	2255		395x135x302
CP104						570	2070		395x135x150
CP104						700	2200		395x135x302
WM80	2000					680	2680		445x170x170
WM80						810	2810		445x170x320
CP104						625	2625		445x170x170
CP104						755	2755		445x170x320

* Weight measured excluding coupling shaft (25 kg.)

** Sound level measurements see appendix 1

*** Dimensions:

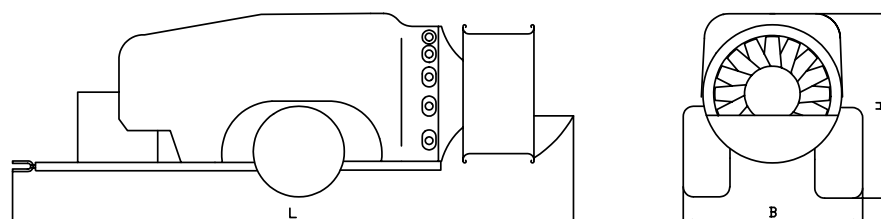


Fig.1

On the following page shows the function diagram of the Orchard spray-machine. The various piping, parts and accessories of the machine are numbered and named.

- | | | |
|------------------------------------|--------------------------------|--------------------------------------|
| 1 Pump | 8 Electrical valves | 14 Tank filler (self-filling) |
| 2 Three-way tap | 9 Spray nozzles | 15 Return pressure valve |
| 3 Suction filter | 10 Cross flow cover/Triple-fan | 16 Chemical-mixer |
| 4 Pressure regulator | 11 Belt transmission | 17 Spray gun |
| 5 Bleeder | 12 Agitation shaft | 18 Clean water tank rinse 120 litter |
| 6 Pressure filter | 13 Filling sieve | 19 Clean water tank 15 litter |
| 7 Connection point for accessories | | 20 Clean water drain tap |



Pressure pipes

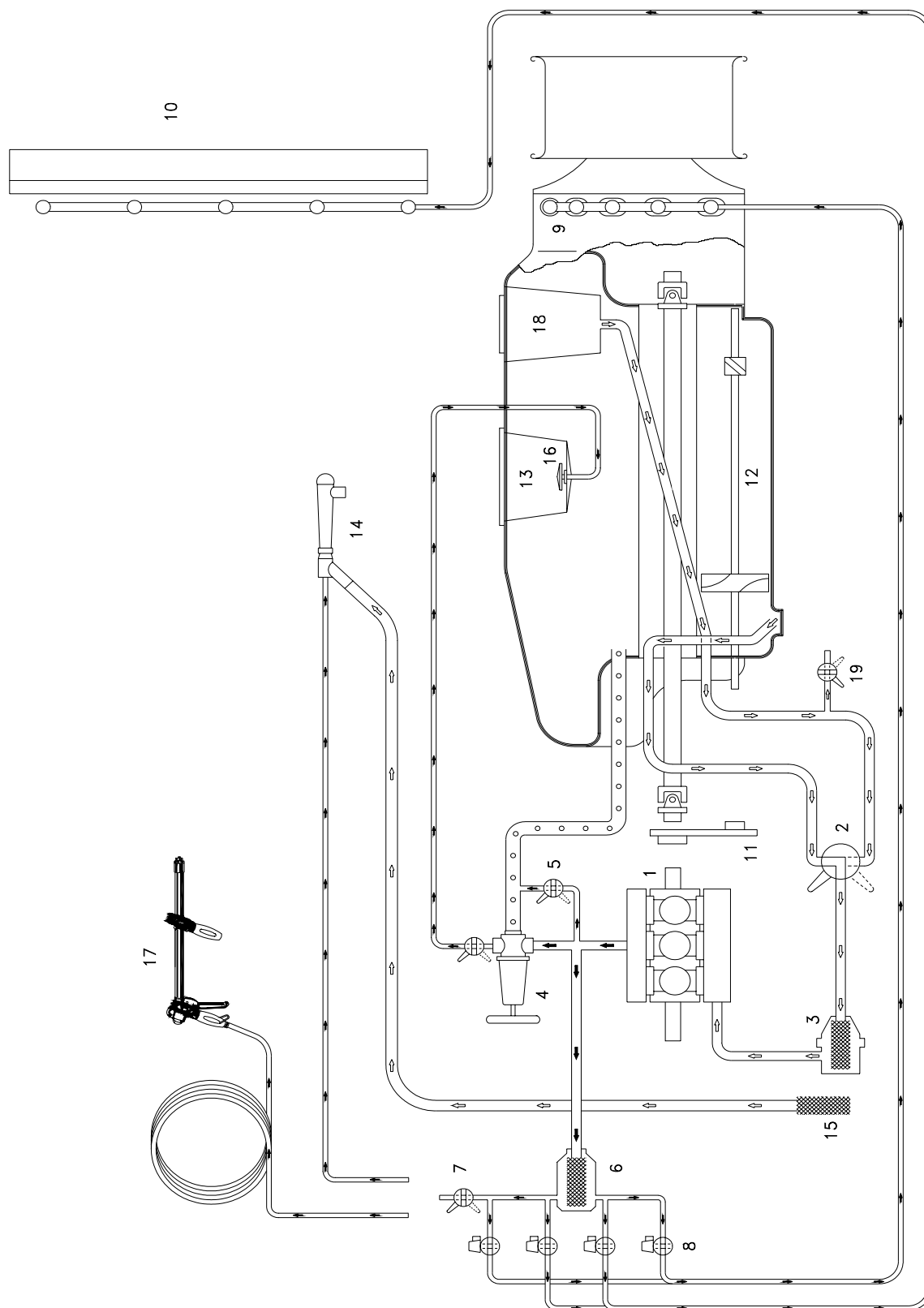


Suction pipes

o o o

Return

Fig. 1: Function diagram



4 Installation

4.1 Transportation

In order to move the machine safely (during spraying or manoeuvring) the following actions should be carried out:

- Connect the machine to the towing vehicle using the securing pin and safety clip.
- Slide the foot support upwards and secure this with the securing pin and clip.
- Connect the coupling shaft to the towing vehicle. Follow the instructions given in the coupling shaft user guide.



Check cardan shaft on correct length: if the cardan shaft has to be adapted, shorten both parts equally. (Look at manual cardan shaft). The cardan shaft is delivered always at standard length.



The machine must be fitted with appropriate lighting (including warning triangle and side reflectors) in accordance with local traffic laws. The maximum speed is 25 km per hour.



Do not make sharp turns. With the machine attached, the coupling shaft is only capable of turning through a limited angle (see coupling shaft user guide). Moreover the suction filter could be damaged by the tractor wheel when making a sharp left turn.

4.2 Before use

Before using the machine a number of points need to be observed:

- Check the pump and gearbox oil levels using the dipstick and glass gauge. Should the oil level be below the markings on either the dipstick or glass gauge, top up immediately. For filling procedure see Chapter 6.



Only use high quality oil: for the pump SAE 10 W-30 and for the gearbox SAE 90.

- Check that all nuts and bolt are secure. Repeat this after the first 10 hours of operation.
- Examine the pump pressure and suction parts: These must be in optimum condition in order to prevent damage to the valves and blocking the spray nozzles. It is therefore necessary before every use to establish that:
 - there is no dirt in the suction and pressure filters (for procedure see Chapter 6).
 - the couplings of the hoses are still intact and air-tight.

4.3 Electrical installation

The electrical controls of the Orchard spray-machine are simple to operate via the control-box. This control-box can easily be mounted in a convenient place on the towing vehicle by using the supplied mounting bracket.

The machine does not have its own power supply. The necessary supply of 12 V 10 A, can be obtained from the electrical circuit of the towing vehicle via a 2 pole agricultural plug. The towing vehicle is usually fitted with an accessory socket for this purpose. If it is not fitted a socket can easily be mounted.

For the electrical diagram of the orchard spray-machine appendix IV shows the standard diagram and appendix V shows the diagram of the triple-fan and the control of the triple-fan.

5 Operation

5.1 Machine settings

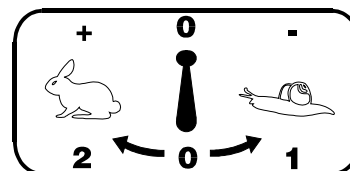
In practice a too high dosage of spray agents is usually applied. The adjustment of the spray nozzles, pressure and driving speed, as well as using information gained from sprayed tank capacity, depends on the individual.

This too high volume selection usually gives a reasonably effective result but has some disadvantages: ineffective spray fluid distribution, fluid wastage and unnecessary damage to the environment. A more precise dosage is therefore advisable. This is possible with a clear understanding and control of the setting of both tractor and spray machine in relation to the cultivation. Therefore apply, step by step, the following actions.

1 Set the required fan air-flow.

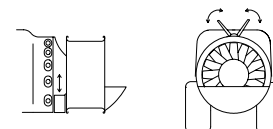
The fan air-flow can be adjusted to suit the width, height and density of the vegetation foliage:

- By changing the coupling shaft revolutions (Max 540 r.p.m.) the fan speed is altered.
- By changing the fan speed using the gearbox lever (this is situated in the hole under the label and to the right of the tank). As illustrated on the label, the first speed is with the lever to the right and the second one to the left. If it is not possible to fully engage the lever (the gears fail to mesh) rotate the fan shaft by hand. Changing gears is only permitted when the coupling shaft is stationary.



NEVER change gears when the coupling shaft is rotating.

- By adjusting the air-flow guide vanes:



- If the machine has been fitted with a triple fan it is possible to manipulate the air-flow by rotating the two air outlets. To do this, loosen the clamping ring; set the air outlet to the required position; retighten the clamping ring. For additional cost an electrical/hydraulic setting unit is available. The Triple fan is switched on and off by operating a handle "C" which moves the tension roll (fig. 5) which is near the transmission belt. This handle is situated next to the gearbox lever. The Triple-fan is switched on when the handle is turned outwards and switched off when the handle is turned backwards.



NEVER change anything when the coupling shaft is rotating

The air-flow speed must be applied to the leaf surfaces for at least 3 to 5 m/sec to ensure that the spray droplets adhere sufficiently to the foliage. This air-flow speed can be measured and monitored using an air-flow meter on the edge of the vegetation.

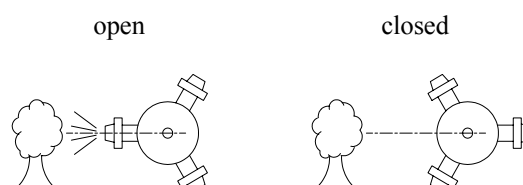
The degree of coverage for spray agents on the vegetation is measured by using a so, called droplet test foil. If there is an insufficient degree of coverage due to dense foliage or wider rows, select a slower driving speed, increase the mist density or reduce the air-flow.



To make the adjustment of the air-flow easier, do a test using (clean) water.

2 Determine the number of open spray nozzles.

The number of open spray nozzles is determined by clean water spray testing. Up to three nozzles can be fitted to each nozzle holder. A spray nozzle is open when the holder is turned in such a way that the nozzle opening is directed outwards towards the foliage. To close the spray nozzle turn the holder in such a way that the theoretical line towards the foliage is between two nozzles; the hypothetical middle line.



If the machine is fitted with cross-flow casings or a Triple-fan, it is recommended to open the spray nozzles before driving to the orchard as a ladder is needed to reach the top spray nozzles.

3 Determine the driving speed in km/hr.

This is necessary because the speedometer on the tractor is generally inaccurate and difficult to read. Often alternative drive wheels have been fitted resulting in incorrect speedometer readings.

Procedure:

- Mark a distance of 100 metres on the ground
- Cover this distance at the desired speed and the required load.
- Measure the time in seconds
- Determine the actual speed from table 2

Table 2: Speed table

km/h r	m/min	sec/100m	km/h	m/min	sec/100m
3,5	58,3	102,9	5,8	96,7	62,1
3,6	60,0	100,0	5,9	98,3	61,0
3,7	61,7	97,2	6,0	100,0	60,0
3,8	63,3	94,8	6,1	101,7	59,0
3,9	65,0	92,3	6,2	103,3	58,1
4,0	66,7	90,0	6,3	105,0	57,1
4,1	68,3	87,8	6,4	106,7	56,2
4,2	70,0	85,7	6,5	108,3	55,4
4,3	71,7	83,7	6,6	110,0	54,6
4,4	73,3	81,9	6,7	111,7	53,7
4,5	75,0	80,0	6,8	113,3	53,0
4,6	76,7	78,2	6,9	115,0	52,2
4,7	78,3	76,6	7,0	116,7	51,4
4,8	80,0	75,0	7,1	118,3	50,7
4,9	81,7	73,5	7,2	120,0	50,0
5,0	83,3	72,0	7,3	121,7	49,3
5,1	85,0	70,6	7,4	123,3	48,7
5,2	86,7	69,2	7,5	125,0	48,0
5,3	88,3	68,0	7,6	126,7	47,4
5,4	90,0	66,7	7,7	128,3	46,8
5,5	91,7	65,4	7,8	130,0	46,2
5,6	93,3	64,3	7,9	131,7	45,6
5,7	95,0	63,2	8,0	133,3	45,0

- 4 Determine the dosage in litres per hectare (consult the packaging of the spray agents.)

The smaller the spray quantity per hectare, the smaller the required spray nozzle, the larger the quantity the larger the spray nozzle.



Large(r) droplets have a greater range but lead to higher usage and loss through dripping.
Small(er) droplets are carried by the air-flow. Economic in use but possible disadvantages are vaporizing and drifting.

- 5 Determine the orchard row spacing (distance between the rows of trees in metres)

- 6 Calculate the spray output per nozzle, using the following formulae, in litres per minute: litres per minute.

$$\text{Pumpcapacity (D)} \quad D = \frac{A \times B \times C}{600} \quad [\text{ltr/min}]$$

$$\text{Output per nozzle (F)} \quad F = \frac{D}{E} \quad [\text{ltr/min}]$$

Whereby

A: row spacing in metres	[m]
B: driving speed	[km/u]
C: Required crop spraying density	[l/ha]
E: Number of open spray nozzles*	

Example:

A = 3,5 m

B = 5 km/hr

C = 250 l/ha

E = 16

$$\text{Then: } D = \frac{3,5 \times 5 \times 250}{600} = 7,3 \quad \text{ltr/min}$$

$$\text{Thus: } F = \frac{7,3}{16} = 0,46 \quad \text{ltr/min/nozzle}$$

- Standard machine: $E_{\max} = 10$
- Cross flow machine 2,10m: $E_{\max} = 14$
- Cross flow machine 2,75m: $E_{\max} = 16$
- Cross flow machine 3,05m: $E_{\max} = 18$
- Cross flow machine 3,35m: $E_{\max} = 22$
- Triple-fan: $E_{\max} = 20$

- 7 Determine with the "output per nozzles" results, the type of nozzle and its required nozzle pressure.

Look up the "output per nozzle" value in table 3 and read off the associated nozzle type and working pressure.



Where possible choose the **bold and shaded** table pressure values. This is actually the ideal pressure range: The nozzles then produce droplets of the right size with a homogeneous distribution.

 In our example an "output per nozzle" of 0,46 ltr/min was calculated.
 Referring to table 3, the 0,46 value is found in the **208 lilac** column.
 Therefore we would use **208 lilac** nozzle at a pressure of 8×10^5 Pa, or **8 BAR**.

Table 3: output per nozzle.

Output per nozzle in litres per minute.								
Pressure	No / colour of nozzle.							
BAR 10^5 Pa	208 Lilac	210 Brown	212 Yellow	215 Orange	220 Red	223 Green	230 Blue or AMT-SM with a 5 hole under- layplate	AMT-SM 6-hole underlay plate
2,0	0,24	0,31	0,49	0,64	0,91	1,16	1,61	3,60
2,5	0,27	0,35	0,54	0,71	0,96	1,29	1,78	3,92
3,0	0,29	0,38	0,59	0,77	1,10	1,40	1,94	4,21
3,5	0,31	0,41	0,63	0,83	1,18	1,51	2,08	4,42
4,0	0,33	0,43	0,67	0,88	1,25	1,60	2,21	4,80
4,5	0,35	0,45	0,71	0,93	1,32	1,69	2,34	5,00
5,0	0,37	0,48	0,74	0,98	1,39	1,77	2,45	5,12
5,5	0,39	0,50	0,78	1,02	1,45	1,86	2,56	5,40
6,0	0,40	0,52	0,81	1,06	1,51	1,93	2,66	5,52
7,0	0,43	0,56	0,87	1,14	1,62	2,07	2,86	5,90
8,0	0,45	0,59	0,92	1,21	1,72	2,20	3,04	6,42
9,0	0,48	0,62	0,97	1,28	1,82	2,32	3,21	6,62
10,0	0,50	0,66	1,02	1,34	1,91	2,44	3,37	7,00
11,0	0,53	0,69	1,07	1,40	1,99	2,55	3,52	7,30
12,0	0,55	0,71	1,11	1,46	2,07	2,65	3,66	7,66
13,0	0,57	0,74	1,15	1,51	2,15	2,75	3,80	7,92
14,0	0,59	0,77	1,19	1,57	2,22	2,85	3,93	8,05
16,0	0,62	0,81	1,27	1,67	2,37	3,30	4,19	8,56
18,0	0,66	0,85	1,34	1,76	2,51	3,19	4,42	9,00
20,0	0,69	0,91	1,40	1,85	2,63	3,36	4,64	9,64



Instead of steps 6 and 7 it is also possible to use appendix 2 to determine the type of nozzle and corresponding pressure. In appendix 2 there is an exclusive use of tables and not formulae. Both methods are correct and may be used at your own preference.

8 Filling the tank

- When filling the tank act according to the manufacturers instruction for the crop protection agents with regard to mixing ratio and personal protection.
- First fill the tank to three quarter full with water and only then add the spraying agents; to avoid foaming.
- During this process watch out constantly for signs of overflowing.
- Ensure while filling that there is sufficient air ventilation in relation to the filling capacity of the pump or other filling device in use. The air ventilation lid should at least be removed.
- The liquid level in the tank must be monitored constantly using the tank level gauge. It is however recommended to fit an accurate water flow capacity meter in the supply pipe. In this way a perfect mix ratio is achieved.
- Before each spraying session the clean water tank, 120 litter, must be filled with clean water. This clean water is used to purge the spray piping after spraying.
- Before each spraying session the small clean water tank, 15 litter, must be filled with clean water. Moreover, there is a tap (underneath the suction filter) which supplies clean water from the small tank e.g. for washing hands.



This "clean" water is NOT drinking water.



Prevent all contact with the spraying agents. Should you accidentally come in contact with the spraying agents rinse it off immediately with water from the clean water tank and follow further the safety instructions on the packaging.



NEVER climb into the tank.

5.2 Spraying

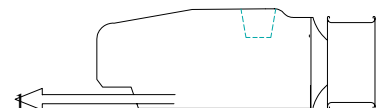
Spraying can commence when all the action points under §5.1 are completed. In this paragraph a series of actions are listed to ensure safe and correct spraying.

Initial actions:

- The machine is correctly attached to the tractor
- The coupling shaft has been correctly attached.
- The oil level of the pump and gearbox is correct.
- Suction and pressure parts have been checked
- The correct gears have been selected.
- Ensure that the required nozzles are open and of the correct type.
- The air-guides and vanes are correctly set.
- The tank is full.

Procedure for spraying:

- 1 Ensure that the accessories connection ball-tap is closed. (see fig.1.)
- 2 Ensure that the three-way tap is selected to the highest position, as illustrated on the label on the machine:
- 3 Ensure that the operating switches for the electric taps are in the null position (switched off).
- 4 Clean up the surrounding area of twigs, plastic bags etc. or anything which can be sucked into the fan causing damage to the blades.
- 5 The drive can now be applied to the machine by connecting the coupling shaft. By using the graph in Appendix 3 the pump delivery in litres per minute can be read off against various coupling shaft revolutions.



Maximum allowable revolutions: 540 rpm.

If the pump does not suck in water it is possible that there is air in the pump. Bleed air out of the system using the bleeder valve. (see fig.1, nr 5)

- 6 Now set the pressure, with a running pump, to the pressure determined in § 5.1.



Max. allowable pressure WM70-WM80 : 40×10^5 Pa (40 BAR)
 Max. allowable pressure CP104 : 50×10^5 Pa (50 BAR)

Use the pressure regulator to set the required pressure. (see fig.1). The pressure regulator has two important functions:

- a. A step less adjustment of the required pressure; achieved by turning the adjustment bolt.
- b. Keeping pressure constant during work independent of the spray quantity used.

With the standard Orchard Spray Machine, the pressure is manually adjusted. At additional cost an electrically operated pressure regulator can be supplied.

Manual adjustment:

- turning the adjustment bolt to the right (clockwise) increases the pressure.
- turning the adjustment bolt to the left (anticlockwise) reduces the pressure.
- the pressure is constantly given by the manometer.



Be careful of moving parts when manually adjusting, even though these are well protected.

- 7 Now spraying can begin.

- The electrical taps can be operated by using the Control unit.
- If the tractor has an open cabin, ear-defenders must be worn and suitable clothing must be worn.
- When moving or transporting the machine, follow the instructions given in Chapter 4.

5.3 After spraying

It is necessary to clean the machine and empty the tank after each spraying session. It is therefore sensible to estimate how much crop protection agents is required to complete the spraying session in order to reduce waste. When the pump starts to suck air, a small quantity of spray agents will still remain in the system and will not be sprayed: this is called the residue.

The residue volume (in litres) can be read off in table 4 for different angular tilting of the tank.

Table 4: Residue volume in litres

	Standard No cross flow	Cross flow 2,75 mtr	Cross flow 3,05 mtr	Cross flow 3,35 mtr	Triple- fan
Level	10,8	11,8	11,9	12,0	13,0
10% Gradient forwards	27,4	28,4	28,5	28,6	29,6
10% Gradient backwards	4,3	5,3	5,4	5,5	6,5
20% Right tilt	14,0	15,0	15,1	15,2	16,2
20% Left tilt	7,8	8,8	8,9	9,0	10,0

Residue procedures:

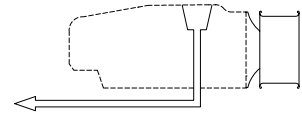
- Pump sucks air.
- Purge tank with clean water
- Spray this mixture over the previously sprayed crop; thus the old residue has been sprayed and the new residue has been strongly diluted.
- Empty the tank by means of the drain plug, and collect the new residue in a well sealed jerry-can (See figure 2) Tilting the machine a few degrees forwards will ease the emptying.



Use gloves during draining

Should you come in contact with the crop protection agents, in spite of the safety precautions, swill this off immediately with clean water from the small water tank.

- At the next opportunity mix the diluted residue with the next spray mixture and spray over the crops.
- Next set the three-way tap to the lowest position. This is illustrated on the label fixed to the machine as shown here: The system is now connected to the clean water tank. Spray this water also over the previously sprayed crop. Because the content of the clean water tank is limited, 120 litter, it is recommended to spray using a low coupling shaft rotation selection. (100/150 rpm). This enables a longer period of spraying to be performed, resulting in the pump, nozzles, filters and piping being cleaned thoroughly.



The electrical taps are opened before purging the nozzles. Ensure all nozzles are open (including the two lowest).

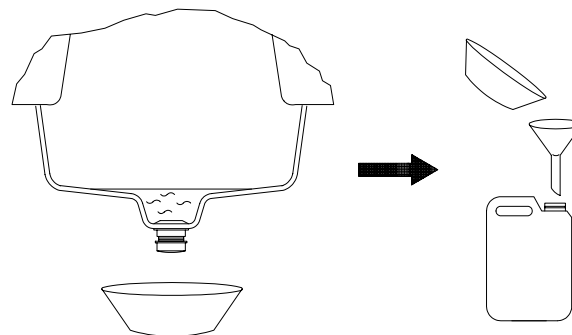


Figure 2: Vidange des restes

5.4 Storage

Storage is sub-divided into two: short storage and long time storage. It goes without saying that the long time storage requires a number of additional actions over and above the short storage :

Short storage:

- The tank and the piping must be emptied and purged.
- Ensure when moving the machine that the support foot securing pin is removed and safely stored.
- Lay the coupling shaft onto its support.
- Remove the control unit from the tractor!
- When storing at an angle on hilly ground, place wheel blocks against the wheels to prevent movement.

Additional actions for long term storage:

- Clean the machine extra carefully. If necessary allow water to stand in the tank for a few days. Do not forget to purge the tank and system afterwards.
- Remove the covers from the tank to allow full ventilation.
- When frost is forecast, the pump and piping must be completely drained. (see Chapter 6).

6 Maintenance



All maintenance (where possible) should be carried out with the coupling shaft disconnected from the tractor and a clean machine.

6.1 General

The MUNCKHOF spray-machines are generally constructed using a high-pressure oil-bathed plunger pump or a membrane pump.

The plunger of the oil-bathed plunger pump system, which has been patented by MUNCKHOF, ensures that the seals do not move as is usual in other suction pumps. The play between the plunger and the cylinder wall is bigger which in practice leads to a much smaller chance of damage to the plunger or sleeves by hard and compacted substances in the crop protection agents. The purpose of one sleeve per cylinder is to prevent leakage of the crop protection agents, whereas a second prevents oil leakage from the sump. For each plunger these two sleeves are separated by a spacer with a leakage hole underneath. The correct working of each plunger can be assessed by observing where, how much and what kind of mixture is leaking. An occasional small oil or water leak via these holes is no cause for concern. However, should the ratio and amount of oil or water increase, it will point to damaged or worn plunger or sleeve. In this case replace the defective parts.

All parts that come in contact with crop spraying liquid have been manufactured out of rust resistant materials and have an almost unlimited life. Up to this point in time no detrimental effects by the crop protection agents to our construction materials have been observed.

6.2 Maintenance before each use

1 Filters:

Before each use the filters (both suction and pressure) should be checked and cleaned:

Suction filter:

The intake suction filter (standard: gauze width 0.35 mm = 50 MESH), is fitted to the front of the machine and has an sliding valve to enable dismounting (for cleaning) with a full tank. (see fig.3.)

- 1 Press the yellow knob, turn it to the left a quarter turn (90°) and remove it, the filter is now closed.
- 2 Unscrew the lid. A small amount of liquid may escape.
- 3 Check the suction filter, clean or replace it if necessary.
- 4

After the filter has been cleaned ensure that during re-assembly the O-ring seals correctly!. If this seal is incorrectly seated the pump will suck in air. When assembling the lid it is recommended that the screw thread is greased slightly in order to facilitate easy removal next time.

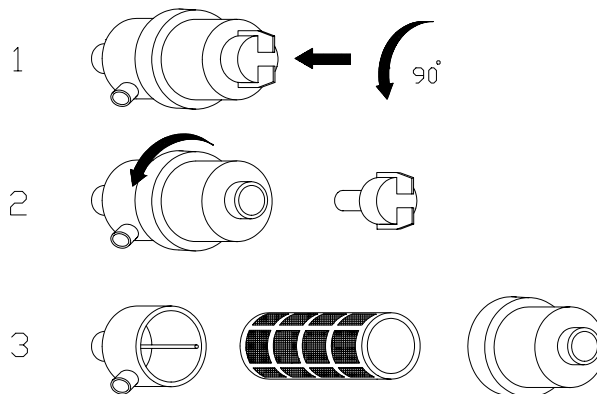


Fig. 3: Suction filter

Pressure filter:

The pressure filter (gauze width 0.6 mm) is screwed directly onto the pressure housing. The filter can be removed by unscrewing the filter housing lid. When re-assembling the lid it is recommended that the screw thread is greased slightly in order to facilitate easy removal next time.

2 Fan

It is important to keep the fan and fan housing clean at all times. Dirt and deposits have a detrimental effect on the air-stream and could lead to an unbalanced fan (noticeable by vibrations). Should vibrations occur the machine should be stopped immediately, the cause (dirt and/or worn bearing etc.) should be located and rectified before resuming work.

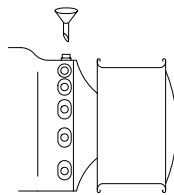
3 Coupling shaft

The coupling shaft needs to be greased after every 8 hours of operation. Consult the coupling shaft manual for further information.

6.3 Maintenance after 100 hours

1 Gearbox

The gearbox oil need not be changed, but the oil-level should be checked after each 100 hours of operation. For this purpose a small glass gauge is mounted on the side of the gearbox. The oil-level should be on or above the red dot on this glass gauge. If the oil-level is below this dot top-up with oil (SAE90). The cause of a possible leakage should be found and rectified. Top-up via the vent hole found at the top towards the back of the tank.



2 Mechanical propulsion agitator system

The machine is fitted with a mechanical propulsion agitator shaft (see fig.4). In this system only the steering shaft needs greasing. This is done via the grease nipple (1) which is mounted in the gland (2). For this purpose two holes were made in the protection cover.

If the steering shaft leaks slightly rectify this by tightening the two gland mounting bolts a little. If this does not solve the problem a new packing gasket must be fitted.

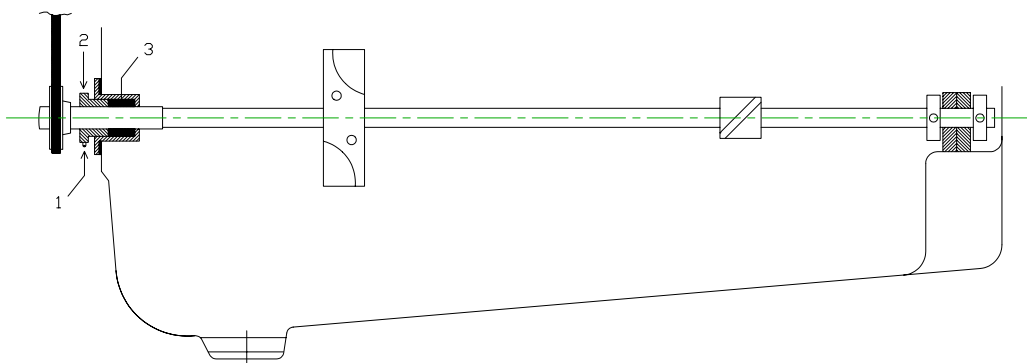


Fig. 4: Mechanical propulsion agitator system.

3 Pump

It is extremely important to change the oil in the pump and this must be done at least twice a year or after every 100 hours of operation. Use SAE 10W-30 oil or one of comparable quality. It is best to do this when the pump has been run and the oil is still warm.

- 1 To do this loosen the drain plug and collect the oil from the sump using a funnel and suitable container. The drain plug is on the side of the pump for the WM70 model and underneath the pump for the WM80 and CP104 model.
- 2 After the oil has been drained replace the drain plug to the pump (use packing material) and re-fill with oil up to the highest mark. The CP104 pump has to be filled with oil to the midpoint of the gauge. (see table 5)

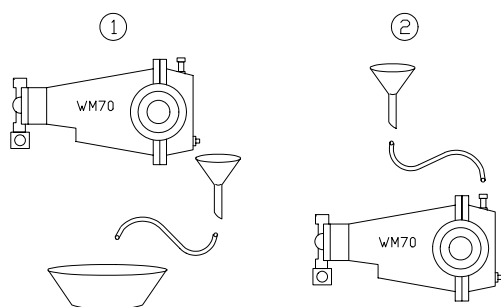


Table 5: Oil change

Pump model	quantity oil in ltrs	Oil Quality
WM70	1,75	SAE 10W-30
WM80	2,50	
CP104	3,50	



The first oil change should be performed after the first 25 hours of operation in order to remove grinding dust and contamination.

4 Nuts and bolts.

Ensure that all nuts and bolts are still tight after every 100 hours of use.

5 Triple-fan

If the machine is fitted with a Triple-fan (see fig. 5) V-belt "B" must be checked for wear after each 100 hours of operation. If necessary tighten with pressure roller "A".

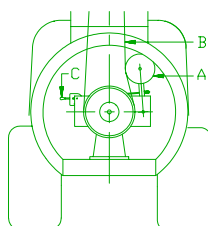


Fig. 5

6.4 Maintenance before each spray-season.

To ensure an optimum efficiency and life of the machine, a yearly maintenance is strongly recommended. This means that the entire machine is checked and examined by qualified persons. Contact the nearest dealer or manufacturer to arrange for yearly maintenance.

Not all actions need to be done by qualified persons. On the next page a number of yearly checks, which you can do yourself, are described.

1 Checking nozzle performance.

Each year before spray-season all nozzles must be checked. The nozzle performance is measured using a hose and measuring jug.

Procedure:

- Slide the end of the hose over the nozzle tip (ensure that there is no liquid leaking between hose and tip.)
- Put the other end of the hose in the measuring jug.
- Operate the spray-machine for 1 minute.
- Determine the amount of liquid in the measuring jug and check this against the values shown in table 3. (see § 5.1)
- Replace the nozzle if there is more than 10% deviation from the table value.

Repeat the above procedure to check each nozzle.

2 Checking the manometer

The manometer must be checked once every year. A certified test manometer can be attached to the ¼" (inside thread) distribution connector underneath the fitted manometer.

3 Checking the pump

A flow-volume meter can be connected to the pump using a supplied connector (inside screw gas-thread of ½"). This connection can be made to the ½" ball-tap which is mounted to the pressure filter housing. In this way the flow volume can be measured and checked. It is recommended to do this check prior to each spray-season.

6.5 Frost danger

Whenever the temperature falls below 0°C, pump and spray piping must be drained fully.

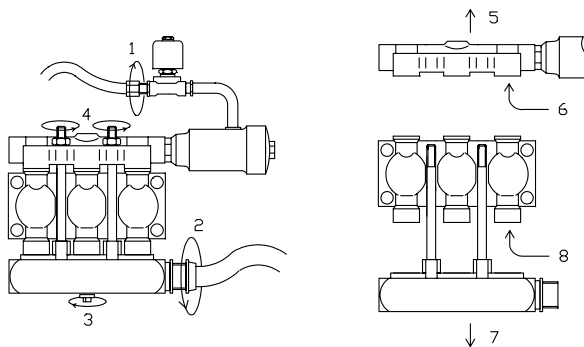


Ensure that all the drained off water is collected, as it will still be polluted with the (heavily diluted) crop protection agents. This polluted water should be used during the next spray-session.

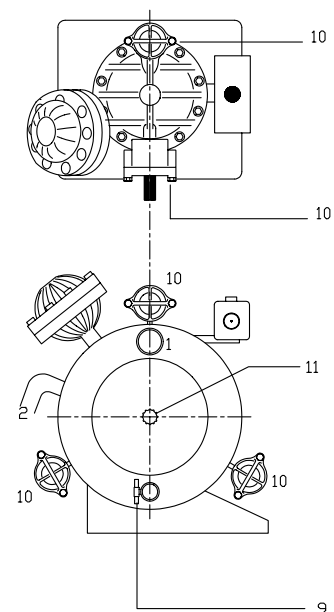
Procedure:

- 1 Disconnect the pressure piping from the electrical taps and drain them.
- 2 Disconnect the suction pipe from the pump and drain it.

WM 70



CP 104



WM 70 - WM 80

- 3 Remove the drain plug from the suction sump and drain it.
- 4 Remove the two nuts holding the valve cover.
- 5+6 Lift the valve cover and drain it by pressing the valves upwards with a finger.
- 7+8 Lower the valve sump slightly and drain it by pressing each valve upwards with a finger.

CP 104

- 9 Open the emptying-plugs on both sides of the pump.
- 10 Remove the top of the valve cage and remove the valve.
- 11 Be sure that the gear box is engaged in the free position. The shaft can now be turned several times by hand.

- 12 Disconnect the connector from the clean water tank at the three-way tap.
- 13 Drain the spray piping feeding the nozzles by opening the red taps located under the machine.
- 14 If the machine is fitted with cross-flow casings, drain these also by using the red ball-taps at the bottom of the casing.
- 15 If the machine is fitted with the triple-fan, drain this by disconnecting the pressure piping at the two extra electrical taps.
- 16 Drain each nozzle holder by removing the diaphragm coupling from each holder.
- 17 Turn all the ball-taps in the spray piping to the $\frac{3}{4}$ closed position. This is also done for frost protection.
- 18 When there is a frost forecast the manometer must be disconnected and removed for storage in a frost-free area.

During or after a period of frost it is necessary to check that NO ice has been formed or left in the pump or piping. Before starting the pump it is advisable to turn the pump crankshaft a few turns by hand to ensure the plungers can move freely. Remember that a pump seldom freezes-up and fails, but it will fail if it is run with ice in the system.



Before storage it is also possible to use an anti-freeze mixture and pump this through the system until it reaches the nozzles, to prevent the pump and piping freezing up. Close all taps and do not forget to drain and purge the system of anti-freeze before the following spray-season.



The best way is to store the machine in a frost-free area.

7

Trouble shooting

It is necessary to keep all suction-pipe connections absolutely airtight, as badly fitted or leaking ones result in poor pump performance. All rubber seals must be in good condition. When cleaning the filter ensure that before re-assembling, all seals and flanges are carefully cleaned. This is important because air-leaks into the system will result in interruptions in the flow of liquid. If this is the case it is usually noticeable by a hammering sound.



The OBSERVATION of the return-flow to the tank gives an excellent indication whether or not the pump is working correctly. Our advice to the user is to observe what is normal or abnormal in the return flow to the tank. Use this knowledge to assess whether or not the pump is working correctly.

Failure and correction:

Beneath possible failures and possible causes are indicated. The part causing the failure, must be checked, and if the problem cannot be solved differently, repaired or replaced.

- 1 The pump does not supply water:
 - A. If water flows through the return-flow piping with the pressure piping open and unhindered, then the pressure regulator is not working correctly.
 - B. If no water flows through the return-flow piping the possible cause is a blocked suction system. For example; blocked suction filter, blocked suction pipe or the suction hose is stuck to the bottom of the tank.
 - C. When starting up the pump air may be trapped in the system. Open the bleeder-valve to let the air escape. Close the bleeder-valve again.
 - D. Blocked or mal-functioning valves.

- 2 The pump does not reach the required pressure although it pumps out liquid
 - A. A mal-functioning pressure regulator.
 - B. Poor valve condition (broken valve spring).
 - C. Air-leakage in the suction system.
 - D. A completely or partially blocked suction filter.
 - E. Too many and/or too large spray-nozzle sizes are fitted.
 - F. The bleed-tap is open.
 - G. The chemical mixer tap in the filling sieve (if installed) is open.

- 3 The pump is supplying a pulsating liquid-flow:

Ensure that there is no deposit preventing correct contact of the valves in their seating. If the valves or seating are worn or damaged re-place them. Check also that the valve-springs are in good condition.

- 4 A fluctuating pressure indication on the manometer:

- A. The pump draws in air. This can mean two things; the tank is empty or the suction piping are not air-tight.
- B. One or more valves are mal-functioning.
- C. Poor condition of the valves (broken valve-spring).
- D. Air-leakage in the suction system.
- E. A completely or partially blocked suction filter.

- 5 A constant fall in pressure during spraying:

Return-flow is normal. Open the electrical taps. Return-flow stops. In this case the pressure loss is a result of pumping out liquid at a faster rate than it can be replenished. Fit smaller nozzle sizes.

- 6 Irregular loss of pressure:

Return-flow is less than normal with a hissing sound and air-bubbles. This is caused by an air-leak in the suction system; leaks in the suction filter, hose connections or between plunger and plunger sleeves (occurs especially when drawing water from a well).

Solution: examine or re-new the sealing-rings in the suction system, tighten the hose-clamps, check the hoses for porosity and also check the water facing side of the plunger sleeves.

- 7 Return-flow irregular:

This is caused by mal-functioning valves or poor valve seating. Clean or re-new them.

- 8 Water in the oil

A: Plunger pump : plunger sleeves are worn or broken.

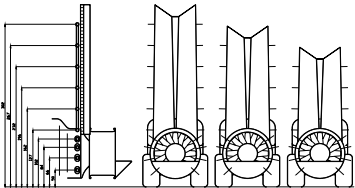
B: Membrane pump : membrane worn or broken

8 Accessoires

Standard on Orchard Spray-Machines.

- Double large angle coupling shaft.
- Tri-matic non-drip nozzle holders, fitted with four ALBUZ ATR nozzles.
- Integrated clean water tank, 120 litter for purging pump and piping.
- Integrated clean water tank, 15 litter, for washing hands
- Zinc finished frame.
- LP-tyres, 600 + 1000 + 1500 ltr tanks: 29-12.5x15. 2000 ltr 11.5x15.

Accessoires:

- Cross-flow system 2.10 mtr*. weight: 25 kg
 - Cross-flow system 2.75 mtr*. weight: 40 kg
 - Cross-flow system 3.05 mtr*. weight: 50 kg
- 
- Set of electrically operated taps (incl. remote control).
 - Additional set of electrically operated taps (for the elevated cross-flow air-outlets).
 - Manually operated ball-taps, fitted to an adjustable frame to enable operation from the tractor.
 - Electrically operated pressure regulator (incl. remote control).
 - Electrical/hydraulic controlled Triple-Fan.
 - Computer. (excl. of electrical taps and regulator).
 - Spray monitor LH 1200 (excl. of electrical taps and regulator).
 - Vehicle lighting set, in accordance with national traffic laws (incl. of warning triangle and side reflectors).
 - Extra strong double large angle coupling shaft.
 - 2" Tank filler hose with filter (5 mtr).
 - Chemical mixer in filling sieve.
 - Two extra nozzles fitted to the standard machine. (12 tips instead of 10).
 - Hops air-guide set 8105023.00594.
 - 2 Wheel-chocks.

* Cross-flow system

The cross-flow system consists of one cross-flow casings with matching piping. The MUNCKHOF cross-flow casings will fit any 105 spray-machine and will certainly save an additional 10% of crop protection agents. Moreover the casings are relatively easy to mount and dismount, as there are only two mounting points: the mounting-ring with eight M8 bolts and a two stay bars fixed with eight M8 and four M12 bolts.

9 Ordering spare parts

Various spare parts for the machine are shown and described in the supplied spare parts book. On the following page addresses are given of the dealers where orders can be made. Should there be no dealer in your area, you can of course contact the manufacturer in Horst, the Netherlands direct. The address:

Machine factory J.M. van den Munckhof B.V.

Meterikseweg 115
5961 CV Horst, Netherlands
Telephone 00-31-77-398-1001
Fax 00-31-77-398-6485

You may use the order-coupon included in the manual. Send it, or a copy of the coupon to your dealer or to the machine factory specifying the following:

1. Quantity
2. Article code of the required part
3. A description of the part

Ad 2. The article code can be located using the drawing of the spare parts and referring to the listing in the supplied spare parts book. Look for the required part in the appropriate drawing. A position number is indicated on the drawing. With the position number, you can look for the article code in the spare parts book.



As we constantly strive to improve our products, we cannot accept complaints which result from changes that have been implemented.

Appendix I

Noise-Level Measurement

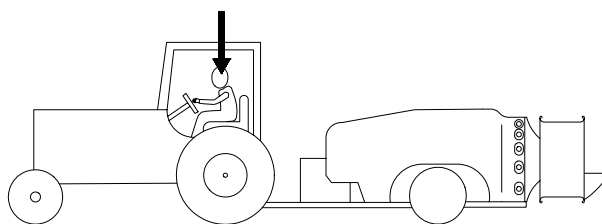
1 Measuring conditions and circumstances

Measuring must be performed in an environment similar to the practical operation conditions for the machine and at the maximum coupling shaft speed (540 r.p.m.)

2 Towing vehicle/Tractor Fendt

Type: 270 V
Power: 72 Ps
Coupling shaft: 540 r.p.m

3 Diagram showing measuring position:



Point of measurement approximately at the position of an operators ears.

4 Noise measurement results:

Noise level at the ears of the operator

	Tractor		Tractor + machine	
	Open	closed	open	closed
cab window				
At ear of operator	79	79	84	82

5 Highest measured value: 90 Db(A)

Appendix II

Adjusting using tables:

This appendix is an alternative method covering steps 6 and 7 of §5.1. With the results previously calculated from the actions in § 5.1 it will only take three more steps to determine the operating pressure and the type of nozzle size by just using the tables and without calculation. After following this appendix, continue further with § 5.1 point 8.



Mark the established values in the tables.

Step 1

Read off the row coverage time in min/ha using the distance between the rows and the tractor row speed. When row coverage speed and distance between the rows are known, the actual row coverage time or spray nozzle opening time in min/ha can be read off in table B1 below. Moreover, the coverage in kilometres per hectare is given in the bottom line of the table.

Table B1: Actual row coverage time in min/ha

Distance between rows [m]:		2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5	7,0
Tractor driving speed	2,0 km/h	120	100	87	75	67	60	55	50	45	43 min/ha
	2,5 km/h	96	80	70	60	53	48	44	40	36	34 min/ha
	3,0 km/h	80	66	58	50	44	40	36	33	30	28 min/ha
	3,5 km/h	69	57	50	43	38	34	31	29	26	24 min/ha
	4,0 km/h	60	50	44	37	33	30	27	25	22	21 min/ha
	4,5 km/h	53	44	39	33	30	27	24	22	20	19 min/ha
	5,0 km/h	48	40	35	30	27	24	22	20	18	17 min/ha
	5,5 km/h	44	36	32	27	24	22	20	18	16	16 min/ha
	6,0 km/h	40	33	29	25	22	20	18	17	15	14 min/ha
	6,5 km/h	37	30	27	23	20	18	17	15	14	13 min/ha
	7,0 km/h	34	28	25	21	19	17	16	14	13	12 min/ha
	8,0 km/h	30	25	22	19	17	15	14	12	11	11 min/ha
	9,0 km/h	27	22	19	17	15	13	12	11	10	9 min/ha
	10,0 km/h	24	20	17	15	13	12	11	10	9	8 min/ha
Distance covered per ha:		4,0	3,3	2,9	2,5	2,2	2,0	1,8	1,7	1,5	1,4 km/ha

Step 2

Spray quantity in ltrs/min is read off using the actual row coverage time (Table B1) and spray quantity.

The row coverage time determined in step 1, gives the read off in table B2 for the spray output volume in ltrs/min. and the quantity of spray agents in ltrs/ha. If the pump can not supply the determined quantity, a slower driving speed must be chosen.

Table B2: Spray agents output in ltrs/min

Row coverage in [min/ha].		10	15	20	25	30	35	40	45	50	55	60	65	70	80	90 min/ha	
Step 2	Required spray agents quantity	100 l/ha	10	6,5	5,0	4,0	3,2	2,7	2,5	2,2	2,0	1,6	1,6	1,5	1,5	1,0	0,8 l/min
		150 l/ha	15	10	7,5	6,0	5,0	4,5	4,0	3,5	3,0	2,5	2,5	2,5	2,0	2,0	1,5 l/min
		200 l/ha	20	13	10	8,0	6,5	5,5	5,0	4,5	4,0	3,5	3,5	3,0	3,0	2,5	2,0 l/min
		250 l/ha	25	16	12	10	8,5	7,0	6,0	5,5	5,0	4,5	4,0	4,0	3,5	3,0	3,0 l/min
		300 l/ha	30	20	15	12	10	9	8	7	6	5	5	5	4	4	3 l/min
		400 l/ha	40	27	20	16	13	11	10	9	8	7	7	6	6	5	4 l/min
		500 l/ha	50	33	25	20	17	14	12	11	10	9	8	8	7	6	6 l/min
		600 l/ha	60	40	30	24	20	17	15	13	12	11	10	9	9	8	7 l/min
		700 l/ha	70	47	35	28	23	20	17	16	14	13	12	11	10	9	8 l/min
		800 l/ha	80	53	40	32	27	23	20	18	16	15	13	12	11	10	9 l/min
	1000 l/ha	100	67	50	40	33	29	25	22	20	18	17	15	14	12	11 l/min	
	1200 l/ha	120	80	60	48	40	35	30	27	24	22	20	18	17	15	13 l/min	
	1400 l/ha	140	95	70	55	45	40	35	30	28	25	24	22	20	17	15 l/min	
	1600 l/ha	160	106	80	64	53	45	40	35	32	29	27	25	23	20	18 l/min	
	1800 l/ha	180	120	90	70	60	50	45	40	36	33	30	28	25	23	20 l/min	
	2000 l/ha	200	134	100	80	67	57	50	45	40	36	33	30	29	25	22 l/min	
	2200 l/ha	220	150	110	90	70	60	55	50	44	40	37	34	32	27	24 l/min	
	2500 l/ha	250	170	125	100	85	70	60	55	50	45	42	39	36	30	28 l/min	

Step 3 The coloured nozzle size combination is determined by using the spray agents output and the number of open nozzles.

Procedure:

- See table B3.
- Look up the spray agents output in ltrs/min matching the number of nozzles being used.



Wherever possible always use the **bold** and shaded areas in the table.

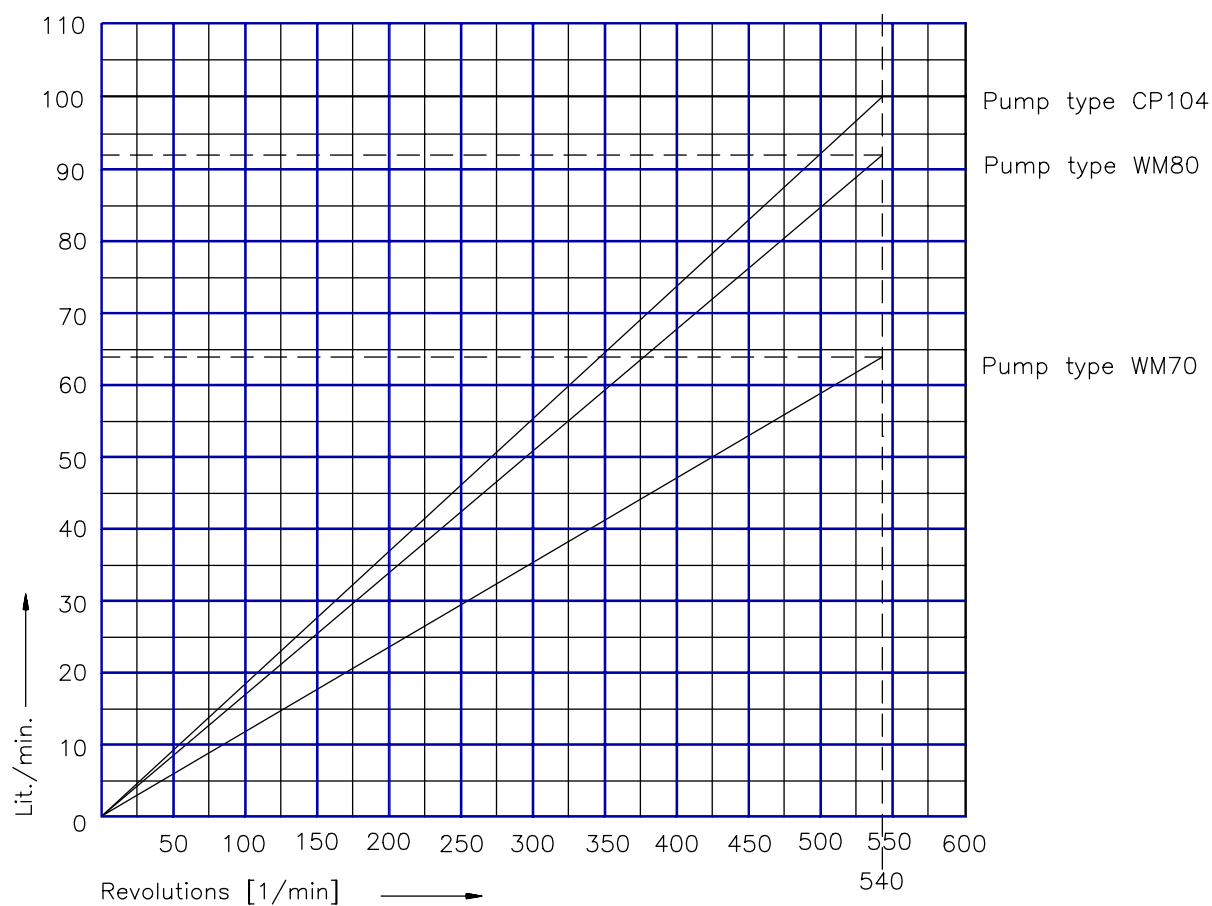
- * If the required spray agents output in ltrs/min can not be achieved with the total number of open nozzles, then larger or smaller nozzle types should be chosen.
- * If the set number of open nozzles being used is not covered in the table, then calculate from the table as follows:
 - If using 4 nozzles, look up the row for 8 nozzles and half the value shown.
 - Or if using an odd number of nozzles, find the table value for 10, divide this by 10 and then multiply by the actual number of nozzles.
- Read off the pressure and determine the right nozzle size.

Table B3: colour nozzle combination for given spray agents output in ltrs/min

Nozzles colour	Nozzles quantity	Pressure [BAR] (1 BAR = 1x10 ⁵ Pa)											
		6	7	8	9	10	11	12	13	14	16	18	20
ATR-Albuz Lilac (208)	6	2,40	2,58	2,70	2,88	3,00	3,18	3,30	3,42	3,54	3,72	3,96	4,14
	8	3,20	3,44	3,60	3,84	4,00	4,24	4,40	4,56	4,72	4,96	5,28	5,52
	10	4,00	4,30	4,50	4,80	5,00	5,30	5,50	5,70	5,90	6,20	6,60	6,90
	12	4,80	5,16	5,40	5,76	6,00	6,36	6,60	6,84	7,08	7,44	7,92	8,28
	14	5,60	6,02	6,30	6,72	7,00	7,42	7,70	7,98	8,26	8,68	9,24	9,66
	16	6,40	6,88	7,20	7,68	8,00	8,48	8,80	9,12	9,44	9,92	10,56	11,04
	18	7,20	7,74	8,10	8,64	9,00	9,54	9,90	10,26	10,62	11,16	11,88	12,42
	20	8,00	8,60	9,00	9,60	10,00	10,60	11,00	11,40	11,80	12,40	13,20	13,80
ATR-Albuz Brown (210)	6	3,12	3,36	3,54	3,72	3,96	4,14	4,26	4,44	4,62	4,86	5,10	5,46
	8	4,16	4,48	4,72	4,96	5,28	5,52	5,68	5,92	6,16	6,48	6,80	7,28
	10	5,20	5,60	5,90	6,20	6,60	6,90	7,10	7,40	7,70	8,10	8,50	9,10
	12	6,24	6,72	7,08	7,44	7,92	8,28	8,52	8,88	9,24	9,72	10,20	10,92
	14	7,28	7,84	8,26	8,68	9,24	9,66	9,94	10,36	10,78	11,34	11,90	12,74
	16	8,32	8,96	9,44	9,92	10,56	11,04	11,36	11,84	12,32	12,96	13,60	14,56
	18	9,36	10,08	10,62	11,16	11,88	12,42	12,78	13,32	13,86	14,58	15,30	16,38
	20	10,40	11,20	11,80	12,40	13,20	13,80	14,20	14,80	15,40	16,20	17,00	18,20
ATR-Albuz Yellow (212)	6	4,86	5,22	5,52	5,82	6,12	6,42	6,66	6,90	7,14	7,62	8,04	8,40
	8	6,48	6,96	7,36	7,76	8,16	8,56	8,88	9,20	9,52	10,16	10,72	11,20
	10	8,10	8,70	9,20	9,70	10,20	10,70	11,10	11,50	11,90	12,70	13,40	14,00
	12	9,72	10,44	11,04	11,64	12,24	12,84	13,32	13,80	14,28	15,24	16,08	16,80
	14	11,34	12,18	12,88	13,58	14,28	14,98	15,54	16,10	16,66	17,78	18,76	19,60
	16	12,96	13,92	14,72	15,52	16,32	17,12	17,76	18,40	19,04	20,32	21,44	22,40
	18	14,58	15,66	16,56	17,46	18,36	19,26	19,98	20,70	21,42	22,86	24,12	25,20
	20	16,20	17,40	18,20	19,40	20,40	21,40	22,20	23,00	23,80	25,40	26,80	28,00
ATR-Albuz Orange (215)	6	6,36	6,84	7,26	7,68	8,04	8,40	8,76	9,06	9,42	10,02	10,56	11,10
	8	8,48	9,12	9,68	10,24	10,72	11,20	11,68	12,08	12,56	13,36	14,08	14,80
	10	10,60	11,40	12,10	12,80	13,40	14,00	14,60	15,10	15,70	16,70	17,60	18,50
	12	12,72	13,68	14,52	15,36	16,08	16,80	17,52	18,12	18,84	20,04	21,12	22,20
	14	14,84	15,96	16,94	17,92	18,76	19,60	20,44	21,14	21,98	23,38	24,64	25,90
	16	16,96	18,24	19,36	20,48	21,44	22,40	23,36	24,16	25,12	26,72	28,16	29,60
	18	19,08	20,52	21,78	23,04	24,12	25,20	26,28	27,18	28,26	30,06	31,68	33,30
	20	21,20	22,80	24,20	25,60	26,80	28,00	29,20	30,20	31,40	33,40	35,20	37,00
ATR-Albuz Red (220)	6	9,06	9,72	10,32	10,92	11,46	11,94	12,42	12,90	13,32	14,22	15,06	15,78
	8	12,08	12,96	13,76	14,56	15,28	15,92	16,56	17,20	17,76	18,96	20,08	21,04
	10	15,10	16,20	17,20	18,20	19,10	19,90	20,70	21,50	22,20	23,70	25,10	26,30
	12	18,12	19,44	20,64	21,84	22,92	23,88	24,84	25,80	26,64	28,44	30,12	31,56
	14	21,14	22,68	24,08	25,48	26,74	27,86	28,98	30,10	31,08	33,18	35,14	36,82
	16	24,16	25,92	27,52	29,12	30,54	31,84	33,12	34,40	35,52	37,92	40,16	42,08
	18	27,18	29,16	30,96	32,76	34,38	35,82	37,26	38,70	39,96	42,66	45,18	47,34
	20	30,20	32,40	34,40	36,40	38,20	39,80	41,40	43,00	44,40	47,40	50,20	52,60
ATR-Albuz Green (223)	6	11,58	12,42	13,20	13,92	14,64	15,30	15,90	16,50	17,10	18,18	19,14	20,16
	8	15,44	16,56	17,60	18,56	19,52	20,40	21,20	22,00	22,80	24,24	25,52	26,88
	10	19,30	20,70	22,00	23,20	24,40	25,50	26,50	27,50	28,50	30,30	31,90	33,60
	12	23,16	24,84	26,40	27,84	29,28	30,60	31,80	33,00	34,20	36,36	38,28	40,32
	14	27,02	28,98	30,80	32,48	34,16	35,70	37,10	38,50	39,90	42,42	44,66	47,04
	16	30,88	33,12	35,20	37,12	39,04	40,80	42,40	44,00	45,60	48,48	51,04	53,76
	18	34,74	37,26	39,60	41,76	43,92	45,90	47,70	49,50	51,30	54,54	57,42	60,48
	20	38,60	41,40	44,00	46,40	48,80	51,00	53,00	55,00	57,00	60,60	63,80	67,20
ATR-Albuz Blue (230)	6	15,96	17,16	18,24	19,26	20,22	21,12	21,96	22,80	23,58	25,14	26,52	27,84
	8	21,28	22,88	24,32	25,68	26,96	28,16	29,28	30,40	31,44	33,52	35,36	37,12
	10	26,60	28,60	30,40	32,10	33,70	35,20	36,60	38,00	39,30	41,90	44,20	46,40
	12	31,92	34,32	36,48	38,52	40,44	42,24	43,92	45,60	47,16	50,28	53,04	55,68
	14	37,24	40,04	42,56	44,94	47,18	49,28	51,24	53,20	55,02	58,66	61,88	64,96
	16	42,56	45,76	48,64	51,36	53,92	56,32	58,56	60,80	62,88	67,04	70,72	74,24
	18	47,88	51,48	54,72	57,78	60,66	63,36	65,88	68,40	70,74	75,42	79,56	83,52
AMT-SM 5-hole underlayplate	20	53,20	57,20	60,80	64,20	67,40	70,40	73,20	76,00	78,60	83,80	88,40	92,80

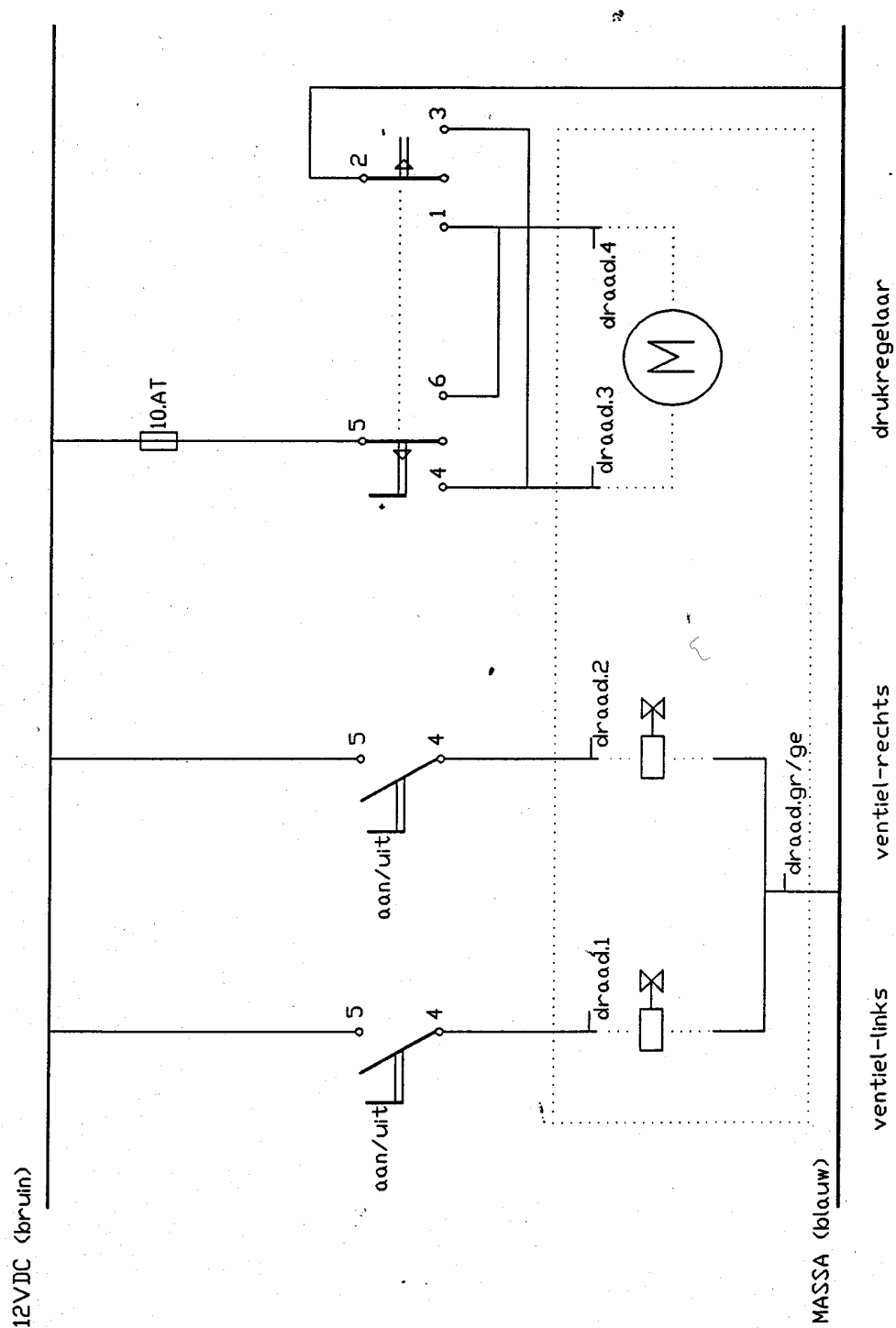
Appendix III

The graph below shows the pump yield for both the WM 70, WM 80 and CP 104 pump models plotted against the coupling shaft revolutions. The coupling shaft revolutions should never exceed 540 r.p.m. at any time.



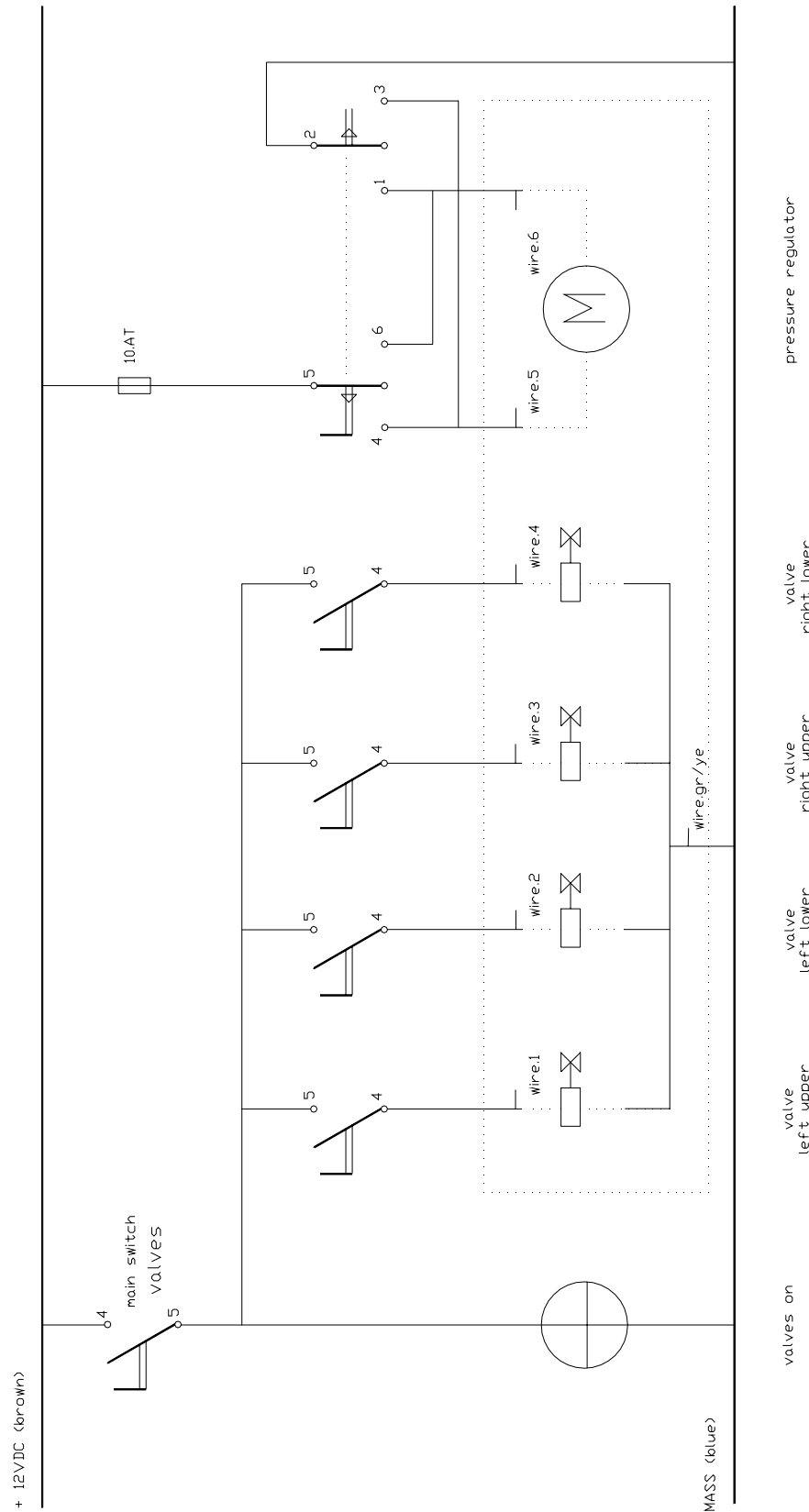
Appendix IV

Electrical diagram orchard spray-machine ; standard.



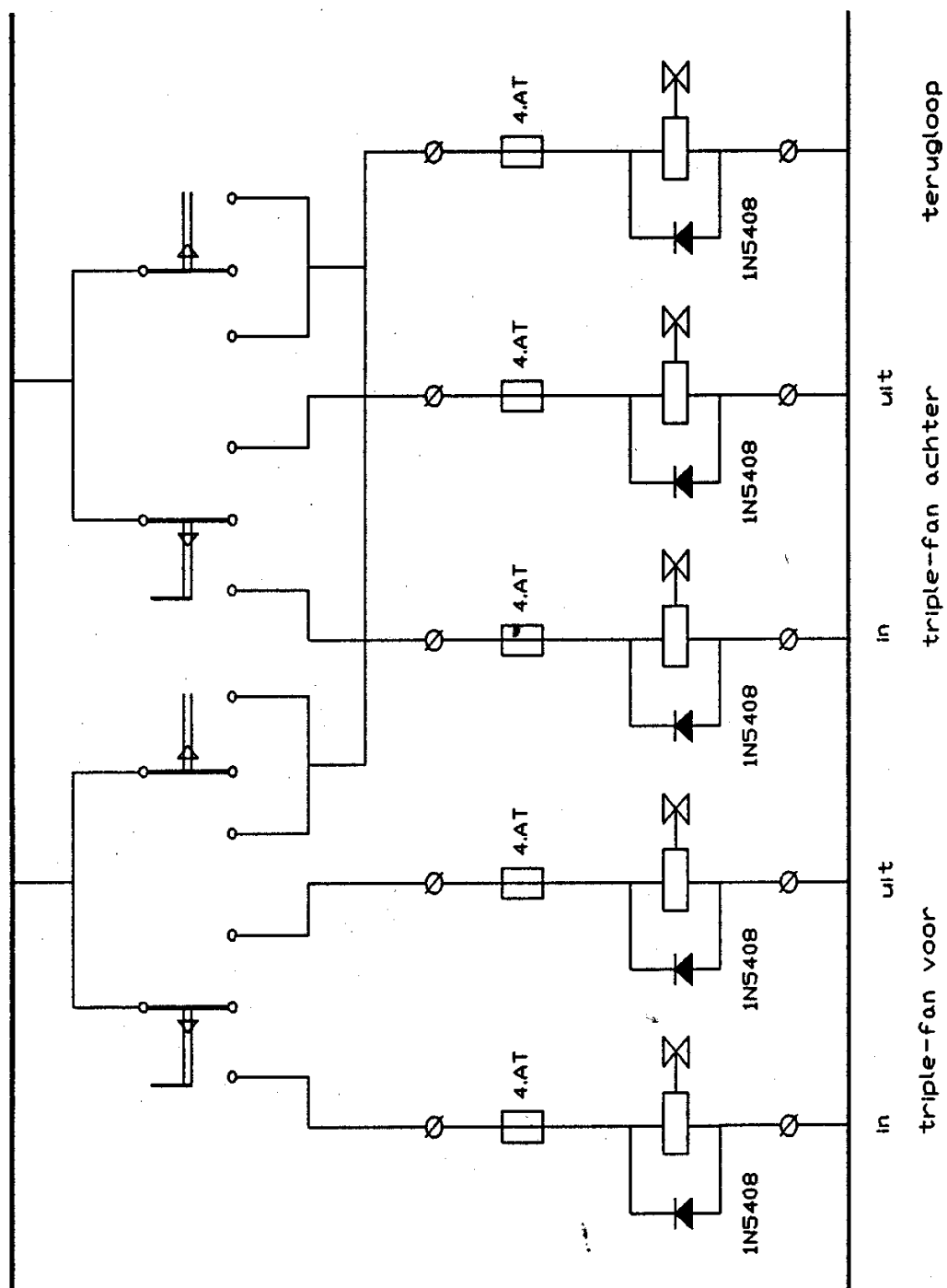
Appendix V

Electrical diagram orchard spray-machine; Triple-Fan



Electrical diagram orchard spray-machine; control Triple-Fan.

If there are any valves fixed to the towing vehicle then this diagram does not have to be used.



Appendix VI

Length and Mass

English and American Length units

1 mm	= 0.04 inch [in]
1 m	= 3.3 foot [ft]
1 m	= 1.09 yard [yd]
1 km	= 0.625 mile

Areas

$$1 \text{ ha} = 10.000 \text{ m}^2$$

English and American area units

1 cm ²	= 0.155 in ²
1 cm ²	= 0.001 ft ²
1 m ²	= 1.2 yd ²
1 ha ²	= 0.386 square mile

Volume, contents

$$1 \text{ litre} = 1 \text{ dm}^3 = 0.001 \text{ m}^3$$

English and American volume units

1 cm ³	= 0.061 in ³
1 m ³	= 1.308 yd ³
1 dm ³	= 0.0353 ft ³

English volume units

$$1 \text{ cm}^3 = 16.9 \text{ minim}$$

$$1 \text{ dm}^3 = 0.183 \text{ gal}$$

American volume units

$$1 \text{ cm}^3 = 16.23 \text{ minim}$$

$$1 \text{ dm}^3 = 0.264 \text{ gal}$$



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info@munckhof.org

Name Company : _____
 Address : _____
 Place : _____ Postcode : _____
 Telephone : _____ Fax : _____
 Kind of machine : _____ Type : _____
 Serial no : _____ Year of constr : _____
 (Serial no. Pump): _____
 Date of Delivery : _____ Date of break down : _____
 Engineer : _____

Date : Signature :

[illegible]

[illegible]

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EG-Conformiteitsverklaring

EC Declaration of Conformity EG-Konformitätserklärung
Déclaration de conformité pour la CEE CEE Declaración de Conformidad

Wij/we/wir/nous/nosotros, Machinefabriek J.M. van den Munckhof B.V.
Meterikseweg 115, Horst Nederland,

verklaren geheel onder eigen verantwoordelijkheid dat het produkt:

declare under our sole responsibility that the product:

erklären in alleiniger Verantwortung daß das Produkt:

déclarons sous notre seule responsabilité que le produit:

declaramos bajo responsabilidad propia que el producto:

Boomgaardspuitmachine / Orchard spray-machine / Obstbausprühmaschine
Pulvérisateur a verger / Atomizador

type/type/Typ/modèle/modelo

105 (16V)

waarop deze verklaring betrekking heeft, beantwoordt aan de van toepassing zijnde fundamentele veiligheids- en gezondheidseisen van de Richtlijn 98/37 EEG/CE.

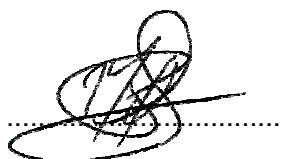
to which this declaration relates corresponds to the relevant basic safety and health requirements of the Directive 98/37 EEG/CE.

auf das sich diese Erklärung bezieht, den einschlägigen grundlegenden Sicherheits- und Gesundheitsanforderungen der Richtlinie 89/392/EWG entspricht, den Anforderungen folgender norm -EN292-2,EN294,EN907 (Juni 1994) sowie den Anforderungen der Richtlinie 98/37 EEG/CE entspricht.

faisant l'object de la déclaration est conforme aux prescriptions fondamentales en matière de sécurité et de santé stipulées dans la Directive de la CEE 98/37 EEG/CE.

al cual se refiere la presente declaración corresponde a las exigencias básicas de la normativa de la CEE 98/37 EEG/CE y referentes a la seguridad y a la sanidad.

Nederland, Horst, ..1.. -1 - 2005

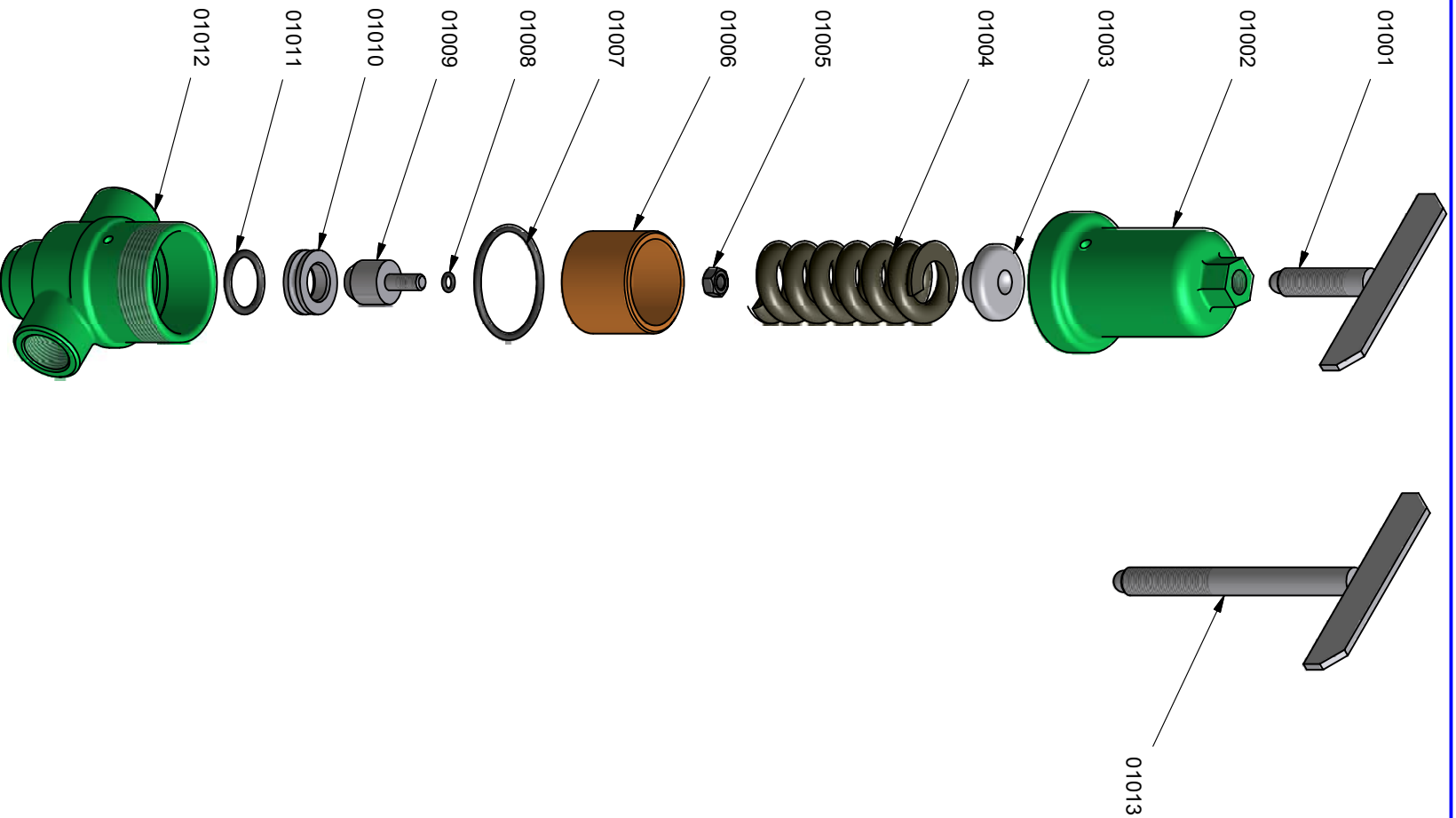


P.J.M. van den Munkhof, Directeur

Onderdelenboek
Maschinenbauteilbuch
Spare parts book

Version 3

Machinefabriek  J.M. van den Munckhof B.V.



1 / 2	1	8924023.00180			
Sheet Nr.	Aantal	Artikelnummer	Materiaal	Afmetingen	Materiaalcode

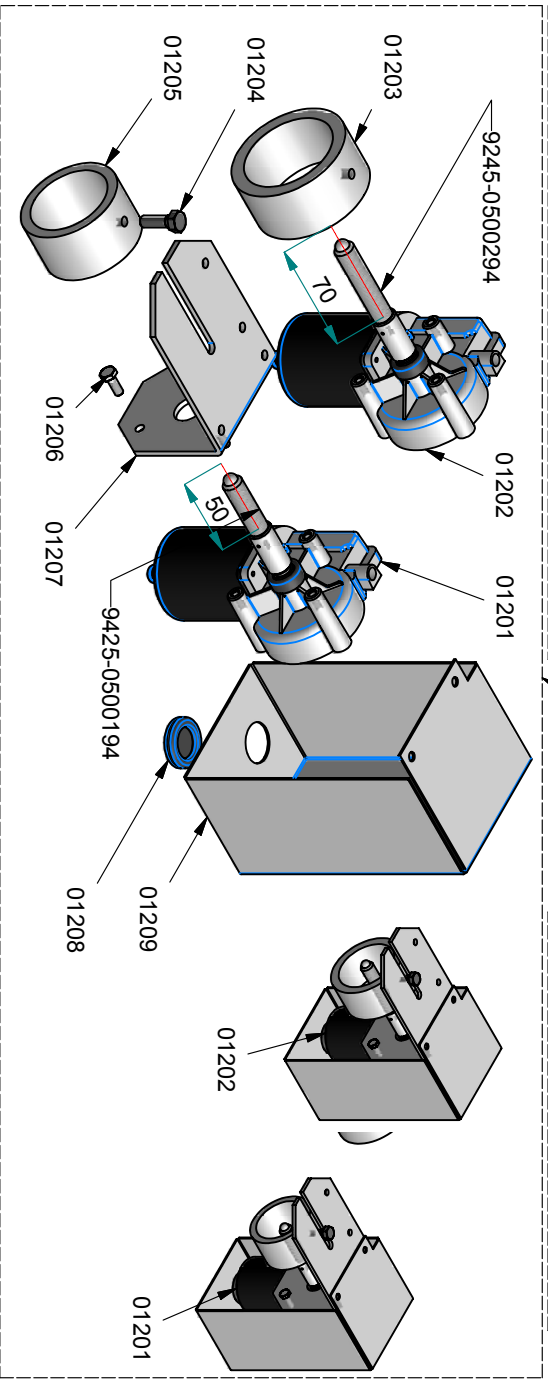
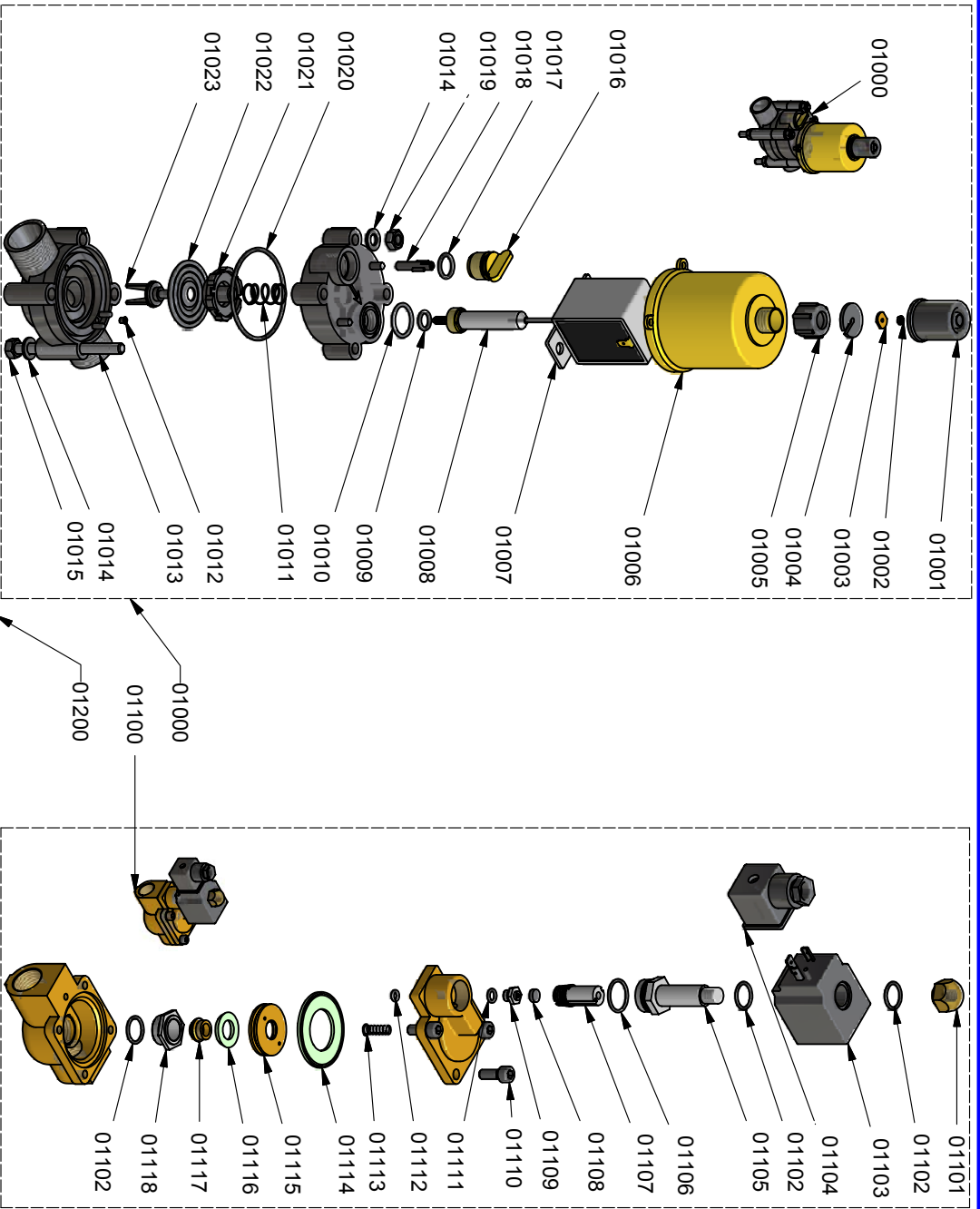
Drukregelaar DR70 standaard

 MUNCKHOF Machinebouw J.M. van den Munckhof Hofst. 077-398 1001 Fax 077-398 6485 Email: munckhof.bv@telf.nl			Schaal:	1 : 3	Datum	Tekening Nr.
			Get.:	J.M.	12-2-2001	
			Model:	N.V.	A4	
Amerikaanse projectie						
			<u>9243-0200180</u>			

Drukregelaar DR70 standaard**ONDERDELEN LIJST****ERSATZTEILEN LISTE****SPARE PARTS LIST**

POSITION POSITION POSITIE	PART-NUMBER BESTELLNR. ARTIKELCODE	LENGTH mm LÄNGE mm LENGTE mm	OMSCHRIJVING NEDERLANDS	BESCHREIBUNG DEUTSCH	DESCRIPTION ENGLISH
01001	8924025.00180		Stelbout 50mm druk-regelaar	Stellschraube Druckregler 50mm	Bolt pressure setting 50mm
01002	8924024.00178		Helm drukregelaar WM70	Helm von Druck-Regler DR70	Helmet for pressure setting DR70
01003	8924025.00691		Veerschotel veiligheid WM70	Federteller	Spring cup
01004	9630000.04101		Drukveer f41x10 L100gesl.0-60B	Feder f41x10 L100 0-60 BAR	Spring f41x10 L100 0-60 BAR
01005	9001046.08000		Nyloc zelfborgendemoer M8 RVS	Nyloc Selbstsichernde Mutter M8 RVS	Nyloc Locknut M8 RVS
01006	8924025.00878		Klepstiftgeleider WM70	Ventil-stifte Führung	Guide for valve-pinion
01007	9420000.05040		O-ring 50.40 x 3.53 EPDM	O-ringe 50.40 x 3.53	O-ring 50.40 x 3.53
01008	9420000.00600		O-ring 6.00 x 2.00 NBR	O-ringe 6.00 x 2.00	O-ring 6.00 x 2.00
01009	8924025.00978		Klepstift WM70	Ventilstift DR70	Valve pinion DR70
01010	8924025.01078		Klepzitting WM70	Ventilstiftsitz DR70	Valvepinion seat DR70
01011	9420000.02490		O-ring 24.99 x 3.53 NBR 70	O-ringe 24.99 x 3.53	O-ring 24.99 x 3.53
01012	8924023.00283		Huis drukregelaar WM70/WM80	Druckregler Gehäuse DR70	Body from pressure setting DR70
01013	8924025.00291		Stelbout 145mm druk-regelaar	Stellschraube Druckregler 145mm	Bolt pressure setting 145mm

Bij bestellingen **ALTIJD** de **ARTIKELCODE** opgeven, **NIET** de **POSITIE**!Bei Bestellungen **IMMER** die **BESTELNUMMER** aufgeben, **NICHT** die **POSITION**!When ordering spare parts, **ALWAYS** mention the **PART-NUMBER**, **NOT** the **POSITION**!



1 / 2	1	8924059.00191 + 8924059.00291			
Sheet Nr.	Aan- tal	Artikelnummer	Materiaal	Afmetingen	Materiaalcode

Elec. drukreg. DR 70 + 210

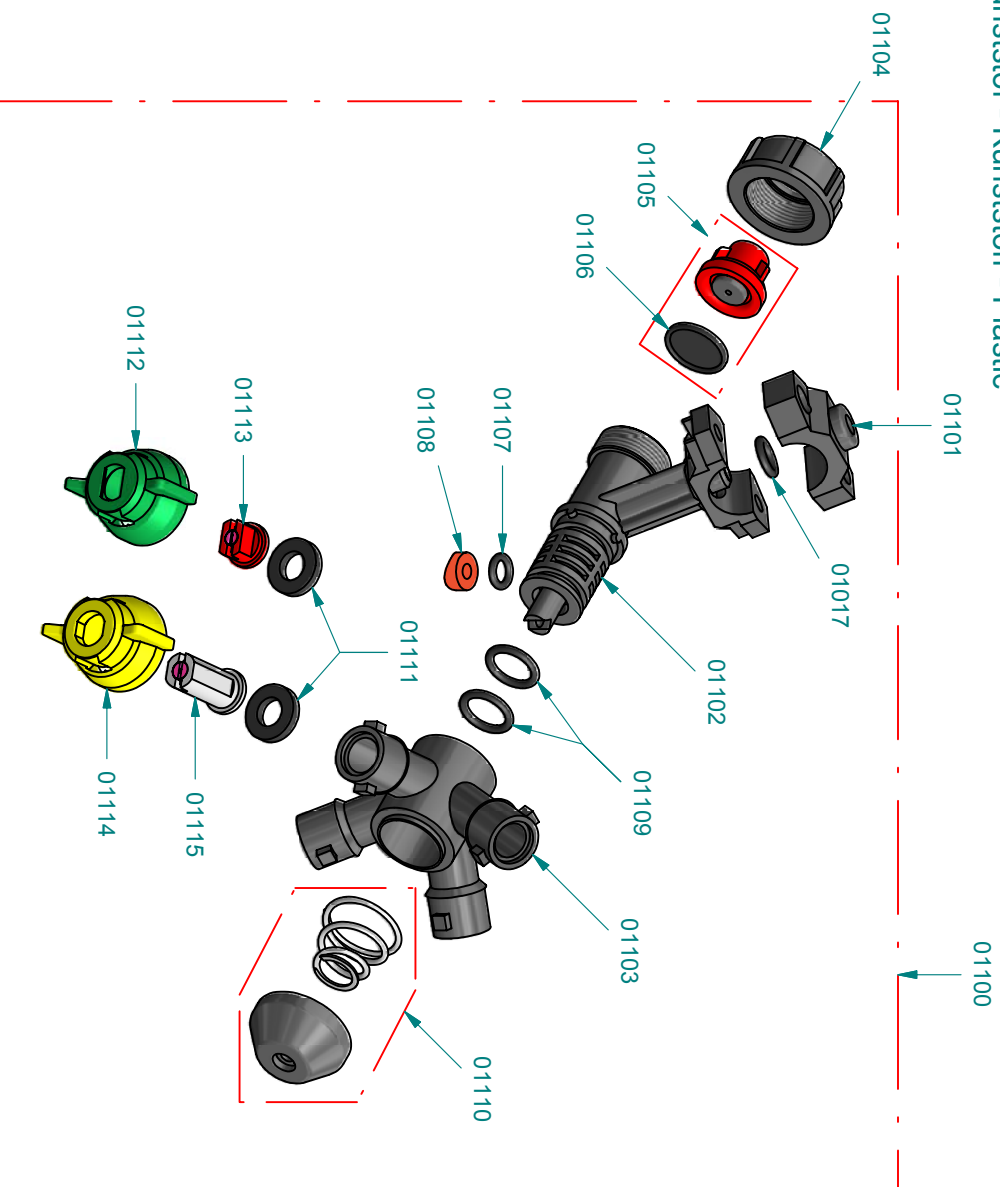
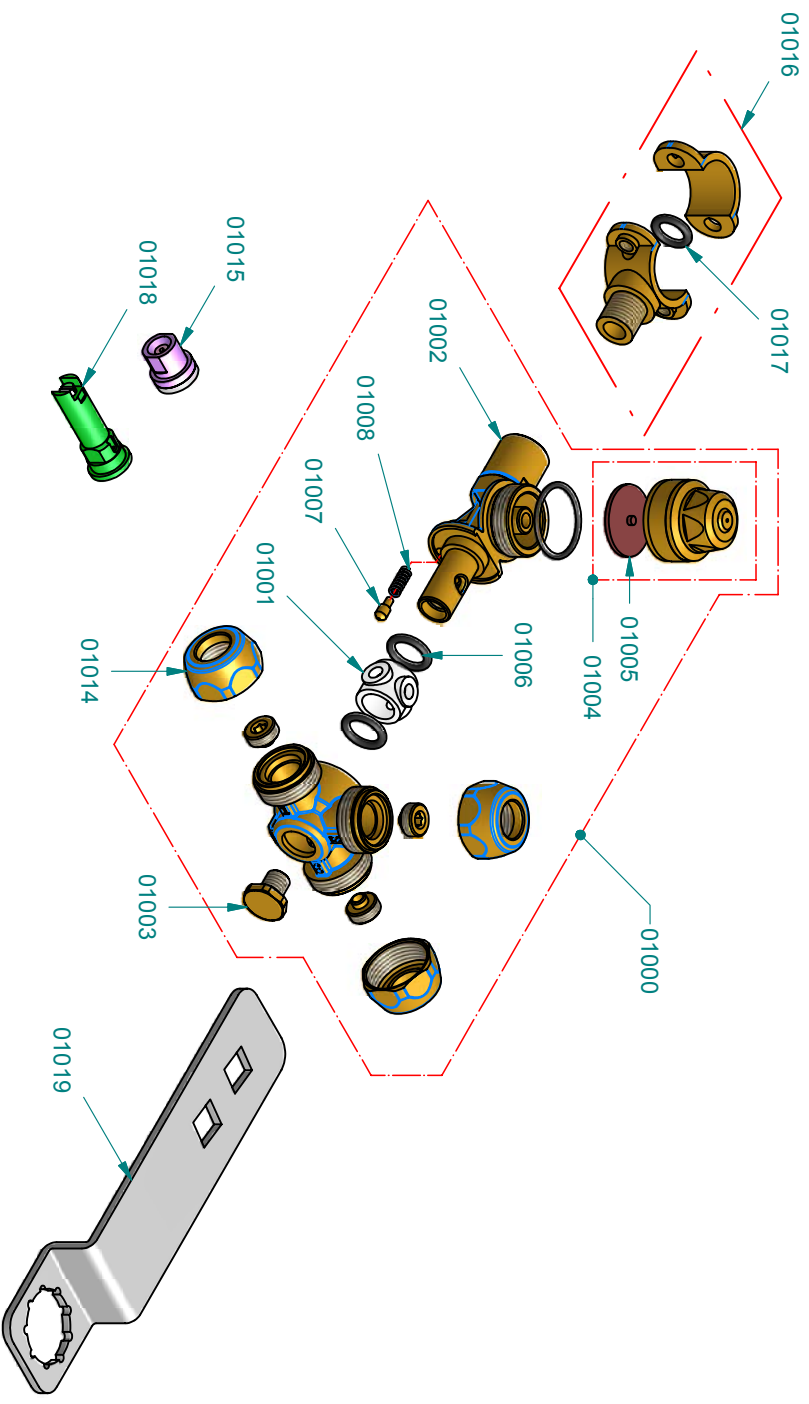
Elect. afsluiters + drukregel.**ONDERDELEN LIJST****ERSATZTEILEN LISTE****SPARE PARTS LIST**

POSITION POSITION POSITIE	PART-NUMBER BESTELNR. ARTIKELCODE	LENGTH mm LÄNGE mm LENGTE mm	OMSCHRIJVING NEDERLANDS	BESCHREIBUNG DEUTSCH	DESCRIPTION ENGLISH
01000	9330850.00100		Electrische kraan 1"	Elektrisches Ventil 1"	Electrical valve 1"
01001	9330850.04003		Beschermkap op moer	Schutzkappe auf Mutter	Protection cap on nut
01002	9001002.03000		Zeskantmoer M3 ELVZ	Sechskantmutter M3 Verzinkt	Hexagon nut M3 Zinc plated
01003	9330850.01007		Ontgrendel stelplaatje M3 Tecnomat	Entriegel Platter M3	Unbolt plate M3
01004	9330850.01006		Ontgrendelplaatje kunststof M3 Tecnomat	Entriegel Platte	Unbolt plate
01005	9330850.04005		Moer op beschermkap	Mutter auf Schutzkappe	Nut on protection cap
01006	9330850.04004		Beschermkap spoel geel	Schutzkappe Spule Gelb	Protection cap spool yellow
01007	9330850.04001		Electrische spoel 60 W	Elektrische Spule 60 W	Electrical spool 60 W
01008	9330850.03001		Magnetische spoelkern	Magnetische Kerne	Magnetic kernel
01009	9420000.00990		O-ring 9,92 x 2,62 NBR 70	O-ringe 9,92 x 2,62 NBR 70	O-ring 9,92 x 2,62 NBR 70
01010	9420000.02020		O-ring 20.24 x 2.62 NBR 70	O-ringe 20.24 x 2.62	O-ring 20.24 x 2.62
01011	9330850.02005		Drukveer f14x1 L28 geslepen	Feder f14x1 L28 Flachgeschliffen	Spring f14x1 L28 squared & ground
01012	9330850.02004		Zitting electrische kraan	Sitz elektrisches Ventil	Seat electrical valve
01013	9002012.08095		Draadeind M8x 95mm ELVZ	Gewindebolz M8x95mm Gelbpassiviert	Threadedpin M8x95mm yellow passiv.
01014	9001502.08000		Sluitring M8 ELVZ	Ring M8	Flat washer M8 ELVZ
01015	9001002.08000		Zeskantmoer M8 ELVZ	Sechskantmutter M8 Verzinkt	Hexagon nut M8 Zinc plated
01016	9330850.01004		Reinigungsschroef	Reinigungsschraube	Cleaning bolt
01017	9420000.01711		O-ring 17.13 x 2.62 NBR	O-ringe 17.13 x 2.62	O-ring 17.13 x 2.62
01018	9330850.01003		Stift	Stifte	Pin
01019	9001042.08000		Nyloc moer M8 ELVZ	Nyloc Selbstsichernde Mutter M8	Nyloc Locknut M8 Zinc plated
01020	9420000.06260		O-ring 62.60 x 2.62 NBR 70	O-ringe 62.60 x 2.62	O-ring 62.60 x 2.62
01021	9330850.02002		Membraan-drukker	Membrane-Presser	Diaphragm presser
01022	9330850.02001		Membraan	Membrane	Diaphragm
01023	9330850.02003		Membraan-houder	Membrane-Halter	Diaphragm-holder
01100	9330431.00100		Kraan elektr. 1/2"	Elektr. ventil 1/2"	Electric valve 1/2"
01101	9330431.04002		Dopmoer	Dopfmutter	Hexagon dome nut
01102	9420000.01400		O-ring 14.00 x 1.78 NBR	O-ringe 14.00 x 1.78	O-ring 14.00 x 1.78
01103	9330431.04003		Magnetische spoel 12V - 25W	Magnetische Spule 12V - 25W	Magnetic spool 12V - 25W
01104	9330431.04001		Stekker	Stecker	Plug
01105	9330431.03001		Pilaarhuls magneetkern	Pfeilerhülse Magnetkern	Pillar shell magnet kernel
01106	9420000.01400		O-ring 14.00 x 1.78 NBR	O-ringe 14.00 x 1.78	O-ring 14.00 x 1.78
01107	9330431.03002		Magneetkern + veer	Magnetkerne + Feder	Magnet kernel + spring
01108	9330431.03004		Viton rubber f 8x2.5 magn. kern	Viton Gummi f8x2.5 Magnetischer Kern	Viton rubber f8x2.5 magnet
01109	9330431.03003		Nozzle	Düse	Nozzle
01110	9000086.06016		Cilinderkopschroef M6 x 16 BZK RVS	Zilinderschraube M6 x 16 Rostfrei	Hex. socket head screw M6x16 st.st
01111	9420000.00550		O-ring 5.50 x 1.80 NBR	O-ringe 5.50 x 1.80	O-ring 5.50 x 1.80
01112	9420000.00390		O-ring 3.90 x 1.78 NBR	O-ringe 3.90 x 1.78	O-ring 3.90 x 1.78
01113	9330431.02006		Drukveer f6.5x0.8 L17 gezet	Feder f6.5x0.8 L17 geflächt	Spring f6.5x0.8 L17 ends squared
01114	9330431.02001		Membraan	Membrane	Membrane
01115	9330431.02002		Membraanshotel	Ventil Teller	Valve plate
01116	9330431.02003		Kegel afdichting	Kegeldichtung	Taper gasket

Bij bestellingen **ALTIJD** de ARTIKELCODE opgeven, **NIET** de POSITIE!Bei Bestellungen **IMMER** die BESTELNUMMER aufgeben, **NICHT** die POSITION!When ordering spare parts, **ALWAYS** mention the **PART-NUMBER**, **NOT** the **POSITION**!

Elect. afsluiters + drukregel.**ONDERDELEN LIJST****ERSATZTEILEN LISTE****SPARE PARTS LIST**

POSITION POSITION POSITIE	PART-NUMBER BESTELLNR. ARTIKELCODE	LENGTH mm LÄNGE mm LENGTE mm	OMSCHRIJVING NEDERLANDS	BESCHREIBUNG DEUTSCH	DESCRIPTION ENGLISH
01117	9330431.02005		Bevestigings stift	Befestigungs-stift	Back rod
01118	9330431.02004		RVS zitting	Inoxsitz	Stainless steel seat
01200	8924059.00191		Electr. afst.bed. drukregelaar DR70	Electr. fernbedienung Druckregler DR70	Electr. remote contr. press.setting DR70
	8924059.00291		Electr. afst.bed. drukregelaar DR210	Electr. fernbedienung Druckregler DR210	Electr.remote contr. press.setting DR210
01201	8924059.10193		Electromotor + stelbout kort	Electromotor + Stellbolze Kurz	Electro motor + adjustingbolt short
01202	8924059.10393		Electromotor + stelbout lang	Electromotor + Stellbolze Lang	Electro motor + adjustingbolt long
01203	8924055.00391		Grote bev.huls el.drukregelaar	Große Befest.hülse el. Druckregler	Large con.bush el.pressure setting
01204	9000002.08025		Tapbout M8 x 25 ELVZ	Sechskant Bolze M8 x 25 Verzinkt	Hexagon screw M8 x 25 Zinc plated
01205	8924055.00691		Kleine bevestigingshuls electr. drukreg.	Kleine Befest.hülse el. Druckregler	Small con.bush el.pressure setting
01206	9000002.06016		Tapbout M6 x 16 ELVZ	Sechskant Bolze M6 x 16 Verzinkt	Hexagon screw M6 x 16 Zinc plated
01207	8924054.00191		Motorplaat electr. afstandbediening	Motorenplatte electr. Fernbed.	Motor plate electr. remote control
01208	9005108.02100		Doorvoertule f21x28x2	Kabelschutz f21 für Platte 2mm.	Nylon cable bushing f21
01209	8924054.00202		Afdekkap elektrische drukregelaar	Schutzkappe electr. fernbed. Druckregler	Protection El.remotecontr. press.setting



SPUITDOPHOUDERS (LIJST br.)**ONDERDELENLIJST****ERSATZTEILEN LISTE****SPARE PARTS LIST**

POSITION POSITION POSITIE	PART-NUMBER BESTELNR. ARTIKELCODE	L= M	OMSCHRIJVING NEDERLANDS	BESCHREIBUNG DEUTSCH	DESCRIPTION ENGLISH
01000	9125397.00100		Trio-dop + anti-drup excl.tip Braglia	Trio-düse mit Anti-tropf ohne düse	Trio-body + non-drop without nozzle
	9125397.01009		Trio-dop Braglia Rep Kit Dopkom	RIO DOPPEL BRAGLIA REP.KIT DOP	TRIO CAP BRAGLIA REP. KIT CUP
01001	9125397.01001		Trio-dop Braglia Dichting	TRIO DOPPEL BRAGLIA DICHTUNG	TRIO CAP BRAGLIA SEALING
01002	9125397.01002		Trio-dop Braglia Pilaar bi	TRIO DOPPEL BRAGLIA PFEILER	TRIO CAP BRAGLIA PILAR
01003	9125397.01003		Trio-dop Braglia schroef	TRIO DOPPEL BRAGLIA SCHRAUBE	TRIO CAP BRAGLIA SCREW
01004	9125397.01004		Trio-dop Braglia membraanhuis	Membrane Gehause	Membrane housing
01005	9125397.01005		Trio-dop Braglia membraan viton	TRIO DOPPEL BRAGLIA MEMBRAN VITON	TRIO CAP BRAGLIA MEMBRANE VITON
01006	9125397.01006		Trio-dop Braglia OR 3043	TRIO DOPPEL BRAGLIA OR 3043	TRIO CAP BRAGLIA OR 3043
01007	9125397.01007		Trio-dop Braglia blokkeerpal	Blockiernagel für Düse	Blocking pinion for spray nozzle
01008	9125397.01008		Trio-dop Braglia veer v. pal	Feder	Spring
01014	9125199.01001		Wartel voor spuitdop braglia/masotti	Überwurfmutter für Spritzdüse	Cap nut for spray nozzle
01015	9150298.00003		Spuit-tip ATR LILA	Spritzdüse ATR LILA	Spraynozzle ATR LILAC
	9150298.00004		Spuit-tip ATR BRUIN	Spritzdüse ATR BRAUN	Spraynozzle ATR BROWN
	9150298.00006		Spuit-tip ATR GEEL	Spritzdüse ATR GELB	Spraynozzle ATR YELLOW
	9150298.00008		Spuit-tip ATR ORANJE	Spritzdüse ATR ORANGE	Spraynozzle ATR ORANGE
	9150298.00011		Spuit-tip ATR ROOD	Spritzdüse ATR ROT	Spraynozzle ATR RED
	9150298.00014		Spuit-tip ATR GROEN	Spritzdüse ATR GRÜN	Spraynozzle ATR GREEN
	9150298.00019		Spuit-tip ATR BLAUW	Spritzdüse ATR BLAU	Spraynozzle ATR BLUE
	9150299.00041		Spuit-tip AMT-SM+5-gaats plaat	Spritzdüse AMT-SM + Platte 5-Löcher	Spraynozzle AMT-SM + plate 5-holes
01016	9034030.02100		Klembeugel ø21 - 1/4' Mess.[M]	Messing klemme ø21 - 1/4'	Brass clamp ø21 - 1/4'
01017	9420000.00910		O-ring 9,13x2,62 NBR 70 shore	O-ringe 9.13 x 2.62	O-ring 9.13 x 2.62
01018	9150095.09006		Spuit-tip ID90015 90°Gr Ltr0.6	Spritzdüse ID90015 90° Grun Ltr 0.6	Spraynozzle ID90015 90° Green Ltr. 0.6
	9150095.09008		Spuit-tip ID9002 90°GE Ltr 0.8	Spritzdüse ID9002 90° Gelb Ltr 0.8	Spraynozzle ID9002 90° Yellow Ltr. 0.8
	9150095.09010		Spuit-tip ID90025 90°Pa Ltr1.0	Spritzdüse ID90025 90° Violett Ltr 1.0	Spraynozzle ID90025 90° Violet Ltr. 1.0
01019	9125199.01005		Sleutel spuitdophouder boomgsp	Schlüssel Spritz Düse Obstbausprüngerät	Key nozzle holder orchard sprayer
01100	9120497.00100		QUATTRO-spuitedoph. 1/2'+ wart.	Quattro Düsenträger ½'	Quattro Nozzle holder ½'
01101	9120497.01003		Klem blok 1/2'	Klemm stuck 1/2'	Jet clamp 1/2'
01102	9120497.01002		QUATTRO huis voor 1/2' pijp	QUATTRO gehause fur 1/2' rohre	QUATTRO body for 1/2' pipe
01103	9120499.01008		Snelkopp. spuittiphouder	schnellanschluss duse halter	Quick coupling nozzle holder
01104	9038029.06800		Wartel moer 3/4'	Überwurfmutter 3/4'	Fly nut 3/4'
01105	9120499.01003		Anti-drup set van QUATTRO	Anti-Tropf set für QUATTRO	Anti-drip set for QUATTRO
01106	9120499.01005		Membraan anti-drup + punt QUAT	Anti-Tropf Membrane+ Punkt QUATTRO	Anti-drip diapragm + point QUATTRO
01107	9420000.00730		O-ring 7,30x2,40 NBR 70 shore	O-ringe 7.30 x 2.40	O-ring 7.30 x 2.40
01108	9120399.01006		Dichting van QUATTRO spuitdop	Dichtung für QUATTRO Düsenträger	Seal for QUATTRO nozzle holder
01109	9420000.01711		O-ring 17,13x2,62 NBR 70 shore	O-ringe 17.13 x 2.62	O-ring 17.13 x 2.62
01110	9120499.01004		Veerschotel + veer van QUATTRO	Federteller + Feder von QUATTRO	Spring unit + spring for QUATTRO
01111	9420600.01000		Vlakke pakkingring (10x19x3,5)	Flache Packung (10x19x3.5)	Flat gasket (10x19x3.5)
01112	9120499.01007		Snelkopp. spuitdop v API+S GR	Schnellkupplung für API Spritz-Düse	Quick fitting for API spray nozzle
01113	9150097.11006		Spuit-tip API 110° GR Ltr 0.60	Spritzdüse API 110° GRUN	Spraynozzle API 110° GREEN
	9150097.11008		Spuit-tip API 110° GE Ltr 0.80	Spritzdüse API 110° GELB	Spraynozzle API 110° YELLOW
	9150097.11012		Spuit-tip API 110° BL Ltr 1.20	Spritzdüse API 110° BLAU	Spraynozzle API 110° BLUE
	9150097.11016		Spuit-tip API 110° RO Ltr 1.50	Spritzdüse API 110° ROT	Spraynozzle API 110° RED
	9150097.11020		Spuit-tip API 110° BR Ltr 2.00	Spritzdüse API 110° BRAUN	Spraynozzle API 110° BROWN
	9150097.11024		Spuit-tip API 110° GS Ltr 2.40	Spritzdüse API 110° GRAU	Spraynozzle API 110° GRIS

Bij bestellingen **ALTIJD** de **ARTIKELCODE** opgeven, **NIET** de **POSITIE**!

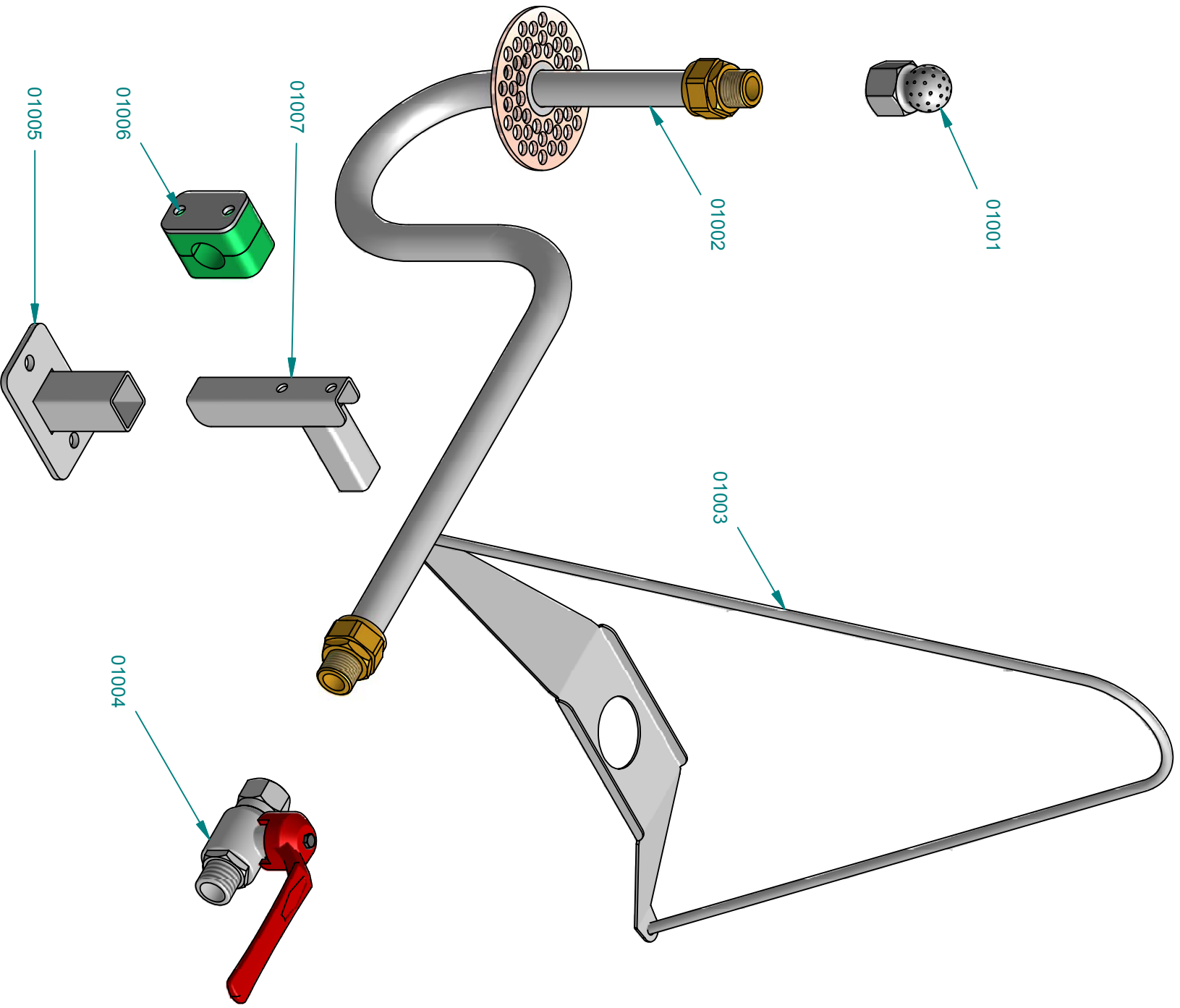
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SPUITDOPHOUDERS (LIJST br.)**ONDERDELENLIJST****ERSATZTEILEN LISTE****SPARE PARTS LIST**

POSITION POSITION POSITIE	PART-NUMBER BESTELNR. ARTIKELCODE	L= M	OMSCHRIJVING NEDERLANDS	BESCHREIBUNG DEUTSCH	DESCRIPTION ENGLISH
01114	9120499.01006		Snelkopp. spuitdop 7° voor APE	Schnell-Kupplung 7° für Spritz-Düse	Quick fitting 7° for spray nozzle
01115	9150095.11006		Spuit-tip AVI 110° GR Ltr 0.60	Spritzdüse AVI 110° GRÜN Ltr 0.60	Spraynozzle AVI 110° GREEN Ltr. 0.60
	9150095.11008		Spuit-tip AVI 110° GE Ltr 0.80	Spritzdüse AVI 110° GELB Ltr 0.80	Spraynozzle AVI 110° YELLOW Ltr 0.80
	9150095.11010		Spuit-tip AVI 110° Li Ltr 1.00	Spritzdüse AVI 110° LILA Ltr 1.00	Spraynozzle AVI 110° LILAC Ltr 1.00
	9150095.11012		Spuit-tip AVI 110° BL Ltr 1.20	Spritzdüse AVI 110° BLAU Ltr 1.20	Spraynozzle AVI 110° BLUE Ltr 1.20
	9150095.11016		Spuit-tip AVI 110° RO Ltr 1.60	Spritzdüse AVI 110° ROT Ltr 1.60	Spraynozzle AVI 110° RED Ltr 1.60
	9150095.11020		Spuit-tip AVI 110° BR Ltr 2.00	Spritzdüse AVI 110° Braun Ltr 2.00	Spraynozzle AVI 110° Brown Ltr. 2.00
	9150095.11024		Spuit-tip AVI 110° GS Ltr 2.40	Spritzdüse AVI 110° Grau Ltr 2.40	Spraynozzle AVI 110° Gris Ltr. 2.40



Machiefabriek
J.M. van den Munckhof
Horst 077-398 1001 Fax 077-398 6485
Email: info@munckhof.org

MUNCKHOF

Fustenreiniger boomgsp. kompl.

Tekening Nr.

Artikelnummer

Sheet
Nr.

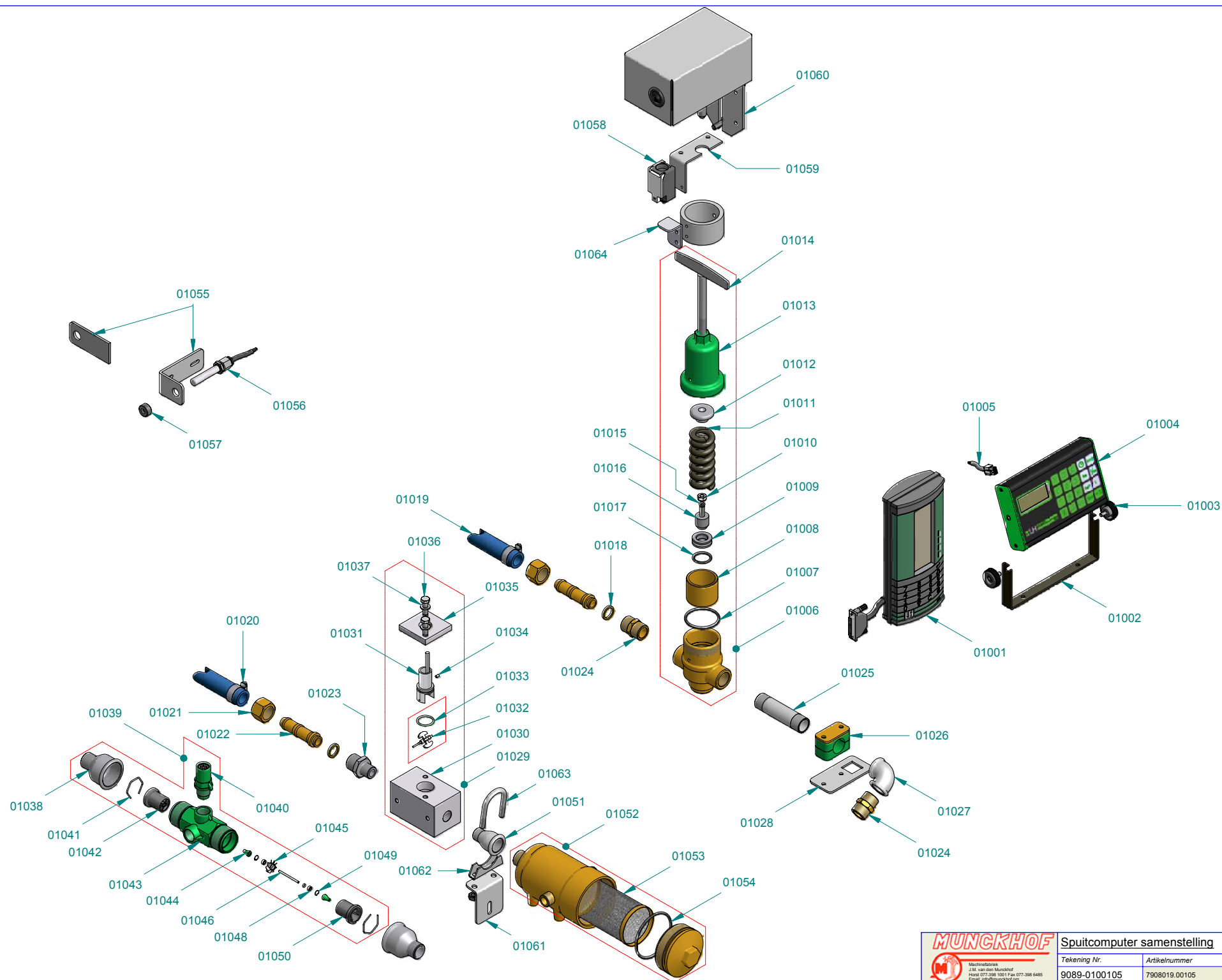
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Fustenreiniger(Boomgaardspuit)**ONDERDELENLIJST****ERSATZTEILEN LISTE****SPARE PARTS LIST**

POSITION POSITION POSITIE	PART-NUMBER BESTELNR. ARTIKELCODE	L= M	OMSCHRIJVING NEDERLANDS	BESCHREIBUNG DEUTSCH	DESCRIPTION ENGLISH
01001	9150900.01001		Spuit-tip fustenr. spoelbak	Sprühkappe für Reinigungsmaschine	Spray nozzle for cleaning machine
01002	8180014.00205		Leiding fustenreiniger boomgsp	Spühllleitung	Rinsing pipe
01003	8180024.00189		Hulpstuk voor zakken	Hilfsstück für Taschen	Accessory for bags
01004	9331230.00100		Kogelkraan 1/2' 2 weg type 081 bi/bu	Zweiweg Kugelhahn 1/2'	Two-way Ball valve 1/2'
01005	8180015.01805		Statief fustenreiniger	Stativ	Tripod package cleaner
01006	9004058.02000		Pijpklembeugel 2 delig ø20mm	Schelle mit Rohrzoll ø20mm	Connection blocks pipe ø20mm
	9004072.02000		Dekplaat voor beugel 19-25.4mm	Deckplatte für Rohrzoll 20-25mm	Cover plate for pipe 20-25mm
01007	8180015.01905		Statiefbevestiging	Stativ Befestigung	Support connection



Sputcomputer ond.lijs**ONDERDELENLIJS****ERSATZTEILEN LJS****SPARE PARTS LIST**

POSITION POSITION POSITIE	PART-NUMBER BESTELNR. ARTIKELCODE	L= M	OMSCHRIJVING NEDERLANDS	BESCHREIBUNG DEUTSCH	DESCRIPTION ENGLISH
01001	9080000.00300		Sputcomputer LH4000	Sprüh Computer LH 4000	Spray computer LH 4000
01002	9080000.00202		LH 1200 montage beugel+draaikn	LH 1200 Montagestütze	LH 1200 mounting bracket
01003	9002529.06032		Sterknop bakkeliet M 6 x 32 L25	Kunststoff Sternknopf mit Gewindestange	Plastic star-knob with threadedrod
01004	9080000.00201		Monitor LH 1200 S	Sprüh Monitor LH 1200 S	Monitor LH 1200 S
01005	9080000.00204		LH 1200 Monitor kabel	LH 1200 Monitor Kabel	LH 1200 Monitor cable
01006	8924023.00180		Drukregelaar DR70 standaard	Druckregler DR70	Pressure setting DR70
01007	9420000.05040		O-ring 50,40x3,53 EPDM 70	O-ringe 50.40 x 3.53	O-ring 50.40 x 3.53
01008	8924025.00878		Klepstiftgeleider DR70	Ventil-stifte Führung	Guide for valve-pinion
01009	8924025.01078		Klepstiftzitting DR70	Ventilstiftsitz DR70	Valvepinion seat DR70
01010	9001042.08000		Nyloc zelfborgendemoer M 8 ELV	Nyloc Selbstsichernde Mutter M8	Nyloc Locknut M8 Zinc plated
01011	9630000.04101		Drukveer 100x31x10 vlakgesl.	Feder ø41x10 L100 0-60 BAR	Spring ø41x10 L100 0-60 BAR
01012	8924025.00691		Veerschotel DR70	Federteller	Spring cup
01013	8924024.00178		Helm van drukregelaar DR70	Helm von Druck-Regler DR70	Helmet for pressure setting DR70
01014	8924025.00291		Stelschroef van drukreg. 145mm	Stellschraube Druckregler 145mm	Bolt pressure setting 145mm
01015	9420000.00600		O-ring 6,00x2,00 NBR 70	O-ringe 6.00 x 2.00	O-ring 6.00 x 2.00
01016	8924025.00978		Klepstift DR70	Ventilstift DR70	Valve pinion DR70
01017	9420000.02490		O-ring 24,99x3,53 NBR 70 shore	O-ringe 24.99 x 3.53	O-ring 24.99 x 3.53
01018	9420604.01800		Pakkingring Leer(18x24x3,0) 3/4	Packung leder (18x24x3.0) 3/4'	Leather gasket (18x24x3.0) 3/4'
01019	9392000.01903	0,64	Perssl. 3/4' 80 BAR D.blauw	Druckschlauch 3/4' 80BAR Blau 19x29/Mtr	Pressure hose 3/4' 80BAR blue 19x29/mtr
01020	9004002.22030		Slangschr.klem 22-30mm 3/4'	Schlaugklemme 22-30mm (3/4')	Hose clip 22-30mm (3/4')
01021	9034014.06800		Zeskant wartel 3/4' messing	Sechskant Überwurfmutter 3/4' Ms	Hexagonal swivel 3/4' brass
01022	9034013.01900		Hoge dr.pilaar 3/4'x3/4' messi	Schlauch-Pfeiler 3/4'x3/4' Messing	Hose pillar 3/4'x3/4' brass
01023	9032021.06801		Verloop nippel 3/4'x1/2' verzi	Verlauf Nippel 3/4'x1/2' verzinkt	Reducing nipple 3/4'x1/2' zinked
01024	9034000.06800		Dubbele nippel 3/4' messing	Doppelter Nippel 3/4' Messing	Double nipple 3/4' brass
01025	9032004.01000		Pijpnippel 3/4'x 100 verzinkt	Rohnippel 3/4'x 100 verzinkt	Pipe nipple 3/4'x 100 zinked
01026	9004058.02690		Pijpklembeugel 2 delig ø26.9mm 3/4'	Schelle mit Rohrzoll ø3/4'	Connection blocks pipe ø3/4'
01027	9032030.06800		Knie 3/4' bi/bi verzinkt	Knie 3/4' in/in verzinkt	Knee 3/4' in/in zinked
01028	8908015.01205		Steunplaatje spuitcomputer	Stützplatte Spritzcomputer	Support plate
01029	9300102.00100		Flowmeter 1/2' ALU 2 - 20 L/M	Flowmeter 1/2' ALU 2-20 L/Min	Flowmeter 1/2' ALU 2-20 L/Min
01030	8908014.00703		Flowmeterhuis	Flowmeter Gehäuse	Flowmeter housing
01031	9300102.01002		Flowmeter 1/2' sensor	Flowmeter ½' Sensor	Flowmeter ½' sensor
01032	9300102.01001		Schoepenrad cpl 902-986	Turbine	turbine
01033	9420002.02400		O-ring 24,00x2,50 FPM 80 viton	Viton O-ringe 24,00 x 2,50	Viron O-ring 24,00 x 2,50
01034	9000077.04006		Stelschroef M 4 x 6 BZK -RVSA4	Einstellschraube M4 x 06 BZK-RVSA4	Socket set screw M4x 06 BZK stainlessA4
01035	8908015.01103		Bev.plaat flowmeter sensor	Befestigungsplatte Flowmeter Sensor	Connecting plate flowmeter sensor
01036	9000007.08025		Tapbout M 8 x 25 RVS A4	Sechskant Bolze M8 x 25 Verzinkt	Tap bolt M8 x 25 stainless steel A4
01037	9001507.08000		Vlakke sluitring M 8 RVS A4	Ring M 8 RVS A4	Washer M8 stainless steel
01038	9032022.10800		Soknippel 1-1/4'x3/4' verzinkt	Sockenippel 1-1/4'x3/4' verzinkt	Sock nipple 1-1/4'x3/4' zinked
01039	9300096.00100		Flowmeter Rilsan 1' (10-100 L/	Flowmeter Rilsan 1' (10-100 L/min.)	Flowmeter Rilsan 1' (10-100 L/min.)
01040	9300097.01001		Sensor (sinus) v 3/4'+1' flowm	Sensore (Sinus) für 3/4'+1' Flowmtr	Sensor (sinus) for 3/4'+1' Flowmtr
01041	9300096.01012		Segerring D32	Seger Ring D32	Segerring D32
01042	9300096.01008		Inlaattunnel 1'	Einlaßtunnel 1'	Inlet tunnel 1'
01043	9300096.01005		T-stuk Rilsan 1' voor flowm.	T-Rohr Rilsan 1' für flowmeter	T-Tube Rilsan 1' for flowmeter
01044	9300096.01001		As-steun voor flowmeter 1'	Stütze für Achse Flowmeter 1'	Shaftsupport flowmeter 1'

Bij bestellingen **ALTIJD** de **ARTIKELCODE** opgeven, **NIET** de **POSITIE**!

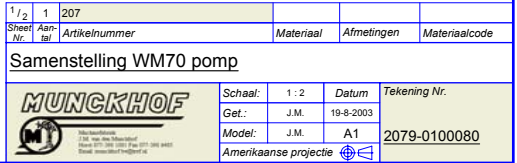
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Sputcomputer ond.lijs**ONDERDELENLIJS****ERSATZTEILEN LISTE****SPARE PARTS LIST**

POSITION POSITION POSITIE	PART-NUMBER BESTELNR. ARTIKELCODE	L= M	OMSCHRIJVING NEDERLANDS	BESCHREIBUNG DEUTSCH	DESCRIPTION ENGLISH
01045	9300096.01003		Propellor 8 schoeps v 1' flow	Propeller 8 Bladds für 1' Flowmeter	Propellor 8 wings for 1' Flowmeter
01046	9300096.01002		Asje voor flowmeter 1'	Achse für Flowmeter 1'	Shaft flowmeter 1'
01048	9300096.01013		Lager WX3 D8x3x2.5 v 1' flowm.	Lager WX3 D8x3x2.5 für 1' Flowmeter	Bearing WX3 D8x3x2.5 for 1' flowmtr
01049	9300096.01006		Segerring D8 voor 1' flowm.	Segerring D8 für 1' Flowmeter	Segerring D8 for 1' flowmeter
01050	9300096.01007		Uitlaattunnel 1'	Außlaßtunnel 1'	Exhausttunnel 1'
01051	9032022.06801		Soknippel 3/4'x1/2' verzinkt	Sockenippel 3/4'x1/2' verzinkt	Sock nipple 3/4'x1/2' zinked
01052	9375499.00100		Persfilter 3/4'-1/2'-1/2' komp new	Druckfilter 3/4'-1/2'-1/2' Komplet	Pressurefilter 3/4'-2x1/2' complete
01053	9375499.01003		Perszeef voor filter No.23	Drucksieb für Filter No.23	Pressurefilter No.23
01054	9420000.07580		O-ring 75,80x3,53 NBR 70 shore	O-ringe 75.80 x 3.53	O-ring 75.80 x 3.53
01055	8908015.00893		Bev. wiel-sensor	Befestigungs für Sensor	Mounting for sensor
01056	9080000.00303		Wiel-sensor 2 adr 10 Mtr LH4000	Meßfühler	Wheel Sensor
01057	9081005.01001		Magneet 23x10 T62N/S	Magnete 23x10 T62N	Magnet 23x10 T62N
01058	9063030.01001		Eindschakelaar AT011S-i	Schalter AT0-11-S-I	Switch AT0-11-S-I
01059	8908015.00905		Bev. naderingsschakelaar	Befestigung für Näherungsschalters	Mounting for approach switches
01060	8924059.00191		Elec. drukreg. DR70	Electr. fernbedienung Druckregler DR70	Electr. remote contr. press.setting DR70
01061	8908015.01306		Steunprofiel flowmeter	Stützprofil Flowmeter	Support profile flowmeter
01062	9004032.08036		Beugelklem M8 x 36mm.	Bügelklemme M8 x 36mm.	Shackle M8 x 36mm.
01064	8908015.01505		Aanslag naderingsschakelaar	Ansatz für Näherungsschalters	Stop for approach switches



WM70

ONDERDELEN LIJST

ERSATZTEILEN LISTE

SPARE PARTS LIST

POSITION POSITION POSITIE	PART-NUMBER BESTELNR. ARTIKELCODE	LENGTH mm LÄNGE mm LENGTE mm	OMSCHRIJVING NEDERLANDS	BESCHREIBUNG DEUTSCH	DESCRIPTION ENGLISH
01001	9420202.04000		Oliekeerring 40 x 58 x 10	Öldichtungsringe 40 x 58 x 10	Oil seal 40 x 58 x 10
01002	8207014.00280		Open flens WM70 boomgaardspuit	Flansche 10mm Offen	Flange 10mm open (Orchard sprayer)
01003	9000082.08025		Cilinderkopschroef M8x25 BZK ELVZ	Zilinderschraube M8 x 25 Verzinkt	Hex. socket head cap screw M8 x 25
01004	9420800.09000		Pakkingring 90x104x0.75 papier	Flache Packung (90x104x0.75) Papier	Flat gasket (90x104x0.75) Paper
01005	9091005.04000		Cilinderlager NJ-308 Eenrijig	Einreihiges Zilinderlager NJ-308	Single cylinder bearing NJ-308
01006	8207012.00289		Krukas WM70 boomgaardspuit	Kurbelwelle WM70 Obstbausprüngerät	Crank shaft WM70 orchardsprayer
01007	8207012.00389		Krukas WM70 aftakas-aandrijving	Kurbelwelle WM70 Splines-Verbindung	Crank shaft WM70 splines connection
01008	8207012.01094		Krukas WM70 tunnelspuit	Kurbelwelle WM70 Obstbausprüngerät	Crank shaft WM70 tunnel sprayer
01009	8207011.00280		Carter WM70	Kurbelgehäuse WM70 Komplet	Crank case WM70 complete
01010	9032003.00600		Pijpnippel ½'x 60 VZ	Rohrnippel 1/2'x 60 verzinkt	Pipe nipple 1/2'x 60 zinked
	9032026.04800		Sok ½' VZ	Socke 1/2' verzinkt	Sock 1/2' zinked
	9032031.04800		Kn timer ½' bi/bu VZ	Kn timer 1/2' in/aus verzinkt	Knee 1/2' in/out zinked
	9032067.04800		Stop ½' rand VZ	Stopf mit Rand 1/2' verzinkt	Stop with edge 1/2' zinked
01011	9000082.06025		Cilinderkopschroef M6x25 BZK ELVZ	Zilinderschraube M6 x 25 Verzinkt	Hex. socket head cap screw M6 x 25
01012	9000080.14090		Cilinderkopschroef M14x90 BZK (12.9)	Zilinderschraube M14x 90 (12.9)	Hex. socket head cap screw M14x 90
01013	8207015.01780		Peilstok	Peilstock Länge 120mm	Gauging-rod length 120mm
	8207015.02090		Lijmstuk peilstok WM70	Klebestück Peilstock WM70	Glue piece gauging rod WM70
01014	9003000.10056		Inlegspie 10x 8x56 Staal	Spie 10x 8x56	Square parallel key 10x 8x56
01015	8207012.00190		Krukas WM70 voetplaat	Kurbelwelle WM70 für Keilscheibe	Crank shaft WM70 for pulley
01016	9000082.08020		Cilinderkopschroef M8x20 BZK ELVZ	Zilinderschraube M8 x 20 Verzinkt	Hex. socket head cap screw M8 x 20
	9000082.08025		Cilinderkopschroef M8x25 BZK ELVZ	Zilinderschraube M8 x 25 Verzinkt	Hex. socket head cap screw M8 x 25
01017	8207014.00280		Open flens WM70 boomgaardspuit	Flansche 10mm Offen	Flange 10mm open (Orchard sprayer)
	8207014.00380		Lagerflens WM70	Flansche 3mm Geschloßen	Flange 3mm Closed
01018	8207014.00480		Drijfstang WM70	Pleuelstange WM70	Connecting rod WM70
01019	8207015.00280		Pistonpen WM70	Plunger-Stift WM70	Piston pinion WM70
01020	8207013.00490		Samenstelling plunjer WM70	Zusammenstellung Plunger WM70	Composition plunger WM70
01021	8207014.00599		Alu-oxyde plunjerbus WM 70	Aluminium-Oxyd Plunger Buchse WM70	Alu-oxide plunger bush
01022	9420000.04000		O-ring 40.00 x 2.50 EPDM	O-ringe 40.00 x 2.50	O-ring 40.00 x 2.50
01023	8207015.01996		Bout plunjerbus-bevestiging WM70	Bolze für Plungerbuchse-Befestigung WM70	Bolt for plunger bush connection WM70
01024	9420106.01750		O-ring koord f6.0 L=175	Packung Kord f6.0 L=175	Gasket cord f6.0 L=175
01025	9420400.05000		U-manchet olietank 50x70x10.0	U-Manchette 50x70x10.0	U-manchet 50x70x10.0
01026	8207015.00380		Kunststof centreerring 70x52x3	Kunststoff Zentrier-Ring 70x52x3	Synthetic centre ring 70x52x3
01027	9420602.04900		Plunjerring 49x65x3.0 WM70/60	Flache Plunjerringe 48.5x65x3	Flat plunger ring (48.5x65x3)
01028	8207012.00480		Tussenstuk WM70	Zwischenstück WM70	Between piece WM70
01029	8207015.01196		Carco V-manchet-50 Voorste ring	Carco V-Manchette-50 Vorder Ringe	Carco V-sealing cup-50 Front ring
01030	9420406.05000		V-manchet 50x70x10.6 HD	V-Manchette 50x70x10.6 HD	V-sealing cup 50x70x10.6 HP
01031	8207015.01883		Carco V-manchet-50 Achterste ring	Carco V-Manchette-50 Hintere Ringe	Carco V-sealing cup-50 Rear ring
01032	9420404.05000		Grafiet-canvas manch. 50x70x10	Graphit-Canvas Manchette 50x70x10	Carbon-canvas sealing cup 50x70x10
01033	8207012.00689		Cilinderkop WM70	Zilinderkopf WM70	Cylinder head WM70
01034	9000082.10080		Cilinderkopschroef M10x80 BZK ELVZ	Zilinderschraube M10x 80 Verzinkt	Hex. socket head cap screw M10x 80

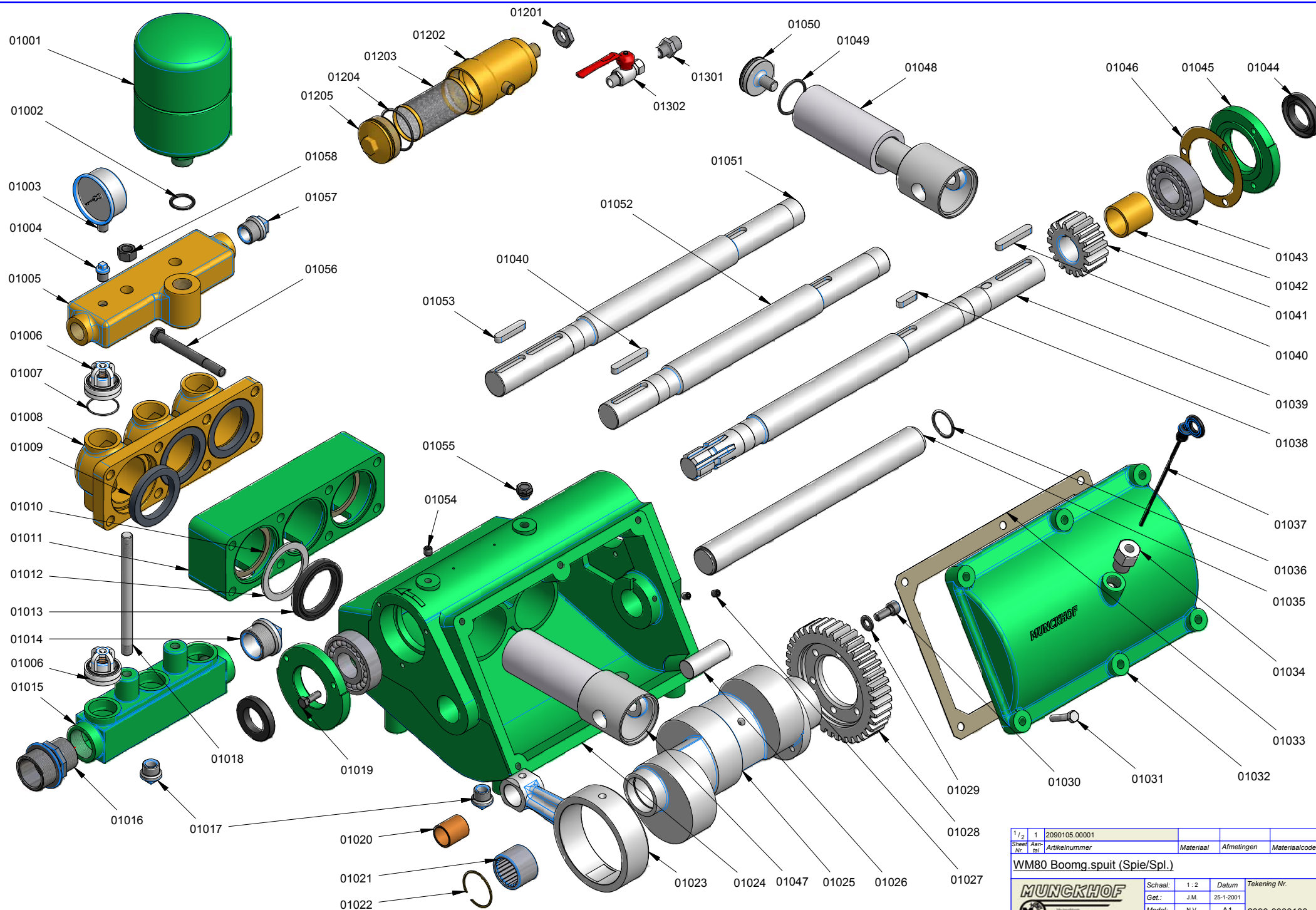
WM70

ONDERDELEN LIJST

ERSATZTEILEN LISTE

SPARE PARTS LIST

POSITION POSITION POSITIE	PART-NUMBER BESTELNR. ARTIKELCODE	LENGTH mm LÄNGE mm LENGTE mm	OMSCHRIJVING NEDERLANDS	BESCHREIBUNG DEUTSCH	DESCRIPTION ENGLISH
01035	9032067.06800		Stop 3/4' rand VZ	Stopf mit Rand 3/4' verzinkt	Stop with edge 3/4' zinked
	9034020.06800		Stop 3/4' met binnenzeskant messing	Stopf 3/4' messing	Socket stop 3/4' brass
01036	8207012.00580		Klep kast WM70	Ventil-Gehäuse WM70	Valve housing WM70
01037	9032067.06800		Stop 3/4' rand VZ	Stopf mit Rand 3/4' verzinkt	Stop with edge 3/4' zinked
	9034000.06800		Dubbele nippel 3/4' Messing	Doppelter Nippel 3/4' Messing	Double nipple 3/4' brass
01038	9032067.02800		Stop 1/4' rand VZ	Stopf mit Rand 1/4' verzinkt	Stop with edge 1/4' zinked
	9272005.00100		Manometer 60 Bar f63 1/4' onder aansl.	Manometer 0- 60 Bar f 63mm. 1/4' Unten	Manometer 0- 60 Bar f 63mm. 1/4' below
01039	9001002.14000		Zeskantmoer M14 ELVZ	Sechskantmutter M14 Verzinkt	Hexagon nut M14 Zinc plated
01040	9032067.02800		Stop 1/4' rand VZ	Stopf mit Rand 1/4' verzinkt	Stop with edge 1/4' zinked
01041	8209014.00595		Lucht ketel	Luftkessel	Air kettle
01042	9420000.02490		O-ring 24.99 x 3.53 NBR 70	O-ringe 24.99 x 3.53	O-ring 24.99 x 3.53
01043	9032031.06800		Knie 3/4' bi/bu VZ	Knie 3/4' in/aus verzinkt	Knee 3/4' in/out zinked
01044	9002020.14165		Tapeind M14x165 Staal	Stiftschraube M14x165 Stahl	Stud M14x165 Steel
01045	8207015.00502		Blinddop 5/4" messing	Stopf 5/4" Messing	Stop 5/4" brass
01046	8205019.10177		Klep WM35 - WM70 compleet	Ventil WM35 -WM70 Komplet	Valve WM35 - WM70 complete
01047	9420000.03300		O-ring 33.00 x 2.62 EPDM	O-ringe 33.00 x 2.62	O-ring 33.00 x 2.62
01048	8207013.00282		Aanzuigstuk WM70	Ansaug-Stück WM70	Suction piece WM70
01049	9038003.10800		Verloopnippel 1 1/4'-1 1/2'	Reduzierstück 1-1/4' - 1-1/2' Ausg	Reducing nipple 1-1/4' 1-1/2' out
01200	9375499.00100		Persfilter 3/4'-1/2'-1/2'	Druckfilter 3/4'-1/2'-1/2' Komplet	Pressurefilter 3/4'-2x1/2' complete
01201	9032065.06800		Zeskantmoer 3/4' VZ	Schließmutter 3/4' verzinkt	Flat hexagon nut 3/4' zinked
01202	9375499.01001		Persfilterhuis No.23	Druckfilterhaus No.23	Pressurefilterbody No.23
01203	9375499.01003		Perszeef filter No.23	Drucksieb für Filter No.23	Pressurefilter No.23
01204	9420000.07580		O-ring 75.80 x 3.53 NBR 70	O-ringe 75.80 x 3.53	O-ring 75.80 x 3.53
01205	9375499.01002		Deksel hogedruk persfilter	Deckel Hochdruck Filter	Cover high-pressure filter
01301	9032021.06801		Verloop nippel 3/4' x 1/2' VZ	Verlauf Nippel 3/4'x1/2' verzinkt	Reducing nipple 3/4'x1/2' zinked
01302	9331230.00100		Tweeweg kogelkraan 1/2'	Zweiweg Kugelhahn 1/2'	Two-way Ball valve 1/2'



1/2	1	2090105.00001			
Sheet	Art.	Artikelnnummer	Materiaal	Afmetingen	Materialcode
WM80 Boomg.spuut (Spie/Spl.)					
MUNCKHOF		Schaal:	1 : 2	Datum	Tekening Nr.
		Get.:	J.M.	25-1-2001	
		Model:	N.V.	A1	2090-0000100
		Amerikaanse projectie			

WM80**ONDERDELEN LIJST****ERSATZTEILEN LISTE****SPARE PARTS LIST**

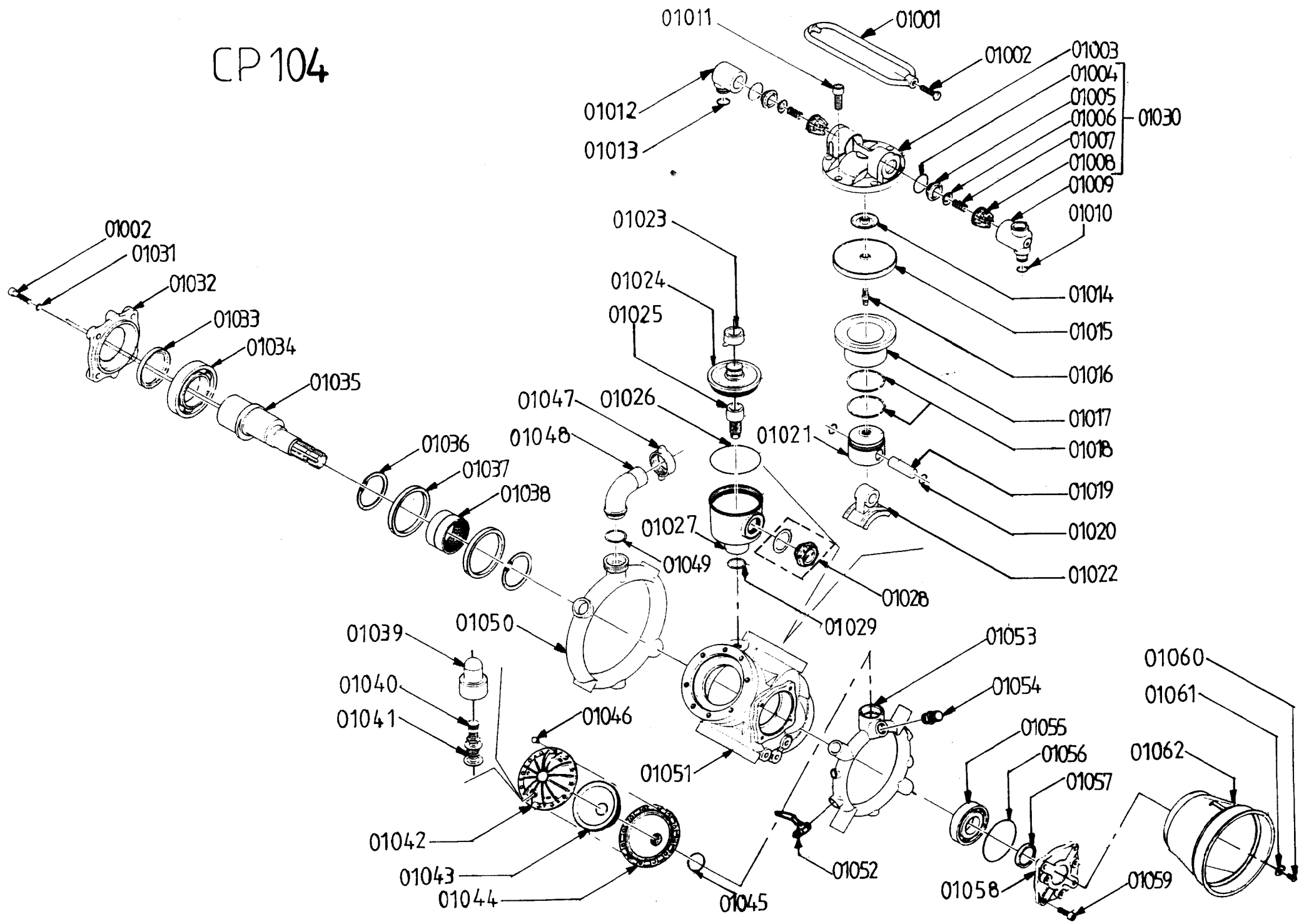
POSITION POSITION POSITIE	PART-NUMBER BESTELNR. ARTIKELCODE	LENGTH mm LÄNGE mm LENGTE mm	OMSCHRIJVING NEDERLANDS	BESCHREIBUNG DEUTSCH	DESCRIPTION ENGLISH
01001	8209014.00595		Luchtketel	Luftkessel	Air kettle
01002	9420000.02490		O-ring 24.99 x 3.53 NBR 70	O-ringe 24.99 x 3.53	O-ring 24.99 x 3.53
01003	9272005.00100		Manometer 60 Bar f63 ¼'onder aansl.	Manometer 0- 60 Bar f 63mm. ¼'Unten	Manometer 0- 60 Bar f 63mm. ¼'below
01004	9032067.02800		Stop ¼' rand VZ	Stopf mit Rand 1/4' verzinkt	Stop with edge 1/4' zinked
01005	8209013.00465		Klep kast WM80	Ventil-Gehäuse WM80	Valve housing WM80
01006	8209014.01792		Klep WM80 met RVS zitting	RVS Ventil Komplet	RVS valve complete
	8209014.01793		Klep WM80	Kunststoffes Ventil Komplet	Nylon valve complete
01007	9420000.03710		O-ring 37.10 x 1.60 EPDM	O-ringe 37.10 x 1.60	O-ring 37.10 x 1.60
01008	8209013.00665		Cilinderkop WM80	Zilinderkopf WM80	Cylinder head WM80
01009	9420402.06000		Canvas manchet 60x80x12.5	Canvas Manchette 60x80x12.5	Canvas sealing cup 60x80x12.5
01010	9420602.05902		Plunjerring 59x73x3.0 WM80/100	Flache Packung (59x73x3.0)	Flat gasket (59x73x3.0)
01011	8209014.01165		Tussenstuk (aluminiumoxide plunjers)	Zwischenstück Alumin.Oxyd Plunger	Between piece Alumin.Oxide plunger
01012	8209015.00593		Centreerring 3mm	Zentrier-Ringe 3mm	Centre ring 3mm
01013	9420400.06000		U-manchet olie kant 60x80x10	U-Manchette Ölseite 60x80x10	U-manchet oil side 60x80x10
01014	9032067.10800		Stop 1¼' rand VZ	Stopf mit Rand 1-1/4' verzinkt	Stop with edge 1-1/4' zinked
01015	8209013.00393		Aanzuigstuk	Ansaugestück WM80	Suction piece WM80
01016	9038003.10800		Verloopnippel 1¼'-1½'	Reduzierstück 1-1/4' - 1-1/2' Ausg	Reducing nipple 1-1/4' 1-1/2' out
01017	9032067.04800		Stop ½' rand VZ	Stopf mit Rand 1/2' verzinkt	Stop with edge 1/2' zinked
01018	9002020.14180		Tapeind M14x180 Staal	Stiftschraube M14x180 Stahl	Stud M14x180 Steel
01019	9000002.08025		Tapbout M8 x 25 ELVZ	Sechskant Bolze M8 x 25 Verzinkt	Hexagon screw M8 x 25 Zinc plated
01020	9092001.02501		Glijlager f25/30x40 (Brons)	Gleitlager f25/30x35 (Brons)	Plain bearing f25/30x40 (Brons)
01021	9091508.03800		Naaldlager SCE-2420	Nadellager SCE-2420	Needle bearing SCE-2420
01022	9001860.04800		Seegerring f48 huis zonder ogen	Sicherungsring f48 für Gehäuse	Retaining ring f48 for housing
01023	8209013.00265		Drijfstang WM80	Pleuelstange WM80	Connecting rod WM80
01024	8209012.00193		Carter WM80	Kurbel-Gehäuse WM80	Crank case WM80
01025	8209013.00765		Krukas WM80	Kurbelwelle WM80	Crank shaft WM80
01026	8209015.00965		Piston-as	Plunger-Stift	Piston pinion
01027	9000072.08010		Stelschroef M8 x 10 BZK ELVZ	Einstelschraube M8 x 10 Verzinkt	Socket set screw M8 x 10 zinc pl.
01028	8209014.00393		Krukas tand wiel WM80	Zahnrad für Kurbelwelle WM80	Gear wheel crank shaft WM80
01029	9001532.10000		Veerring M10 ELVZ vlakke einden	Federring für Zyl.schraube M10 verz	Springlock washer for cyl.heads M6
01030	9000082.10025		Cilinderkopschroef M10x25 BZK ELVZ	Zilinderschraube M10x 25 Verzinkt	Hex. socket head cap screw M10x 25
01031	9000002.08040		Tapbout M8 x 40 ELVZ	Sechskant Bolze M8 x 40 Verzinkt	Hexagon screw M8 x 40 Zinc plated
01032	8209013.00165		Carter-deksel WM80	Deckel für Kurbel-Gehäuse	Cover for crank case
01033	9420802.08000		Pakking carterdeksel WM80 pap.	Packung Deckel Kurbel-Gehäuse WM80	Flat gasket crankcase cover WM80
01034	8209015.00391		Vuldop	Öl-Füllzapfen WM80	Oil filling cap WM80
01035	8209014.00993		As	Achse für Kurbelwelle	Axle for crank shaft
01036	9420000.03200		O-ring 32.00 x 3.00 NBR 70	O-ringe 32.00 x 3.00	O-ring 32.00 x 3.00
01037	8209015.00491		Peilstok WM80/60	Peilstock WM80/60	Gauging-rod WM80/60
01038	9003000.10032		Inlegspie 10x 8x32 Staal	Spie 10x 8x32	Square parallel key 10x 8x32
01039	8209014.00191		Primaire as WM80 boomgaardspuit	Triebachse mit Splines verbinding	Driving shaft with splines
01040	9003000.10060		Inlegspie 10x 8x60 Staal	Spie 10x 8x60	Square parallel key 10x 8x60

Bij bestellingen **ALTIJD** de ARTIKELCODE opgeven, **NIET** de POSITIE!Bei Bestellungen **IMMER** die BESTELNUMMER aufgeben, **NICHT** die POSITION!When ordering spare parts, **ALWAYS** mention the **PART-NUMBER**, **NOT** the **POSITION**!

WM80**ONDERDELEN LIJST****ERSATZTEILEN LISTE****SPARE PARTS LIST**

POSITION POSITION POSITIE	PART-NUMBER BESTELNR. ARTIKELCODE	LENGTH mm LÄNGE mm LENGTE mm	OMSCHRIJVING NEDERLANDS	BESCHREIBUNG DEUTSCH	DESCRIPTION ENGLISH
01041	8209014.00293		Rondsel primaire as	Zahnrad Triebachse	Gear wheel driving shaft
01042	8209015.00278		Afstandsbus as	Abstandshülse Triebachse	Spacer driving shaft
01043	9090007.03520		Kogellager 6307-2RS1/QE6	Kugellager 6307-2RS1/QE6	Ball bearing 6307-2RS/QE6
01044	9420201.03501		Oliekeerring 35 x 58 x 10	Öldichtungsringe 35 x 58 x 10	Oil seal 35 x 58 x 10
01045	8209014.00793		Lagerdeksel	Lager-Deckel WM80	Bearing cover WM80
01046	9420800.08000		Pakkingring 80x110x0.25 papier	Flache Packung (80x110x0.25) Papier	Flat gasket (80x110x0.25) Paper
01047	8209013.01095		Aluminiumoxide plunjer WM80	Aluminium-Oxyd Plunger WM80 Kompl.	Aluminium-oxide plunger WM80 Compl.
01048	8209014.01293		Aluminiumoxide plunjerbus f60	Aluminium-Oxyd Plunger-Buchse WM80	Aluminium-oxide plunger bush WM80
01049	9420000.04250		O-ring 42.50 x 3.00 NBR 70	O-ringe 42.50 x 3.00	O-ring 42.50 x 3.00
01050	8209015.01195		Bout plunjerbevestiging WM80	Bolze für Plungerbuchse-Befestigung	Bolt for plunger bush connection
01051	8209014.01465		Primair-as WM80 stationair	Triebachse L=530 stationair	Driving shaft L= 530 stationary
01052	8209014.01965		Korte primair-as WM80 stationair	Triebachse L=480 stationair	Driving shaft L=480 stationary
01053	9003000.10050		Inlegspie 10x 8x50 Staal	Spie 10x 8x50	Square parallel key 10x 8x50
01054	9000072.10010		Stelschroef M10x 10 BZK ELVZ	Einstelschraube M10x 10 Verzinkt	Socket set screw M10x 10 zinc pl.
01055	9038027.02800		Ontluchttingsplug ¼'	Entlüftungsventil 1/4'	Ventilating valve 1/4'
01056	9000012.12110		Zeskantbout M12 x 110 ELVZ	Sechskant-Bolze M12x110 Verzinkt	Hexagon bolt M12x110 Zinc plated
01057	9032067.06800		Stop 3/4' rand VZ	Stopf mit Rand 3/4' verzinkt	Stop with edge 3/4' zinked
01058	9001002.14000		Zeskantmoer M14 ELVZ	Sechskantmutter M14 Verzinkt	Hexagon nut M14 Zinc plated
01200	9375499.00100		Persfilter 3/4'-½'-½'	Druckfilter 3/4'-1/2'-1/2' Komplet	Pressurefilter 3/4'-2x1/2' complete
01201	9032065.06800		Zeskantmoer 3/4' VZ	Schließmutter 3/4' verzinkt	Flat hexagon nut 3/4' zinked
01202	9375499.01001		Persfilterhuis No.23	Druckfilterhaus No.23	Pressurefilterbody No.23
01203	9375499.01003		Perszeef filter No.23	Drucksieb für Filter No.23	Pressurefilter No.23
01204	9420000.07580		O-ring 75.80 x 3.53 NBR 70	O-ringe 75.80 x 3.53	O-ring 75.80 x 3.53
01205	9375499.01002		Deksel hogedruk persfilter	Deckel Hochdruck Filter	Cover high-pressure filter
01301	9032021.06801		Verloop nippel 3/4' x ½' VZ	Verlauf Nippel 3/4'x1/2' verzinkt	Reducing nipple 3/4'x1/2' zinked
01302	9331230.00100		Tweeweg kogelkraan ½'	Zweiweg Kugelhahn 1/2'	Two-way Ball valve 1/2'

CP 104



Membraan pomp CP104 onderdelen**ONDERDELENLIJST****ERSATZTEILEN LISTE****SPARE PARTS LIST**

POSITION POSITION POSITIE	PART-NUMBER BESTELNR. ARTIKELCODE	L= M	OMSCHRIJVING NEDERLANDS	BESCHREIBUNG DEUTSCH	DESCRIPTION ENGLISH
01001	9210198.06001		Klembeugel CP104 950	Klemme-Bügel	Connection clip
01002	9000012.10045		Zeskantbout M10x 45 ELVZ	Sechskant-Bolze M10x 45 Verzinkt	Hexagon bolt M10x 45 Zinc plated
01003	9210198.08001		Cil.kop CP104 952	Zilinderkop	Cylinder head CP104
01004	9420000.03000		O-ring 30,00x3,50 NBR 70 shore	O-ringe 30.00 x 3.50	O-ring 30.00 x 3.50
01005	9210198.08002		Klepzitting CP104 953	Ventilsitz	Valve seat
01006	9210198.08003		Klep CP104 954	Ventil CP104	Valve CP104
01007	9210198.08004		Klepveer CP104 955	Ventilfeder	Valvespring
01008	9210198.08005		Klepkorf CP104 956	Ventilkorb	Valve basket
01009	9210198.08006		klephuis perszijde CP104 957	Ventilgehäuse pressseite CP104	valve casing pressureside CP104
01010	9420000.01580		O-ring 15,88x2,62 NBR 70	O-ringe 15.88 x 2.62	O-ring 15.88 x 2.62
01011	9000082.12035		Cil.kopschr. M12x 35 BZK-ELVZ	Zilinderschraube M12x 35 Verzinkt	Hex. socket head cap screw M12x 35
01012	9210198.08007		klephuis zuigzijde CP104 959	Ventilgehäuse pressseite CP104	valve casing suction side CP104
01013	9420000.02020		O-ring 20,29x2,62 NBR 70 shore	O-ringe 20.24 x 2.62	O-ring 20.24 x 2.62
01014	9210198.05001		Membraan-drukker CP104	Membrane-Drucker	Diaphragm presser
01015	9210198.05002		Membraan ø105 (CP104)	Membrane ø105	Diaphragm ø105
01016	9210198.05003		Bout v membraan M12x38 CP104	Bolze für Membrane M12x34	Bolt for diaphragm M12x34
01017	9210198.04001		Cil.bus ø65 CP104	Zilinderbuchse ø70	Cylinder bush ø65
01018	9210198.04002		Zuigerveer ø65x2.5 CP104	Kolbenring ø70x2.5	Piston ring ø70x2.5
01019	9210198.03001		Piston-pen CP104 ø18x56	Säuger-Stift ø18x56	Piston pinion ø18x56
01020	9001860.01800		Segerring ø18 voor huis	Sicherungsring ø18 für Gehäuse	Retaining ring ø18 for housing
01021	9210198.04003		Zuiger ø65 CP104	Säuger ø70	Piston ø70
01022	9210198.03002		Drijfstang CP104	Säugerstange CP104	Piston rod CP104
01023	9210198.09001	157	Olie vuldop CP104	Öl-Nachfüllkappe	Oil filling cap
01024	9210198.09002		Olie reservoir deksel CP104	Öl-Behälter	Oil reservoir
01025	9210198.09003		M20 x 40 CP104	M20 x 40	M20 x 40
01026	9420000.08222		O-ring 82,22x2,62 NBR 70 shore	O-ringe 82.22 x 2.62	O-ring 82.00 x 5.30
01027	9210198.09004		Olie revervoir CP104	Öl-Behälter	Oil reservoir
01028	9210198.09005		Olie-kijkglas 1' CP104	Ölstandsglass 1' CP104	Oil gauge glass 1'

Bij bestellingen **ALTIJD** de **ARTIKELCODE** opgeven, **NIET** de **POSITIE**!

9210198.00000

Bei Bestellungen **IMMER** die **BESTELNUMMER** aufgeben, **NICHT** die **POSITION**!When ordering spare parts, **ALWAYS** mention the **PART-NUMBER**, **NOT** the **POSITION**!

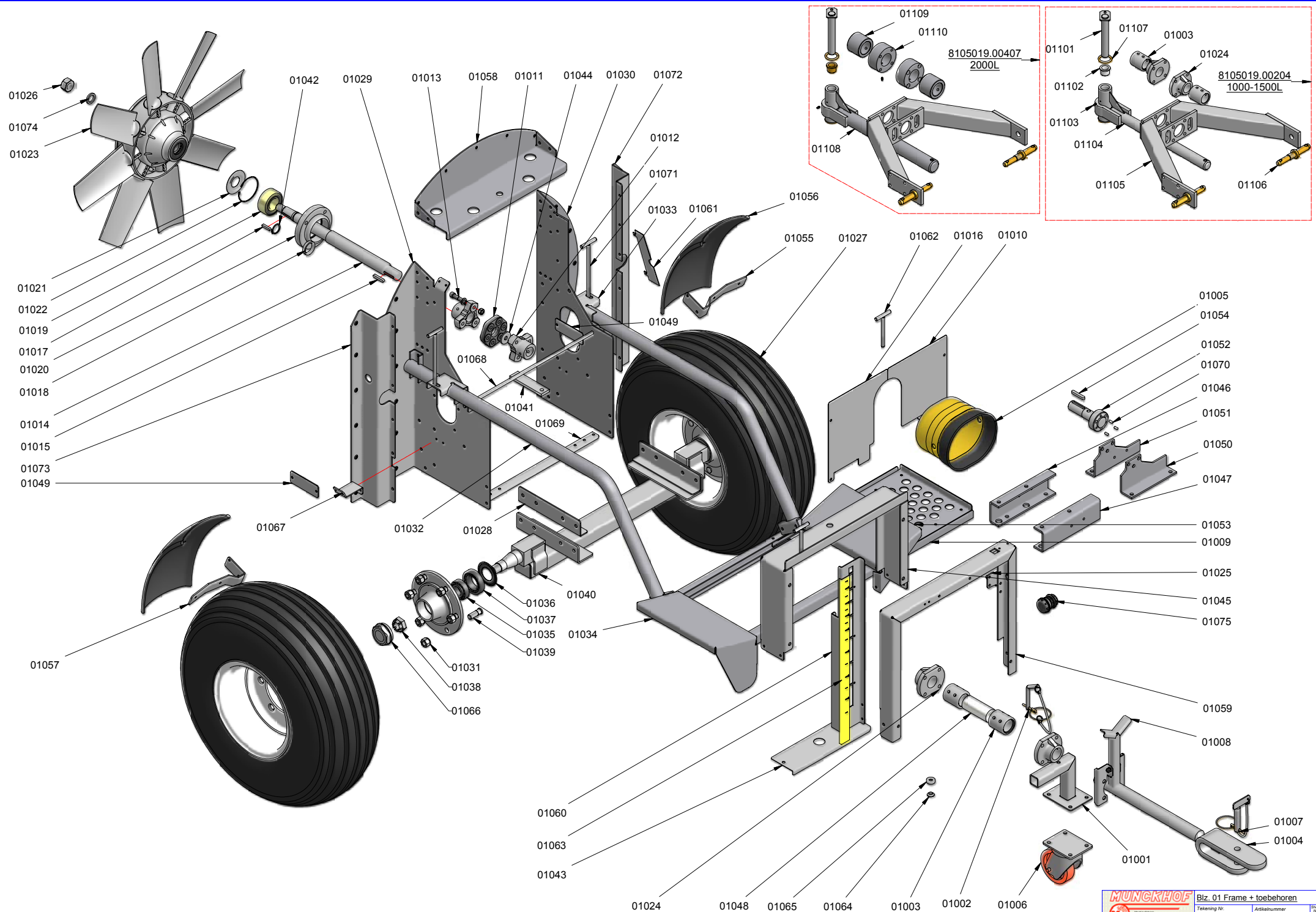
H:\data\G_Report\Ondlst\Ondlst.rpt

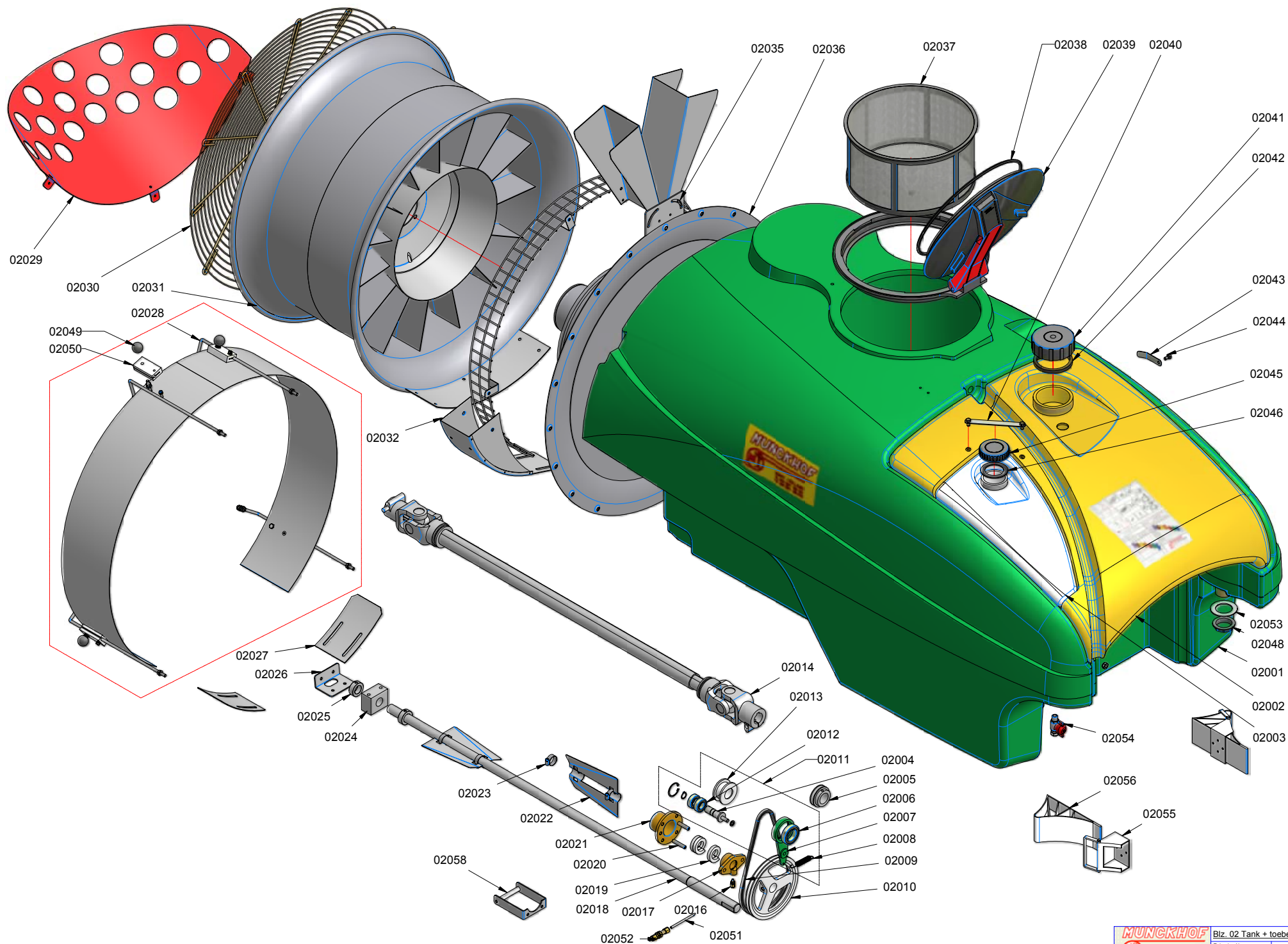
Membraan pomp CP104 onderdelen**ONDERDELENLIJST****ERSATZTEILEN LISTE****SPARE PARTS LIST**

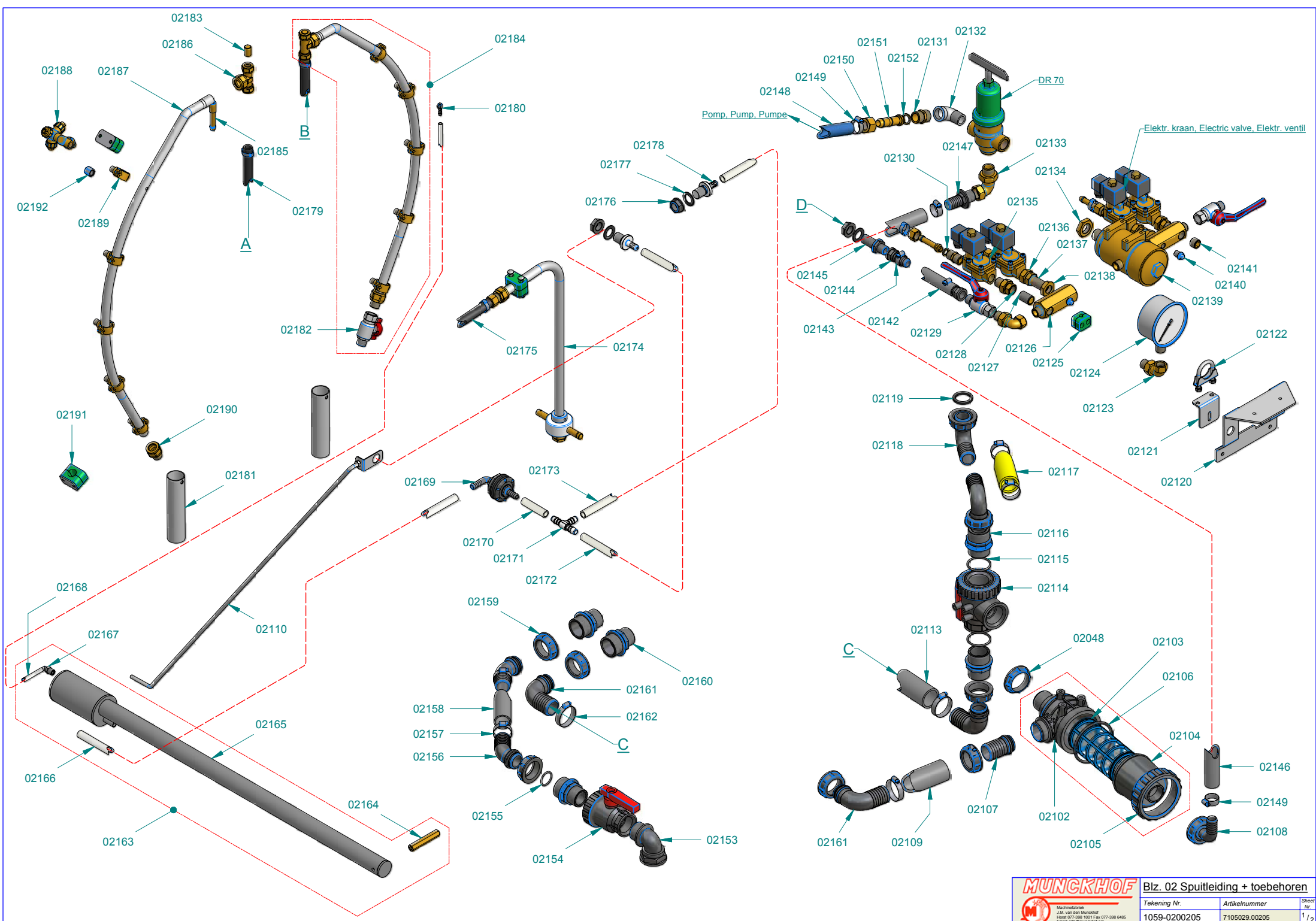
POSITION POSITION POSITIE	PART-NUMBER BESTELNR. ARTIKELCODE	L= M	OMSCHRIJVING NEDERLANDS	BESCHREIBUNG DEUTSCH	DESCRIPTION ENGLISH
01029	9420000.02650		O-ring 26,58x3,53 NBR 70	O-ringe 26.58 x 3.53	O-ring 26.58 x 3.53
01030	9210198.08008		Klep kompl. CP104 961	Ventil Komplet	Valve complete
01031	9001502.10000		Vlakke sluitring M10 ELVZ	Ring M10	Flat washer M10 ELVZ
01032	9210198.01001		Carterdeksel achterzijde CP104	Kurbelgehaüse deckel hintenseite CP104	Crank case cover backside
01033	9420201.06500		Gaco oliekeerring 65x90x10 NBR	Gaco Öldichtungsringe 65 x 90 x10	Gaco Oil seal 65 x 90 x10
01034	9090005.06520		Kogellager 6013-2RS1	Kugellager 6013-LLU	Ball bearing 6013-LLU
01035	9210198.02001		Krukas met splines 1'3/8 CP104	Kurbelwelle mit Splines 1'3/8 CP104	Crank shaft with splines 1'3/8 CP104
01036	9001860.06700		Segerring ø67 voor huis	Sicherungsring ø67 für Gehäuse	Retaining ring ø67 for housing
01037	9210198.03003		Ring drijfstangen CP104	Ringe Säugerstangen CP104	Ring piston rod
01038	9091506.05200		Naaldlager RNA-6909 zonder bin	Nadellager RNA-6909 ohne Innenring	Needle bearing RNA-6909 without in.
01039	9210198.10001		Ventieldop CP104	Kappe für Luftventil	Cap for air valve
01040	9210198.10002		Ontluchttingsvent. CP104	Entlüftungsventil	Air release valve
01041	9210198.10003		Bev.ring voor vent. CP104	Befestigungs Ringe für Kappe	Connection ring for cap CP104
01042	9210198.10004		Bovenstuk luchtketel CP104	Oberste Hälfte Luftkessel	Upper half air vessel
01043	9210198.10005		Membraan luchtketel CP104	Membrane Luftkessel	Diaphragm air vessel
01044	9210198.10006		Benedenstuk luchtketel CP104	Unterste Hälfte Luftkessel CP104	Lower half air vessel CP104
01045	9420000.03931		O-ring 39,34x2,62 NBR 70	O-ringe 39,34 x 2,62	O-ring 39,34 x 2,62
01046	9000002.10020		Tapbout M10 x 20 ELVZ	Sechskant Bolze M10 x 20 Verzinkt	Hexagon screw M10 x 20 Zinc plated
01047	9210199.06004		Wartel 47 P8 messing CP103	Überwurfmutter 47 P8 Messing	Swivel 47 P8 brass
01048	9210199.06002		Slang pilaar ø35 90° messing	Schlauch-Pfeiler ø35 90° Messing	Hose pillar ø35 90° brass
01049	9420000.03000		O-ring 30,00x3,50 NBR 70 shore	O-ringe 30.00 x 3.50	O-ring 30.00 x 3.50
01050	9210198.06004		Aanzuigstuk CP104 993	ansaugeseite	suction side
01051	9210198.01002		Carter CP104	kurbelgehaüse CP104	Crank case
01052	9210198.07001		Kogelkraan CP104 296	Zweiweg Kugelhahn CP104	Two-way Ball valve CP104
01053	9210198.07002		Persstuk CP104 995	presse	pression
01054	9032020.03800		Dubbele nippel 3/8' verzinkt	Doppelter Nippel 3/8' verzinkt	Double nipple 3/8' zinked
01055	9090007.03500		Kogellager 6307	Kugellager 6307	Ball bearing 6307
01056	9420000.07600		O-ring 75.88x2.62 NBR 70 shore	O-ringe 76.00 x 2.5 NBR	O-ring 76.00 x 2.5 NBR

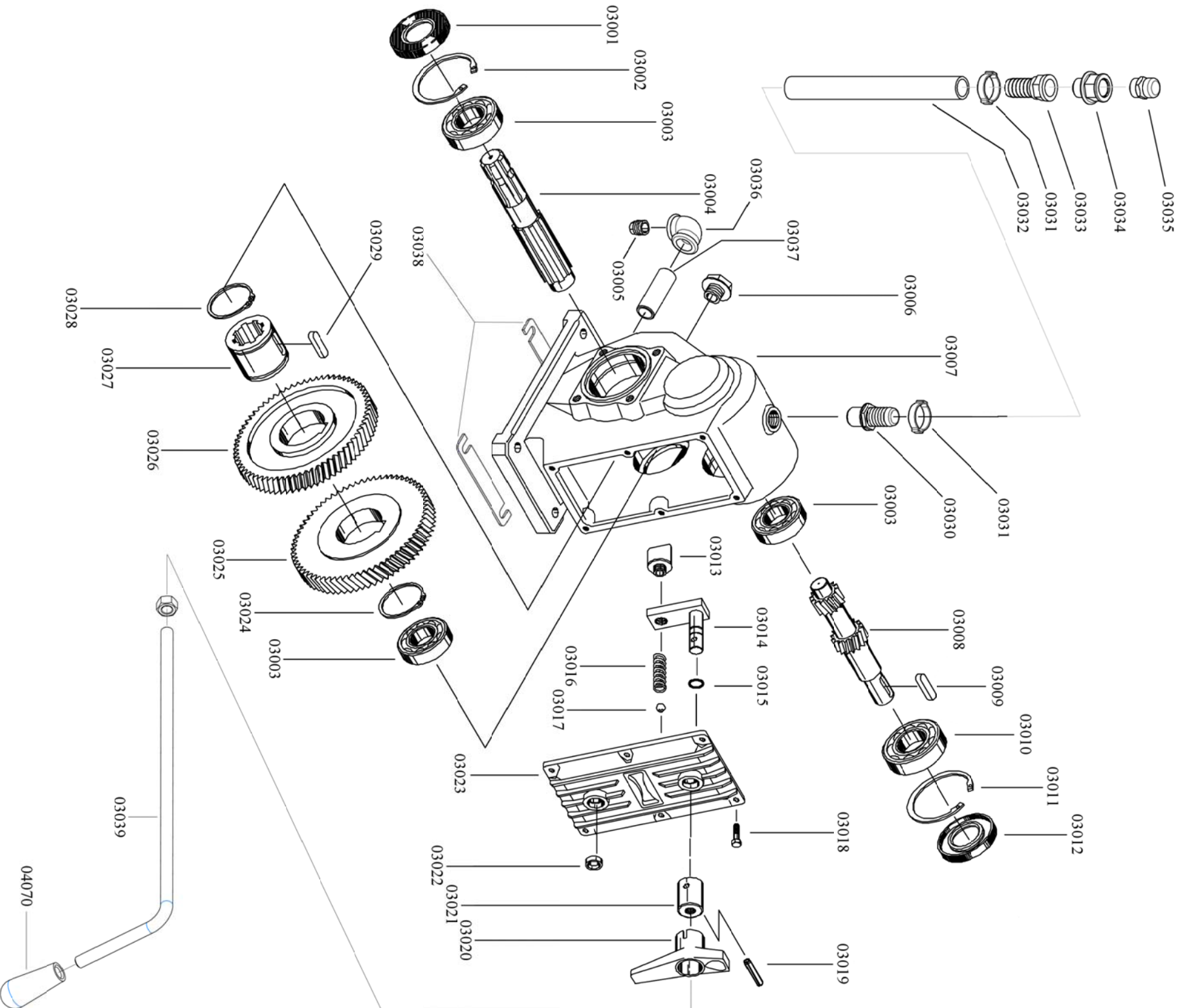
Membraan pomp CP104 onderdelen**ONDERDELENLIJST****ERSATZTEILEN LISTE****SPARE PARTS LIST**

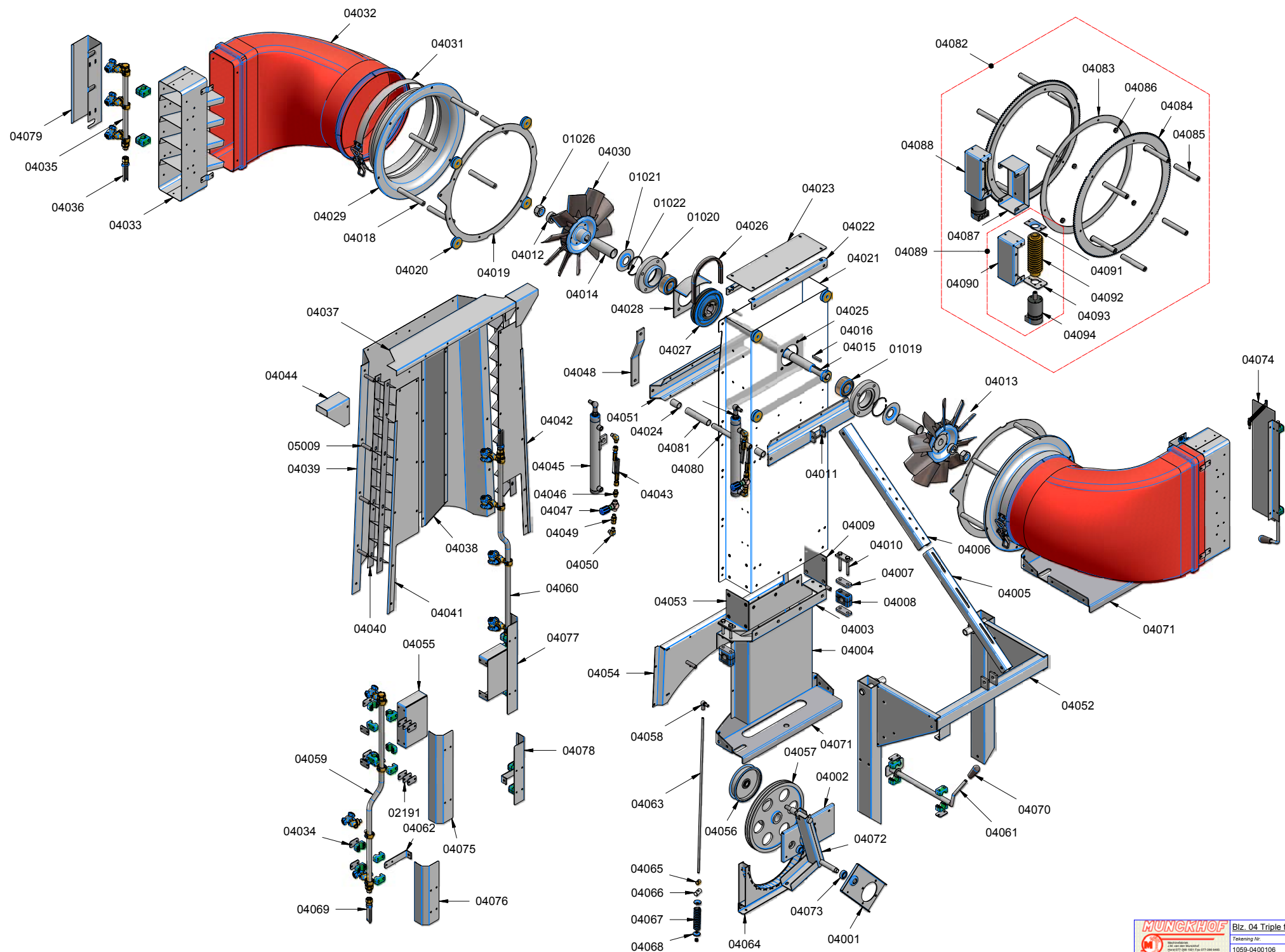
POSITION POSITION POSITIE	PART-NUMBER BESTELNR. ARTIKELCODE	L= M	OMSCHRIJVING NEDERLANDS	BESCHREIBUNG DEUTSCH	DESCRIPTION ENGLISH
01057	9420201.03504		Gaco oliekeerring 35x47x7 NBR	Öldichtungsringe 35 x 47 x 7	Oil seal 35 x 47 x 7
01058	9210198.01003		Carterdeksel voorzijde CP104	Kurbelgehäuse deckel vorderseite CP104	Crank case cover frontside CP104
01059	9000002.08030		Tapbout M 8 x 30 ELVZ	Sechskant Bolze M8 x 30 Verzinkt	Hexagon screw M8 x 30 Zinc plated
01060	9000002.08016		Tapbout M 8 x 16 ELVZ	Sechskant Bolze M8 x 16 Verzinkt	Hexagon screw M8 x 16 Zinc plated
01061	9001502.08000		Vlakke sluitring M 8 ELVZ	Ring M8	Flat washer M8 ELVZ
01062	9571000.06004		Kunstst.besch.kap CP104	Schutztopf (Kunststoff)	Safety shield CP104 (plastic)





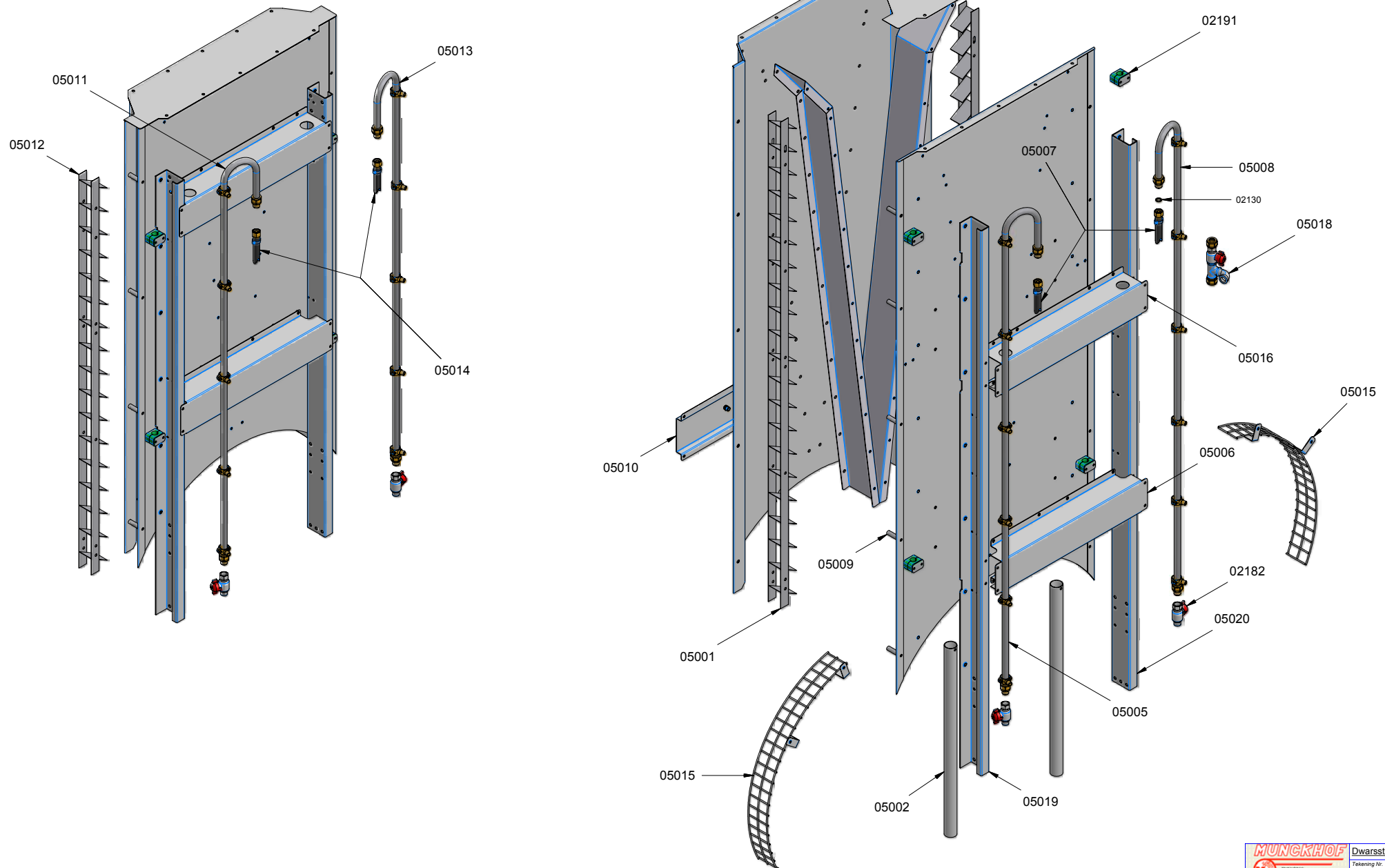


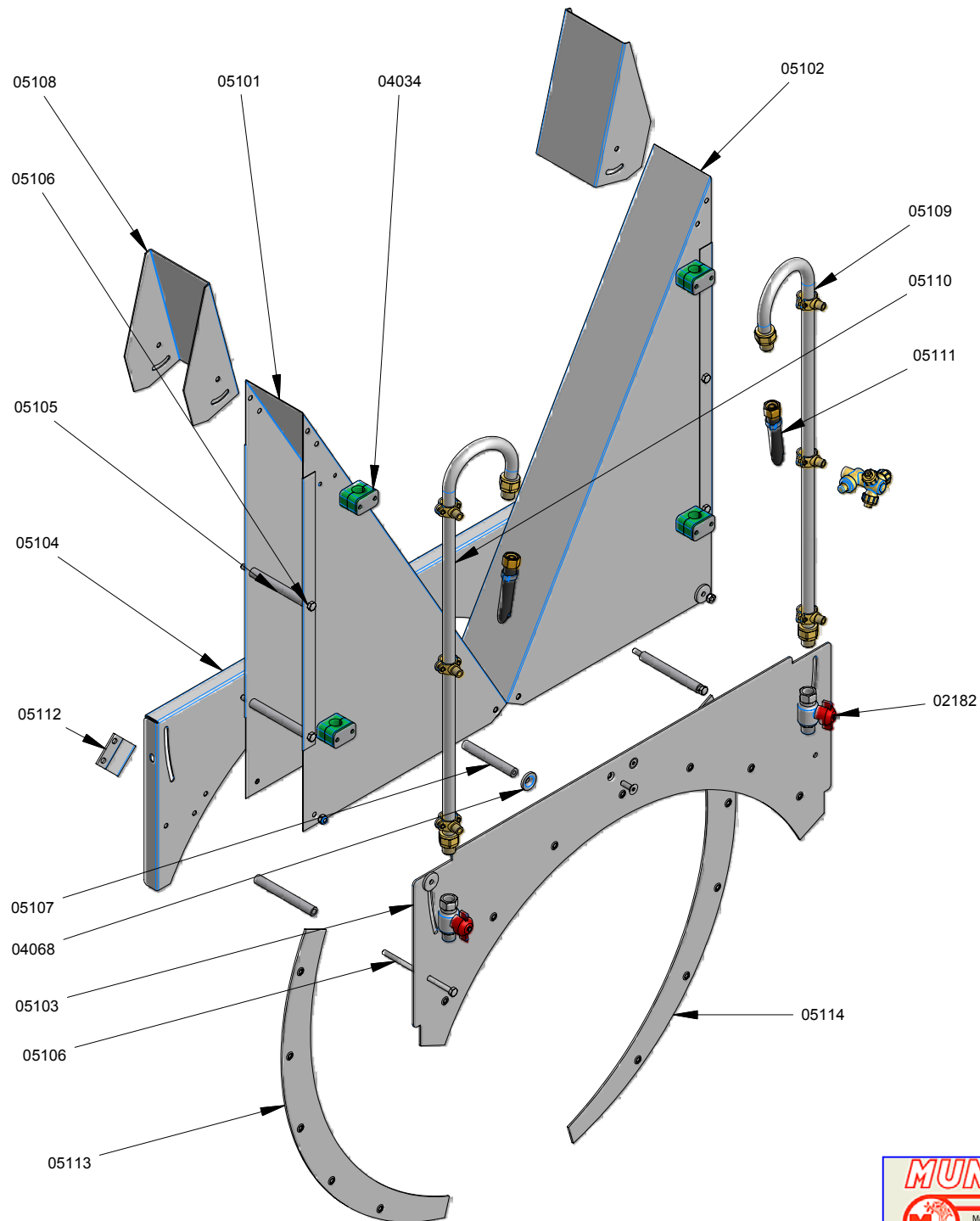


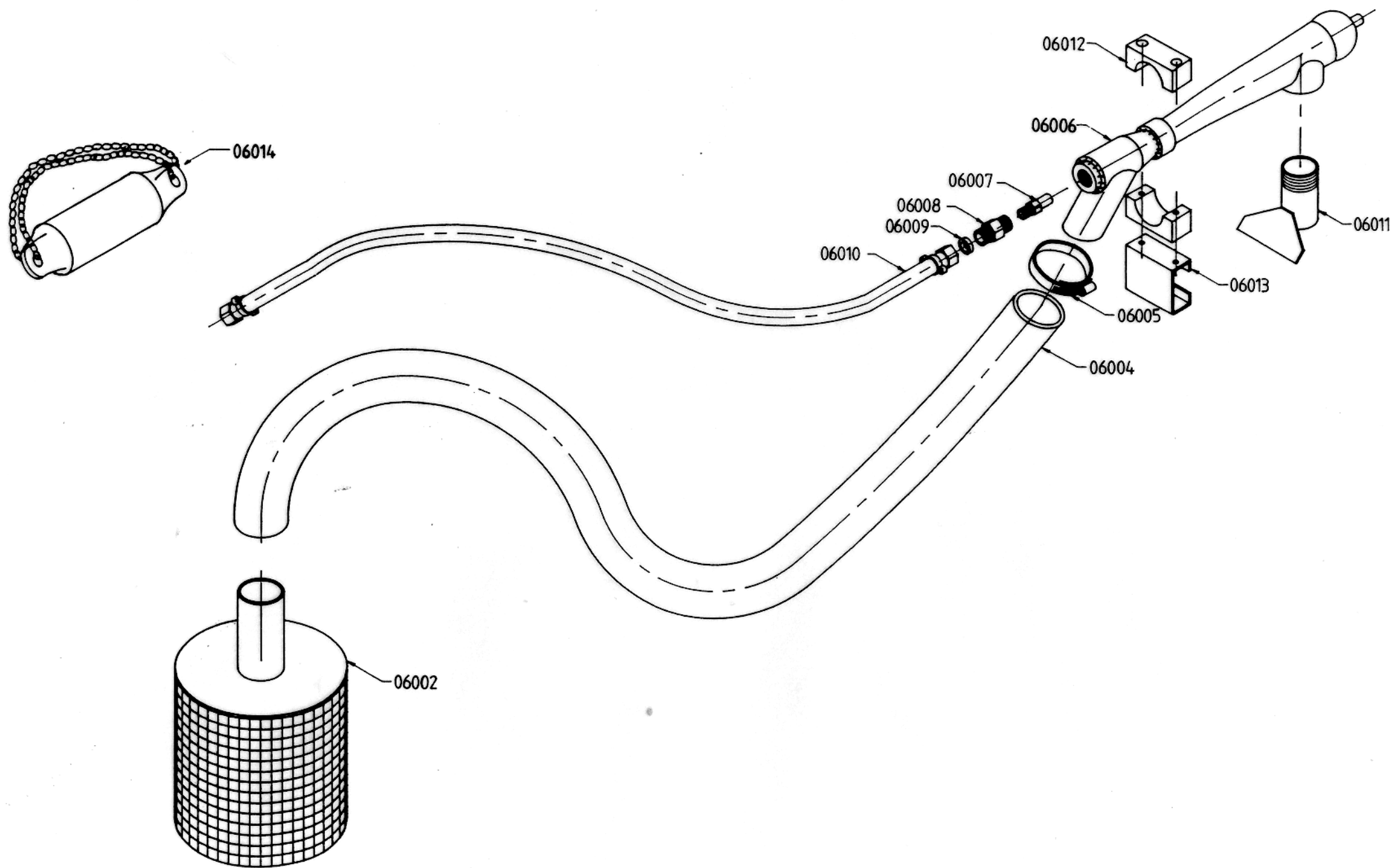


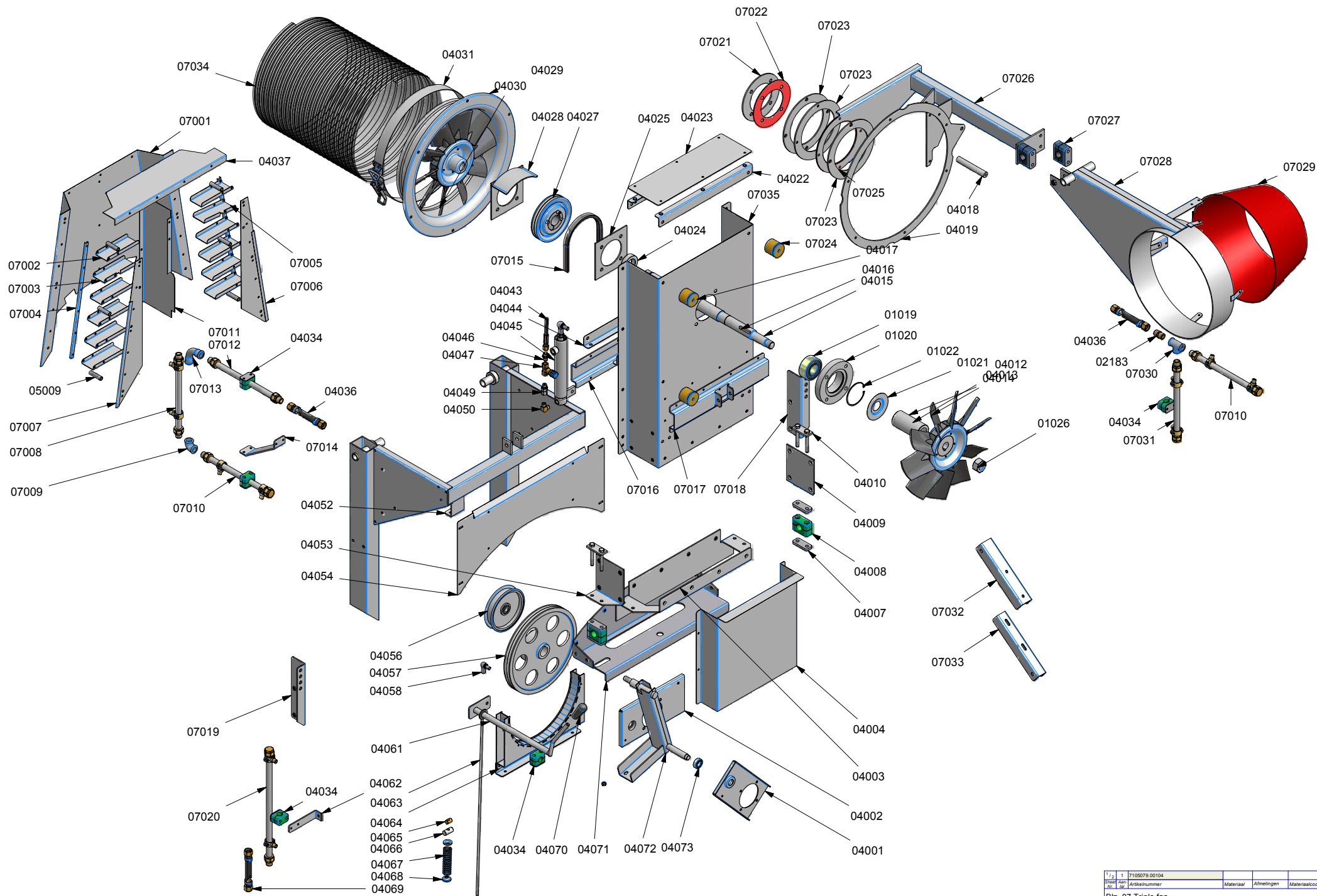
6 dops Dwarsstroom 3.05 mtr
8105059.00202

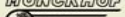
5 dops Dwarsstroom 2.75 mtr
8105059.00102

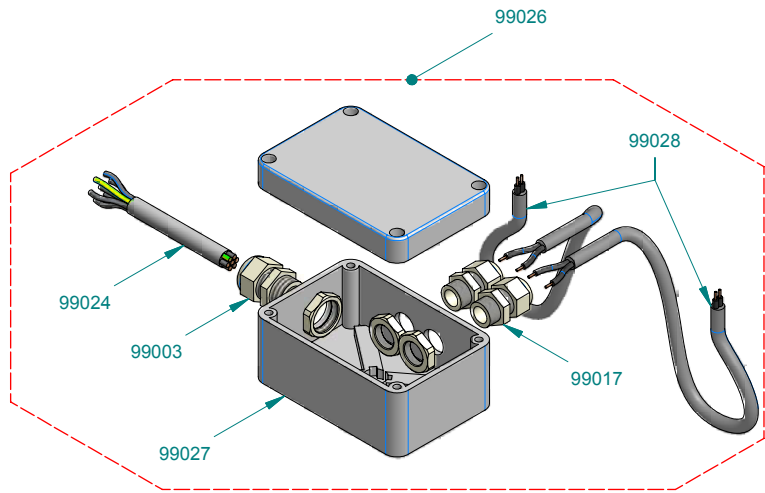
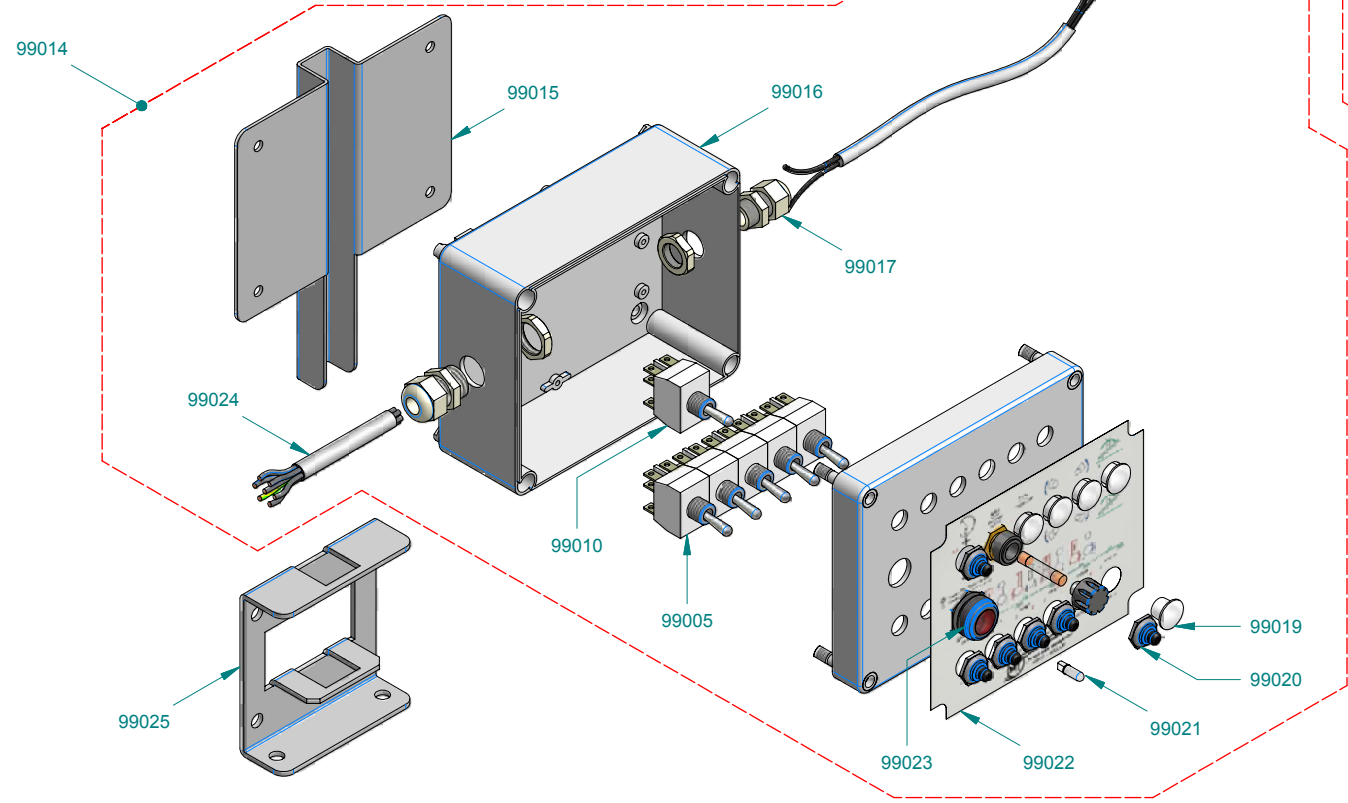
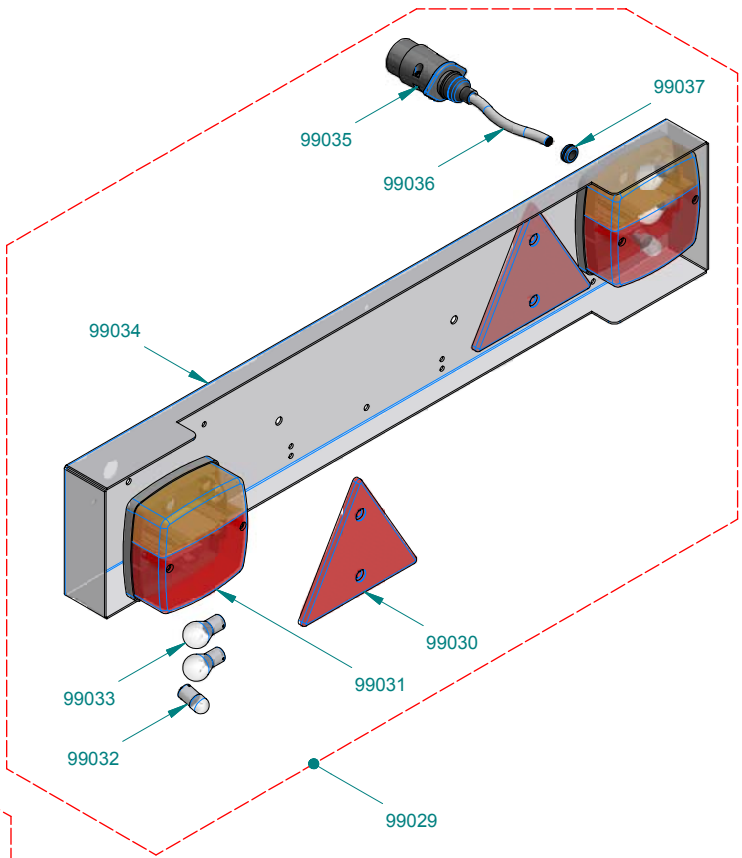
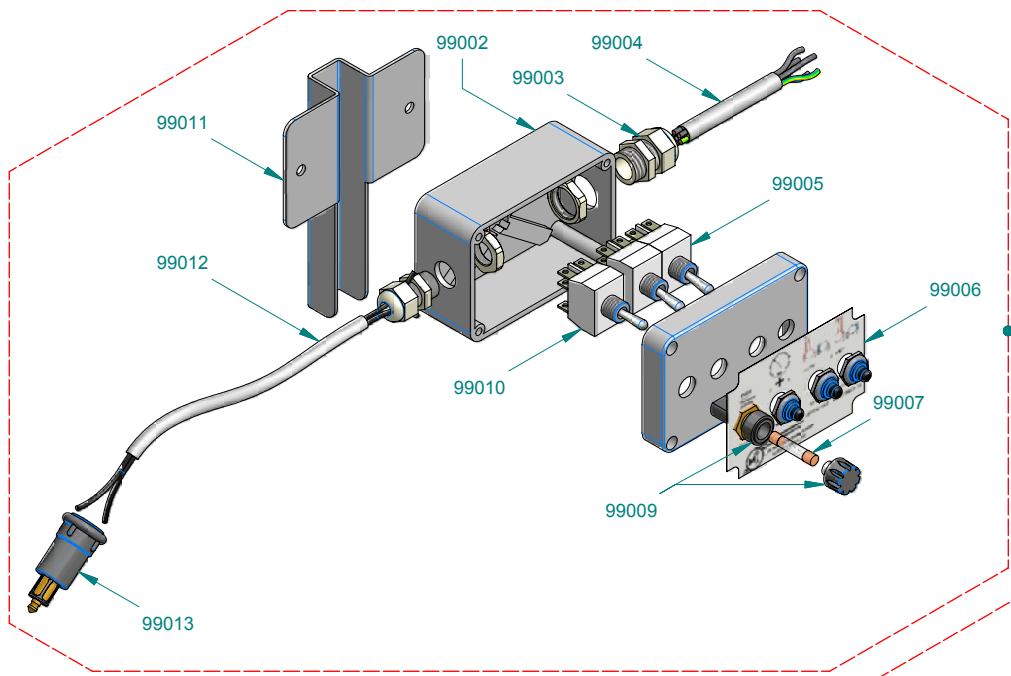








1/2	1	7105079.00104				
Sheet Nr.	Artikelenummer	Materiaal	Afmetingen	Materiaalcode		
Blz. 07 Triple fan						
 The Netherlands Postbus 100 5200 AA 't Hart (NL) Tel: +31 (0)43 381 1111 Fax: +31 (0)43 381 1112			Schaal:	1 : 5	Datum	Tekening Nr.
			Get.:	J.M.	29-3-2004	
			Model:	J.M.	A0	1059-0700104
			Amerikaanse projectie			



Mob.boomgaardspuit PE alu vent**ONDERDELENLIJST****ERSATZTEILEN LISTE****SPARE PARTS LIST**

POSITION POSITION POSITIE	PART-NUMBER BESTELNR. ARTIKELCODE	L= M	OMSCHRIJVING NEDERLANDS	BESCHREIBUNG DEUTSCH	DESCRIPTION ENGLISH
01001	8105014.00902		Statief boomgaardspuit	Fußstütze Obstbau sprühhmaschine	Support orchard sprayer
01002	8105014.01090		Insteekpen steun boomgaardsp.	Einstechstift	Lock-pinion
01003	9001802.04602		Stelring met stelschr.46x65x70	Stellringe mit Schraube 46x65x70	Adjusting ring with screw 46x65x70
01004	8105014.01892		Trekstang boomg.sp.1000-1500L.	Zugstange Obst Sprüngerät	Tow bar Orchardsprayer
01005	8105015.00192		Kunststof beschermkap	Kunststoff Schützkappe	Plastic protection cap
01006	9751055.01010		Zwenkwiel massief 125/35-176	Schwungrad 125/35-155	Solid swivelwheel 125/35-155
01007	8105015.04095		Bevestigingspen + borgclip	Befestigungsstift	Coupling pin
01008	8105015.01592		Aftakas-steun	Stativ Gelenkwelle	Support PTO-shaft
01009	8105014.00600		Opstap 1000L compleet	Trittbrett komplett 1000L	Step complete 1000L
	8105014.04203		Opstap 1500L compleet	Trittbrett komplett 1500L	Step complete 1000L
	8105014.04705		Opstap 2000L compleet	Stufe 2000L komplett	Step up complete
01010	8105013.02301		Afschermplaat links	Schirmplatte links	Coverplate left
	8105013.03705		Afscherming links roeras 2000L	Abschirmung links Rüderachse 2000 Ltr.	Cover left agitator shaft 2000 Ltr.
01011	9007018.01002		Flexibele koppelingschijf	Elastische kupplungsscheibe	Flexible coupling
01012	8105014.01692		Koppelingsflens met M10 gaten	Kupplungsflansche mit M10 Löcher	Coupling flange with M10 holes
01013	9000082.12060		Cil.kopschr. M12x 60 BZK-ELVZ	Zilinderschraube M12x 60 Verzinkt	Hex. socket head cap screw M12x 60
	9001042.12000		Nyloc zelfborgendemoer M12 ELV	Nyloc Selbstsichernde Mutter M12	Nyloc Locknut M12 Zinc plated
	9001502.12000		Vlakke sluitring M12 ELVZ	Ring M12	Flat washer M12 ELVZ
01014	8105014.01402		Vent.as L=590mm met conus	Ventilatorachse L=590	Fan shaft L=590mm
01015	9003000.10050		Inlegspie 10x 8x50 vlak	Spie 10x 8x50	Square parallel key 10x 8x50
01016	8105013.00601		Afschermplaat rechts	Schirmplatte rechts	Coverplate right
	8105013.03805		Afscherming rechts roeras 2000	Abschirmung rechts Rüderachse 2000 Ltr.	Cover right agitator axle 2000 Ltr.
01017	9003000.08040		Inlegspie 8x 7x40 vlak St.	Spie 8x 7x40	Square parallel key 8x 7x40
01018	8105015.04603		Opvulset Aluminium ventilator	Fühlringen Aluminium Ventilator	Filling rings Aluminium Fan
01019	9090025.03520		Instellend kogellager 2307-2RS	Einstellend Kugellager 2307-2RS1	Adjusting ball bearing 2307-2RS1
	9090025.04020		Instellend kogellager 2308-2RS	Einstellend Kugellager 2308-2RS	Adjustive ball bearing 2308-2RS
01020	8105013.00703		Lagerflens 90 ventilator	Lager Flansche 90 Ventilator	Bearing flange 90 Fan
	8105013.00779		Lagerflens 80 ventilator	Lagergehäuse Ventilator	Bearing housing fan
01021	8105014.02303		Stofring voor lager	Staubring für Lager	Dust ring for bearing
	8105014.02386		Stofring voor lager	Staubring für Lager	Dust ring for bearing
01022	9001860.08000		Segerring ø80 voor huis	Sicherungsring ø80 für Gehäuse	Retaining ring ø80 for housing
	9001860.09000		Segerring ø90 voor huis	Sicherungsring ø90 für Gehäuse	Retaining ring ø90 for housing
01023	9661051.07900		Vent. ø793 Rechts Alu Kompl+se	Ventilator ø793 Rechts Alu komplett	Fan ø793 right aluminium complete
	9661051.07901		Vent. ø793 koppeling	Kupplung Ventilator ø793	Coupling fan ø793
	9661051.07902		Vent. ø793 Deksel	Ventilator ø793 Deckel	Ventilator ø793 cover

Bij bestellingen ALTIJD de ARTIKELCODE opgeven, NIET de POSITIE!

Bei Bestellungen IMMER die BESTELNUMMER aufgeben, NICHT die POSITION!

When ordering spare parts, ALWAYS mention the PART-NUMBER, NOT the POSITION!

Mob.boomgaardspuit PE alu vent**ONDERDELENLIJST****ERSATZTEILEN LISTE****SPARE PARTS LIST**

POSITION POSITION POSITIE	PART-NUMBER BESTELNR. ARTIKELCODE	L= M	OMSCHRIJVING NEDERLANDS	BESCHREIBUNG DEUTSCH	DESCRIPTION ENGLISH
	9661051.07903		Vent. ø793 koppelingsveer	Ventilator ø793 Kupplungs Feder	Ventilator ø793 couplings spring
	9661051.07905		Vent. ø793 stofkap v lager	Ventilator ø793 Lager Stoffkappe	Ventilator ø793 dustcap for bearing
	9661051.07906		Vent. ø793 afstandsbus	Ventilator ø793 Abstandsbuchse	Ventilator ø793 distance bush
01024	8105014.90592		Trekstang-geleiding gaten 12.5	Zugstange Geleider (Löcher ø12)	Tow bar guide (holes ø12)
01025	8105013.02202		Zuigfilter bevestiging WM80	Saugfilter befestigung WM80	Suctionfilter fixation WM80
	8105013.02203		Zuigfilter bevestiging	Saugfilter befestigung	Suctionfilter fixation
	8105013.03305		Zuigfilter bevestiging 2000L	Saugfilter Befestigung 2000L	Suction filter fixation
01026	9001402.26000		Zeskantmoer M26x 1,5 ELVZ MF	Sechskantmutter M26x 1.5	Hexagon nut M26x 1.5
01027	9751051.01040		Wiel 31-13.50x15 6gts Tubeless	Rad 31-13.50x15 Tubeless / 6 Löcher	Wheel 31-13.50x15 Tubeless / 6 holes
01028	8105015.01402		Bevestiging portaalas	Befestigung Portalachse	Connection curved axle
01029	8105013.01203		Kegelbevestiging rechts	Kegel verbindung rechts	Cone connection right
	8105013.02905		Kegelbevestiging rechts	Kegelverbindung rechts	Cone connection rightside
	8105013.94306		Kegelbevestiging rechts dubbele as	Kegel befestigung rechts doppelter achse	Cone conn. right double axle
01030	8105013.01303		Kegelbevestiging links	Kegel verbindung links	Cone connection left
	8105013.04306		Kegelbevestiging links dubbele as	Kegel befestigung links doppelter achse	Cone conn. left double axle
	8105013.92905		Kegelbevestiging links	Kegelverbindung links	Cone connection leftside
01031	8105013.01500		Langssteun 1000L tank rechts	Stütze 1000L Tank rechts	Support 1000L tank right
	8105013.02603		Langssteun 1500L tank rechts	Stütze 1500L Tank rechts	Support 1500L tank right
	8105013.04206		Langssteun 1500L tank rechts dubbele as	Stütze 1500L tank rechts dobbelter achse	Support 1500L tank right double axle
01032	8105013.91500		Langssteun 1000L tank links	Stütze 1000L Tank links	Support 1000L tank left
	8105013.92603		Langssteun 1500L tank links	Stütze 1500L Tank links	Support 1500L tank left
	8105013.94206		Langssteun 1500L tank links dubbele as	Stütze 1500L tank links dobbelter achse	Support 1500L tank left double axle
01033	8105013.00503		Steunprofiel tank rechts 1500L	Stütze Tank rechts 1500 Ltr.	Support profile tank right 1500 Ltr.
	8105013.01602		Steunprofiel 1000L tank rechts	Stütze 1000 Ltr. Tank Rechts	Support profile tank right 1000 Ltr.
	8105013.03105		Steunprofiel tank rechts 2000L	Stützprofil Tank rechts 2000L	Support profile tank right
01034	8105013.00405		Sam. portaal-as 6 bouts 1.25m	Zusammenstellung Portalachse 6-Bölzen 1.25m	Comp. portal axle 6 bolts 1.25m
	8105013.03505		Portaalas 2000L	Portalachse 2000L	Portal axle
	8105013.90202		Portaalas 6 bouten	Portalachse mit 6 Boltzen M18x1.5	Curved axle with 6 bolts M18x1.5
01035	9090505.03500		Kegellager 30207	Kegellager 30207	Cone bearing 30207
	9090505.04000		Kegellager 30208	Kegellager 30208	Cone bearing 30208
01036	9751058.01041		Stofring wielnaaf (55x100x3,0)	Flache Packung (55x100x3.0) Nabe	Flat gasket (55x100x3.0) for hub
	9751059.01023		Stofring wielnaaf (50x90x3,0)	Flache Packung (50x90x3.0) Nabe	Flat gasket (50x90x3.0) for hub
01037	9090505.05000		Kegellager 30210	Kegellager 30210	Cone bearing 30210
	9090505.05500		Kegellager 30211	Kegellager 30211	Cone bearing 30211
01038	9001440.30000		Kroonmoer M30x1.5 laag	Kronenmutter M30x1.5	Hexagon castle nut M30x1.5 low

Bij bestellingen **ALTIJD** de **ARTIKELCODE** opgeven, **NIET** de **POSITIE**!Bei Bestellungen **IMMER** die **BESTELNUMMER** aufgeben, **NICHT** die **POSITION**!When ordering spare parts, **ALWAYS** mention the **PART-NUMBER**, **NOT** the **POSITION**!

Mob.boomgaardspuit PE alu vent**ONDERDELENLIJST****ERSATZTEILEN LISTE****SPARE PARTS LIST**

POSITION POSITION POSITIE	PART-NUMBER BESTELNR. ARTIKELCODE	L= M	OMSCHRIJVING NEDERLANDS	BESCHREIBUNG DEUTSCH	DESCRIPTION ENGLISH
01039	9000620.18000		Wielbout M18x1.5x50 Staal	Radbolzen M18x1.5x55	Wheel bolt M18x1.5x55
01040	9001452.18000		Wielmoer M18x 1.5 ELVZ	Rad Mutter M18x 1.5 Verzinkt	Wheel nut M18x 1.5 Zinc plated
01041	9751059.01022		Wieldop ø72 mm.	Radkappe diam. ø72 mm	Wheel cap diam. ø72 mm
01042	8105015.05279		Onderleg strip	Befestigungsplatte	Connection strip
01043	9001850.03501		Seegering voor as 35 x 2.5	Sicherungsring für welle 35 x 2.5	Retaining ring for shaft 35 x 2.5
01044	8105014.03400		Afschermplaat pouly roeras	Abschirmung Keilriemscheibe Ruderachse	Protection cover pulley stirring shaft
01045	9001512.12002		Carosseriering M12 ø46x6	Ring M12 ø46x6	Mudwing repair washers M12 ø46x6
01046	8105013.00103		Tanksteun	Tankstütze	Tank support
01047	8105013.00385		Voetstuk pomp WM70 achter	Fußstück für Pumpe WM70	Foot plate for pump WM70
01048	8105013.90385		Voetstuk pomp WM70 voor	Fußstück für Pumpe WM70	Foot plate for pump WM70
01049	8105015.02802		Afscherming trekstang bmgsp.	Schirm rohre Ziehstange Obst Sprühgerät	Cover pipe pulbar
01050	8105015.02503		Afschermplaat tandw.kast bmgsp	Schirmplatte Zahnradkasten	Protection shield gearbox orchard spr.
01051	8105013.00897		Voetstuk pomp CP-104 voor	Fußstück für Pumpe CP-104 vorne	Front foot plate for pump CP-104
01052	8105013.00997		Voetstuk pomp CP-104 achter	Fußstück für Pumpe CP-104 (hinten)	Foot plate for Pump CP-104 (back)
01053	8105013.01096		Uitgaande as pomp CP-103 + 104	Getriebene Achse Pumpe CP-104	Shaft for pump CP-104
01054	8105013.01700		Steunprofiel 1000L tank links	Stütze 1000L Tank links	Support profile 1000L tank left
	8105013.02003		Steunprofiel tank links 1500L	Stütze Tank Links 1500 Ltr.	Support profile 1500L tank left
	8105013.03205		Steunprofiel tank links 2000L	Stützprofil Tank links 2000L	Support profile tank left
01055	9003000.10060		Inlegspie 10x 8x60 vlak	Spie 10x 8x60	Square parallel key 10x 8x60
01056	8105014.91102		Spatlap bevestiging links	Kotflügel befestigung links	Fender connection left
	8105014.94805		Spatlap bev. 2000L links	Schmutzfänger Befestigung 2000L links	Fender connection left
01057	8105013.02402		Spatscherm boomgaardspuit	Kotflügel Obstbau Sprühmaschine	Fender orchard-sprayer
	8105013.03905		Spatscherm 2000L boomgaardsp.	Kotflügel 2000L Obstbausprüngerät	Mudguard
01058	8105014.01102		Spatlap bevestiging rechts	Kotflügel befestigung rechts	Fender connection right
	8105014.04805		Spatlap bev. 2000L rechts	Schmutzfänger Befestigung 2000L rechts	Fender connection right
01059	8105014.00103		Kegelbevestiging boven	Kegel verbindung oben	Cone connection upper
	8105014.01506		Kegelbevestiging 1500L dubbele as	Kegel befestigung 1500L doppelter achse	Cone conn. 1500L double shaft
01060	8105013.03005		Bevestigings-steun 2000L	Befestigungsstütze 2000L	Connection support
	8105014.03902		Bevestigings-steun	Befestigungs-Stütze	Connection support
01061	8105014.02802		Peilslanghouder 1000L	Halter Wasserstandszeiger 1000L	Gauge - hose holder 1000L
	8105014.04103		Peilslanghouder 1500L	Halter Wasserstandszeiger 1500L	Gauge - hose holder 1500L
	8105014.04704		Peilslanghouder 2000L	Niveauschlauch Behälter 2000 Ltr.	Levelhose holder 2000 Ltr.
01062	8105015.03103		Afscherming aftakas achter	Schirm Gelenkwelle hinten	Cover rear axle
01063	8105015.01702		Trekpen lang tankbevestiging	Zugstab lang	Tension member long
	8105015.01802		Trekpen kort tankbevest. 1000L	Zugstab kurz 1000 L	Tension member short 1000L

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Mob.boomgaardspuit PE alu vent**ONDERDELENLIJST****ERSATZTEILEN LISTE****SPARE PARTS LIST**

POSITION POSITION POSITIE	PART-NUMBER BESTELNR. ARTIKELCODE	L= M	OMSCHRIJVING NEDERLANDS	BESCHREIBUNG DEUTSCH	DESCRIPTION ENGLISH
01064	9780304.00503		Sticker tank niveaumtr 1500l	Tank nivo markierung 1500l	Sticker tank level 1500l
	9780304.00602		Sticker tank niveaumtr 1000l	Tank nivo markierung 1000l	Sticker tank level 1000l
	9780304.00705		Sticker tank niveaumtr 2000L	Sticker Tank Niveaumesser 2000 Ltr.	Sticker tank level meter 2000 Ltr.
01065	8105015.01202		Tapse opvulring doordrukking	Zapfen fullring male	Conical fill up ring male
01066	8105015.01302		Tapse opvuldop doordrukking	Zapfen fullring female	Conical fill up ring femail
01067	8105015.90403		Spuutkrans bevestiging links	Spritzleitung verbindung	Spray pipe connector
01068	8105015.00403		Spuutkrans bevestiging rechts	Spritzleitung verbindung	Spray pipe connector
01069	8105015.01002		Verbinding-stang boomg.spuut	Verbindungsstange Obstbau-Sprühgerath	Connecting rod orchard sprayer
01070	8105015.01602		Slangbevestiging	Schlauchbefestigung	Hose connection
	8105015.03805		Slangbevestiging 2000L	Slauchbefestigung 2000L	Hose connection
01071	9003100.07014		Paspen ø7x14 cilindr. st.(LRB)	Gehärte Zylinderstift ø7x14	Hardened dowel pin ø7x14
01072	8105015.01702		Trekpen lang tankbevestiging	Zugstab lang	Tension member long
01073	8105014.91703		Hoekprofiel 1000+1500L links	Eckprofil Befestigung 1000+1500L links	Angle profile fixation 1000+1500L left
	8105014.95306		Hoekprofiel 2000L links	Eckprofil Befestigung 2000L links	Angle profile fixation 2000L left
01074	8105014.01703		Hoekprofiel 1000+1500L rechts	Eckprofil Befestigung 1000+1500L rechts	Angle profile fixation 1000+1500L right
	8105014.05306		Hoekprofiel 2000L rechts	Eckprofil Befestigung 2000L rechts	Angle profile fixation 2000L right
01075	9001512.26000		Carosseriering M26 ø40x5	Ring M26 ø40x5	Mudwing repair washers M26 ø40x5
01076	8105014.04503		Test-setje spuitdophouder	Test-Satz Halter Sprühhulse	Testset holder nozzle
01101	8115015.00894		Scharnieras	Gelenkstift	Hinge pin
01102	9092015.03000		Glijlager met borst ø30/38x30 (Brons)	Gleitlager mit Kragen 30/38x30	Plain bearing + breast 30/38x30
01103	9002802.06000		Vetnippel M 6 recht	Fetnippel M6 grade	Grease nipple M6 straight
01104	8105014.02604		Trekstang spoorvolgend	Zugstange Spurteue	Towing bar tracking system
01105	8105013.04004		Trekdisel boomgaardspuit spoorv.	Deichsel	Tracking shaft Orchard sprayer
01106	9003302.03001		Werktuigpen dubbel driepunthef	Stift für Drei-punkt-Hebe Anlage	Lift pinion for three-point-linkage
01107	8105015.05305		Vulring glijlager (Brons)	Füllringe	Filling washer
01108	8105014.02907		Trekstang spoorv. 2000L	Zugstange spur. 2000L	Towbar tracking 2000L
01109	9001802.06000		Stelring met stelschr.60.5x90x70	Stellring mit stellchr. 60.5X90X70	Adj. ring with screw 60.5X90X70
01110	8105014.05407		Trekstang-geleiding 2000L	Zigstange fuhrung 2000L	Towbar guiding 2000L

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Mob.boomgaardspuit PE alu vent**ONDERDELENLIJST****ERSATZTEILEN LISTE****SPARE PARTS LIST**

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02001	8105021.00203		Tank boomgaardspuit 1500 L PE	Tank Obstbauspriihgerat 1500 Ltr. PE	Tank orchard sprayer 1500 litre PE
	8105021.00301		Tank boomgaardspuit 1000 L PE	Tank Obstbauspriihgerat 1000 L PE	Tank orchard sprayer 1000 litre PE
	8105021.00496		Tank boomgaardspuit 2000 Ltr	Tank Obstbauspriihgerat 2000 Liter.	Tank orchard sprayer 2000 litre.
02002	9002002.10100	0,19	Draadstang M10x1Mtr ELVZ 8.8	Gewindestange M10x1Mtr Stahlverz.	Threadedrod M10x1Mtr steelzincpl.
	9002002.10100	0,29	Draadstang M10x1Mtr ELVZ 8.8	Gewindestange M10x1Mtr Stahlverz.	Threadedrod M10x1Mtr steelzincpl.
	9360105.10101		Tank 120L geel boomgsp. 1500L	Tank 120L gelb Obstb.sp.gerat 1000-1500L	Tank 120L yellow PE orchard sprayer
02003	9360105.10102		Tank 15L wit PE 1500L boomgsp.	Tank 15L weiss PE 1000-1500L Ob.sp.gerat	Tank 15L white 1000-1500L orchardsprayer
	9360105.20002		Tank 17L Wit 2000L boomgspuit	Tank 17L weiss PE 2000L Obstbauspriihgerat	Tank 17L white PE 2000L orch.sprayer
02004	8105025.04592		Spanas voor nylon rol	Spannachse für nylon Rolle	Tightening pinion for nylon roller
	9001042.10000		Nyloc zelfborgendemoer M10 ELV	Nyloc Selbstsichernde Mutter M10	Nyloc Locknut M10 Zinc plated
	9001502.10000		Vlakke sluitring M10 ELVZ	Ring M10	Flat washer M10 ELVZ
	9001850.02000		Segerring voor as ø20	Sicherungsring für welle 20	Retaining ring for shaft 20
02005	8948015.00495		Pouly 1 SPZ 61 as ø35	Keilscheibe 1 SPZ 61 Achse ø35	Pulley 1 SPZ 61 Shaft ø35
02006	9090005.03520		Kogellager 6007-2RS1	Kugellager 6007-LLU	Ball bearing 6007-LLU
02007	8105014.00392		Hefboom kettingspanner	Hebelarm kettenspanner	Lever clamp stretcher
02008	9630110.01400		Trekveer 73x12,5x1,50 RVS	Feder ø14x1.5 L76 RFS	Coil spring ø14x1.5 L76 StS
02009	9489010.09250		V-snaar SPZ- 925-05	Keilriem SPZ-925-05	V-belt SPZ-925-05
02010	8948014.02397		Pouly 1 SPZ 200 as ø30	Keilscheibe 1 SPZ 200 Achse ø30	Pulley 1 SPZ 200 Shaft ø30
02011	8105029.10295		V-snaar-spanner Kompl.	Keilriemen spanner Komplet	V-belt stretcher Complete
02012	9090005.02020		Kogellager 6004-2RS1	Kugellager 6004-LLU	Ball bearing 6004-LLU
02013	8105025.04495		Nylon spanrol v-snaar	Nylon Spannrolle Keilriemen	Nylon tightening roller v-belt
	9001860.04200		Segerring ø42 voor huis	Sicherungsring ø42 für Gehäuse	Retaining ring ø42 for housing
02014	9570005.00140		Aftakas kompl. BGD spuit 1160 lang	Gelenkwelle 1000L Obstbau Sprühger. 1160	PTO Shaft 1000L orchardsprayer 1160
	9570005.00150		Aftakas kompl. BGD spuit 1500 lang	Gelenkwelle komplette Obstbauspriihgerat 1500L	PTO shaft Orchard sprayer 1500 ltr.
02015	9780204.00192		Sticker Munckhof groot 305x130	Sticker Munckhof large 305x130	Munckhof sticker large 305x130
02016	9454011.00601		Rechte inschroefkopp. ø6 x M6	Gerade Verschraubung rund 6 x M6	Male stud coupling diam. 6 x M6
02017	8105024.03382		Pakkingdrukker 3/4	Brille für 3/4" Rohr	Gland 3/4" tube
	8105024.03382	0,55	Pakkingdrukker 3/4	Brille für 3/4" Rohr	Gland 3/4" tube
02018	8105025.00101		Roeras 1450mm 1000L tank	Ruderachse 1450mm 1000L Tank	Stirring shaft 1450mm 1000L tank
	8105025.01003		Roeras 1700mm 1500L tank	Ruderachse 1700mm 1500 Ltr. Tank	Stirring shaft 1700 mm 1500 Ltr. tank
	8105025.01305	0,55	Roeras 1850mm 2000L tank	Ruderachse 1850mm (2000L)	Stirring shaft 1850mm
02019	9421000.00950	0,55	Pakking vierkant 10 mm	Packung TBA-20 Quadratisch 9.5 mm	Gasket TBA-20 Supeta square 9.5 mm
02020	9000076.10050		Stelschroef M10x 50 BZK - RVS	Einstelschraube M10x 50 Rostfrei	Socket set screw M10x 50 Stainless
02021	8105024.03282		Pakkingbus 3/4	Stopfbuchse	Stuffing box
02022	8105023.01106		RVS roerschroef boomgaardspuit rechts	Rostfrei Stahl Propeller	Stainless steel propeller

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	8105023.91106		RVS roerschroef boomgaardspuit links	Rostfrei Stahl Propeller	Stainless steel propeller
02023	9004006.22030		Slangschr.klem RVS 22-30mm	Schlauchklemme Klemfa 22-30mm RVS	Hose clip Klemfa 22-30mm RVS
02024	8105025.02702		Kunststoflagerblok roeras	Lagerblock (kunststoff) für Ruderachse	Synthetic bearing block stirring shaft
02025	9001802.02720		Stelring RVS stelschr.27.2x45x16	Stellringe mit Schraube 27.2x45x16	Adjusting ring with screw 27.2x45x16
02026	8105025.00402		Lagerblok bevestig. 1000/1500L	Lager-Block befestigung	Bearing block fixation
02027	8105025.04694		Luchtgeleidingsplaat	Luft geleitungsplatte	Air guiding plate
02028	8105024.00104		Lucht-afschermset onder	Luftschutz Satz u.	Air protection set below
02029	8105024.02901		Anti-bladzuigpl.ventilatorhuis	Schützplatte Ventilator	Protection for fan
	8105025.00902		Bladzuigplaat bevestiging 110°	Befestigung 110° Schütplatte Ventilator	Connection 110° for fan protection
	8105025.90902		Bladzuigplaat bevestiging 150°	Befestigung 145° Schütplatte Ventilator	Connection 145° for fan protection
02030	8105024.00394		Rooster voor vent. ø800	Gitter für Ventilator ø800	Grating for fan ø800
02031	8105023.00302		Vent.huis, vent.ø800 type 2002	Ventilatorgehäuse, Ventilator ø800	Fan housing. fan ø800
02032	8105023.00594		Luchtgeleiding set hop aanplant	Hopf Luftleitungskappen	Hop air guide set
02033	8105024.02504		Geleidingsplaat groot model	Leitplatte grosse Ausführung	Large guiding plate
02034	8105024.02604		Stelplaat	Verstellplatte	Adjust plate
	8105025.02204		Verbindingsplaatje	Verbindungsplättchen	Connection plate
02035	8105023.00190		Beschermrooster	Schützgitter	Protection grate
02036	8105023.00679		Luchtgel. kegel met blaasmond	Großer offener Kegel	Large open cone
02037	9369000.40904		Filterkorf 18 mesh D=400 L=330	Korbfilter 18 mesh D=400 L=330	Basketfilter 18 mesh D=400 L=330
02038	9369000.40931		Dichtingsring deksel boomg.sp.	Dichtung für deckel Obstsprühmaschinen	Seal for cover Orchardprayer
02039	9369000.40930		Deksel bmgsp. klapb. 600-1500L	Deckel obstsprühspr. klappbahre	Cover Orchardsprayer cantilever
02040	8105025.01502		Borgplaatje witte tank 15L	Sicherung weiße Tank 15L	Locking plate white 15L tank
02041	9360105.10104		Tankdop 120L tank with valve	Verschlusskappe 130L tank	Lid 130L tank
	9360105.10105		Tankdop 120L tank + ontlucht.	Tankverschluss 120L tank + Entlüfter	Tank cap 120L tank + ventilation
02042	9420600.09700		Vlakke pakkingring (97x115x10)	Flache Packung (97x115x10)	Flat gasket (97x115x10)
02043	8105025.01802		Borgplaatje Peilslang tank	Sicherung für Schlaug pegelhöhe	Locking plate level hose tank
02044	9000002.08012		Tapbout M 8 x 12 ELVZ	Sechskant Bolze M8 x 12 Verzinkt	Hexagon screw M8 x 12 Zinc plated
02045	9360105.10103		Tankdop 15L tank without valve	Verschlusskappe 15L tank	Lid 15L tank
02046	9420600.05600		Vlakke pakkingring (56x80x2)	Flache Packung (56x80x2.0)	Flat gasket (56x80x2.0)
02047	9780304.00192		Sticker spuitdoppen ATR Munckh	Sticker ATR Spritzdüsen	Sticker spray nozzles ATR Munckhof
02048	9038028.12800		Bev. moer 1-½'	Befestigungsmutter 1-1/2'	Back nut 1-1/2'
02049	9002518.08000		Kogelknop bakkeliet M8	Kugelknopf Bakkelit M8	Plastic ball knob M8
	9002518.08000	0,35	Kogelknop bakkeliet M8	Kugelknopf Bakkelit M8	Plastic ball knob M8
02050	8105025.03904		Klemblok luchtafscherming rechts	Spanneisen Luft-schütz	Clamp block air protection
	8105025.03904	0,35	Klemblok luchtafscherming rechts	Spanneisen Luft-schütz	Clamp block air protection

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02051	9392099.00600	0,35	Perssling Nylon ø6 x 3 mm	Druckschlauch rund 6 x 3 mm	Pressure hose diam. 6 x 3 mm
02052	9002802.06000		Vetnippel M 6 recht	Fetnippel M6 grade	Grease nipple M6 straight
	9454015.00600		Schottenkoppeling ø6 x M12	Treibschieberkupplung ø6 x M12	Coupling diam. ø6 x M12
02053	9001512.50000		Carosseriering M50 ø80x3	Ring M50 ø80x3	Mudwing repair washers M50 ø80x3
02054	8105025.03804		Aansluitset schoonwatertank	Nippelanschluss Sauberwasserbehälter	Attachment cleanwatertank
	9331220.00100		Kogelkraan 3/8'2 weg T handel	Zweiweg Kugelhahn 3/8' T Handel	Two-way Ball valve 3/8' T handle
02055	9759000.01021		Houder v. wielkeg kunststof	Halter für radblockierung kunststoff	Holder for wheel-lock plastic
02056	9759000.01020		Wielkeg kunststof	Bremskeil aus Kunststoff	brake block plastic
02057	9420600.10500		Vlakke pakkingring (61x105x4) 4gts	Flache Packung (61x105x4)	Flat gasket (61x105x4)
02058	8105025.04104		Afstandbus voor beugel vlotter	Füllbüchse	Filling bush
	9000016.08110		Zeskantbout M 8 x110 RVS	Zechskant-Bolze M8 x 110 RVS	Hexagon head bolt M 8x110 stainless steel
02101	9372799.00200		Zuigfilter 50 mesh 1½' opendek	Saugfilter 50 mesh 1½' Komplet	Suctionfilter 50 mesh 1½' complete
02102	9372799.01002		Filterhuis buitendr. 1-1/2'	Gehäuse Ausengew. 1-1/2'	Filter body malethr.1-1/2'
02103	9372799.01001		Zuigfilter 170 blauw 50 mesh	Saugfilter Blau 50 mesh	Suctionfilter Blue 50mesh
02104	9372798.01001		Deksel zuigfilter 1-1/2' + gat	Deckel für Saugfilter 1-1/2'	Bowl for suction filter 1-1/2'
02105	9372799.01004		Wartel 1½' zuigfilter 32-50mm	Mutter für 1½' Saugfilter 32-50 mesh	Swivel for 1½' Suction filter 32-50mesh
02106	9420000.09460		O-ring 94,62x5,33 EPDM 70	O-ringe 94.62 x 5.33	O-ring 94.62 x 5.33
02107	9038033.03500		Rechte pilaar D35 v moer 1-1/2	Geraderanschl.D35 für Mutter 1-1/2'	Hosetail D35 for fly nut 1-1/2'
	9038033.04000		Rechte pilaar D40 v moer 1-1/2	Geraderanschl.D40 für Mutter 1-1/2'	Hosetail D40 for fly nut 1-1/2'
	9420000.03300		O-ring 33,00x2,62 EPDM 70	O-ringe 33.00 x 2.62	O-ring 33.00 x 2.62
02108	9038037.02502		Knie D25 voor slang25 wartel 1-1/2	Knie D25 f.Schlauch25 Überwurfmutter.1-1/2	Knee hosetail for hose 25 swivel 1-1/2
02109	9391000.03500	0,22	Zuigslang SE grijs ø35x43.4	Saugeschlauch SE grau inw ø35	Suction hose SE grey inw.ø35
	9391000.03500	0,55	Zuigslang SE grijs ø35x43.4	Saugeschlauch SE grau inw ø35	Suction hose SE grey inw.ø35
	9391000.04000	0,31	Zuigslang SE grijs ø40x48.8	Saugeschlauch 40x47 1-9/16' SE grau/Mtr	Suction hose 40x47 1-9/16' SE grey/mtr
	9391000.04000	1,05	Zuigslang SE grijs ø40x48.8	Saugeschlauch 40x47 1-9/16' SE grau/Mtr	Suction hose 40x47 1-9/16' SE grey/mtr
02110	8105024.03605		Sam. afschermstang 1000L	Zusammenges. Abschirmstange 1000 L	assembl. protecting bar 1000 L
	8105024.03705		Sam. afschermstang 1500L	Zusammenges. Abschirmstange 1500 L	assembl. protecting bar 1500 L
02113	9391000.04000	0,31	Zuigslang SE grijs ø40x48.8	Saugeschlauch 40x47 1-9/16' SE grau/Mtr	Suction hose 40x47 1-9/16' SE grey/mtr
02114	9332870.00100		Kogelkraan 1½'kunst.3weg L-prt	Dreiwege Kugelventile 1½'	3-way L-port ball valve 1½'
02115	9420000.04720		O-ring 47,20x3,50 NBR 70	O-ringe 47,20 x 3,50	O-ring 47,20 x 3,50
02116	9038002.12800		Nippel 1-1/2' L1=20mm L2=20mm	Nippel 1-1/2' L1=20mm L2=20mm	Nipple 1-1/2' L1=20mm L2=20mm
02117	9390000.03500	0,19	Watersl 1½' Trico geel 35x45	Wasserschlauch 1½' Trico gelb 35x45	Water hose 1½' Trico yellow 35x45
	9391000.03500	0,22	Zuigslang SE grijs ø35x43.4	Saugeschlauch SE grau inw ø35	Suction hose SE grey inw.ø35
02118	9038037.03500		Knie D35 voor moer 1-1/2'mbr.p	Knie für Mutter 1-1/4' Schlaug=35	Knee Hosetail for fly nut 1-1/4' 35
	9038037.03501		Knie D35 voor moer 1-1/2' bew.	Knie D35 für Mutter 1-1/2' bearb.	elbow D35 for nut 1-1/2' machined

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	9038038.03500		Bocht 45° D35 voor moer 1-1/2'	Bogen 45° D35	Elbow 45° D35 for nut 1-1/2'
02119	9420600.03300		Vlakke pakkingring (33x45x3,0)	Flache Packung (33x45x3.0) 1'	Flat gasket (33x45x3.0) 1'
02120	8105024.00808		Bevestiging kranenblok	BEFESTIGUNG VENTIL SET	VALVE SET CONNECTION
02121	8105025.00502		Steunprofiel	Stützprofil	Support profile
02122	9004032.08036		Beugelklem M8 x 36mm.	Bügelklemme M8 x 36mm.	Shackle M8 x 36mm.
02123	9034004.04800		Haakse koppeling 1/2' bi/bu me	Knie-Kupplung 1/2' in/aus Messing	Knee coupling 1/2' in/out Brass
02124	9271010.00100		Mano. 0-25 Bar ø100mm. ½' ond	Manometer 0- 25 Bar ø100mm. ½'Unten	Manometer 0- 25 Bar ø100mm. ½'below
	9272010.00100		Mano. 0-60 Bar ø100mm. ½' ond	Manometer 0- 60 Bar ø100mm. ½'Unten	Manometer 0- 60 Bar ø100mm. ½'below
02125	9004058.00800		Pijpklembeugel 2 delig ø 8mm	Schelle mit Rohrzoll ø8mm	Connection blocks pipe f 8mm
	9004072.00600		Dekplaat voor beugel 6-12mm	Deckplatte für Rohrzoll 6-12mm	Cover plate for pipe 6-12mm
02126	8105024.00501		Filterverdeelblok	Verteilblock für Filter	Deviding block for filter
02127	9034000.04800		Dubbele nippel 1/2' messing	Doppelter Nippel 1/2' Messing	Double nipple 1/2' brass
02128	9034004.04801		Rechte koppeling 1/2' bi/bu me	Kupplung 1/2' in/aus Messing	Coupling 1/2' in/out Brass
02129	9331230.00100		Kogelkraan 1/2' 2 weg type 081 bi/bu	Zweiweg Kugelhahn 1/2'	Two-way Ball valve 1/2'
02130	9420604.01300		Pakkingring Nylon13x19x2,0)1/2	Packung nylon (13x19x2.0) 1/2'	Nylon gasket (13x19x2.0) 1/2'
02131	9034000.06800		Dubbele nippel 3/4' messing	Doppelter Nippel 3/4' Messing	Double nipple 3/4' brass
02132	9032031.06800		Knie 3/4' bi/bu verzinkt	Knie 3/4' in/aus verzinkt	Knee 3/4' in/out zinked
02133	9034004.06800		Haakse koppeling 3/4' bi/bu me	Knie-Kupplung 3/4' in/aus Messing	Knee coupling 3/4' in/out Brass
02134	9032065.06800		Zeskantige sluitmoer 3/4' mess	Schließmutter 3/4' verzinkt	Flat hexagon nut 3/4' zinked
02135	9034000.04800		Dubbele nippel 1/2' messing	Doppelter Nippel 1/2' Messing	Double nipple 1/2' brass
02136	9034020.02003		Koppelingset G0.5-0.75 Messing	Kupplungsatz G0.5-0.75 Messing	Coupling set f0.5-0.75 brass
02137	9034020.02002		Knелverloop 3/4'-1/2'	Quetsch-Kupplung 3/4'-1/2'	squeeze coupling 3/4'- 1/2'
02138	9032065.04800		Zeskantige sluitmoer 1/2' mess	Schließmutter 1/2' verzinkt	Flat hexagon nut 1/2' zinked
02139	9375499.00100		Persfilter 3/4'-1/2'-1/2' komp new	Druckfilter 3/4'-1/2'-1/2' Komplet	Pressurefilter 3/4'-2x1/2' complete
02140	9032067.02800		Stop met rand 1/4' verzinkt	Stopf mit Rand 1/4' verzinkt	Stop with edge 1/4' zinked
02141	9034020.04010		Stop 1/2' met binnenzesk. mess	Stopf 1/2' messing	Socket stop 1/2' brass
02142	9391000.02000	0,45	Zuigslang SE grijs 3/4' ø20x27	Saugeschlauch 20x27 6/8' SE grau/Mtr	Suction hose 20x27 6/8' SE grey/mtr
02143	9004002.17025		Slangschr.klem 17-25mm 5/8'	Schlaugklemme 17-25mm (5/8')	Hose clip 17-25mm (5/8')
02144	9038030.01900		Rechtepilaar binnendr.½'D19	Gerader anschl.innengew. 1/2' 19	Hosetail female thread 1/2' 19
02145	9038002.04800		Nippel 1/2' L1=38mm L2=18mm	Nippel 1/2' L1=38mm L2=18mm	Nipple 1/2' L1=38mm L2=18mm
02146	9391000.02501	0,25	Zuigslang SE grijs ø25x32,4	Saugeschlauch 25x30.8 1' SE grau/Mtr	Suction hose 25x30.8 1' SE grey/mtr
02147	9038031.02500		Rechtepilaar buitendr.3/4' 25	Gerader anschl.Aussengew. 3/4' 25	Hosetail male thread 3/4' 25
02148	9392000.01903	0,45	Perssl. 3/4' 80 BAR D.blauw	Druckschlauch 3/4' 80BAR Blau 19x29/Mtr	Pressure hose 3/4' 80BAR blue 19x29/mtr
02149	9004002.22030		Slangschr.klem 22-30mm 3/4'	Schlaugklemme 22-30mm (3/4')	Hose clip 22-30mm (3/4')
02150	9034014.06800		Zeskant wartel 3/4' messing	Sechskant Überwurfmutter 3/4' Ms	Hexagonal swivel 3/4' brass

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Mob.boomgaardspuit PE alu vent**ONDERDELENLIJST****ERSATZTEILEN LISTE****SPARE PARTS LIST**

POSITION POSITION POSITIE	PART-NUMBER BESTELNR. ARTIKELCODE	L= M	OMSCHRIJVING NEDERLANDS	BESCHREIBUNG DEUTSCH	DESCRIPTION ENGLISH
02151	9034013.01900		Hoge dr.pilaar 3/4'x3/4' messi	Schlauch-Pfeiler 3/4'x3/4' Messing	Hose pillar 3/4'x3/4' brass
02152	9420604.01800		Pakkingring Leer(18x24x3,0)3/4	Packung leder (18x24x3.0) 3/4'	Leather gasket (18x24x3.0) 3/4'
02153	9034022.00301		Knel Knieverl.ø22 x 15 mm	Quetsch Knie-Kupp.ø22 x 15 mm Rohre Komp	Squeeze Elbow-coupl.ø22x15mm pipe compl.
	9034022.00601		Knel hoek T-stuk 15x22x15 90°	Quetsch Verlauf T-stück Rohr d 15x22x15	Squeeze Reducing T-piece pipe d 15x22x15
	9038008.10800		Bocht 90° binnen/buiten 1-¼'	90° Bogen Innen/Aussen 1-1/4'	90° elbow male/female 1-1/4'
02154	9331860.00100		Kogelkraan 1¼' Inw. met 2gaten	Kugelventile 1¼'In. Mit 2 Löcher M8	Ball valve 1¼' female + 2 holes M8
	9420000.03960		O-ring 39,69x3,53 1-¼' NBR 70	O-ringe 39.60 x 3.50 1-1/4'	O-ring 39.60 x 3.50 1-1/4'
02155	9420000.02900		O-ring 29,00x3,00 1-½' NBR 70	O-ringe 29.00 x 3.00 1-1/2'	O-ring 29.00 x 3.00 1-1/2'
02156	9038038.03500		Bocht 45° D35 voor moer 1-1/2'	Bogen 45° D35	Elbow 45° D35 for nut 1-1/2'
02157	9004002.30040		Slangschr.klem 30-40mm	Schlaugklemme 30-40mm	Hose clip 30-40mm
	9331230.00110		Kogelkraan 1/2' 2 weg T hand	Zweiweg Kugelhahn 1/2' T-Handel	Two-way Ball valve 1/2' T handle
02158	9391000.03203	0,65	Zuigslang SE grijs ø32x38	Saugeschlauch SE grau inw ø32	Suction hose SE grey inw.ø32
02159	9038029.12800		Wartel moer 1-½'	Überwurfmutter 1-1/2'	Fly nut 1-1/2'
02160	9038003.10800		Verloop nippel 1-1/4' - 1-1/2'	Reduzierstück 1-1/4' - 1-1/2' Ausg	Reducing nipple 1-1/4' 1-1/2' out
02161	9038037.04000		Knie D40 voor moer 1-1/2'	Knie für Mutter 1-1/2' Schlaug=40	Knee Hosetail for fly nut 1-1/2' 40
02162	9004002.35050		Slangschr.klem 35-50mm 1-1/4'	Schlaugklemme 35-50mm (1-1/4')	Hose clip 35-50mm (1-1/4')
02163	8105023.00804		Sam. niveau-meter 1000L	zusammengesetztes Niveau-Messgerät	Assembly Gauge
02164	8105025.04204		Messing verlengstuk vlotter	Messing Längerungstück schwimmer	Brass Lenghtening piece float
	9000016.08070		Zeskantbout M 8 x 70 RVS	Zechskant-Bolze M8 x 70 RVS	Hexagon head bolt M 8x70 stainless steel
	9001006.08000		Zeskantmoer M8 rvs	Sechskantmuttern M8 Rostfreistahl	Hexagon nut M8 stainless steel
	9001506.08000		Vlakke sluitring M 8 RVS A2	Ring M8 Rostfrei A2	Flat washer M8 st.steel A2
02165	8105024.02304		Sam. Vlotter 1500L	Schwimmer zusammengesetzt 1500L	Float 1500L tank
	8105024.03404		Sam. Vlotter 1000L	Schwimmer 1000L zusammengesetzt	Float 1000L tank
02166	9390000.01202	1,10	Watersl 1/2' Siliconen 12-17	Wasserschlauch 1/2' 12-17 Silicon	Water hose 1/2' 12-17 silicone
	9390000.01202	1,20	Watersl 1/2' Siliconen 12-17	Wasserschlauch 1/2' 12-17 Silicon	Water hose 1/2' 12-17 silicone
02167	9038036.00600		Knie buitendr.1/4 slang D=6	Knie Aussengewinde 1/4' Schlaug= 6	Kneehosetail malethread 1/4'hose= 6
02168	9390000.00600	1,05	Watersl siliconen 6-9	Wasserschlauch 1/2' 6-9 Silicon	Water hose 1/2' 6-9 silicone
	9390000.00600	1,15	Watersl siliconen 6-9	Wasserschlauch 1/2' 6-9 Silicon	Water hose 1/2' 6-9 silicone
02169	8105025.05004	0,08	Sam. tankkoppeling peilglas	Tankkupplung Wasserstandszeiger	Coupling Guage
02170	9390000.01200	0,08	Watersl 1/2' doorz 12x17	Wasserschlauch 1/2' durchs. 12x16/Mtr	Water hose 1/2' Cristal clear 12x16/Mtr
02171	9038055.01200		T-stuk nylon 12mm	T-Stck Nylon 12 mm	T-piece nylon 12 mm
02172	9390000.01200	2,75	Watersl 1/2' doorz 12x17	Wasserschlauch 1/2' durchs. 12x16/Mtr	Water hose 1/2' Cristal clear 12x16/Mtr
	9390000.01200	2,85	Watersl 1/2' doorz 12x17	Wasserschlauch 1/2' durchs. 12x16/Mtr	Water hose 1/2' Cristal clear 12x16/Mtr
02173	9390000.01200	1,60	Watersl 1/2' doorz 12x17	Wasserschlauch 1/2' durchs. 12x16/Mtr	Water hose 1/2' Cristal clear 12x16/Mtr
	9390000.01200	1,85	Watersl 1/2' doorz 12x17	Wasserschlauch 1/2' durchs. 12x16/Mtr	Water hose 1/2' Cristal clear 12x16/Mtr

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02174	8105024.02004		Tankreiniger boomgaardspuit	Tankreiniger	Tank cleaner
02175	9399200.01050		Slang 80 Bar assem. 1/2' 1.05M	Schlauch 80 Bar ½' Komplet 1.05 M	Hose 80 Bar assembly ½' 1.05 M
02176	9038028.04800		Bev. moer 1/2'	Befestigungsmutter 1/2'	Back nut 1/2'
02177	9420600.02100		Vlakke pakkingring (21x33x2,0)	Flache Packung (21x33x2.0) 1/2'	Flat gasket (21x33x2.0) 1/2'
02178	8105025.04304	3,40	Ontluchtingspilaar vlotter	Entlüftungsanschluss Schwimmer	Breather cap float
02179	9392000.01201	3,40	Perssl. 1/2' 80 BAR Altipl.12	Druckschlauch 1/2' 80 BAR 12x20.5/Mtr	Pressure hose 1/2' 80 BAR 12x20.5/mtr
	9392000.01201	3,65	Perssl. 1/2' 80 BAR Altipl.12	Druckschlauch 1/2' 80 BAR 12x20.5/Mtr	Pressure hose 1/2' 80 BAR 12x20.5/mtr
	9392000.01201	4,00	Perssl. 1/2' 80 BAR Altipl.12	Druckschlauch 1/2' 80 BAR 12x20.5/Mtr	Pressure hose 1/2' 80 BAR 12x20.5/mtr
02180	9038051.00601		Slang pilaar ø6 ontluhting bg	Entlüftungsnippel schwimmer	Bleed nipple float
02181	8105025.00602		Slang doorvoer spuitkrans	Schlauchgeleitung für Sprühlanze	Hose guide for nozzle spraypipe
02182	9331230.00110		Kogelkraan 1/2' 2 weg T hand	Zweiweg Kugelhahn 1/2' T-Handel	Two-way Ball valve 1/2' T handle
02183	8105025.03703		Messing stop ø15mm v.knelfitt.	Messing Dopf ø15mm	Brass hexagon dome ø15
02184	8105024.00402		5 Dops spuitkr. m kraan links	5 Doppelspritzl. mit Hahn links	5 Capped spray pipe with valve left
02185	9034013.01202		Slang pilaar 1/2'xø15 snijring	Schlauch-Pfeiler 1/2'x ø15 stutze	Hose pillar 1/2'x ø15 ring
02186	9034022.00301		Knел Knieverl.ø22 x 15 mm	Quetsch Knie-Kupp.ø22 x 15 mm Rohre Komp	Squeeze Elbow-coupl.ø22x15mm pipe compl.
	9034022.00601		Knел hoek T-stuk 15x22x15 90°	Quetsch Verlauf T-stück Rohr d 15x22x15	Squeeze Reducing T-piece pipe d 15x22x15
02187	8105024.90402		5 Dops spuitkr. m kraan rechts	5 Doppelspritzl. mit Hahn rechts	5 Capped spray pipe with valve right
02188	9125399.00100		Trio-dop + anti-drup excl.tip heavyspr	Trio-düse mit Anti-tropf ohne düse	Trio-body + non-drop without nozzle
02189	9034030.02100		Klembeugel ø21 - 1/4' Mess.[M]	Messing klemme ø21 - 1/4'	Brass clamp ø21 - 1/4'
02190	9034020.00200		Knелverloop 1/2'-ø20 pijp komp	Quetsch-Kupplung 1/2'-ø20 Komplet	Squeeze Lock-coupling 1/2'-ø20 pipe
02191	9004058.02000		Pijpklembeugel 2 delig ø20mm	Schelle mit Rohrzoll ø20mm	Connection blocks pipe ø20mm
	9004072.02000		Dekplaat voor beugel 19-25.4mm	Deckplatte für Rohrzoll 20-25mm	Cover plate for pipe 20-25mm
02192	9032066.02800		Zeskantige dop 1/4' verzinkt	Schließkappe 1/4' verzinkt	Flat hexagon cap 1/4' zinked
02193	9034013.01200		Slang pilaar 11.2x1/2' messing	Schlauch-Pfeiler 1/2'x1/2' Messing	Hose pillar 1/2'x1/2' brass
02194	9034014.04800		Zeskant wartel 1/2' messing	Sechskant Überwurfmutter 1/2' Ms	Hexagonal swivel 1/2' brass
02195	8105024.01808		4 Dops spuitleiding	2 Doppelspühleitung	2 capped spray pipe
02196	9034030.02100		Klembeugel ø21 - 1/4' Mess.[M]	Messing klemme ø21 - 1/4'	Brass clamp ø21 - 1/4'
02197	9034001.02801		Verloop nippel 1/4'x3/8' messi	Verlaufnippel 1/4'x3/8' Messing	Reducing nipple 1/4'x3/8' brass
02198	9125999.00100		Membraanklep (anti-drup) Kompl	Anti-tropf Membrane Komplet	Non drip membrane Complete
02199	9034014.03800		Zeskant wartel 3/8' messing	Sechskant Überwurfmutter 3/8' Ms	Hexagonal swivel 3/8' brass

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03000	9605197.00100		Aandrijfkast M47/N kompl.4/3.6	Schaltkasten M47/N Komplett 4/3.6	Gear Box M47/N Complete 4/3.6
	9810300.01002	2,00	Olie cardan type SPARTAN EP220	Öl SPARTAN EP220	Transm. oil type SPARTAN EP-220
03001	9420201.03503		Gaco oliekeerring 35x72x10 NBR	Öldichtungsringe 35 x 72 x 10	Oil seal 35 x 72 x 10
03002	9001860.07200		Segerring ø72 voor huis	Sicherungsring ø72 für Gehäuse	Retaining ring ø72 for housing
03003	9090006.03520		Kogellager 6207-2RS1	Kugellager 6207-LLU	Ball bearing 6207-LLU
03004	9605199.01011		Aandrijfas 1' 3/8	Antriebs-Achse	Driving shaft
03005	9032067.03800		Stop met rand 3/8' verzinkt	Stopf mit Rand 3/8' verzinkt	Stop with edge 3/8' zinked
03006	9605198.01008		Peilglas 1/2' olie	Pegelstopfen 1/2'	Gauge-cap 1/2'
03007	9605198.01006		Huis van aandrijfkast	Schaltkasten Gehäuse	Gear box housing
03008	9605197.01002		Uitgaande as aandrijfkast 1:4	Getriebene Achse Schaltkast. 1:3.6-1:4.0	Shaft for gearbox 1:3.6 - 1:4.0
03009	9003000.10040		Inlegspie 10x 8x40 vlak	Spie 10x 8x40	Square parallel key 10x 8x40
03010	9090006.04520		Kogellager 6209-2RS1	Kugellager 6209-LLU	Ball bearing 6209-LLU
03011	9001860.08500		Segerring ø85 voor huis	Sicherungsring ø85 für Gehäuse	Retaining ring ø85 for housing
03012	9420201.04502		Gaco oliekeerring 45x85x10 NBR	Öldichtungsringe 45 x 85 x 10	Oil seal 45 x 85 x 10
03013	9605198.01025		Schuifpen	Schiebe-Pflock	Gliding pin
03014	9605198.01023		Schakelstang	Schalt-Hebel	Switching arm
03015	9420000.01200		O-ring 12,00x2,50 NBR 70	O-ringe 12,00 x 2,50	O-ring 12,00 x 2,50
03016	9605199.01032		Drukveer (16x8,0x1,0) vlakgesl	Feder ø8x1 L16 geflächt	Spring ø8x1 L16 ends squared
03017	9605198.01021		Stalen kogel ø8 mm 5/16'	Kugel 5/16' (ø8 mm)	Steel ball 5/16' (ø8 mm)
03018	9000002.06020		Tapbout M 6 x 20 ELVZ	Sechskant Bolze M6 x 20 Verzinkt	Hexagon screw M6 x 20 Zinc plated
03019	9003122.00636		Spanbus ø6x36 St. ELVZ	Stahler Spannbüchse ø6x36 Verzinkt	Steel slotted springpin ø6x36 z.pl
03020	9605198.01018		Schakelarm handgreep	Switching lever	Switching lever
03021	9605198.01027		Bus	Nabe	Hub
03022	9605198.01019		Dopje ø20	Verschlusskappe ø20	Cap ø20
03023	9605198.01016		Deksel tandwielkast boomgrd.sp	Deckel	Cover
03024	9001850.06000		Segerring voor as ø60	Sicherungsring für welle 60	Retaining ring for shaft 60
03025	9605197.01014		Tandwiel groot (1:4,0)	Zahnrad Groß (1:4.0)	Gear wheel large (1:4.0)
03026	9605197.01015		Tandwiel klein (1:3,6)	Zahnrad Klein (1:3.6)	Gear wheel small (1:3.6)
03027	9605199.01012		Glijbus voor tandwielen	Gleitbüchse für Zahnräder	Gliding bush for gear wheels
03028	9001850.06000		Segerring voor as ø60	Sicherungsring für welle 60	Retaining ring for shaft 60
03029	9003000.16035		Inlegspie 16x10x35 vlak	Spie 16x10x35	Square parallel key 16x10x35
03030	9038003.03800		Verloop nippel 3/8'-1/2' buite	Reduzierstück 3/8'-1/2' Ausengew.	Reducing nipple 3/8'-1/2' outside
	9038031.01900		Rechtepilaar buitendr. 1/2" 20	Gerader anschl.ausgew. 1/2'D20	Hosetail male thread 1/2'D20
03031	9004012.23027		Slangklem Klemfa 23-27mm 5/8'	Schlauchklemme Klemfa 23-27mm (5/8')	Hose clip Klemfa 23-27mm (5/8')
03032	9390000.01900	0,25	Watersl 3/4' Trico geel 19x25	Wasserschlauch 3/4' Trico gelb/Mtr	Water hose 3/4' Trico yellow/mtr

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03033	9038030.01900		Rechtepilaar binnendr. ½"D19	Gerader anschl.innengew. 1/2" 19	Hosetail female thread 1/2" 19
03034	9032023.04801		Verloopring 1/2"x3/8" verzinkt	Verlauf Ring 1/2"x3/8" verzinkt	Reducing ring 1/2"x3/8" zinked
	9038004.04800		Verloop-stuk in/uit 1/2" - 1/2"	Reduzierst. Ein/Aus 1/2" - 1/2"	Female-male reduction 1/2" - 1/2"
03035	9032068.03800		Ontluchttingsplug 3/8	Entlüftungsschrauben	De-aerator
03036	9032030.03800		Knie 3/8" bi/bi verzinkt	Knie 3/8" in/in verzinkt	Knee 3/8" in/in zinked
03037	9032002.00600		Pijpnippel 3/8"x 60 verzinkt	Rohrnippel 3/8" x 60 Verzinkt	Pipe nipple 3/8" x 60 zinked
03038	8105035.00105		Opvulstrip tandwielkast	Abschirmplatte Zahnradgetriebe	Packing plate gearbox
03039	8105035.00205		Schakelhandel 1000-1500L	Schalthebel Zahnradkasten 1000-1500L	Switchhandle gearbox 1000-1500L
	8105035.00306		Schakelhandel 2000L	Schalthebel Zahnradkasten 2000L	Switchhandle gearbox 2000L

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04001	8105044.01492		Bevestigingsplaat(kort) kandel	Befestigungsplatte	Mounting plate
04002	8105044.02392		Bev.plaat(lang) kandel	Befestigungsplatte	Mounting plate
04003	8105043.00294		Voetplaat van Triple-Fan	Fußplatte für Triple-Fan	Footplate for Triple-Fan
04004	8105043.00303		Beschermkap van triple-fan	Schutzhülse Triple fan Gebläse	Protection cap
04005	8105044.03203		Steunbuis	Stütz Röhre	Support tube
04006	8105044.03303		Verlengstuk steunbuis	Verlängerungsstück Stütz Röhre	Lengthening piece support tube
04007	9004072.01900		Dekplaat zwarebeugel 19-28mm	Deckplatte Schwer zoll 19-28mm	Coverplate heavy pipe 19-28mm
04008	9004058.02691		Pijpklembeugel 2 delig ø26.9mm 3/4'zw	Schwere Schelle mit Rohrzoll ø3/4'	Heavy connection blocks diam. ø3/4'
04009	8105044.92894		Verst.plaat Triplefan Links	Verstärkungsplatte Triplefan links	Strengthening plate
04010	8105045.02594		Triplefan bevestiging	Befestigungsplatte	Fixation plate
04011	8105043.00599		Bev.prof. steunbuis '99	Befestigungsprofil Stützrohr	Connection profile support pipe
04012	9001802.02800		Stelring met stelschr.28x45x16 EV	Stellringe mit Schraube 28x45x16	Adjusting ring with screw 28x45x16
04013	9661050.04002		Naaf 10 schoeps Triplefan II	10 Schaufel Triplefan Nabe oben	10 blades hub Triplefan above
	9661051.04000		Vent. ø400 rechts kompl.	Ventilator ø400 Rechts Komplet	Fan ø400 10 Right complete
	9661051.04001		Schoep 10-schoeps naaf R.no.60	Schaufel für nabe 10 Rechts (no.60)	Blade for hub 10. right (no.60)
04014	8105045.02300		Opvulbus ventilator L=120 mm	Füllbüchse Ventilator	Filling bush fan
04015	8105044.00700		Vent.-as '00	Ventilator-Achse	Fan shaft
04016	9003000.08050		Inlegspie 8x 7x50 vlak St.	Spie 8x 7x50	Square parallel key 8x 7x50
04017	9003000.12050		Inlegspie 12x 8x50 vlak	Spie 12x 8x50	Square parallel key 12x 8x50
04018	8105045.03200		Opvulbuisje 145 MM	Füllröhrchen	Filling pipe 140 mm
04019	8105043.00692		Stelring blaasmond Triple-Fan	Einstellringe Blasenmundung	Adjusting ring fan housing
04020	8105045.03300		Geleidingsrol blaasmond tr.fan	Gleit-rolle für geblasemund Triple-fan	Guide roller air-outlet Triple-Fan
04021	8105041.00191		Opbouw voor Triple-Fan laag	Triple-Fan Aufbau Niedrig	Construction Triple-Fan low
04022	8105045.03404		Hoekprofiel	Eckprofil	angle section
04023	8105044.01904		Dekplaat Triple-Fan	Deckplatte Triple-Fan	Cover Triple-Fan
04024	8105045.02605		Opvulbus cilinderbevestiging	Auffüllbüchse Zylinderbefestigung	Filling bush cylinder fastening
	9001802.04001		Stelring met stelschr.40x63x18 EV	Stellringe mit Schraube 40x63x18	Adjusting ring with screw 40x63x18
04025	8105044.00891		Spanplaat	Spannplatte	Tighten plate
04026	9489040.17700		V-snaar KB3V-177,5-2 05	Keilriem KB3V-177.5' (2 Rücken)	V-belt KB3V-177.5' (2 profiles)
04027	9484002.16340		Pouly 2 3V 163 as ø40 taperl.	Keilscheibe 2 3V 163.4 Taperlock	Pulley 2 3V 163.4 taperlock
04028	8105044.01291		Plaat met V-snaar geleiding	Platte mit Keilriemenführung	Plate with V-belt guide
04029	9661050.04003		Duse voor- en achterzijde	Duse vorn- und hinterseite	Duse front- and backside
04030	9661050.04000		Vent. ø400 links kompl.	Ventilator ø400 Links Komplet	Fan ø400 10 left complete
	9661050.04001		Schoep 10-schoeps naaf L.no.21	Schaufel für nabe 10 Links (no.21)	Blade for hub 10. left (no.21)
	9661050.04002		Naaf 10 schoeps Triplefan II	10 Schaufel Triplefan Nabe oben	10 blades hub Triplefan above

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04031	8105044.00989		Klemring blaasmond	Klemmringe Gehäuse	Tighten-ring housing
04032	8105043.01392		Blaasmond Triple-Fan	Blase-Mündung Triple-Fan	Air-outlet Triple-Fan
04033	8105044.02494		Luchtgeleidingskap	Querstrohmkippen	Airleading plates
04034	9004058.02000		Pijpklembeugel 2 delig ø20mm	Schelle mit Rohrzoll ø20mm	Connection blocks pipe ø20mm
	9004072.02000		Dekplaat voor beugel 19-25.4mm	Deckplatte für Rohrzoll 20-25mm	Cover plate for pipe 20-25mm
04035	8105044.91092		Spuitboom 3 spuitdoppen links	Sprühbaum für 3 Düsen	Spraying boom 3 spraying caps left
04036	9399200.06000		Slang 80 Bar assem. 1/2' 6.00M	Schlauch 80 Bar ½' Komplet 6.00 M	Hose 80 Bar assembly ½' 6.00 M
04037	8105043.01106		Dekplaat Triple-Fan	Deckplatte Triple-Fan	Cover plate Triple-Fan
04037	8105043.01194		Dekplaat Triple-Fan	Deckplatte Triple-Fan	Cover Triple-Fan
04038	8105043.01606		Luchtgeleidingsschot	Luftleitungverschlag	Airconduction shutter
04039	8105043.01006		Luchtgeleidingskap 1000 mm	Luftleitungskappe 1000 mm	Airconduction guiding plate 1000 mm
04040	8105043.01299		Luchtgeleidingsprofiel	Mündungs-Schotten 956 mm	Air guides 956 mm
04041	8105044.01606		Luchtgeleidingsplaat rechts	Luftleitungsplatte rechts	Airconductionplate right
04042	8105044.91606		Luchtgeleidingsplaat links	Luftleitungsplatte links	Airconduction guiding plate left
04043	9455001.10850		Hydr. 1/4' slang-assembl. 8.50	Hydr. ¼' Schlauch Zusammenbau 8.50 M	Hydr. ¼' hose assembly 8.50 M
04044	8105044.04106		Luchtgeleidingskap brede TF	Luftleitungskappe breiter TF	Airconduction guiding plate widely TF
04045	8945013.02196		Cil. 32/20 kompl. slag 150mm	Zylinder 32/20 komplett Hub 150mm.	Cylinder 32/20 complete stroke 150
	8945025.02796		Zuigerstang ø20mm. L= 265mm	Zylinderstange ø20mm. Länge 265mm.	Piston rod ø20mm. Length 265mm.
	8945035.02196		Cil.huis ø32 Inw.l= 240mm	Zylindergehäuse ø32 Innenlänge 240	Cylinder housing ø32 Length 240mm
	8945055.01196		Sluitdop van cil. ø32/20	Endstopf für Zylinder ø32/20	End cap for hydraulic cylinder ø32/20
	8945065.01596		Glijbus 32/20, 2 doorlaat ø2.5	Geleitebüchse 32/20 2 Durchlässe ø2.5	Guiding bush 32/20. 2 culvert ø2.5
	8945075.01296		Zuigerdeel st.32/20, gat ø16.5	Säugerteil Stange 32/20. Loch ø16.5	Piston half for rod 32/20. hole ø16
	8945085.01096		Zuigerdeel cil. 32/20, gat M16	Säugerteil Zylinder 32/20. Loch M16	Piston half cylinder 32/20 hole M16
	9002302.12000		Kogelgewr. haaks M12 bi/bu	Kugelgelenk M12 Ein/Aus	Balljoint M12 inn/out
	9429000.03001		Dichtingset 30/20 cil. Flexion	Dichtungssatz 30/20	Sealing set 30/20 cylinder Flexion
	9429000.03202		Dichtingset 32/20 cyl. munck.	Dichtungssatz 32/20	Sealing set 32/20
04046	9454011.02800		Rechte inschroefkopp. 1/4'x 8	Gerade Verschraubung 1/4'x8	Male stud coupling 1/4'x8
04047	9453025.01001		Smookklep 1/4' binnendraad 2x	Reduzierventil hydraulisch	Reducing valve hydraulics
04048	8105044.00591		Bev.strip	Befestigungseisen	Connection strip
04049	9454012.02800		Rechte inschroefst.1/4'x 8uitw	Gerade Verschraubung 1/4'x8 ausser	Male stud coupling 1/4'x8 out
04050	9454021.02800		Inschroef kniekopp. 1/4'x 8	Gewinde Knie-Kupplung 1/4'x8	Threaded knee coupling 1/4'x8
04051	8105043.00899		Bev.prof. cil. '99	Befestigungsprofil Zylinder	Connection profile Cylinder
04052	8105043.00403		Statief Triple fan	Stativ Triple fan Gebläse	Support Triple fan
04053	8105044.02894		Verst.plaat Triplefan Rechts	Verstärkungsplatte Triplefan rechts	Strengthening plate
04054	8105043.01803		Luchtgeleidingsplaat triplefan	Querstrohmplatte Triple fan Gebläse	Air leading shield Triple fan

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	8105043.01806		Luchtgeleidingsplaat triplefan	Luftleitungplatte Triplefan	Airconductionplate Triplefan
04055	8105044.02706		Bevestiging spuitleiding	Anfertigung Spritzleitung	Attachment spraypipe
04056	9488000.15900		Riemsprol RSRB.16.159.LO	Riemen-spanrolle	Belt tension roller
04057	8948042.00179		Pouly 2 3V 318,4 as ø35	Keilscheibe 2 3V 318.4 Achse ø35	Pulley 2 3V 318.4 Schaft ø35
04058	9002302.08010		Kogelgewr. haaks M 8 bi/M10bu	Kugelgelenk M8 Ein/M10 Aus	Balljoint M8 inn - M10 out
04059	8105044.02606		4 Dops spuitleiding rechts	4-Verschluss Spritzleitung rechts	4- cap Spraypipe right
04060	8105044.92606		4 Dops spuitleiding links	4-Verschluss Spritzleitung links	4-cap Spraypipe left
04061	8105045.01103		Bed.handel aan/uit triple fan	Bedienungshebel an/aus Triple fan	Switch on/off Triple fan
04062	8105045.00703		Bevestiging spuitleiding	Befestigung Sprühleitung	Fixation spraying pipe
04063	8105045.01703		Trekpen bedieningshandel	Stange Bedienungshebel	Tension member control switch
04064	8105044.01702		Samenstelling V-snaargeleiding	Keilriemen Geleitung	V-belt guide
04065	8315025.00180		Aanslag	Anschlag	Stop
04066	8105045.01893		Drukpen	Drückpen	Press piston
04067	9630010.03100		Drukveer 100x31x6 RVS	Feder ø31x6 L100 RFS	Spring ø31x6 L100 Stainless steel
04068	9001552.08000		Sluitring verzonken M 8	Ring M8 Versunken	Countersunk washer M8
04069	9399200.00850		Slang 80 Bar assem. 1/2' 0.85M	Schlauch 80 Bar ½' Komplet 0.85 M	Hose 80 Bar assembly ½' 0.85 M
04070	9005008.01201		Handgreep handel ø12 x 68mm	Ballengriff für Steuerhebel ø12mm	Control lever knob for rod ø12mm
04071	8105044.02103		Kegelbevestigingsdeel boven	Hohlkegel Verstärkungsteil	Cone fixation part
04072	8105044.02003		Arm van snaarspanner	Arm für Keilriemenspanner	Arm for V-belt tightener
04073	9090005.01720		Kogellager 6003-2RS1	Kugellager 6003-LLU	Ball bearing 6003-LLU
04074	8105043.01502		Luchtgel. afsluitset TF Duitsl	Luftgeleitung Abschließ Satz TripleFan	Air conducted closing set TripleFan
04075	8105044.93504		Afsch. spuitdop links midden	Schutzplatte links-mitte	Cover nozzle mid-left
04076	8105044.93404		Afsch. spuitdop links onder	Schutzplatte links-unter	Cover nozzle under-left
04077	8105044.03504		Afsch. spuitdop rechts midden	Schutzplatte rechts-mitte	Cover nozzle mid-right
04078	8105044.03404		Afsch. spuitdop rechts onder	Schutzplatte rechts-unter	Cover nozzle under-right
04079	8105044.03604		Afscherming spuitdop boven	Schutzplatte oben	Cover nozzle above
04080	8105045.01905		Cilinderbevestiging	Zylinderbefestigung	Cylinder fastening
04081	8105045.01605		Opvulbus cilinderbevestiging	Auffüllbuchse Zylinderbefestigung	Filling bush cylinder fastening
04082	8105049.00206		Ombouwset Triplefan	Umbausatz Triplefan Gebläse	Convert kit Triplefan
04083	8105044.03706		Draairing	Drehring	Rotating ring
04084	8105043.01906		Tandring	Zahnring	Blocker ring
04085	8105045.03706		Afstandsbus	Abstandsbuchse	Distance bush
04086	8105045.03606		Opvulbusje draairing	Spannbuchse Drehring	Adapter bush rotating ring
04087	8105043.02106		Ophanging wormwielkasten	Aufhängung Schneckenradgetriebe	Suspension worm gearbox
04088	8105044.93806		Wormwielkast links	Schneckenradgetriebe links	Worm gearbox left

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04089	8105044.03806		Wormwielkast rechts	Schneckenradgetriebe rechts	Worm gearbox right
04090	8105043.02006		Wormwielhuis	Schneckenradgehäuse	Worm wheel housing
04091	8305024.01686		Lagerhuis	Lagergehäuse	Bearing housing
04092	8105044.03906		Wormwiel	Schneckenrad	Worm wheel
04093	8105045.03506		Bev.plaat hydr.motor	Befestigungsplatte hydr. Motor	Fastening plate hydr. motor
04094	9451099.00108		Hydr.motor Orbit OMM 20A-2-Z06	Hydr. Motor Orbit 20A-2-Z06	Hydr. motor Orbit OMN 20A-2-Z06

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05001	8105053.00902		Luchtgeleidingsprofiel 3.05m	Mündungs-Schotten 3.05m	Air guides 3.05m
05002	8105055.00302		Slangdoorvoer spuitleiding dwk	Schlaug geleitung für Sprühlanze Querstr	Hose guide for nozzle spraypipe air lead
05003	8105054.00408		Bevestiging 2.75m dwarsstr. rechts	Befestigung 2.75 Querstr. rechts	Connection 2.75m cross flow right
05004	8105054.90408		Bevestiging 2.75m dwarsstr. links	Befestigung 2.75M Querstr. links	Connection 2.75M cross flow left
05005	8105053.01702		6 Dops leiding rechts ex. spdh	6 Doppelsprühleitung rechts ex.Düshalter	6 Capped spray pipe right excl.tipholder
05006	8105053.00308	1,30	Verstevigingsprofiel	Verstärkungs Profil	Consolidation Profile
05007	9392000.01201	1,30	Perssl. 1/2' 80 BAR Altipl.12	Druckschlauch 1/2' 80 BAR 12x20.5/Mtr	Pressure hose 1/2' 80 BAR 12x20.5/mtr
	9399200.05100		Slang 80 Bar assem. 1/2' 5.10M	Schlauch 80 Bar ½' Komplet 5.10 M	Hose 80 Bar assem. ½' 5.10M
	9399200.05300		Slang 80 Bar assem. 1/2' 5.30M	Schlauch 80 Bar ½' Komplet 5.30 M	Hose 80 Bar assembly ½' 5.30 M
05008	8105053.91702		6 Dops leiding links ex. spdh	6 Doppelsprühleitung links ex. Düshalter	6 Capped spray pipe left excl.tipholder
05009	8105055.00888		Opvulbuisje 52 mm	Fühlbuchse	Filling pipe 52 mm
05010	8105053.00503	1,65	Bevestiging verlichtingsbalk	Befestigung Beleuchtungssatz	Connection lighting-set
05011	8105053.00702		5 Dops leiding rechts ex. spdh	5 Doppelsprühleitung rechts ex.Düshalter	5 Capped spray pipe right excl.tipholder
05012	8105053.01102		Luchtgeleidingsprofiel 2.75m	Mündungs-Schotten 2.75m	Air guides 2.75m
05013	8105053.90702		5 Dops leiding links ex. spdh	5 Doppelsprühleitung links ex. Düshalter	5 Capped spray pipe left excl.tipholder
05014	9392000.01201	1,65	Perssl. 1/2' 80 BAR Altipl.12	Druckschlauch 1/2' 80 BAR 12x20.5/Mtr	Pressure hose 1/2' 80 BAR 12x20.5/mtr
	9399200.04850		Slang 80 Bar assem. 1/2' 4.85M	Schlauch 80 Bar ½' Komplet 4.85 M	Hose 80 Bar assembly ½' 4.85 M
	9399200.05000		Slang 80 Bar assem. 1/2' 5.00M	Schlauch 80 Bar ½' Komplet 5.00 M	Hose 80 Bar assembly ½' 5.00 M
05015	8105054.00202		Beschermrooster rechts	Schutzgitter rechts	Protecting grid right-side
	8105054.90202		Beschermrooster links	Schutzgitter links	Protecting grid left side
	8105059.10202		Beschermroosters dwarsstr.kap	Schützgitter Querstrohmkappe	Protection grate air leader funnel
05016	8105053.00609		Verstevigingsprofiel boven	Verstärkungs Profil	Consolidation profile
05017	8105053.03109		Verstevigingsprofiel boven 3.05m	Verstärkungs Profil über 3.05M	Consolidation profile above 3.05M
05018	8105054.00606		Verdeel afsluitset spuitleid.R	Verteiler Abschließsatz Spritzleitungen rechts	Divider locking set spraying pipe right
	8105054.90606		Verdeel afsluitset spuitleid.L	Verteiler Abschließsatz Spritzleitung links	Divider locking set spraying pipe left
05019	8105054.01708		Bevestiging 3.05 m dwarsstr. rechts	Befestigung 3.05M Querst. rechts	Connection 3.05M cross flow right
05020	8105054.91708		Bevestiging 3.05 m dwarsstr. links	Befestigung 3.05M Querstr. links	Connection 3.05M cross flow left
05101	8105053.01996		Luchtgeleidingskoker rechts	Querstrohmkappe rechts	Airleader funnel right
05102	8105053.91996		Luchtgeleidingskoker links	Querstrohmkappe links	Airleader funnel left
05103	8105053.02095		Bev.plaat voorzijde	Befestigungsplatte vorderseite	Connection plate front
	9000002.08020		Tapbout M 8 x 20 ELVZ	Sechskant Bolze M8 x 20 Verzinkt	Hexagon screw M8 x 20 Zinc plated
	9001042.08000		Nyloc zelfborgendemoer M 8 ELV	Nyloc Selbstsichernde Mutter M8	Nyloc Locknut M8 Zinc plated
	9001502.08000		Vlakke sluitring M 8 ELVZ	Ring M8	Flat washer M8 ELVZ
	9001512.08002		Carosseriering M 8 ø30x4	Ring M8 ø30x4	Flat washer M8 ø30x4
05104	8105053.02195		Bev.plaat achterzijde	Befestigungsplatte hinterseite	Connection plate back

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	9000002.08020		Tapbout M 8 x 20 ELVZ	Sechskant Bolze M8 x 20 Verzinkt	Hexagon screw M8 x 20 Zinc plated
	9001042.08000		Nyloc zelfborgendemoer M 8 ELV	Nyloc Selbstsichernde Mutter M8	Nyloc Locknut M8 Zinc plated
	9001502.08000		Vlakke sluitring M 8 ELVZ	Ring M8	Flat washer M8 ELVZ
	9001512.08002		Carosseriering M 8 ø30x4	Ring M8 ø30x4	Flat washer M8 ø30x4
05105	8105055.00696		Afstandsbus kleine dwarsstroomkap	Fühlbuchse	Filling pipe 135 mm (ø15x3)
05106	9000012.08150		Zeskantbout M 8 x150 ELVZ	Sechskant-Bolze M8 x 150 Verzinkt	Hexagon bolt M8 x150 Zinc plated
	9001042.08000		Nyloc zelfborgendemoer M 8 ELV	Nyloc Selbstsichernde Mutter M8	Nyloc Locknut M8 Zinc plated
	9001502.08000		Vlakke sluitring M 8 ELVZ	Ring M8	Flat washer M8 ELVZ
	9002012.08170		Draadstang M 8x170mm ELVZ 8.8	Gewindebolz M8x170mm Gelbpassiviert	Threaded pin M8x170mm galv.
05107	8105055.00796		Draai-as dwarsstr.k klein 108	Dreh-Achse Querstrohmkippen	Turning pinion air leader funnels
	9000092.08025		Verz. bout M 8 x 25 BZK-ELVZ	Senkschraube M8 x 25 Verzinkt	Counterscrew M8 x 25 zinc plated
	9001552.08000		Sluitring verzonken M 8	Ring M8 Versunken	Countersunk washer M8
05108	8105054.01295		Verlengstuk luchtgeleidingskok	Längerungsstück Querstromkappe	Extension piece air leader tunnel
	9000002.08016		Tapbout M 8 x 16 ELVZ	Sechskant Bolze M8 x 16 Verzinkt	Hexagon screw M8 x 16 Zinc plated
	9001042.08000		Nyloc zelfborgendemoer M 8 ELV	Nyloc Selbstsichernde Mutter M8	Nyloc Locknut M8 Zinc plated
	9001502.08000		Vlakke sluitring M 8 ELVZ	Ring M8	Flat washer M8 ELVZ
05109	8105054.91699		3 Dops spuitleiding links KDWK	3 Doppelsprühleitung links KDWK	3 Capped spray pipe left KDWK
05109	9000092.06050		Verz. bout M 6 x 50 BZK-ELVZ	Senkschraube M6 x 50 Verzinkt	Counterscrew M6 x 50 zinc plated
	9001042.06000		Nyloc zelfborgendemoer M 6 ELV	Nyloc Selbstsichernde Mutter M6	Nyloc Locknut M6 Zinc plated
	9004058.02000		Pijpklembeugel 2 delig ø20mm	Schelle mit Rohrzoll ø20mm	Connection blocks pipe ø20mm
	9004072.02000		Dekplaat voor beugel 19-25.4mm	Deckplatte für Rohrzoll 20-25mm	Cover plate for pipe 20-25mm
05110	8105054.01699		3 Dops spuitleiding rechts KDWK	3 Doppelsprühleitung rechts KDWK	3 Capped spray pipe right KDWK
05111	9399200.01400		Slang 80 Bar assem. 1/2' 1.40M	Schlauch 80 Bar ½' Komplet 1.40 M	Hose 80 Bar assembly ½' 1.40 M
05112	8105055.01507		Bevestiging KDW kap	Befestigung KDW Kappe	Attachment KDW cap
	9001042.08000		Nyloc zelfborgendemoer M 8 ELV	Nyloc Selbstsichernde Mutter M8	Nyloc Locknut M8 Zinc plated
	9001502.08000		Vlakke sluitring M 8 ELVZ	Ring M8	Flat washer M8 ELVZ
05113	8105054.00804		Bevestigingskrans rechts	Befestigungsring rechts	Fixation ring right
05114	8105054.90804		Bevestigingskrans links	Befestigungsring links	Fixation ring left

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06002	9370802.18000		Filter zelfvuller ø180-2'a	Filter Selbstfüller ø180-2'	Filter selffiller ø180-2'
06004	9391000.05002	5,00	Zuigslang 2' SE grijs ø50x59,2	Saugeschlauch 50x57 2' SE grau/Mtr	Suction hose 50x57 2' SE grey/mtr
06005	9004002.50070		Slangschr.klem 50-70mm 2'	Schlaugklemme 50-70mm (1-3/4')	Hose clip 50-70mm (1-3/4')
06006	8105062.00189		Zelfvuller	Selbstfüller	Selffiller
06007	8105065.00279		Injekteur van zelfvuller ø2.5mm	Injektor von Selbstfüller ø2.5mm	Injector for Selffiller ø2.5mm
06008	8105065.00379		Dubbele nippel 1/2' messing	Doppelter Nippel 1/2' Messing	Double nipple 1/2' brass
06009	9420604.01300		Pakkingring Nylon13x19x2,0)1/2	Packung nylon (13x19x2.0) 1/2'	Nylon gasket (13x19x2.0) 1/2'
06010	9399200.01650		Slang 80 Bar assem. 1/2' 1.65M	Schlauch 80 Bar ½' Komplet 1.65 M	Hose 80 Bar assembly ½' 1.65 M
06011	8105064.00289		Mondstuk zelfvuller 1-¼'	Mundstück Selbstfüller	Connecting-piece selffiller
06012	9004058.04200		Pijpklembeugel 2 delig ø42mm 1-¼'	Schelle mit Rohrzoll 1-¼' ø42mm	Connection blocks pipe 1-¼' ø42mm
06013	8105065.00479		Steun zelfvuller	Stütze Selbstfüller	Support selffiller
06014	9370802.18001		Drijver blauw stootwil	Flößer orange	Float orange
	9549001.01001	1,00	Victor ketting ø1.8 steek=25	Victorketten ø1.8 Teilung=25	Victorchain ø1.8 circ.pitch=25

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Mob.boomgaardspuit PE alu vent**ONDERDELENLIJST****ERSATZTEILEN LISTE****SPARE PARTS LIST**

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07001	8105073.00804		Luchtgeleidingskap 440 mm	Luftleitungsskappe 440 mm	Air conduction hood 440 mm
07002	8105075.01304		Luchtgeleiding	Luftleitung	Air conduction
07003	8105075.92004		Luchtgeleiding links	Luftleitung Links	Air conduction left
07004	8105075.01404		Verbinding luchtplaten	Verbindung Luftplatten	Connection air plates
07005	8105075.02004		Luchtgeleiding rechts	Luftleitung Rechts	Air conduction right
07006	8105074.91104		Luchtgeleidingsplaat links	Luftleitungsplatte Links	Air conduction plate left
07007	8105074.01104		Luchtgeleidingsplaat rechts	Luftleitungsplatte Rechts	Air conduction plate right
07008	8105074.00804		Sputtleiding links voor	Sprühleitung links vorne	Spray pipe left front
07009	9032030.04800		Kníe 1/2' bi/bi verzinkt	Kníe 1/2' in/in verzinkt	Knee 1/2' in/in zinked
07010	8105074.00904		Sputtleiding slang triplefan	Sprühleitung Schlauch Triplefan	Spray pipe tube Triplefan
07011	8105073.00904		Luchtgeleiding slang triplefan	Luftleitung Schlauch Triplefan	Air conduction tube Triplefan
07012	8105074.01004		Sputtleiding links boven	Sprühleitung links oben	Spray pipe left above
07013	9032040.04800		Bocht 90° 1/2' bi/bi verzinkt	Bogen 90° 1/2' in/in verzinkt	Elbow 90° 1/2' in/in zinked
07014	8105074.00704		Bev. sputtleiding links	Befestigung Sprühleitung links	Fixation spray pipe left
07015	9489040.13200		V-snaar 2-3v kb 1320 7705	Keilriemen 2-3v kb 1320 7705	V-belt 2-3v kb 1320 7705
07016	8105073.00103		Bevestigingsprofiel cilinder	Befestigungsprofil Zylinder	Connection profile cylinder
07017	8105073.00203		Bevestigingsprofiel cilinders	Befestigungsprofil Zylinders	Connection profile cylinders
07018	8105074.91304		Cil.bevest. Triplefan Links	Zilinder Befestigung Triplefan Links	Cylinder connection Triplefan left
07019	8105074.01304		Cil.bevest. Triplefan Rechts	Zilinder Befestigung Triplefan Rechts	Cylinder connection Triplefan right
07020	8105074.01204		Sputtleiding onder	Sprühleitung unten	Spray pipe below
07021	8105075.01904		Sluitring	Scheibe	Washer
07022	8105075.01704		Kunststof sluitring	Kunststoff Scheibe	Synthetic washer
07023	8105075.01604		Sluitring	Scheibe	Washer
07024	8105075.00804		Geleiding slang blaasmond tf	Leitung Schlauch Blase-Mündung Triplefan	Conduction hose air outlet Triplefan
07025	8105075.01504		Kunststof sluitring	Kunststoff Scheibe	Synthetic washer
07026	8105073.00305		Hoogtestelling blaasmond	Höhestellung Blase-Mündung	Height adjustment Air-outlet
07027	9004058.02690		Pijpklembeugel 2 delig ø26.9mm 3/4'	Schelle mit Rohrzoll ø3/4'	Connection blocks pipe ø3/4'
07028	8105073.00604		Samenst.luchtslang bevestiging	Zusammenstel. Luftschauch Befestigung	Comp. connection airtube
07029	8105073.00704		Blaasmond d400-300 h200	Blase-Mündung ø400-300 h200	Air outlet ø400-300 h200
07030	9032050.04800		T-stuk 1/2' bi/bi/bi verzinkt	T-stück 1/2' in/in/in verzinkt	T-piece 1/2' in/in/in zinked
07031	8105074.00904		Sputtleiding slang triplefan	Sprühleitung Schlauch Triplefan	Spray pipe tube Triplefan
07032	8105074.00604		Steunpr. boven slang triplefan	Stützprofil oben Schlauch Triplefan	Support profile above tube Triplefan
07033	8105074.00504		Steunpr. onder slang triplefan	Stützprofil unten Schlauch Triplefan	Support profile beneath tube Triplefan
07034	9391090.40600	1,50	Luchtslang PVC d406mm+spiraal	Absaugschlauch PVC 406mm + Spirale	Suction hose PVC 406 mm + spiral
07035	8105071.00104		Opbouw voor slang Triple-Fan	Triplefan Aufbau für Schlauch	Construction tube Triple-Fan

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99001	9069000.02001		Schakelkast 2 kranen	Schaltkasten 2 Ventile	Switch-unit 2 valves
	9069000.02002		Schakelkast 2 kranen + drukreg	Schaltkaste 2 Ventile + Druckregler	Switch-unit 2 valves. pressure set.
99002	8105024.03596		Kabeldoos 110x75x58 uitw.m bew	Kabeldose 110x75x58	Cable box 110x75x58
99003	9062011.11000		Bevest.moer PG11	Befestigungsmutter PG11	Back nut PG11
	9062012.11000		Wartel drukw.d. PG11 polyam	Überwurfmutter Wasserdicht PG11 polyam.	Hexagonal swivel waterproof PG11 polyam.
99004	9060006.05015	6,00	Elec. kabel CC-flex 5x1,50 NUM newlec	Elektrischen Kabel CC-flex 5x1,5/mtr	Electrical cable CC-flex 5x1,5/mtr
99005	9063010.01001		Tuimelschakelaar 10A	Kipphebelschalter 10A	Tumbler switch 10A
99006	9780405.00192		Sticker kleine bedieningskast	Sticker kleine Schaltenkast	Sticker small operation box
99007	9061101.10000		Glaszekering 10A-12V Sn 32x6.3	Sicherung 10A-12V	Fuse 10A-12V
99009	9061125.01001		Glaszekeringhouder	Sicherungsdose	Fuse box
99010	9063010.01002		Tuimelschakelaar 10 Amp terugv	Kipphebel 10 Amp. mit 0 federstand	Tumbler switch 10 Amp. with coilspr
99011	8105014.02191		Kabeldooshouder klein	Befestigung für Kabeldose Klein	Connection for cable box small
99012	9060006.02150	0,35	Elec. kabel CC-flex 2x1,50 newlec	Elektrischen Kabel CC-flex 2x1.5/mtr	Electrical cable CC-flex 2x1.5/mtr
99013	9060501.01001		Landbouw-stekker 2 polig	Landbau-Stecker 2 Polig	Plug 2 poles
99014	9069000.03001		Schakelkast Triple-Fan kompl.	Schaltkaste Triple-Fan Komplet	Switch-unit Triple-Fan compleet.
	9069000.04001		Schakelkast 4 kranen + drukreg	Schaltkaste 4 Ventile + Druckregler	Switch-unit 4 valves. pressure set.
	9069000.04002		Schakelkast 4 kranen	Schaltkaste 4 Ventile	Switch-unit 4 valves
99015	8105014.02091		Kabeldooshouder groot	Befestigung für Kabeldose Groß	Connection for cable box big
99016	8105024.00792		Kabeldoos 164x129x70 inw. mate	Kabeldose 164x129x70 innenmaß	Cable box 164x129x70 inside dimens
99017	9062011.09000		Bevest.moer PG9	Befestigungsmutter PG9	Back nut PG9
	9062012.09000		Wartel drukw.d. PG9 polyam	Überwurfmutter Wasserdicht PG9 polyam.	Hexagonal swivel waterproof PG9 polyam.
99019	9005018.01200		Blinddop ø12mm inslag	Blind-kappe Loch ø12	Blind-cap hole ø12
99020	9063010.01000		Tuimelschak.rubber beschermkap	Gummi Schütz-kappe Kipphebel	Rubber protection cap Tumbler switch
99021	9061001.12012		Lamp 12V/1,2W	Lampe 12V/1.2W	Lamp 12V/1.2W
99022	9780404.00192		Sticker grote bedieningskast	Sticker grosse Schaltenkast	Sticker large operation box
99023	9061011.01002		Lamphouder (rood) voor schakel	Lampehalter (rot) für schaltkaste	Lampholder (red) for switch-unit
99024	9060006.07150	6,00	Elec. kabel CC-flex 7x1,50 newlec	Elektrischen Kabel CC-flex 7x1.5/mtr	Electrical cable CC-flex 7x1.5/mtr
99025	8105014.01991		Statief voor afstandsbediening	Stativ	Support
99026	9069010.02001		Verbindingskast 2 kranen	Verbindungskaste 2 Ventile	Connection-unit 2 valves
	9069010.02002		Verbindingskast 2 kranen+dukr	Verbindungskaste 2 ventile + Druckregler	Connection-unit 2 valves. pressure set.
	9069010.03001		Verbindingskast 4kr.Tripf.kmpl	Verbindungskaste Triple-Fan Komplet	Connection-unit Triple-Fan compleet
	9069010.04001		Verbindingskast 4 kranen+dukr	Verbindungskaste 4 Ventile+druckregler	Connection-unit 4 valves+pressure set.
	9069010.04002		Verbindingskast 4 kranen	Verbindungskaste 4 Ventile	Connection-unit 4 valves
99027	8105025.06399		Kabeldoos 110x75x58 uitw.m bew	Kabeldose 110x75x58	Cable box 110x75x58
99028	9060006.02150	2,10	Elec. kabel CC-flex 2x1,50 newlec	Elektrischen Kabel CC-flex 2x1.5/mtr	Electrical cable CC-flex 2x1.5/mtr

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99029	9061031.01003		Verlichtingsset munckhof BGD	Beleuchtungssatz	Lighting set
99030	9061031.02002		Reflektor driehoek 160x140	Reflektor dreieck 160x140	Reflector Triangle 160x140
99031	9061021.03001		Achter-rem-knipper licht Hella	Schlußlicht	Rear light
99032	9061001.12100		Lamp 12V/10W	Lampe 12V/10W	Lamp 12V/10W
99033	9061001.12210		Lamp 12V/21W	Lampe 12V/21W	Lamp 12V/21W
99034	8105014.00400		Huis verlichtingsbalk	Beleuchtungsarmatur	Lighting armature
99035	9060501.02001		Stekker 7 polig	Stecker 7 Polig	Plug 7 poles
99036	9060006.07100	10,00	Elec. kabel CC-flex 7x1.00 newlec	Elec. kabel CC-flex 7x1.00	Elec. cable CC-flex 7x1.00
99037	9005108.00950		Doorvoertule ø 9.5plaat 1.6mm	Kabelschutz ø9.5 für Platte 1.6mm.	Nylon cable bushing ø9.5mm plate 1.6mm

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