

Product Description Safety Instructions Operating Instructions for BINKS Piston Pump LP 0/4

These operating instructions are part of the equipment. Please read and follow all instructions and safety precautions before using the equipment. Disregarding can causes injuries on people and/or damages on the unit.

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1. Intended Use

BINKS piston pumps are used exclusively to discharge and apply spray materials, or as conveyor pumps. Materials that can be pumped include:

- Water-dilutable lacquers and lacquer paints
- Lacquers and lacquer paints containing solvents
- Base coats and primers
- Micaceous iron ore (with some restrictions; see below)
- Zinc dust paints
- Epoxide and polyurethane paints
- Oils
- Plastics, liquid
- Wax-based underbody protection materials
- Solvent-free spray materials or spray materials low in solvents

The processing guidelines and safety instructions of the spray material manufacturer must be observed.



Avoid processing abrasive, grainy spray material. Spray material of this type will result in heavy wear of the valves and packing kits of the material pump as well as the nozzle and spray gun that are used.

PLEASE NOTE!

BEFORE START-UP, ADD SEPARATING AGENT:

FOR WATER-SOLUBLE PAINT: 0114-014871 FOR SOLVENT-BASED PAINT: 0114-009433



2. Short Description (Fig. 1)





- 1 Compressed air drive
- 2 Connector for compressed air supply
- 4 Spray material pump
- 5 Intake system
- 7 Compressed air control valve
- 8 Pressure reducer
- 10 Separating agent chamber

- 11 High pressure filter (if present)
- 12 High pressure filter relief valve
- 13 Return flow
- 14 Earth terminal
- 15 Connector for spray material output
- 16 Earth terminal (for use without high pressure filter)



Comments on figure 1

The pneumatic motor (1) drives the BINKS airless pump. An airflow controller in the pneumatic drive applies compressed air alternately to the pneumatic motor piston. This sets the piston moving upwards and downwards.

The pneumatic motor is flange-mounted directly to the material pump (4). A moving axle connects the pneumatic drive butt plate to the double piston of the material pump.

The ascending stroke of the double piston draws in the material through the suction system (5) and the foot valve of the spray material pump. At the same time, the material which is already in the material pump above the double piston, is ejected through a check valve into the high pressure filter (11).

The descending stroke of the double piston closes the foot valve and the material which has been drawn in, is forced through a plunger valve into the space above the double piston. At the same time, the material which is already there is ejected into the high pressure filter.

If the airless gun take-off is not operative, counter pressure will build up in the material line. The pump will stop. Spray material from the airless gun and the BINKS airless pump will start up again.

The area of the motor piston is greater than the area of the material piston. This difference in area causes the pressure to intensify. With an area ratio of 60/1, for example, a working pressure of 1 bar at the pneumatic drive will be intensified to a working pressure of 60 bar at the spray material pump.

The lubrication chamber (10) physically separates the pneumatic motor from the material pump. The lubrication chamber is filled with lubricant (Order Code 0114-014871 for waterborne paint, Order Code 0114-009433 for solvent paint). The lubricant cleans the double piston of the spray material pump and lubricates the packing and the moving axle.

The volume of air and thus the delivered volume of material is regulated by the working pressure at the compressed air control valve (7). The compressed air control valve is equipped with an excess pressure safety valve, which is triggered if the maximum working pressure at the pneumatic motor is exceeded.

The material pump can draw in spray material in two ways.

Direct suction:

This involves immersing the suction system in the spray material.

Suction through a flexible suction system:

This involves connecting the material pump to a flexible suction system. The free end of the suction system is inserted into the tank containing the spray material.



The spray material being pumped is filtered through the high pressure filter (optional with LP 10/4: type 03 - order no. 0110-009130) before it is discharged through the spray material line and spray gun. We recommend the following filter inserts for different types of spray material:

Filter size	Nozzle	Spray material	
M 200	Less than 0.3 mm	Colourless coatings	
M 150	Greater than 0.3 mm	Spatula, filler, red lead	
M 100	Greater than 0.3 mm	Spatula, filler, red lead	
M 70	Greater than 0.5 mm	Micaceous iron, red lead	
M 50	Greater than 0.6 mm	Dispersion, filled spray material	



Do not use a filter insert with fibre-filled spray material.

HD filter inserts (overview)





3. Technical Data

BINKS		LP 10/4	
Theoretical pres- sure transmission ratio		4 : 1	
Compressed air drive	Max. operating pressure	5 bar	
	Cylinder diameter	70 mm	
Spray material pump	Volume conveyed per double stroke	150 ccm	
	Maximum allowable operating temperature	20 bar	
	Piston stroke	75 mm	
	Nominal volume flow conveyed	9 ltr./minute	
Connections	Air input	Quick coupling nipple	
		or R 3/8" (AG)	
	Air gun	Angle screw connection NW 8x6 or 1/4" NPS (AG)	
	Material output on high pressure filter	1/4" NPS (AG)	
Dimensions of base pump	H x W x D in mm	575 x 120 x 120	

The rating plate of your device is located on the spray material pump. Transfer the information from the rating plate in Fig. 3. Please have this information ready when you call customer service.

Fig. 3 ITW Oberfläche Justus D-631	entechnik GmbH & Co. KG -von-Liebig-Str. 31 28 Dietzenbach
Druckluft g Geräte-Typ Herstell-Nr./Baujahr Fördermenge/Doppelhub Materialüberdruck max. Lufteingangsdruck max.	etriebene Kolbenpumpe Packung PTFE Leder/PTFE () (m³ Mat.Temp.max. 0°C bar Übersetzung ():1

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4. Safety

In addition to the Operating Instruction and mandatory regulations for accident prevention applicable in the country where the system is installed, recognised technical rules for safety-conscious and professional work must be observed.

4.1. BASIC PRINCIPLE; PROPER USE

- 1. The BINKS piston pump is constructed according to the state of the art and recognised safety rules. However, it is still possible for dangers to life and limb of the user or other persons and/or damage to the BINKS piston pump or other property to occur while the pump is in use.
- 2. The BINKS piston pump must only be used if it is in proper condition, and only for its intended purpose in a safety-conscious manner with full knowledge of the dangers involved and while observing the Operating Instruction! In particular, faults that could have a negative effect on safety must be eliminated immediately! The spray material line must never be pulled across objects with sharp edges and must be checked to ensure it is in flawless condition each time before use.
- 3. BINKS piston pumps must only be used for the intended use specified in Section 1. Any other or any additional use beyond what is intended is considered improper use. The manufacturer/supplier shall not be liable for any resulting damages. The user alone assumes the risk.
- 4. Unauthorised modifications or repairs to BINKS piston pumps release the manufacturer of any liability.
- 5. According to accident prevention regulations for liquid jet sprayers ZH 1/406 of the relevant trade unions, spray paint systems must be inspected as needed, but at least every 12 months by an expert to determine whether they are still capable of operating safely. If devices have been taken out of service, the check can be delayed until the next time the system is started up. The operator is obligated to register the system for a test. The results of the test must be kept in writing.

4.2. OPERATING SAFETY

- The conditions of accident prevention regulations "Processing Coating Substances" (VBG 23), the guidelines for liquid jet sprayers (ZH 1/406), and for static electricity (ZH 1/200) of the relevant trade unions must be observed.
- 2. Every person who uses a BINKS piston pump must have read and understood the Operating Instruction, especially the chapter entitled "Safety".
- 3. When working in enclosed areas, an effective technical ventilation system must be used.
- 4. Use only spray material lines and spray guns designed for the corresponding highest permissible operating pressure.



- 5. Make sure there are no ignition sources in the vicinity, for example, open fire, sparks, glowing wires, hot surfaces, burning cigarettes, etc. The distance between the spray jet outlet and a possible ignition source must be at least 5 m (danger of fire and explosion if ignitable spray mist is present).
- 6. Spray material emerges from the nozzle under pressure. Do not direct the spray jet at people or animals, as there is a risk of injury. In case of a skin injury and contact with paint, lacquer, or solvent, there is danger of infection. Call a physician immediately for fast, knowledgeable treatment. Inform the doctor immediately about the spray material or solvent being used. Present the safety data sheet.
- 7. Note that fumes hazardous to your health may be present when working with spray jets (see the information on the safety data sheet and material container). You should therefore use a personal respirator system as specified by the spray material manufacturer. Keep children and other persons away from your work area.
- 8. Keep the BINKS piston pump in a secure location that is not accessible for children and unauthorised persons. Make sure unauthorised persons (especially children) are not able to place the BINKS piston pump in operation.
- 9. Store the BINKS piston pump in a dry room.
- 10. Use only BINKS original accessories and BINKS original spare parts.
- 11. Repair work must only be performed by authorised specialised company or by ITW Oberflächentechnik. You can receive addresses of specialised companies from ITW Oberflächentechnik or your retaining specialist.
- When the pump is being repaired or assembled, make certain that all screw connections are clean and properly seated.
 Prior to restart-up of the pump, its correct resistance (1 MΩ) must be measured. The resistance is determined between the base valve and the top part of the pump.
- 13. When performing spray tasks, make certain not to spray in the direction of the BINKS piston pump.
- 14. Dispose of cleaning and spray material waste as described in the manufacturer's instructions of the relevant spray material and solvent.
- 15. During work interruptions, for example changing the nozzle, lock the safety lever on the spray gun. Release pressure from the device.



4.3. SPECIAL HAZARDOUS LOCATIONS

1. Due to the high pressure level, the flow of material emerging from the spray gun has a significant cutting effect.



Therefore you must **never** point the spray gun at yourself or other persons, animals, or objects. **Never** reach into the spray jet with your finger or hand or hold your finger or hand in front of the spray gun.

Note:

In case of injuries caused by the cutting effect of the flow of material, **consult a physician immediately**. Inform the doctor about the spray material (paint), solvent (diluting agent) and applicable manufacturer's information according to the safety data sheet (supplier, supplier's phone number, material number).

- 2. As the spray material emerges, a recoil force is generated. Therefore you should always keep a firm grip on the spray gun and make certain you have a secure footing and position.
- 3. In closed systems or systems under pressure in which aluminium or galvanised parts come in contact with the liquid, dangerous chemical reactions may occur when using 1.1.1 trichloroethane, methylene chloride, or other solvents containing halogenated chlorinated hydrocarbons.

If you want to use these solvents or lacquers containing them, we recommend contacting the manufacturer of the material or ITW Oberflächentechnik.

- 4. If problems occur because of clogging, always unlock the compressed air supply on the ball valve. Disconnect the device from the compressed air network, activate the spray gun, and open the high pressure filter relief valve before loosening the spray gun or hose.
- 5. To prevent fire or explosion due to static charge, the system must be properly grounded (device, material container, and object being coated). If you are using materials with a flashpoint below 21°C (for example nitro), of ignition group G1-G3, an additional conducting connection must be created between the material container and device (potential equalization cable). Use only material containers made of metal.
- Prevent spray from returning into a closed container. Otherwise a mixture of gas and air capable of igniting will be formed. Be especially careful with materials that have a flashpoint below 21°C (for example nitro).
- 7. The A-weighted noise level of pumps can exceed 85 dB (A).

Depending on local conditions, a higher sound level may be generated, which may produce enough noise to cause noise induced hearing loss. In this case, operating personnel must be protected using appropriate safety measures.



5. Start-up and Operation

5.1. GROUNDING BINKS PISTON PUMPS



To prevent ignition of flammable spray material due to static charge, the BINKS piston pump must be grounded before start-up according to accident prevention regulation "Static Electricity" ZH 1/200 of the relevant trade unions. An earth cable is included with delivery.

- 1. Securely clamp the earth cable onto the terminal of the high pressure filter or the middle part of the pump (for use without a high pressure filter).
- 2. Connect the other end of the earth cable with a suitable grounding device (for example in earth rail).

5.2 PREPARING THE BINKS PISTON PUMP FOR START-UP

Follow the steps listed below:

- 1. Check whether the separating agent chamber (Section 2 Short Description) is completely filled (order no. 0114-014871 for water-dilutable paint, order no. 0114-009433 for paint containing solvents).
- 2. Using the table in Section 2, High Pressure Filter Inserts, select a suitable filter insert and place it in the high pressure filter.
- 3. Connect a suitable spray material line to the connector on the high pressure filter.



The spray material lines from the BINKS program are identified on the screw connection by the relevant maximum permissible operating pressure and bursting pressure.

The lower value, the maximum permissible operating pressure, must be greater than the highest permissible operating pressure of the spray material pump (see Section 3).

- 4. Connect a spray gun designed for at least the maximum permissible operating pressure of the spray material pump to the spray material line.
- 5. Make certain the ball valve on the compressed air reducer is closed.
- 6. Connect the compressed air supply to the connector of the compressed air supply.
- 7. The piston pump is equipped with a maintenance unit which varies depending on type and design and consists of a filter/pressure reducer/oiler. The purpose of the maintenance unit is to clean liquid and solid ingredients from the compressed air, regulate the air pressure, and spread very finely atomised oil through the air to lubricate cylinders, valves and similar elements.

If a maintenance unit with oiler and water separator is installed, we recommend adjusting the amount of oil during operation to 1 drop per 10 double strokes (adjust metering screw). The number of drops can be seen in the inspection glass.



The filter cleans condensed water, pipe scale, particles of soot, etc. from the compressed air.

Drain condensed water which has collected regularly and clean the sinter filter if it is dirty.

Prior to initial start-up of the compressed air line, release pressure on the pressure reducer by unscrewing the regulating screw. Then screw in the regulating screw anticlockwise again until the pressure gauge on the pressure reducer indicates the desired working pressure. Note the minimum and maximum values as they appear in Section 3 Technical Data.

- 8. You can readjust the clamping screw (0114-016052) for pretensioning packings with the tool included with delivery (5-mm pin-punch) through the holes on the adapter housing (0114-016053).
- 9. Recommended setting ex works: Tighten the clamping screw (0114-016052) so that the pump starts up at 0.5 to 1.0 bar.
- 10. Check regularly (and after every extended period without use) to ensure the clamping screw (0114-016052) is properly seated. Use the tool included with delivery to check tightness. The screw should be snugly seated, but the pump must start up at 0.5 to 1.0 bar. If material still emerges even though the clamping screw is tightened, the packing must be replaced.

5.3 FLUSHING BINKS PISTON PUMPS

Wear protective goggles.

Every BINKS piston pump is checked with water for final monitoring and flushed with a nonresinous preservative oil. There is a possibility that residual moisture of a water emulsion may remain in the device during this flushing process.

Before starting up the system for the first time, the remains of this preserving fluid and any impurities, which are unavoidable when the system is being assembled, must be thoroughly flushed out.

Followed these steps:

- 1. Prepare the BINKS piston pump for start-up as described in Section 5.2.
- 2. Close the high pressure filter relief valve.
- 3. Immerse the spray material pump or intake system in the container with solvent.
- 4. Guide the return flow of the high pressure filter into the container with solvent. Open the high pressure filter relief valve.
- 5. Open the ball valve and use the pressure control valve to adjust the compressed air supply to 1 bar. The spray material pump or intake system is now drawing in the solvent. The solvent flows back into the container through the high pressure filter, the high pressure filter relief valve, and the return flow.



- 6. Direct the spray gun into the container. Unlock the safety lever, activate the spray gun trigger, and close the high pressure relief valve. Then the solvent flows through the high pressure filter, spray material line, and spray gun back into the container. The flushing time depends on the length of the line and solubility of the material. We recommend performing a brief second flushing with "fresh" solvent.
- 7. Release the spray gun trigger.
- 8. Slowly increase the pressure on the pressure control valve to the maximum operating pressure (see Section 3 Technical Data). As you do so, observe all lines and plug or screw connections and check for leaks. If leaks occur in the system, take the BINKS piston pump out of operation immediately. Do not place the BINKS piston pump in operation again until the leak is eliminated.
- 9. Reduce the pressure on the pressure control valve of the pressure reducer again and close the ball valve.
- 10. Make certain the return flow is always directed into the solvent container. Open the high pressure valve carefully to reduce the pressure in the spray material pump and high pressure filter.
- 11. Direct the spray gun into the container with solvent and activate the trigger to release any pressure that may still remain in the spray material line and spray gun.



If you will be working with water-dilutable spray material, the BINKS piston pump must be flushed again with water extremely thoroughly before start-up.

5.4 PREPARING AND ADJUSTING SPRAY MATERIAL

To achieve a problem-free surface, working with no faults, special care must be taken in setting up paints and lacquers (please consult with the material manufacturer).

If dilution is required, the spray material must be diluted before spraying work begins with the solvent recommended by the supplier. Add enough thinner so that the spray material runs off the stirring stick readily after sufficient stirring. To eliminate all uncertainty, we recommend avoiding an immersion measuring cup which indicates by the time it takes for the spray material to run out whether the spray material is still too thick and more thinner must therefore be added. Figures collected through experience have shown that the time it takes for paints and lacquers to run through is 18 to 22 DIN4 sec. For effect lacquers and coating fill materials, it may be 25 to 50 DIN4 sec. These values refer to DIN EN ISO 2431 and are determined at a temperature of 20 °C. Generally lacquer and paint manufacturers specify the most favourable spray consistency for their products. When using motor-driven agitators, make certain no air bubbles form in the spray material.



The measurement process is performed as follows:

Immerse the measuring cup into the paint or lacquer that has been adjusted to spray consistency until the cup is full to the brim. To measure, remove the immersion measuring cup quickly and count the seconds until the completely full content of the cup has run out through the 4-mm nozzle, i.e. until the time when a break is discerned in the paint that is draining out.

Count the number of seconds on a wrist watch or measure the time with a stop watch. For example, if a consistency of 19 DIN4 sec. is specified, but the result of the measurement is 24 DIN4 sec., an appropriate amount of additional thinner must be added and the measurement repeated.

We recommend cleaning the immersion measuring cup immediately after use so that it can be used again for the next measurement.

Because the BINKS piston pump uses two filters, an intake filter and a high-pressure filter, there is no need to filter the spray material before processing.

For especially high-quality lacquer jobs, an additional gun filter available as a BINKS accessory can be used.

5.5 START-UP

- 1. Prepare the BINKS piston pump for start-up as described in Section 5.2. If necessary, flush as described in Section 5.3.
- 2. Close the high pressure filter relief valve.
- 3. Immerse the spray material pump or intake system into the spray material being processed.
- 4. Guide the return flow of the high pressure filter into the container. Then open the high pressure filter relief valve.
- 5. Open the ball valve and use the pressure control valve to adjust the compressed air supply to 1 bar. Then the spray material pump draws in spray material. The spray material flows back into the container through the high pressure filter, the high pressure filter relief valve, and the return flow.
- 6. Direct the spray gun into the container. Unlock the safety lever on the spray gun. Activate the spray gun trigger and close the high pressure relief valve. Then the spray material flows through the high pressure filter, spray material line, and spray gun back into the container.
- 7. Release the spray gun trigger and adjust the operating pressure on the pressure release valve of the pressure reducer.

Before performing coating work, we recommend spraying a sample (for example on cardboard or wood). Work on the object being processed should not begin until satisfactory results are achieved with the sample. Make certain that coating is applied evenly to the sides and edges of the object being coated.



5.6 WORK INTERRUPTIONS

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When processing 2-K spray material, the set pot life must be noted and precisely observed. Within this time, the device must be carefully cleaned and flushed with the recommended solvent. There must be no residue in the spray material pump, high pressure filters, or spray gun.

In case of work interruptions, lock the safety lever of the Airless gun.

For work interruptions of 10 to 30 minutes, please follow these instructions:

Wear protective goggles.

- 1. Lock the safety lever on the spray gun.
- 2. Lock the compressed air supply by closing the ball valve.
- 3. Open the high pressure release valve briefly, making certain as you do so that the return flow is not directed against other persons or yourself. Continue until pressure is reduced. Than close the high pressure release valve again.
- 4. Clean residue of the spray material off the outside of the air cap and/or Airless nozzle.

6. Taking the Piston Pump out of Operation

After work is complete, the BINKS piston pump must be thoroughly cleaned. Paint residue must never be left to dry in the device. Use a solvent corresponding to the spray material in use to clean the BINKS piston pump.

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Wear protective goggles.

- 1. Close the ball valve for the compressed air supply.
- 2. Make certain the return flow is always directed into the spray material container. Open the high pressure valve carefully to reduce the pressure in the spray material pump and high pressure filter.
- 3. Direct the spray gun into the container with spray material and activate the trigger to release any pressure that may still remain in the spray material line and spray gun.
- 4. Lock the safety lever on the spray gun.
- 5. Remove the spray material pump or intake system from the spray material.



7. Cleaning the BINKS Piston Pump

Residue of spray material or solvent must never under any circumstances be allowed to enter the soil or sewer system.

Wear protective goggles.

- 1. Remove residue of spray material from the outside of the spray material pump or intake system and add it to the solvent belonging to the spray material.
- 2. Remove and clean the air cap, nozzle, or nozzle system as described in separate instructions for the spray gun. We recommend storing the nozzle or nozzle system in appropriate solvents.
- 3. Release the safety mechanism on the spray gun without air cap/nozzle, but with nozzle system or spray guard, and activate the spray gun trigger lever. Close the high pressure release valve, adjust the compressed air supply to max. 2.0 bar, and slowly open the ball valve so that the spray residue in the high pressure material line, high pressure filter, spray gun, and spray material pump can flow out of the spray gun and into an open collecting container. Leave the spray gun open until the remaining spray material is flushed out with the solvent.
- 4. Flush the entire system for several minutes with solvent in the circuit until solvent is emerging cleanly and with no problems from the spray gun. Turn off the compressed air with the ball valve and lock the spray gun.
- 5. Clean the outside of the spray gun thoroughly and check the pistol grip filter if there is one.
- 6. Clean the filter insert in the high pressure filter.
- 7. Clean the intake filter in the intake system.
- 8. We recommend always having the system filled with liquid.

If the BINKS piston pump is taken out of operation for an extended period of time, we recommend preserving the BINKS piston pump. To preserve the BINKS piston pump, flush with a silicon-free oil as described in Section 5.3.



8. Faults, Possible Causes, and Remedies

If the device should fail to perform as it should, please contact your specialsed dealer or the manufacturer of the device, who will be able to perform repairs requiring specialised knowledge.

Type of damage	Damage appears as	Possible cause	Remedy
BINKS piston pump does not start pumping.	Spray material pressure drops.	No compressed air.	Check the compressed air supply.
	BINKS piston pump does not start up.	Nozzle on the spray gun is clogged.	Clean or replace nozzle.
Constriction of cross section.		Hose line kinked, pressure regulator dirty.	Check lines. Clean compressed air valve.
	Air motor control locked.	Compressed air not clean.	Filter compressed air.

8.1 COMPRESSED AIR SUPPLY COMPONENT GROUP

8.2 COMPRESSED AIR DRIVE AND CONTROL COMPONENT GROUP

Type of damage	Damage appears as	Possible cause	Remedy
Works irregularly, stroke rate drops, compressed air drive stops	Control piston faulty.	Wear. Foreign object in control unit.	Replace parts. Remove foreign object, replace faulty parts.
Compressed air drive frozen.		Compressed air too moist. Condensed water in the compressed air supply. Stroke frequency too high.	Install water separator. Check compressor. Use smaller spray nozzle. Change operating conditions. Install oiler. Reduce compressed air.



8.3 MATERIAL PUMP COMPONENT GROUP

Type of damage	Damage appears as	Possible cause	Remedy
Material comes out of the rinsing agent chamber.		The upper packing of the spray material pump is faulty.	Tighten the clamping screw with the tool until no more material emerges, but not enough to block the pump. If material continues to emerge, the packing should be replaced.
BINKS piston pump continues running.	BINKS piston pump continues to run despite spray stop.	The lower packing of the spray material pump is faulty.	Replace the packing of the spray gun pump.
BINKS piston pump	Base valve or piston	Wear.	Replace parts.
downward stroke.	tano laaky or jammou	Dried-on material.	More thorough cleaning required.
BINKS piston pump	Base valve or piston	Wear.	Replace parts.
upward stroke.	i and lading of jummou.	Dried on material.	More thorough cleaning required.
Spray material emerges on the piston.	Grooves in the glide surfaces.	Wear.	Replace parts.

8.4 SUCTION SYSTEM COMPONENT GROUP

Type of damage	Damage appears as	Possible cause	Remedy
BINKS piston pump works irregularly.	Intake strainer clogged.	Spray material dirty.	Clean or replace intake strainer.
BINKS piston pump running, but not pumping.	No intake output.	Intake filter dirty. Base valve ball jammed in the valve seat. Intake system not screwed in correctly; spray material pump drawing air, screw in correctly.	Clean. Make functional.



9. Operating Instruction

Depending on the type of use and installation location, the operator must specify additional information for safe operation of BINKS piston pumps based on the Operating Instructions in the employee's language. These operating instructions must be kept in a suitable location at the work site and employees must be informed of their availability.

10. Testing Requirement

According to accident prevention regulations for liquid jet sprayers ZH 1/406 of the relevant trade unions, spray paint devices must be inspected as needed, but at least every 12 months by an expert to determine whether they are still capable of operating safely. If devices have been taken out of service, the check can be delayed until the next time the system is started up. The operator is required to register the system for a test. The results of the test must be kept in writing.

An expert is someone who on the basis of his or her training and experience has sufficient knowledge in the area of liquid jet sprayers and with relevant governmental labour safety requirements, accident prevention requirements, regulations, and generally recognised rules of technology to be able to evaluate whether liquid jet sprayers are in safe operating condition.

The contractor (operator) must ensure that written records of test results are made for each liquid jet sprayer and kept until the next test. We have prepared a pre-printed form entitled "Test Protocol for Spray Systems" for you for this purpose. Please duplicate this form as needed.

You must also ensure that the Record of Tests is available at the location where the liquid jet sprayer is used. A copy of the test protocol or a test sticker is sufficient for this purpose. We also ask you to enter the test record, date, and expert in the "Test Records" table.



11. Test Protocol

for spray systems

for safety test by an expert according to Regulations VBG 87 "Working with Liquid Jet Sprayers" of the relevant commercial trade unions

ITW Oberflächentechnik GmbH & Co. KG							
Ju		Jstus-von-Liebig-Strasse 31			Date:		
NACE RINKS		D-63128 Dietzenbach					
		none +49 (0) 6074 / 403-1			Increator		
DEALER STAMP:	I d/	ι τη σ	ADDR	ESS OF OPERATO	R:		
			Name		<u></u>		
			Street				
			City/po	ostal code:			
			Conta	ct partner:	Phone:		
Tested device:							
Manufacturer:			De	evice no.:			
Times			V				
Type:			re	ear of manufacture: .			
O Spray material pump			0	Pump support ch			
O Spray material pump			0	Fump support on	Tripod O		
O Spray material line					Wall holder O		
Tested parts		Meets		Not tested	Does n o t	Retrofitting	
		requiren	nents		meet require-	recommended	
		•			ments		
General status of the system							
Liquid jet sprayer							
Device rating plate							
Safety valve							
Pressure measurement fitting							
Pressure relief valve							
Liquid jet sprayer with heater							
Temperature limiting control							
Temperature display							
Spray mechanism							
Identification of max pressure							
Identification of device no .:							
Functional capability							
Safety equipment							
Hoses and fittings							
Identification of hose							
Identification of fitting							
<u>Earth</u>							
between components							
Complete system							
<u>Resistance measurement (1 MΩ)</u>							
Operating Instruction							
<u>Function of the entire system</u>							
Operator instructions							
Technical status							
Safety-related Status							
Health and safety protection mech	anısm						
Overall evaluation of inspection							
INOTES:							



Record of Tests

Test protocol no.	Test date	Expert		
		Company	Name	

12. Spare Parts Lists















	Luitmotor / air motor Livi 70/75							
Pos.	ArtNr.	Bezeichnung	Description		Stück Pcs.	D/R		
	ł	ł						
	0114-020487	Luftmotor LM 70/75	air motor LM 70/75					
1	0114-014182	Zylinderschrauhe	SCIEW		1			
2	0114-013442	Deckel knl	cover ass		1			
2	0114-011586	Führung	quide		1			
2.1	0114-014300	Dämpfungsscheibe	dampening spacer		1	R		
4	0114-014345	Zackenring	serregated washer		1	R		
5	0114-014301	Dämpfungsscheibe	dampening spacer		1	R		
6	0114-014298	Zanfen	holt		1			
7	0114-014295	Scheibe	spacer		1			
8	0114-014341	Mitnehmer knl	carrier ass	v	1			
9	0114-014584	7vl Schraube	SCIEW	Ů	4	R		
, 10	0114-014304	Dämpfungsscheibe	dampening spacer		1	R		
10	0114-014302	Stauarkalban knl	control niston ass	v	1	D		
11	0114-014340	Obortoil kol	cullinder head ass	v	1	ĸ		
12	0114-013443	Dämmalatta	cyllinder fieldd ass.		1			
13	0114-014306		dampening plate		1	ĸ		
14	0114-014367	Gew.Stift	threaded pin		2			
15	0114-014163	Mutter	nut		2			
16	0114-014716	Mini Sicherheitsventil 5 bar	safety valve 5 bar		1	_		
17	0114-014296	Bundbuchse	shoulder bush	V	1	R		
18	0114-014307	Si-Ring	retaining ring		1	R		
19	0114-014409	Scheibe	spacer		1			
20	0114-013956	Nutring	u-seal	V	1	D/R		
21	0114-014305	Schnepper	toggle	V	2			
22	0114-014340	Schnepperlager	toggle bearing	V	2			
23	0114-014032	Druckfeder	spring	v	2			
24	0114-014297	Lagerbuchse	bearing bush		2			
25	0114-013955	O-Ring	o-rin	v	1	D/R		
26	0114-014764	Kolbenplatte	piston plate		1			
27	0114-013953	O-Ring	o-ring		1	D/R		
28	0114-014765	Führungsring	quide ring		1	57.1		
20	0114-014766	Scheibe	spacer		1	R		
20	0114-014700	Umsteuerachse knl		v	1	D		
20 21	0111.014410	Motorachso	motor avle	v v	1			
31 22	0114-014412				ו ר			
J∠ 22	0114-013707	Oring	oring	V.	<u>∠</u> л			
21 23	0114-014300	Belüftungsrohr	air inlet nine	V I	4 0	UIR		
34 25	0114-014413	Zylinder	all inter pipe		2 1			
24			rotaining ring		1			
30 27	0114-014300	Si-Killy Eübrungsbuches kol			1			
37 38	0110-013444	Unterteil kpl.	bottom cpl.	V	1	איש		
	0114-018645	Dichtungssatz	seal kit			ם		
	0114-021210	Renaratursatz	renair kit			R		
	0117-021210	Varschlaißtail	wearing part	V				
		Verschleißteil	wearing part	V				

.







Pos.ArtNr.BezeichnungDescription10114-016110Materialpumpe MP 150/75material pump MP 150/7510114-014006O-Ringo-ringV20114-014161Sicherungsfederspringv30114-014314Anzugringconnecting ringV40114-014314Anzugringconnecting ringv50114-014364Sicherungsfederscrewv50114-014364Sicherungsringretaining ringv6DIN934M5Mutternutnut70114-009743Federringringv80114-014167U-Scheibediscscrew9ZZ-1892-DSchraubescrewscrew100114-014165U-Scheibediscadaptor ring110114-01654Adapter Flanschadaptor ringadaptor housing130114-01653Adapter Gehäuseadaptor housingadaptor housing15DIN912M8X50Schraubescrewscrew	Stück Pcs.	R									
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0114-016110 Materialpumpe MP 150/75 material pump MP 150/75 1 0114-014006 O-Ring o-ring V 2 0114-014161 Sicherungsfeder spring V 3 0114-014314 Anzugring connecting ring V 4 0114-014314 Anzugring connecting ring V 5 0114-014364 Sicherungsring retaining ring Nutter 6 DIN934M5 Mutter nut Nuter Nut 7 0114-009743 Federring ring Screw Screw Schraube screw 8 0114-014167 U-Scheibe disc Screw Schraube screw 10 0114-014165 U-Scheibe disc Screw Schraube screw Screw Schraube screw Screw Screw Schraube Screw Screw Screw Screw Screw Schraube Screw Screw Screw Screw Screw Schraube Screw <t< td=""><td></td><td>-</td></t<>		-									
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14 0114-010055 Adapter Genause adapter nousing 15 DIN912M8X50 Schraube screw 16 0114-016052 Spannschraube screw	1										
16 0114-016052 Snannschraube screw	3										
	1										
17 0114-016051 Gehäuse housing	1										
18 0114-014750 Rückschlagventil backflow valve	1										
19 0114-013952 Dichtung gasket V	1	R									
20 41-1757 Dichtung gasket V	1	R									
21 0114-016049 Stehbolzen threaded bolt	3										
22 0114-016055 Zylinderrohr cylinder tube	1										
23 0114-016056 Kolben piston	1										
24 0114-014206 Federring springring	3										
25 0114-014415 Mutter nut	3										
26 41-1184 Kugelsitz ball seat	1										
27 20-4208 Kugel ball V	1	R									
28 0114-016048 Spannmutter nut	1										
29 41-1251 Stützring guiding ring	1	R									
30 101-1610 Manschette UHMW Seal UHMW V	2	R									
31 41-1242 Manschette PTFE seal PTFE V	3	R									
32 41-10265 Adapter adaptor	1	R									
33 41-2545 Platte plate	1										
34 41-1153 Manschette seal V	1	R									
35 41-2547 Ring ring	1										
36 0114-016047 Mutter nut	1										
37 0114-016112 Distanzstück spacer	1	R									
37.1 0114-016113 O-Ring für Distanzstück O-ring for spacer	1	R									
38 41-1177 Käfig cage	1										
39 41-1178 Kugelsitz ball seat	1										
40 20-5959 Kugel ball V	1	R									
41 41-1747 Bodenventil bottom valve	1										
42 0114-016050 Reduziernippel connecting nipple											
0114-016074 Reparatursatz repair kit		R									
Verschleißteil wearing part V											
		1 1									











ERSATZTEILLISTE / SPARE PARTS LIST

S BINKS



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Ersatzteile Fahrgestell / spare parts trolley					
Pos.	ArtNr.	Bezeichnung	Stk.	Description	
			pcs.		
	0114-014614	Fahrgestell Typ 02		trolley type 02	
4	0114 014/40				
1	0114-014640 0114-014057	Gestell Rad	1	Irame wheel	
5	0114-014795	Wandhalter kpl. bestehend aus:	1	wall holder cpl.	
	0114-019005	Wandhalter	1	wall holder	
	0114-014164	Mutter	4	nut	
	0114-014165	U-Scheibe	4	washer	
,	0114-014216	Schraube	4	screw	
6 7	0114-014164	Mutter	4	nut	
/ 8	0114-014105 0114-014170	Schraube	4 1		
0	0114-014170	Schidube	7	301000	



	Ersatzteile Wandhalter / spare parts wall bracket					
Pos.	ArtNr.	Bezeichnung	Stk. pcs.	Description		
	0114-014795	Wandhalter Typ 02		wall bracket assy. type 02		
	0114-019005	Wandhalter	1	wall bracket		
	0114-014216	Schraube	4	screw		
	0114-014164	Skt.Mutter	4	nut		



Druckregler / air regulator G 3/8" Aircombi				
	0114-009350	Druckregler Aircombi		air pressure regulator Aircombi
Pos.	ArtNr.	Bezeichnung		Description
1 2 3 4 5 6 7	0114-13531-01 0114-009164 0114-009048 0114-009049 0114-014538 0114-021608 0114-014048	Druckluftregler kpl. Winkel Einstecknippel T-Stück Doppelnippel Kugelhahn Manometer	2 1 1 1 1 2	air pressure regulator cpl. elbow nipple T-piece nipple relief valve gauge



Druckregler / air regulator G 3/8" Airless				
	0114-013531	Druckregler Airless		air pressure regulator Airless
			10 200 7 210	3
Pos	Art	Bezeichnun		Descriptio
1 1.1 1.2 1.3 2 3 4	0114-13531-01 0114-014048 0114-020295 0114-014597 0110-009091 0114-014538 0114-021608	Druckluftregler kpl. Manometer Druckreglergehäus Knebelschraube mit Mutter Einstecknippel Doppelnippel Kugelhah	1 1 1 1 1	air pressure regulator cpl. gauge pressure regulator housing t-handle with nut nipple double nipple relief pipe

Vorbehaltl. Techn.



Ersatzteile HD-Filter 03 / spare parts HP-filter 03					
Pos.	ArtNr.	Bezeichnung	Stück Pcs.	Description	
	0110 000100				
	0110-009130	HD-Filter 03 kpl. mit Sieb 100 M		HP-filter cpl. + filter insert 100 m	
1	0114-016061	Dichtung	1	gasket	
2	0114-016060	Feder für Siebeinsatz klein	1	spring for filter insert small	
3	0110-009131	Siebeinsatz 50 M, SS		filter insert 50 mesh, SS	
	0110-009132	Siebeinsatz 100 M, SS *	1	filter insert 100 mesh, SS	
	0110-009133	Siebeinsatz 150 M, SS		filter insert 150 mesh, SS	
	0110-009134	Siebeinsatz 200 M, SS		filter insert 200 mesh, SS	
4	0114-014916	Siebeinsatz klein 30 M, blau		filter insert small 30 mesh, blue	
	0114-014887	Siebeinsatz klein 50 M, orange		filter insert small 50 mesh, orange	
	0114-0148/6	Siebeinsatz klein 70 M, gelb		filter insert small 70 mesh, yellow	
	0114-0148/5	Siebeinsatz klein 100 M, schwarz	I	filter insert small 100 mesh, black	
	0114-0148/7	Siebeinsatz klein 150 M, rot		filter insert small 150 mesh, red	
F	0114-014878	Siebellisätz kielli 200 M, weiss	1	inter insert small 200 mesh, white	
5 6	0114-016038		1	Intel screwing	
0 7	0114-010039	Frdungsklommo	1	outlet screwing	
/ Q	0110-009005	Ablassyorschraubung	1	grounding clamp	
0	0114-019090	Kuqelbahn	1	ball valve	
7 10	0114-019091	Schlauchninnel	1	hose connection	
10	0110-009103	Rücklaufschlauch	1	return flow hose	
* standard	0110 007100	Ruokaaloonaaon	•		
$7 - \frac{3}{2}$					



Ersatzteile Ansaugleitung / spare parts suction system						
Pos.	ArtNr.	Bezeichnung	St. Pcs.	Description		
	011/-01/8//	Ansaugsystem NW 20 flexibel		suction system DN 20 flexible		
1 2 3 4 5	0114-013801 0114-018506 0114-013734 0114-014112 0114-014068 0114-014221 0114-014080	Reduziernippel Ansaugleitung NW 20 Siebgehäuse Materialsieb D 70 M 20 Materialsieb D 70 M 50 Materialsieb D 70 M 70 Sicherungsring	1 1 1 1	reducing nipple suction hose DN 20 filter housing strainer 20 mesh strainer 50 mesh strainer 70 mesh retaining ring		



13. Recommended Gun

High-pressure pump	Max. pressure range of pump (bar)	Recommended gun	Max. pressure range of gun (bar)
HP 3/28	224	HAP 50	500
Airless unit	224	Airless 1	420
HP 3/28	224	AA 4000	275
Aircombi unit	224	DSG-2000	250
LP 10/4	20	AA 4000	275
Piston pump	20	DSG-2000	250
HP 4/20	100	HAP 50	500
Airless unit	100	Airless 1	420
HP 4/20		AA 1500	105
Aircombi unit	100	AA 4000	275
		DSG-2000	250
HP 4/32	256	HAP 50	500
Airless unit	200	Airless 1	420
HP 4/32	256	AA 4000	275
Aircombi unit	200	DSG-2000	250
HP 6/34	272	HAP 50	500
Airless unit		Airless 1	420
HP 6/34	272	AA 4000	275
Aircombi unit	212	7014000	215
HP 6/60	390	HAP 50	500
Airless unit		Airless 1	420
HP 10/32	256	HAP 50	500
Airless unit	200	Airless 1	420
HP 10/32	256	AA 4000	275
Aircombi unit		7.0110000	210
HP 20/66	429	HAP 50	500
Airless unit	120	1	
HP 25/48	384	HAP 50	500
Airless unit	001	Airless 1	420
HP 30/32	256	HAP 50	500
Airless unit	200	Airless 1	420
HP 30/75	474	HAP 50	500
Airless unit	., .		000



EC DECLARATION OF CONFORMITY

ITW Finishing Systems and Products

Ringwood Road, Bournemouth BH11 9LH, England

As the representative/manufacturer of the items listed below:

Low- and High-Pressure Paint Pump Models BINKS

LP 10/4, HP 4/20, HP 3/28, HP 4/32, HP 10/32, HP 6/34, HP 25/48, HP 6/60, HP 20/66, HP 30/32, HP 30/75

Declare, under our sole responsibility, that the equipment to which this document relates is in conformity with the following standards or other normative documents:

EN 13463 1:2009, EN 13463 5-2005, EN 982 :1996 + A1 :2008 and EN 12621 :2006

And thereby conform to the protection requirements of Council Directive 98/37/EC relating to *Machinery Safety Directive* and council Directive 94/9/EC relating to *Equipment and Protective Systems intended for use in Potentially Explosive Atmospheres;*

C € 🐼 2 II Gc T4

Issued on: 23/02/10

Authorised by:

Dave Smith General Manager



13. WARRANTY STATEMENT

5 – Year HP Piston Pump Warranty

All Piston Pumps are backed by our 5-year warranty, as a measure of the confidence we place in the quality of these products - a confidence that you can share.

BINKS HP Piston Pumps Five-Year Warranty

ITW Finishing Systems and Products ("ITW") warrants to the original use purchaser of ITW manufactured HP Piston Pumps that ITW will repair or replace, free of charge, including return shipping costs within Europe, any such products which under normal use and service proves defective in material or workmanship, as determined by ITW inspection, within FIVE YEARS from date of shipment from ITW, provided the claimed defective product, or part thereof, is promptly returned to the ITW factory or ITW authorised warranty repair centre with transportation pre-paid.

This warranty does not cover failure of parts or components due to normal wear or damage, which in the judgement of ITW, arises from misuse, abrasion, corrosion, negligence, accident, substitution of non ITW parts, faulty installation or tampering.

If ITW inspection discloses no defect in material or workmanship, repair or replacement and return will be made at customary charges.

This warranty covers ITW manufactured Piston Pumps manufactured and shipped on or after January 1st, 2004.

Equipment not covered by this ITW warranty such as accessories or components of equipment (switches, connections, fittings, hoses) which are sold by ITW are subject to the ITW Standard Terms of Sales & Delivery and the terms of the individual manufacturer.

The foregoing warranty supersedes, voids and is lieu of all or any other ITW warranties, express or implied, and no warranty or merchantability or fitness for particular purpose is intended or made. ITW's sole obligation and the original use purchaser's role remedy is as stated above and in no event shall ITW be liable for any special, direct, indirect, incidental, consequential or other damages, or expenses of any nature including, without limitation, loss of profits or production time incurred by the original use purchaser or any other party.

Authorised by:

David Smith General Manager