

Translation of the Original **Operating Manual**

Wildcat	Puma
10-70	28-40
18-40	15-70
	21-110
	15-150
Leopard	Jaguai

35-70	75-150
35-150	
48-110	

Version 01/2013

IceBreaker Piston Pumps Flow Rate 40 cm³-150 cm³



(€ (Ex) || 2G ||B c T3 X

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1 ABOUT THESE INSTRUCTIONS

1.1 PREFACE

The operating manual contains information about safely operating, maintaining, cleaning and repairing the device.

The operating manual is part of the device and must be available to operating and service staff.

Operating and service personnel should be instructed according to the safety instructions. The device may only be operated in compliance with this operating manual.

This equipment can be dangerous if it is not operated according to the definitions in this operating manual.

1.2 WARNINGS, NOTICES AND SYMBOLS IN THESE INSTRUCTIONS

Warning instructions in this operating manual highlight particular dangers to users and device and state measures for avoiding the hazard. These warning instructions fall into the following categories:

Danger - immediate risk of danger. Non-observance will result in death or serious injury.



DANGER

This information warns you of a hazard! Possible consequences of not observing the warning instructions. The signal word indicates the hazard level. → The measures for preventing the hazard and its consequences.

Warning - possible imminent danger. Non-observance may result in death or serious injury.

Caution - a possibly hazardous situation. Non-observance may result in minor injury.

Notice - a possibly hazardous situation. Non-observance can cause material damage.



This information warns you of a hazard! Possible consequences of not observing the warning instructions. The signal word indicates the hazard level.

The measures for preventing the hazard and its consequences.



\land CAUTION

This information warns you of a hazard! Possible consequences of not observing the warning instructions. The signal word indicates the hazard level.

→ The measures for preventing the hazard and its consequences.

NOTICE

This information warns you of a hazard! Possible consequences of not observing the warning instructions. The signal word indicates the hazard level.

→ The measures for preventing the hazard and its consequences.

Note - provides information about particular characteristics and how to proceed.

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1.3 LANGUAGES

The operating manual is available in the following languages:

Language	Order No.	Language	Order No.	Language	Order No.
German	2333537	English	2333538	French	2333539
Italian	2333540	Spanish	2333541	Japanese	233

The corresponding service instructions are available under the following order number:

Language	Language Order No.		Order No.	
German	2335993	English	2335994	

1.4 ABBREVIATIONS IN THE TEXT

Stk	Number of pieces
Pos	Position
К	Marking in the spare parts lists
Order No.	Order number
No.	Order number (shortened form)
DH	Double stroke
SSt	Stainless steel
2K	Two components

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2 CORRECT USE

2.1 DEVICE TYPES

Pneumatic pump with spraypack:

Wildcat	Puma	Leopard	Jaguar
10-70	28-40	35-70	75-150
18-40	15-70	35-150	
	21-110	48-110	
	15-150		

2.2 TYPE OF USE

The device is suitable for processing liquid materials like paints and varnishes in accordance with the classification into explosion classes IIA or IIB.

2.3 USE IN AN EXPLOSION HAZARD AREA

The pneumatic pump can be employed in explosion hazard zones (Zone 1).

2.4 SAFETY PARAMETERS

WAGNER accepts no liability for any damage arising from incorrect use.

- → Use the device only to work with the materials recommended by WAGNER.
- \rightarrow Only operate the device as a whole.
- → Do not deactivate safety fixtures.
- → Only use WAGNER original spare parts and accessories.

The pneumatic pump may only be operated under the following conditions:

- \rightarrow The operating staff must be trained on the basis of this operating manual.
- \rightarrow The safety regulations listed in this operating manual must be observed.
- → The operating, maintenance and repair information in this operating manual must be observed.
- → The statutory requirements and accident prevention regulation standards in the country of use must be observed.





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2.5 PROCESSIBLE MATERIALS

→ Fluid materials like paints and varnishes.

NOTICE

Abrasive materials and pigments!

Greater wear of the parts carrying the material.

- → Use the application-oriented model (flow rate/cycle, material, valves, etc.) as indicated in Section 5.3.3.
- → Check if the fluids and solvents used are compatible with the pump construction materials as indicated in section 5.3.1.

2.6 REASONABLY FORESEEABLE MISUSE

The following is prohibited:

- → coating work pieces which are not grounded,
- → unauthorized conversions and modifications to the pneumatic pump,
- \rightarrow processing dry or similar coating materials, and
- → using defective components, spare parts or accessories other than those described in chapter 10 of this operating manual.

The forms of misuse listed below may result in health issues and/or equipment damage:

- → use of powder as coating material,
- → incorrectly set values for processing.

Wagner pneumatic pumps are not designed for pumping food.

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2.7 RESIDUAL RISKS

Residual risks are risks which cannot be excluded even in the event of correct use. If necessary, warning and prohibition signs at the relevant points of risk indicate residual risks.

Residual risk	Source	Consequences	Specific measures	Lifecycle phase
Skin contact with paints and cleaning	Handling of paints and cleaning agents	Skin irritations,	Wear protective	Operation,
agents		allergies	observe safety data sheets	maintenance,
				Disassembly
Paint in air outside the defined working	Painting outside the defined working	Inhalation of substances which	Observe working and operating	Operation,
area	area	are hazardous to health	instructions	maintenance

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3 IDENTIFICATION

3.1 EXPLOSION PROTECTION IDENTIFICATION

As defined in the Directive 94/9/EC (ATEX 95), the device is suitable for use in areas where there is an explosion hazard.

- (🤅 🐼 II 2G IIB c T3 X
- CE: European Communities
- Ex: Symbol for explosion protection
- II: Device class II
- 2: Category 2 (Zone 1)
- G: Ex-atmosphere gas
- IIB: Explosion group
- c: Constructional security
- T3: Temperature class: maximum surface temperature < 200 °C; 392 °F
- X: Special Notes (see Chapter 3.2)

3.2 IDENTIFICATION X

Maximum surface temperature

The maximum surface temperature of the piston pump can be reached if it runs dry.

- \rightarrow Ensure that the piston pump is filled with sufficient working or flushing agent.
- → Ensure that the separating fluid container is filled with sufficient separating fluid.

Ignition temperature of the coating material

→ Ensure that the ignition temperature of the coating material is above the maximum surface temperature.

Ambient temperature

→ The permissible ambient temperature is: +5 °C to +60 °C; +41 °C to 140 °F.

Medium supporting atomizing

→ To atomize the material, use only weakly oxidizing gases, e.g. air.



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4 GENERAL SAFETY INSTRUCTIONS

4.1 SAFETY INSTRUCTIONS FOR THE OPERATOR

- → Keep this operating manual at hand near the device at all times.
- → Always follow local regulations concerning occupational safety and accident prevention.

4.1.1 ELECTRICAL EQUIPMENT

Electrical devices and equipment

- → To be provided in accordance with the local safety requirements with regard to the operating mode and ambient influences.
- \rightarrow May only be maintained by skilled electricians or under their supervision.
- → Must be operated in accordance with the safety regulations and electrotechnical regulations.
- \rightarrow Must be repaired immediately in the event of problems.
- \rightarrow Must be decommissioned if they pose a hazard.
- → Must be de-energized before work is commenced on active parts. Inform staff about planned work. Observe electrical safety regulations.

4.1.2 PERSONNEL QUALIFICATIONS

 \rightarrow Ensure that the device is operated and repaired only by trained persons.

4.1.3 SAFE WORK ENVIRONMENT

- → Make sure that the floor in the area where you are working is electrostatically conductive in accordance with EN 61340-4-1. (The resistance value may not exceed 100 MOhm).
- → Ensure that all persons within the working area wear electrostatically conductive shoes. Footwear must comply with EN 20344. The measured insulation resistance may not exceed 100 MOhm.
- → Ensure that during spraying, persons wear electrically conductive gloves. The grounding takes place via the spray gun handle.
- → If protective clothing is worn, including gloves, it has to comply with EN 1149-5. The measured insulation resistance may not exceed 100 MOhm.
- → Paint mist extraction systems must be fitted on site according to local regulations.
- → Ensure that the following components of a safe working environment are available:
 material/air hoses adapted to the working pressure.
 - Personal safety equipment (breathing and skin protection).
- → Ensure that there are no ignition sources such as naked flames, sparks, glowing wires or hot surfaces in the vicinity. Do not smoke.





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4.2 SAFETY INSTRUCTIONS FOR STAFF

- → Always follow the information in these instructions, particularly the general safety instructions and the warning instructions.
- → Always follow local regulations concerning occupational safety and accident prevention.

4.2.1 SAFE HANDLING OF WAGNER SPRAY DEVICES

The spray jet is under pressure and can cause dangerous injuries. Avoid injection of paint or cleaning agents:

- \rightarrow Never point the spray gun at people.
- \rightarrow Never reach into the spray jet.
- → Before all work on the device, in the event of work interruptions and functional faults: - Switch off the energy/compressed air supply.
 - Relieve the pressure from the spray gun and device.
 - Secure the spray gun against actuation.

In the event of functional faults: remedy the fault as described in the "Trouble Shooting" chapter.

- → The liquid emitters are to be checked for safe working conditions by an expert (e.g. Wagner Service Technician) as often as necessary or at least every 12 months, in accordance with the guidelines for liquid emitters (ZH 1/406 and BGR 500 Part 2 Chapter 2.36).
 - For shut down devices, the examination can be suspended until the next start-up.
- → Carry out the work steps as described in Chapter "Pressure Relief / Work Interruptions":
 - if pressure relief is required.
 - if the spraying work is interrupted or stopped.
 - before the device is cleaned on the outside, checked or serviced.
 - before the spray nozzle is installed or cleaned.
- In the event of skin injuries caused by paint or cleaning agents:
- \rightarrow Note down the paint or cleaning agent that you have been using.
- → Consult a doctor immediately.
- Avoid danger of injury through recoil forces:
- \rightarrow Ensure that you have firm footing when operating the spray gun.
- → Only hold the spray gun briefly in a position.



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4.2.2 GROUNDING THE DEVICE

Depending on the electrostatic charge and the flow speed of the spray, an electrostatic charge may occur in the equipment. In the event of discharge, this may result in the formation of sparks or flames.

- \rightarrow Ensure that the device is grounded for every spraying operation.
- \rightarrow Ground the work pieces to be coated.
- → Ensure that all persons inside the working area are grounded, e.g. that they are wearing electrostatically conductive shoes.
- → Wear electrostatically conductive gloves when spraying. The grounding takes place via the handle of the spray gun.

4.2.3 MATERIAL HOSES

- \rightarrow Ensure that the hose material is chemically resistant to the sprayed materials.
- → Ensure that the material hose is suitable for the pressure generated in the device.
- → Ensure that the following information can be seen on the high pressure hose: - Manufacturer
 - Permissible operating overpressure
 - Date of manufacture
- → Make sure that the hoses are laid only in suitable places. In no case, should hoses be laid in the following places:
 - in high traffic areas,
 - on sharp edges,
 - on moving parts or
 - on hot surfaces.
- \rightarrow Make sure that the hoses are never used to pull or move the equipment.

 \rightarrow The electrical resistance of the complete high pressure hose must be less than 1 MOhm. Several liquids have a high expansion coefficient. In some cases its volume can rise with consequent damage to pipes, fittings, etc. and cause fluid leakage.

When the pump sucks liquid from a closed container, ensure that air or suitable gas can enter the container to avoid a vacuum being generated in the container itself. Thus a negative pressure is avoided. The vacuum could implode the container (squeeze) and can cause it to break. The container would leak and the liquid would flow out.

The pressure created by the pump is a multiplication of the inlet air pressure.



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4.2.4 CLEANING

- \rightarrow De-energize the device electrically.
- → Disconnect the pneumatic supply line.
- \rightarrow Relieve the pressure from the device.
- → Ensure that the flash point of the cleaning agent is at least 5 K above the ambient temperature.
- → To clean, use cloths and brushes moistened with solvent. Never use hard objects or spray on cleaning agents with a gun.
- → Non-combustible cleaning agents should preferably be used.

An explosive gas/air mixture forms in closed containers.

- → When cleaning devices with solvents, never spray into a closed container.
- \rightarrow Use only electrically conducting containers for cleaning liquids.
- \rightarrow The containers must be grounded.

4.2.5 HANDLING HAZARDOUS LIQUIDS, VARNISHES AND PAINTS

- → When preparing or working with paint and when cleaning the device, follow the working instructions of the manufacturer of the paints, solvents and cleaning agents being used.
- → Take the specified protective measures. In particular, wear safety goggles, protective clothing and gloves, as well as hand protection cream if necessary.
- \rightarrow Use a mask or a breathing apparatus if necessary.
- → For sufficient health and environmental safety: Operate the device in a spray booth or on a spraying wall with the ventilation (extraction) switched on.
- \rightarrow Wear suitable protective clothing when working with hot materials.

4.2.6 TOUCHING HOT SURFACES

- → Touch hot surfaces only if you are wearing protective gloves.
- → When operating the device with a coating material with a temperature of > 43 °C; 109.4 °F:
 - Identify the device with a warning sticker "Warning hot surface".

Order No.

9998910	Instruction sticker
	B

9998911 Protection sticker **Note:** Order the two stickers together.







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4.3 USE IN AREAS SUBJECT TO EXPLOSION HAZARDS

The pneumatic pump may be used in areas subject to explosion hazards. The following safety regulations must be observed and followed.

4.3.1 SAFETY REGULATIONS

Safe handling of WAGNER spray devices

Mechanical sparks can form if the device comes into contact with metal. In an explosive atmosphere:

- \rightarrow Do not knock or push the device against steel or rusty iron.
- \rightarrow Do not drop the device.
- \rightarrow Use only tools that are made of a permitted material.

Ignition temperature of the pumped material

→ Check that the ignition temperature of the pumped material is higher than the max. allowable surface temperature.

Medium supporting atomizing

→ To atomize the material, use only weakly oxidizing gases, e.g. air.

Surface spraying, electrostatic

→ Do not spray system parts with electrostatic.

Cleaning

If there are deposits on the surfaces, the device may form electrostatic charges. Flames or sparks can form during discharge.

- → Remove deposits from the surfaces to maintain conductivity.
- \rightarrow Use only a damp cloth to clean the device.

4.3.2 OPERATION WITHOUT FLUID

Avoid running the pump sucking air, without fluid inside. The air, combined with the vapor of flammable fluids, can generate internal areas with an explosion hazard. Periodically check that the pump is working regularly, paying special attention to the presence of air in the pumped fluid, which may be caused by damaged packaging.

- \rightarrow Avoid operating the pump with damaged packaging.
- \rightarrow Ensure that the separating fluid container is filled with sufficient separating fluid.







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5 DESCRIPTION

5.1 AREAS OF APPLICATION

5.1.1 CORRECT USE

The pneumatic piston pump is suitable for processing liquid materials according to Chapter 5.1.2.

5.1.2 PROCESSIBLE MATERIALS

Application	WILDCAT	PUMA	PUMA	LEOPARD	LEOPARD	JAGUAR
	18-40	28-40	15-70	35-70	35-150	75-150
	10-70		21-110		48-110	
			15-150			
Water-dilutable materials	*	*	*	*	*	*
Solvent based varnish and paints	*	*	*	*	*	*
Primers				*	*	*
Epoxy and polyurethane paints and		*		*	*	*
varnish, phenolic paints and varnish						
Liquid plastics	*		*	*	*	*
Wax based underside protection	*	*	*	*	*	×
Chemically aggressive materials that	*	*	*	*	*	*
attack hard metal seats						

Legend

✓ recommended → limited suitability

💊 less suitable

NOTICE

Abrasive materials and pigments!

Greater wear of the parts carrying the material.

→ Use suitable combinations of devices (packages, valves etc.)

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5.1.3 RECOMMENDED APPLICATION AREAS

Application	WILDCAT	PUMA	PUMA	LEOPARD	LEOPARD	JAGUAR
	18-40	28-40	15-70	35-70	35-150	75-150
	10-70		21-110		48-110	
			15-150			
Furniture industry	7	*	*	*	7	*
Kitchen manufacturers	7	*	×	*	7	*
Joinery	7	*	×		*	*
Window factories	•••		×	я	7	*
Steel fabrication	*		*	*	*	7
Construction of vehicles	7	*	×	*		
Shipbuilding	*	*	*			7

🖌 less suitable

Legend

✓ recommended → limited suitability

5.2 SCOPE OF DELIVERY

Pneumatic piston pump

Consists of:

- Fluid section
- Air motor
- Connection elements
- Air pressure regulator for air motor

The scope of delivery also includes:

Order No.:	9992504
see	Chapter 12
Order No.:	2333537
see	Chapter 1
	Order No.: see Order No.: see

The delivery note shows the exact scope of delivery.

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5.3 DATA

5.3.1 MATERIALS OF WETTED PARTS

Housing	Stainless steel
Piston	Stainless steel and hard chrome
Valve balls	Stainless steel
Valve seats	Carbide
O-rings	PTFE
Packings	Standard PE/ TG
	· · · · · · · · · · · · · · · · · · ·

PE = Ultra high molecular weight polyethylene

TG= PTFE with graphite

5.3.2 RECOMMENDED PACKINGS

WAGNER packings are manufactured in four different materials:

Code	Material	Color
L	Leather	dark brown
TG	PTFE with graphite	Black
PE	Ultra high molecular weight polyethylene	Transparent
т	PTFE	white

Each material has the following properties, which influence the packings:

	L	TG	PE	т
Mechanical stability	poor	good	good	poor
Friction coefficient	poor	very good	good	very good
Sealing force	good*	good	good	good
Chemical resistance	poor	good	very good	very good
Temperature resistance	good	poor - good	very good	poor

* for abrasive materials

Standard combinations

Standard pumps:	PE/TG
Heavy duty (high pressure) pumps:	PE/L
Hardener pumps in 2-component systems:	PE/T



5.3.3 TECHNICAL DATA

5.3.3.1 TECHNICAL DATA FOR WILDCAT AND PUMA

Description	dovisos	WILDCAT WILDCAT PUMA PUMA PU			PUMA	PUMA	
Description	devices	10-70	18-40	28-40	15-70	21-110	15-150
Pump ratio		10 :1	18:1	28:1	15 :1	21:1	15 :1
Volume flow per double stroke(DH)	cm³; cc	70	40	40	70	110	150
Maximum operating pressure	MPa	8	14.4	22.4	12	16.8	12
	bar	80	144	224	120	168	120
	psi	1,160	2,089	3,249	1,740	2,436	1,740
Maximum possible strokes in	DH/min	60	60	60	60	60	60
operation							
Minimum / maximum air inlet	MPa			0.25-0	.8		
pressure	bar			2.5-8	3		
	psi			36-11	6		
Ø air inlet connection (inside thread)	inch			G 1/2	<u>-</u>		
Minimum Ø of the compressed air supply line	mm; inch		9; 0.35				
Air consumption at 0.6 MPa; 6 bar;	nl	5.3		8.3		16.5	
87 psi per double stroke	scf	0.	0.19 0.29		29	0.58	
Air motor piston diameter	mm; inch	80;	3.2	100; 4			
Air motor piston stroke	mm; inch	75	; 3	75; 3		150; 6	
Sound pressure level at maximum	dB(A)	77	77	78	77	78	78
permissible air pressure*							
Sound pressure level at 0.6 MPa; 6 bar; 87 psi air pressure*	dB(A)	74	74	74	74	74	74
Sound pressure level at 0.4 MPa;	dB(A)	69	69	69	69	69	69
4 bar; 58 psi air pressure*							
Ø material inlet connection (outside thread)	mm		M 36x2				
Material outlet (outside thread)	mm	M 24x1.5					
Weight	kg; lb	kg; lb 17; 38 15; 33		16; 35	18; 40	28;	; 62
Material pH	рН	3.5 ÷ 9					
Maximum material pressure at	MPa	2					
pump inlet	bar	20					
	psi	290					
Material temperature	°C; °F		+5	÷ +80; +4	1 ÷ +176		
Ambient temperature	°C; °F		+5	÷ +60; +4	1 ÷ +140		
Allowable inclination for operation	<) °	± 10					

* A rated sound pressure level measured at 1 m distance, LpA1m according to DIN EN 14462: 2005. Reference measurements have been made by SUVA (Swiss accident insurance institute).

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5.3.3.2 MEASUREMENTS AND CONNECTIONS FOR WILDCAT AND PUMA

			DIIMA	DIIMA	DIIMA	DIIMA	
	10.70			15 70	21 110		
	10-70	18-40	28-40	15-70	21-110	15-150	
	mm; inch	mm; inch	mm; inch	mm; inch	mm; inch	mm; inch	
Α	736; 29	722;	28.4	736; 29	1034	; 40.7	
В			169	; 6.7			
С	~ 321; 12.6						
D	261.5; 10.3 336; 13.						
E	474.5; 18.7	460.5	474.5; 18.7	698;	27.5		
F	134; 5.3						
G	182; 7.2						
н	80; 3.2						
I	ø 25; ø 1						
J	M6						
К	M36x2						
L1	M24x1.5						
L2	G3/8"						
М	G1/2"						
Ν	G1/4"						
0	106; 4.2						
Ρ	96.5; 3.8						
Q	ø 9; ø 0.35						
R		ø 7; ø 0.28					
S			149	; 5.9			
Т			55;	2.2			



Wall mount



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5.3.3.3 TECHNICAL DATA FOR LEOPARD AND JAGUAR

Description	Units	s LEOPARD LEOPARD LEOPARD JA		JAGUAR	
		35-70 48-110 35-15		35-150	75-150
Pump ratio		35:1	48 :1	35:1	75:1
Volume flow per double stroke (DH)	cm³; cc	70	110	150	150
Maximum operating pressure	MPa	25	37	27	53
	bar	250	370	270	530
	psi	3,626	5,366	3,916	7,687
Maximum possible strokes in operation	DH/min	60	60	60	60
Minimum / maximum air inlet pressure	MPa	0.25-0.71	0.25-0.8	0.25-0.77	0.25-0.71
	bar	2.5-7.1	2.5-8	2.5-7.7	2.5-7.1
	psi	36-103	36-116	36-112	36-103
Ø air inlet connection (inside thread)	inch		G1/2" G1"		
Minimum Ø of the compressed air supply line	mm; inch		13; 0.51 25; 0.9		
Air consumption at 0.6 MPa; 6 bar; 87 psi per	nl	18.6	37.3		79.9
double stroke	scf	0.66	0.66 1.32 2.8		
Diameter piston of air motor	mm; inch		150; 6 220; 8.7		
Air motor piston stroke	mm; inch	75; 3 150; 6			
Sound pressure level at maximum permissible	dB(A)	77	78	80	83
air pressure*					
Sound pressure level at 0.6 MPa; 6 bar; 87 psi air pressure*	dB(A)	7	4	78	81
Sound pressure level at 0.4 MPa; 4 bar; 58 psi air pressure*	dB(A)	71	69	74	1
Ø material inlet connection (outside thread)	mm		M36	ix2	
Material outlet (outside thread)	mm		M24	x1.5	
Weight	kg; lb	26; 57 36; 79 53; 117			53; 117
Material pH	рН	3.5 ÷ 9			
Maximum material pressure at pump inlet	MPa	2			
	bar	20			
	psi	290			
Material temperature	°C; °F		+5 ÷ +80; +	41 ÷ +176	
Ambient temperature	°C; °F		+5 ÷ +60; +	41 ÷ +140	
Allowable inclination for operation	<) °	± 10			

*A rated sound pressure level measured at 1 m distance, LpA1m according to DIN EN 14462: 2005. Reference measurements have been made by SUVA (Swiss accident insurance institute).



🔨 WARNING

Outgoing air containing oil! Risk of poisoning if inhaled. Air motor switching problems.

→ Provide compressed air free from oil and water (quality standard 5.5.4 according to ISO 8573.1) 5.5.4 = 40 μ m / +7 / 5 mg/m³.

40 cm³–150 cm³

WÂGNER

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5.3.3.4 MEASUREMENTS AND CONNECTIONS FOR LEOPARD AND JAGUAR

	LEOPARD 35-70	LEOPARD 35-70 LEOPARD 48-110 LEOPARD 35-150				
	mm; inch	mm; inch	mm; inch	mm; inch		
Α	799; 31.5	1080	; 42.5	1200; 47.2		
В		240; 9.4				
С		~ 434; 17.1		~595; 23.4		
D	305; 12	380	; 15	516; 20.3		
E	490; 19.3	705;	27.6	684; 26.9		
F		192; 7.6		244; 9.6		
G						
н						
I		20x48; 0.8x1.9				
J		M8				
K						
L1	M24x1.5					
L2	G3/8"					
М			G1"			
N		-				
0		135.5; 5.3				
Р	111.5; 4.4			238; 9.4		
Q	ø 9; ø 0.35					
R		ø 9; ø 0.35				
S		167; 6.6		206; 8.1		
Т		30; 1.2		82; 3.2		





 $40 \text{ cm}^3 - 150 \text{ cm}^3$

OPERATING MANUAL



5.3.4 VOLUME FLOW

Wagner AL nozzles Volume flow* in I/min					_	
			at	at	at	
			7 MPa	10 MPa	15 MPa	
			70 bar	100 bar	150 bar	
Øinch	Ømm	Spray angle	1,015 psi	1,450 psi	2,175 psi	
0.007	0.18	40°	0.1650	0.2000	0.2400	
0.009	0.23	20-30-40-50-60°	0.2060	0.2500	0.3090	
0.011	0.28	10-20-30-40-50-60°	0.2950	0.3450	0.4260	
0.013	0.33	10-20-30-40-50-60-80°	0.4530	0.5280	0.6600	
0.015	0.38	10-20-30-40-50-60-80°	0.5770	0.6720	0.8130	
0.017	0.43	20-30-40-50-60-70°	0.7310	0.7860	1.0640	
0.019	0.48	20-30-40-50-60-70-80°	0.9260	1.0920	1.3700	
0.021	0.53	20-40-50-60-80°	1.1430	1.3600	1.6900	Wildcat 18-40
0.023	0.58	20-40-50-60-70-80°	1.3700	1.5900	2.0100	Puma 28-40
0.025	0.64	20-40-50-60-80°	1.6200	1.9100	2.4000	
0.027	0.69	20-40-50-60-80°	1.8300	2.1300	2.6800	Wildcat 10-70
0.029	0.75	60°	2.1900	2.5100	3.1700	Puma 15-70
0.031	0.79	20-40-50-60°	2.4000	2.7700	3.4900	Leopard 35-70
0.025	0.90	20-40-50-60°	3.2200	3.7400	4.6900	Leopard 35-150, 48-110
0.043	1.10	20-50°	5.0700	6.0400	7.4600	Puma 15-150, 21-110
						Jaguar 75-150
0.052	1.30	50°	5.1200	6.5000	7.5200	

*Volume flow refers to water.

Maximum ranges for continuous operation at 50 DH/min.

5.3.5 PERFORMANCE DIAGRAMS

Example



OPERATING MANUAL



Diagram for WILDCAT 18-40



A = 8 bar; 0.8 MPa; 116 psi air pressure B = 6 bar; 0.6 MPa; 87 psi air pressure C = 4 bar; 0.4 MPa; 58 psi air pressure



Diagram for WILDCAT 10-70

Stroke frequency DH/min

Water delivery rate

A = 8 bar; 0.8 MPa; 116 psi air pressure B = 6 bar; 0.6 MPa; 87 psi air pressure C = 4 bar; 0.4 MPa; 58 psi air pressure

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Diagram for PUMA 28-40



A = 8 bar; 0.8 MPa; 116 psi air pressure B = 6 bar; 0.6 MPa; 87 psi air pressure C = 4 bar; 0.4 MPa; 58 psi air pressure



A = 8 bar; 0.8 MPa; 116 psi air pressure B = 6 bar; 0.6 MPa; 87 psi air pressure C = 4 bar; 0.4 MPa; 58 psi air pressure

Diagram for PUMA 15-70

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Diagram for PUMA 21-110



Water delivery rate

A = 8 bar; 0.8 MPa; 116 psi air pressure B = 6 bar; 0.6 MPa; 87 psi air pressure C = 4 bar; 0.4 MPa; 58 psi air pressure



A = 8 bar; 0.8 MPa; 116 psi air pressure B = 6 bar; 0.6 MPa; 87 psi air pressure C = 4 bar; 0.4 MPa; 58 psi air pressure

Diagram for PUMA 15-150

$40 \text{ cm}^3 - 150 \text{ cm}^3$

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LEOPARD 35 - 70 diagram



A = 7.1 bar; 0.71 MPa; 103 psi air pressure B = 6 bar; 0.6 MPa; 87 psi air pressure C = 4 bar; 0.4 MPa; 58 psi air pressure

Diagram for LEOPARD 48 - 110

Stroke frequency DH/min



A = 8 bar; 0.8 MPa; 116 psi air pressure B = 6 bar; 0.6 MPa; 87 psi air pressure C = 4 bar; 0.4 MPa; 58 psi air pressure

$40 \text{ cm}^3 - 150 \text{ cm}^3$

OPERATING MANUAL



Diagram for LEOPARD 35-150



Water delivery rate

A = 7.7 bar; 0.77 MPa; 112 psi air pressure B = 6 bar; 0.6 MPa; 87 psi air pressure C = 4 bar; 0.4 MPa; 58 psi air pressure

Diagram for JAGUAR 75-150

Stroke frequency DH/min



A = 7.1 bar; 0.71 MPa; 103 psi air pressure B = 6 bar; 0.6 MPa; 87 psi air pressure C = 4 bar; 0.4 MPa; 58 psi air pressure

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5.4 FUNCTION

5.4.1 PUMP

- 1 Control housing with integrated silencer
- 2 Air pressure regulator
- 3 Ball valve
- 4 Air motor
- 5 Compressed air inlet
- 6 Mounting flange
- 7 Separating fluid cup
- 8 Material outlet
- 9 Fluid section
- 10 Material inlet
- 11 Grounding connection



General information

The piston pump is driven with compressed air. This compressed air moves up and down the air piston in the air motor (4) and thus also the pump piston in the fluid section (9). At the end of each stroke the compressed air is redirected by a reversing valve and the control piston.

Working materials are sucked in on the upward stroke and simultaneously conveyed to the gun in both strokes.

Air motor (4)

The air motor with its pneumatic reverse (1) does not require pneumatic oil. The compressed air is fed to the motor via the air regulator (2) and the ball valve (3). The air motor is fitted with a safety valve. The safety valve has been set and sealed at the factory. In case of pressures over and above the permissible operating pressure, the valve, which is held with a spring, automatically opens and releases the excess pressure.



Overpressure!

Risk of injury from bursting components.

 \rightarrow Never change the safety valve setting.

Fluid section (9)

The fluid section has been designed as a piston pump with exchangeable ball valves. The hard chrome-plated pump piston runs in two fixed packings which are self-adjusting by means of a pressure spring, thus resulting in a long life-span.

Between the air motor and the fluid section there is a separating fluid cup (7) for holding the separating fluid.

40 cm³–150 cm³

OPERATING MANUAL



up to 530 bar; 7,687 psi

B 03908

5.4.2 PRESSURE REGULATOR DEVICE Pneumatic pump Puma 28-40 AirCoat 1 Pressure regulator 1 2 Ball valve 2 5 3 Pressure gauge 4 Compressed air inlet 5 AirCoat regulator (option) 3 B 03909 Positions of the ball valve Pneumatic pump 1 Closed: operating pressure in the air motor will Puma 28-40 Airless be relieved (control pressure is still present). 2 Closed: the air motor can still be under pressure 3 Open: working position B 0390

5.4.3 HIGH-PRESSURE FILTER (OPTION)

So that the complete pressure relief of the pump can be performed (see Chapter 7.2.2), a high-pressure filter with a return line or a relief combination, is mandatory.

5.4.3.1 HIGH-PRESSURE FILTER (OPTION)

To ensure problem-free operation it is recommended that a WAGNER high pressure filter be used. These have been developed especially for WAGNER pneumatic pumps. The filter inserts can be exchanged depending on the material to be used. The respective high pressure filters and their inserts for the device can be found in the accessories list.

preding on the material to sure filters and their inserts accessories list. 1 Fluid section connection 2 Material outlet 3 Return line Up to 270 bar; 3,916 psi (Return line) Closed (Spraying)

Preferred filter installation position



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40 cm³–150 cm³

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5.4.3.2 RELIEF COMBINATION AND INLINE FILTER UP TO 270 BAR (OPTION)

Instead of the standard high-pressure filter the lower-cost filter-relief combination and an inline filter can be used if only a small volume of material will be processed. Application: in pumps with a maximum material pressure of 270 bar; 3916 psi.

You will find the filter-relief combination and the suitable 2 inline filter in the accessories list.

- 1 Fluid section connection
- 2 Relief combination
- 3 Return line
- 4 Inline filter
- 5 Material outlet



5.4.4 STROKE COUNT (OPTION)

Each air motor has a 1/8" air connection with which the air pressure in the lower air motor chamber can be measured. This signal can be used for counting the strokes in an external control, for example.

The pressure signal corresponds to the set working air pressure and is available during the complete upwards stroke of the pump. If both of the signal flanks are evaluated, the upper and lower reversal point can be determined. A 4/2mm; 0.16/0.08 inch air hose is used as an air signal line.

Pneumatic pumps: Wildcat, Puma and Leopard

Pos	Order No.	Designation
1	9998675	Threaded plug
2	9999066	Male stud elbow
3	9982072	Air hose (by length)
4	9943049	Pneumatic pre-selection counter





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OPERATING MANUAL

6 ASSEMBLY AND COMMISSIONING

6.1 TRANSPORTATION

Pump types: Wildcat, Puma, and Leopard

The pump can be moved on a trolley (4"/6 Trolley) or manually without lifting equipment or a crane.

Pump type: Jaguar

The pump must be moved on a trolley (heavy duty trolley) or with lifting equipment or a crane.

Only pumps without trolleys may be lifted by the ring nut or ring bolt and transported short distances (see accessories).



6.2 STORAGE

Store the pump in a closed and dry environment. Thoroughly clean the pump, if a long-term decommissioning is planned. When resuming pump operation, proceed as described in the following sections.



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6.3 ASSEMBLING THE PUMP

Note

This pump can be used as part of a spraying system for Airless or AirCoat applications. The individual components are shown in the accessories, or can be arranged with a spraypack configurator. The nozzles must be selected according to the gun instructions.

Procedure

- a) Mount pump (1) on stand, trolley (6) or wall mount.
- b) Mount the AirCoat regulator (7) with an AirCoat system.
- c) Mount high-pressure filter (3) or filter relief combination and inline filter.
- d) Mount suction system (5).
- e) Mount return tube or return hose (4).
- f) Connect high pressure hose and gun (2) as laid down in operating manual for the gun.



▲ WARNING Inclined ground! Risk of accidents if the device rolls away/falls. → Position the carriage with the piston pump horizontally. → If the surface is inclined, position the feet of the trolley towards the gradient.

 \rightarrow Secure the trolley.

40 cm³–150 cm³

OPERATING MANUAL



6.4 GROUNDING



Discharge of electrostatically charged components in atmospheres containing solvents! Explosion hazard from electrostatic sparks.

 \rightarrow Clean the piston pump only with a damp cloth.



WARNING

Heavy paint mist if grounding is insufficient! Danger of poisoning. Insufficient paint application quality.

- \rightarrow Ground all device components.
- \rightarrow Ground the work pieces to be coated.

Grounding scheme (example)



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Cable cross sections

Pump	4 mm²; AWG11
Paint container	6 mm ² ; AWG10
Conveyor	16 mm²; AWG5
Booth	16 mm²; AWG5
Spraying stand	16 mm²; AWG5

Procedure

- 1. Screw on grounding cable with eye.
- 2. Clamp the grounding cable clip to a grounding connection on site.
- 3. Earth the material (paint) container to a local grounding connection.
- Ground the other parts of the system to a local grounding connection.
 16 mm²; AWG5


40 cm³–150 cm³

OPERATING MANUAL



6.5 COMMISSIONING

6.5.1 SAFETY INSTRUCTIONS

Before carrying out any work, the following points must be observed in accordance with the operating instructions:

- Observe all safety regulations in accordance with Chapter 4.
- Carry out commissioning properly.



Toxic and/or flammable vapor mixtures! Risk of poisoning and burns.
→ Operate the device in a spray booth approved for the working materials.
 → Operate the device on an appropriate spraying wall with the ventilation (extraction) switched on.
\rightarrow Observe national and local regulations for the outgoing air speed.



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Before every start-up, the following points should be observed as laid down in the operating manual:

- Secure gun with safety clip
- Check the permissible pressures.
- Check all connections for leaks.
- Check hoses for damage.

It should be ensured that the device is in the following state before carrying out any work on it:

- The pressure should be released from the pump and high-pressure hose with gun.
- The gun should be secured with safety clip.
- Interrupt the air supply.

Emergency Stop

In case of unforeseen occurrences the ball valve (2) should be closed immediately and the return valve (3) opened.

6.5.2 FILLING UP WITH SEPARATING FLUID



Place the supplied separating fluid into the separating fluid cup.Filling level:1 cm; 0.4 inch under the cup edge.Separating fluid:Order No. 9992504Note

Maximum permissible inclination of pump for moving, transportation etc. after filling it with separating fluid \pm 30°. The pump must be vertical during operation.





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6.5.3 BASIC CLEANING

- 1. Place empty container (5) under return pipe (4).
- 2. Place suction hose (7) in the container with flushing agent (6).
- 3. Adjust the pressure regulator (1) to approx. 0.05 MPa; 0.5 bar; 7.25.
- 4. Open return valve (3).
- 5. Slowly open the ball valve (2).
- 6. Adjust the air pressure on the pressure regulator (1) so that the pump runs smoothly.
- 7. Rinse the system until clean flushing agent flows into the container (5).
- 8. Close ball valve (2).
- 9. Close return valve (3)
- 10. Point the gun, without nozzle, into container (5) and open it.
- 11. Slowly open the ball valve (2).
- 12. Rinse until clean flushing agent flows from the gun.
- 13. Close ball valve (2).
- 14. When there is no pressure remaining in the system close the gun.
- 15. Secure the gun.
- 16. Dispose of the contents of the container (5) according to the local regulations.



40 cm³–150 cm³



7 OPERATION

7.1 FILLING WITH WORKING MATERIAL



- 1. Place empty container (5) under return pipe (4).
- 2. Place suction hose (7) in the container with working material (6).

Note:

If the pump is equipped with a rigid suction system, it should only be dipped in into the working material up to the middle of the inlet housing at the maximum!

- 3. Adjust the pressure regulator (1) to approx. 0.05 MPa; 0.5 bar; 7.25.
- 4. Open return valve (3).
- 5. Slowly open the ball valve (2).
- 6. Adjust the air pressure on the pressure regulator (1) so that the pump runs regularly.
- 7. Close ball valve (2) as soon as pure working material starts coming from the return hose.
- 8. Close return valve (3)
- 9. Point the gun, without nozzle, into container (5) and open it.
- 10. Slowly open the ball valve (2).
- 11. Close ball valve (2) as soon as pure working material starts coming from the gun.
- 12. When there is no pressure remaining in the system close the gun.
- 13. Secure the gun.
- 14. Dispose of the contents of the container (5) according to the local regulations.

<u>40 c</u>m³–150 cm³

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7.2 WORK

7.2.1 SPRAYING

- 1. Secure gun and place nozzle in the gun.
- 2. Slowly open the ball valve (2).
- 3. Set required working pressure on the pressure regulator (1).
- 4. Optimize the spraying results as laid down in the gun instructions.
- 5. Start work process.



7.2.2 PRESSURE RELIEF / WORK INTERRUPTION

- 1. Close gun.
- 2. Close ball valve (2).
- 3. Release the system by opening the gun.
- 4. Close and secure gun.
- 5 Open and close the return line ball valve (3) to completely depressurize the system.

If the system has been used with 2-component materials:

NOTICE

Hardened material in the spraying system when 2-component material is processed! Destruction of pump and injection system.

- → Follow the manufacturer's processing rules, particularly regarding the pot life.
- → Rinse thoroughly before the end of the pot life.
- \rightarrow The pot life is decreased by warmth.

<u>40 cm³–150 cm³</u>

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7.2.3 DECOMMISSIONING AND CLEANING

Note

The device should be cleaned for maintenance purposes. Ensure that no remaining material dries and sticks.

Procedure:

- 1. Work interruptions -> carry out the steps in Chapter 7.2.2.
- 2. Basic cleaning -> carry out the steps in Chapter 6.5.3.
- 3. Maintain the gun as laid down in the operating manual.
- 4. Clean and check the suction system and, in particular, the suction filter.
- 5. When using a high pressure filter: clean and check filter insert and filter housing.
- 6. Clean the outside of the system



Brittle filter pressure regulator!

The container on the filter pressure regulator becomes brittle through contact with solvents and can burst. Flying parts can cause injury.

→ Do not clean the container on the filter pressure regulator with solvents.

- 7. Put the whole system back together.
- 8. Check the level of the separating fluid -> Chapter 6.5.2.
- 9. Fill the system with flushing agent as laid down in Chapter 7.1 "Filling with Working Material".



N WARNING

Gas mixtures can explode if there is an incompletely filled pump! Danger to life from flying parts.

→ Ensure that the pump and suction system are always completely filled with flushing agent or working medium.
 → Do not spray the device empty after cleaning.

7.3 LONG-TERM STORAGE

When storing the device for longer periods of time, it is necessary to thoroughly clean it and protect it from corrosion. Replace the water or solvent in the material pump with a suitable preservative, fill separating fluid cup with separating fluid.

Procedure

- 1. Carry out points 1 through 9 in Chapter 7.2.3 "Shutting Down and Cleaning".
- 2. Flushing with preservative according Chapter 6.5.3.

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8 TROUBLE SHOOTING AND RECTIFICATION

Problem	Cause	Remedy
The pump does not work	Air motor does not work or stops.	Open and close ball valve on the pressure regulator unit or disconnect compressed air supply shortly.
	No pressure indication on pressure gauge (pressure regulator defect).	Disconnect compressed air supply shortly or repair or replace pressure regulator
	Spray nozzle is clogged.	Clean nozzle according to the instructions.
	Insufficient compressed air supply.	Check compressed air supply.
	Filter insert in spray gun or high pressure filter is clogged.	Clean the parts and use a suitable working material.
	Fluid section or high pressure hose are blocked (e.g., two-component material hardened).	Dismount the fluid section and clean, replace high pressure hose
	Grease in spool and sleeve assembly.	Degrease spool and sleeve assembly.
	Pump stops at the stroke end.	Check detent element (see service manual).
Poor spray pattern	See gun operating manual.	
Irregular operation of	Viscosity too high.	Thin spraying material.
fluid section: spray jet collapses (pulsation)	Spraying pressure too low.	Increase incoming air pressure. Use smaller nozzle.
	Valves are clogged.	Clean fluid section, if necessary leave to soak in flushing agent.
	Foreign body in suction valve.	Dismount suction valve housing, clean and check valve seat.
	Diameter of the compressed air line too small.	Assemble a larger incoming line -> Technical data, Chapter 5.3.3
	Valves, packings or pistons worn out	Replace parts.
	Control air filter or work air filter is clogged.	Check filter and clean it.
Pump runs evenly, however does not suck up	Union nut of the suction system is loose, pump is taking in air.	Tighten the union nut.
material	Suction filter clogged.	Clean filter.
	Ball in suction or piston valve is sticking.	Clean with flushing agent (if necessary vent device).

If none of the causes of malfunction mentioned is present, consult your WAGNER Service Center.

40 cm³–150 cm³

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9 MAINTENANCE

Incorrect maintenance/repair! Danger to life and equipment damage.
 → Only a WAGNER service center or a suitably trained person may carry out repairs and replace parts. → Only repair and replace parts that are listed in the chapter "Spare Parts" and that are assigned to the device. → Before all work on the device and in the event of work interruptions: Disconnect the control unit from the mains. Relieve the pressure from the spray gun and device. Secure the spray gun against actuation. → Always follow the operating and service instructions at all times when carrying out work.

- 1. Check the level of separating fluid in the separating fluid cup every day, and top up if necessary.
- 2. Check and clean the high pressure filter every day or as required.
- 3. Every shut down should be carried out as laid down in paragraph 7.2.3
- 4. Check hoses, pipes and couplings every day and replace if necessary.
- → In accordance with the guideline for liquid emitters (ZH 1/406 and BGR 500 Part 2 Chapter 2.3):
 - The liquid emitters should be checked by an expert (e.g. Wagner service technician) for their safe working conditions as required and at least every 12 months.
 - For shut down devices, the examination can be suspended until the next start-up.

The service instructions are available in German and English. Order number see chapter 1. VERSION 01/2013

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9.1 HIGH-PRESSURE HOSES

The lifetime of the fluid hoses is, even with appropriate handling, reduced due to environmental influences.

- → Check hoses, pipes, and couplings every day and replace if necessary.
- → As a precaution fluid hoses should be replaced after a period specified by the plant operator.

Bursting hose, bursting threaded joints! Danger to life from injection of material.
→ Ensure that the hose material is chemically resistant to the sprayed materials.
→ Ensure that the spray gun, threaded joints and material hose between the device and the spray gun are suitable for the pressure generated in the device.
→ Ensure that the following information can be seen on the high pressure hose:
- Manufacturer
- Permissible operating pressure - Date of manufacture

9.2 DECOMMISIONING

When the equipment must be scrapped, please differentiate the disposal of the waste materials.

The following materials have been used:

- → Steel
- → Aluminum
- → Elastomerics
- → Plastic and
- → Carbide

The consumable materials (paints, adhesives, sealers, solvents) must be disposed of according to the valid specific standards.



10 ACCESSORIES

10.1 ACCESSORIES FOR WILDCAT AND PUMA PUMPS

10.1.1 MATERIAL OUTLET ACCESSORIES

List accossorios		WILDCAT	WILDCAT	PUMA	PUMA	PUMA	PUMA
	List accessories	10-70	18-40	28-40	15-70	21-110	15-150
Pos K	Designation	No.	No.	No.	No.	No.	No.
Α	Piston pump PE/TG	2329460	2329456	2329467	2329471	2329517	2329475
Α	Piston pump PE/T	2329462	2329458	2329469	2329473	2330614	2329477
1	Separating fluid 250 ml; 250 cc			9992	504		
2	Ground cable 3 m; 9.8 ft			2362	219		
3	Ring screw			9907	133		
4	AirCoat Regulator	2328611					
5	AirCoat filter regulator, complete	2333478					
6	HP filter DN10-PN270-SSt, complete			2329	024		
7	HP filter DN12-PN530-SSt, complete			2329	025		
9	Relief combination, complete.			2329	023		
10	Inline filter DN6-PN270-G1/4"-SSt			2324	558		
11	Inline filter HL DN6-PN270-G1/4"-SSt	2329026					
12	Adapter G1/4"-NPS1/4"			2332	619		
13	Adapter G3/8"-NPS1/4"			2332	621		
14	Adapter G3/8"-NPS 3/8"			2332	620		
15 ♦	Return pipe DN6-G1/4"-100mm-PA			2331	752		
16 🔶	Circulation hose			2331	017		
	DN6-PN310-G1/4"-1.8m-PA						
17 🔶	Circulation hose			2331	014		
	DN6-PN310-G1/4"-2.8m-PA						
18 🔶	Return hose DN6-PN310-G1/4"-PA			2329	046		
19	Plug-in nipple with hose connector			9985	619		
	DN13						
20	Plug-in nipple with quick-release coupling DN13			9998	813		
21	Quick release coupling with hose connector DN 13	9998812					
22	Plug-in nipple with quick-release coupling DN10	9998810					
23	Quick release coupling with hose connector DN 10	9998811					
24	Regulator lock	2334956					
25	Ball valve DN7-PN10-G1/4-R1/4-CB			2335	815		
26	Loctite, 542 50 ml; 50 cc			9992	831		

♦ Wearing part

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10.1.2 MATERIAL INLET ACCESSORIES

For trouble-free intake, use hoses which are as short as possible. The maximun hose length is dependent upon the viscosity of the material, the suction height and the nominal diameter of the hose.

	List accessories		WILDCAT	WILDCAT	PUMA	PUMA	PUMA	PUMA
			10-70	18-40	28-40	15-70	21-110	15-150
Pos	Κ	Designation	No.	No.	No.	No.	No.	No.
Α		Piston pump PE/TG	2329460	2329456	2329467	2329471	2329517	2329475
Α		Piston pump PE/T	2329462	2329458	2329469	2329473	2330614	2329477
1		Top reservoir set 5 l for piston pump		2332	169			
2		Suction elbow for top reservoir SSt		2323	225			
3	•	Flex suction hose DN16-S-SSt, complete	2324110					
4	•	Flex suction hose DN25-SSt, complete	2324116					
5		LP hose fitting DN25-M36-SSt	2325408					
6	٠	LP hose DN25-PN10-EPDM (per meter)	2323474					
7	٠	LP hose DN25-PN10-PE (per meter)			2323	595		
8		LP hose fitting DN16-M36-SSt			2325390			
9	٠	LP hose DN16-PN10-EPDM (per meter)			2323329			
10	٠	LP hose DN16-PN10-PE (per meter)			2323597			
11		Suction pipe DN16-SSt, complete		2324	158			
12		Suction tube DN25-SSt, complete			2323	239		
13		Suction elbow DN25-SSt			2324	247		
14		Suction pipe DN25-200L-SSt, complete			2324	238		
15		Bung adapter DN25-G2"	2315163					
16		Suction pipe DN25-30L-SSt, complete	2324241					
17	٠	Suction filter DN16-18mesh-SSt	2323396					
18	٠	Suction filter DN25-18mesh-SSt			2323	325		
19		Inlet valve with valve depressor	2329688	2329	9689	2329688		

Wearing part

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ORDER NUMBER DOC 2333538

40 cm³–150 cm³

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10.2.3 TROLLEY, RACK AND WALL BRACKET ACCESSORIES

List accessories		WILDCAT	PUMA	PUMA	PUMA	PUMA
		18-40	28-40	15-70	21-110	15-150
Designation	No.	No.	No.	No.	No.	No.
Piston pump PE/TG	2329460	2329456	2329467	2329471	2329517	2329475
Piston pump PE/T	2329462	2329458	2329469	2329473	2330614	2329477
Trolley 4", complete			2325	901		
Rack 4", complete	2332374					
3 Wall bracket 4", complete 2332143						
	List accessories Designation Piston pump PE/TG Piston pump PE/T Trolley 4", complete Rack 4", complete Wall bracket 4", complete	List accessoriesWILDCAT 10-70DesignationNo.Piston pump PE/TG2329460Piston pump PE/T2329462Trolley 4", complete2329462Rack 4", complete2400Wall bracket 4", complete2400	WILDCAT 10-70WILDCAT 18-40DesignationNo.Piston pump PE/TG2329460Piston pump PE/T2329462Piston pump PE/T2329462Trolley 4", completeRack 4", completeWall bracket 4", complete	WILDCATWILDCATPUMA10-7018-4028-40DesignationNo.No.Piston pump PE/TG23294602329452Piston pump PE/T23294622329458Trolley 4", complete	WILDCATWILDCATPUMAPUMA10-7018-4028-4015-70DesignationNo.No.No.Piston pump PE/TG232946023294582329462Piston pump PE/T232946223294582329459Trolley 4", complete	WILDCATWILDCATPUMAPUMAPUMA10-7018-4028-4015-7021-110DesignationNo.No.No.No.No.Piston pump PE/TG23294602329456232946723294732329517Piston pump PE/T23294622329458232945923294732330614Trolley 4", complete

Wearing part



VERSION 01/2013 ORDER NUMBER DOC 2333538

40 cm³–150 cm³

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OPERATING MANUAL



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10.2 ACCESSORIES FOR LEOPARD AND JAGUAR PUMPS

10.2.1 MATERIAL OUTLET ACCESSORIES

	Accessories list		LEOPARD	LEOPARD	JAGUAR
	Accessories list	35-70	35-150	48-110	75-150
Pos K	Designation	No.	No.	No.	No.
А	Piston pump PE/TG	2329479	2329484	2329490	2329501
А	Piston pump PE/T	2329481	2329486	2329493	2329505
А	Piston pump PE/L	-	-	2329495	2329503
1	Separating fluid 250 ml; 250 cc		9992	2504	
2	Ground cable 3 m; 9.8 ft		236	219	
3	Ring screw		990	7133	
4	Air coat regulator		2328	8611	
5	AirCoat filter regulator, complete		2333	3478	
6	HP filter DN10-PN270-SSt, complete	2329024			
7	HP filter DN12-PN530-SSt, complete		2329	9025	
8	HP filter DN12-PN530-SSt PC, complete			2335	5334
9	Relief combination, complete	2329023			
10	Inline filter DN6-PN270-G1/4"-SSt	2324558			
11	Inline filter HL DN6-PN270-G1/4"-SSt	2329026			
12	Adapter G1/4"-NPS1/4"		2332	2619	
13	Adapter G3/8"-NPS1/4"		2332	2621	
14	Adapter G3/8"-NPS 3/8"		2332	2620	
15 🔶	Return pipe DN6-G1/4"-100mm-PE		233	1752	
16 🔶	Circulation hose DN6-PN310-G1/4"-1.8m-PA		233	1017	
17 🔶	Circulation hose DN6-PN310-G1/4"-2.8m-PA		233	1014	
18 🔶	Return hose DN6-PN310-G1/4"-PA		2329	9046	
19	Plug-in nipple with hose connector DN13		9985619		
20	Plug-in nipple with quick-release coupling DN13	9998813			
21	Quick release coupling with hose connector DN 13	9998812			
22	Outside thread grommet 1"-NW25	99		9985671	
23	Sealing ring 1"			9974135	
24	Regulator lock		2334957		2334958
25	Ball valve DN7-PN10-G1/4-R1/4-CB		233	5815	1
26	Loctite, 542 50 ml; 50 cc		9992	2831	

◆ Wearing part

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40 cm³–150 cm³

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10.2.2 MATERIAL INLET ACCESSORIES

For trouble-free intake, use hoses which are as short as possible. The maximun hose length is dependent upon the viscosity of the material, the suction height and the nominal diameter of the hose.

	Accessories list			LEOPARD	LEOPARD	JAGUAR	
		Accessories list	35-70	35-150	48-110	75-150	
Pos	Κ	Designation	No.	No.	No.	No.	
Α		Piston pump PE/TG	2329479	2329484	2329490	2329501	
Α		Piston pump PE/T	2329481	2329486	2329493	2329505	
Α		Piston pump PE/L			2329495	2329503	
1	٠	Flex suction hose DN16-SSt, complete	2324110				
2	٠	Flex suction hose DN25-SSt, complete		2324	4116		
3		LP hose fitting DN25-M36-SSt		232	5408		
4	٠	LP hose DN25-PN10-EPDM (per meter)	2323474				
5	٠	LP hose DN25-PN10-PE (per meter)	2323595				
6		LP hose fitting DN16-M36-SSt	2325390				
7	٠	LP hose DN16-PN10-EPDM (per meter)	2323329				
8	٠	LP hose DN16-PN10-PE (per meter)	2323597				
9		Suction pipe DN16-SSt, complete	2324158				
10		Suction pipe DN25-SSt complete		2323	3239		
11		Suction elbow DN25-SSt		2324	4247		
12		Suction pipe DN25-200L-SSt, complete		2324	4238		
13		Bung adapter DN25-G2"	2315163				
14		Suction pipe DN25-30L-SSt complete	2324241				
15	٠	Suction filter DN16-18mesh-SSt	2323396				
16	٠	Suction filter DN25-18mesh-SSt		2323	3325		
17		Inlet valve with valve depressor	2329688				

Wearing part

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40 cm³–150 cm³

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10.2.3 TROLLEY AND WALL BRACKET ACCESSORIES

List accessories		LEOPARD	LEOPARD	LEOPARD	JAGUAR
			35-150	48-110	75-150
Pos K	Designation	No.	No.	No.	No.
А	Piston pump PE/TG	2329479	2329484	2329490	2329501
А	Piston pump PE/T	2329481	2329486	2329493	2329505
А	Piston pump PE/L			2329495	2329503
1	Trolley 6", complete	2325916			
2	Trolley Heavy Duty, complete	369024			
3	Wall bracket 6", complete	2332145			
4	Wall bracket 9", complete				369020

♦ Wearing part



ALENS

OPERATING MANUAL

11 SPARE PARTS

11.1 HOW CAN SPARE PARTS BE ORDERED?

Always supply the following information to ensure delivery of the right spare part:

Order number, designation and quantity

The quantity need not be the same as the number given in the quantity column "**Stk**" on the list. This number merely indicates how many of the respective parts are used in each module.

The following information is also required to ensure smooth processing of your order:

- Address for the invoice
- Address for delivery
- Name of the person to be contacted in the event of any queries
- Type of delivery (normal mail, express delivery, air freight, courier etc.)

Identification in spare parts lists

Explanation of column "K" (labeling) in the following spare parts lists:

• Wearing parts

Note: No liability is assumed for wearing parts.

• Not part of standard equipment, available, however, as additional extra.

Incorrect maintenance/repair! Risk of injury and equipment damage.
 → Have repairs and part replacements be carried out only by specially trained staff or a WAGNER service center. → Before all work on the device and in the event of work interruptions:
 Switch off the energy/compressed air supply. Relieve the pressure from the spray gun and device. Secure the spray gun against actuation.
→ Always follow the operating and service instructions at all times when carrying out work.

The service instructions are available separately. See chapter 1.

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11.2 OVERVIEW OF COMPONENTS

		WILDCAT	WILDCAT	WILDCAT	WILDCAT		
		10-70	10-70	18-40	18-40		
		PE/TG	PE/T	PE/TG	PE/T		
Pos	Designation	No.	No.	No.	No.		
1	Piston pump	2329460	2329462	2329456	2329458		
2	Fluid section	2329645	2329647	2329641	2329643		
3	Air motor	2329613					
4	Spring	367530					
5 Coupling		367579 367529					
9 Grounding cable, complete		236219					
10	Molykote DX grease	9992616					
Tigh	tening torque air motor / fluid section	25 Nm; 18 lbft					



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		PUMA	PUMA	PUMA	PUMA	
		28-40	28-40	15-70	15-70	
		PE/TG	PE/T	PE/TG	PE/T	
Pos	Designation	No.	No.	No.	No.	
1	Piston pump	2329467	2329469	2329471	2329473	
2	Fluid section	2329641	2329643	2329645	2329647	
3	Air motor	2329617				
4	Spring		367	530		
5	Coupling	367529 367579		579		
9	Grounding cable, complete	236219				
10 Molykote DX grease			9992	2616		
Tightening torque air motor / fluid section		25 Nm; 18 lbft				

		PUMA	PUMA	PUMA	PUMA
		15-150	15-150	21-110	21-110
		PE/TG	PE/T	PE/TG	PE/T
Pos	Designation	No.	No.	No.	No.
1	Piston pump	2329475	2329477	2329517	2330614
2	Fluid section	2329650	2329652	2329654	2329656
3	Air motor		2329	9619	
4	Spring		367	530	
5	Coupling	367579			
9	Grounding cable, complete	236219			
10	Molykote DX grease	9992616			
Tightening torque air motor / fluid section 50 Nm; 37 lbft					

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		LEOPARD	LEOPARD	LEOPARD	LEOPARD
		35-70	35-70	35-150	35-150
		PE/TG	PE/T	PE/TG	PE/T
Pos	Designation	No.	No.	No.	No.
1	Piston pump	2329479	2329481	2329484	2329486
2	Fluid section	2329645	2329647	2329650	2329652
3	Air motor	2329621 2329623		9623	
4	Spring		368	530	
5	Coupling		368	529	
9	Grounding cable, complete	236219			
10 Molykote DX grease			9992	2616	
Tightening torque air motor / fluid section		25 Nm; 18 lbft 50 Nm; 37 lbft		: 37 lbft	

		LEOPARD	LEOPARD	LEOPARD	
		48-110	48-110	48-110	
		PE/TG	PE/T	PE/L	
Pos	Designation	No.	No.	No.	
1	Piston pump (NPSM)	2329490	2329493	2329495	
2	Fluid section	2329654	2329656	2329658	
3	Air motor	2329623			
4	Spring		368530		
5	Coupling	368529			
9	Grounding cable, complete	236219			
10	Molykote DX grease		9992616		
Tigh	tening torque air motor / fluid section	50 Nm; 37 lbft			

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		JAGUAR 75-150	JAGUAR 75-150	JAGUAR 75-150
		PE/TG	PE/T	PE/L
Pos	Designation	No.	No.	No.
1	Piston pump (NPSM)	2329501	2329505	2329503
2	Fluid section	2329650	2329652	2329664
3	Air motor		2329625	
4	Spring		368530	
5	Coupling		368529	
9	Grounding cable, complete	236219		
10	Molykote DX grease		9992616	
Tightening torque air motor / fluid section			50 Nm; 37 lbf	t



40 cm³–150 cm³



11.3 AIR MOTORS

11.3.1 WILDCAT, PUMA, LEOPARD AIR MOTORS

Incorrect maintenance/repair! Risk of injury and equipment damage.
 → Have repairs and part replacements be carried out only by specially trained staff or a WAGNER service center. → Before all work on the device and in the event of work interruptions: Switch off the energy/compressed air supply. Relieve the pressure from the spray gun and device. Secure the spray gun against actuation. → Always follow the operating and service instructions at all times when carrying out work.

			WILDCAT	PUMA	PUMA	LEOPARD	LEOPARD
Air motor	spare parts list		10-70	28-40	21-110	35-70	48-110
			18-40	15-70	15-150		35-150
Pos K	Designation	Stk	No.	No.	No.	No.	No.
1	Air motor	1	2329613	2329617	2329619	2329621	2329623
2	Flange	1		367316		368	316
3	Piston rod	1	367	302	367402	368302	368402
4	Cylinder pipe	1	366303	367303	367403	368303	368403
5	Compressed air pipe	1	367	304	367404	368304	368404
6	Control air pipe	1	367	305	367405	367305	367405
8	Plug	2			367307		
9 ♦ ★	Outlet seal	2		L414.06C		L42	3.06
10	Connecting part	1		367309		368	309
11	Silencer	1		367310		368	310
12	Hood	1		367311		368	311
13 🔶 ★	Filter, compressed air	1			367313		
14 🔶 ★	Control air filter	1			367314		
15	Fluid warning label	1			2332082		
16	Shoulder screw	2		367318		368	324
17 🔶	Sound deadening pad	1	367319 368319		319		
18	Cotter pin	2	367320 368320		320		
23	Filter holder	1	367324				
25	Throttle	1	367325		325		
28 🔶	O-ring	6		9971123 9974142		1142	
29 🔶	Rod seal	2		9974217			

 \blacklozenge = Wearing part

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Air pressure (pos. 100) Details see chapter 11.3.2

Do not dismount the piston (pos. 81)

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					WILDCAT	PUMA	PUMA	LEOPARD	LEOPARD
Air n	not	or	spare parts list		10-70	28-40	21-110	35-70	48-110
			18-40	15-70	15-150		35-150		
Pos	K	(Designation	Stk	No.	No.	No.	No.	No.
30	٠		Pilot valve	2			369290		
31	٠		Spool-sleeve combination	1		9943080		9943	3081
			assembly						
32	٠		Permaglide bushing	1		9962018		9962	2019
33	٠		Complete piston	1	9998663	9998	3661	9998	3662
34	٠	\star	Seal wiper ring	1		9974090		9974	4091
35			Safety valve	1		368288		368286	368287
36	٠	\star	O-ring	2	9974115	9974	1084	9974	1087
37	٠	\star	O-ring	2			9974085		
39	٠	*	O-ring	2			9974089		
40	٠	*	O-ring	2		9974095		9974	1096
41	٠	*	O-ring	2		9971448		997 ⁻	137
42	٠	*	O-ring	1		9974097		9974	4100
43	٠	*	O-ring	1		9974098		9974	4101
44			Threaded plug	1			9998674		
45			Threaded plug	1			9998274		
46			WAGNER label	1	2330369	2330)370	2330371	
47			Threaded plug	2			9998675		
48			Control housing	1		367315		368315	
49			Washer	2	9925	5033	9920106	5 9925026	
50			Hexagon bolt	3	9900)225	9907121	9900225	9907121
51			Hexagon nut	1		9910101		9910)605
52			Washer	3			9920106		
53			Washer	1		9920107			
53			Washer	2				9920	0110
54			SFS screw	2	[9907126	~		
54			SFS screw	3				9907	7125
55			Cylinder head screw,	3		9900325		9900	0313
			M6x16						
56			Washer	3		9920103		9920	0102
57	٠	*	Sealing ring	1			9970149		
58			Base	1			9952668		
59			Clamping bracket	1			9952667		
60			Cylinder head screw	1	9900701				
61			Spring washer	1			9921505		
69			Drive fastener	1			9998718		
71			IceBreaker label	1			2330382		
72			Warning label	1			2332077		
74	٠		Detent element complete ISO 1/2	1			368038		
75	٠		Damper ISO 1/2	2			368313		

 \bullet = Wearing part

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Air moto	r spare parts list		WILDCAT 10-70 18-40	PUMA 28-40 15-70	PUMA 21-110 15-150	LEOPARD 35-70	LEOPARD 48-110 35-150
Pos K	Designation	Stk	No.	No.	No.	No.	No.
81 🔶	Spool & sleeve assembly ISO1 or ISO 2	1		9943097		9943	3098
100	Pressure control device, complete.	1		2328606		2328	3607
106	Loctite 222 50ml; 50cc	1			9992590		
107	Loctite, 243 50 ml; 50 cc	1			9992511		
108	Loctite, 542 50 ml; 50 cc	1	9992831				
109	Molykote DX grease	1	9992616				
110	Grease Beacon	1	9998808				
	Gun Packing Kit	1	366995	366995 367995 368995			

♦ = Wearing part

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11.3.2 WILDCAT AND PUMA AIR MOTOR REGULATORS



Air mot	or regulator spare parts list		WILDCAT 10-70	PUMA 28-40	PUMA 21-110
			18-40	15-70	15-150
Pos K	Designation	Stk		Order No.	
1	Pressure regulator unit 4", complete	1		2328606	
2 🔶	Pressure regulator valve 4"	1		2309972	
3 🔶	Pressure gauge 0-1 MPa; 0-10 bar; 0-145 psi (d40)	1	9998677		
4	Distributor 4"	1	2309744		
5	Hexagon socket cylinder head screw	2	9907039		
6	Hexagon socket cylinder head screw	4	9900316		
7 🔶	O-ring	2		9974166	
8	O-ring	1		9971313	
9 🔶	O-ring	1		9971137	
10 🔶	Edge ball valve 4"	1	2310635		
11	Screw plug	1	9904407		
12	Molykote DX grease	1	9992616		
13	Loctite, 542 50 ml; 50 cc	1	9992831		
14	Grease Beacon	1		9998808	

 \bullet = Wearing part



11.3.3 LEOPARD AIR MOTOR REGULATOR



Air motor regulator spare parts list			LEOPARD 35-70	LEOPARD 48-110 35-150	
Pos K	Designation	Stk	Orde	r No.	
1	Pressure regulator unit 6", complete	1	2328	3607	
2 🔶	Pressure regulator valve 6"	1	2309	9973	
3 🔶	Pressure gauge 0-10 bar (d50)	1	9998	3725	
4	Distributor 6"	1	2309	9783	
5	Hexagon socket cylinder head screw	2	3050699		
6	Hexagon socket cylinder head screw	2	9907024		
7	Hexagon socket cylinder head screw	2	9906020		
8 🔶	O-ring	1	9974	4166	
9	O-ring	1	9971	1018	
10	O-ring	1	3105	5540	
11 🔶	O-ring	1	9971	1137	
12 🔶	Edge ball valve 6"	1	2310636		
13	Screw plug	1	9904407		
14	Loctite 542	1	9992831		
15	Molykote DX grease	1	9992616		
16	Grease Beacon	1	9998	3808	

 \blacklozenge = Wearing part

40 cm³–150 cm³

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11.3.4 JAGUAR AIR MOTOR

Incorrect maintenance/repair! Risk of injury and equipment damage.
 → Have repairs and part replacements be carried out only by specially trained staff or a WAGNER service center. → Before all work on the device and in the event of work interruptions: Switch off the energy/compressed air supply. Relieve the pressure from the spray gun and device. Secure the spray gun against actuation. → Always follow the operating and service instructions at all times when carrying out work.

laguar air matar spara parts list				JAGUAR
Jaguar air motor spare parts list				75-150
Pos	Κ	Stk	Designation	No.
1		1	Air motor	2329625
2		1	Flange	369316
3	•	1	Piston rod	368402
4		1	Cylinder pipe	369403
5		2	Compressed air pipe	368404
6		1	Control air pipe	367405
8		1	Sealing plug	369307
9	• *	2	Outlet seal	369312
10		1	Connecting part	369309
11		1	Silencer	369310
12		1	Hood	369905
13	• *	1	Compressed air filter	369313
14	٠	1	Control air filter	367314
15		1	Fluid warning label	2332082
16		1	Shoulder screw	369318
17	•	1	Sound deadening pad	369906
18		2	Cotter pin	369320
23		1	Filter holder	367324
25		1	Throttle	367325
28	•	6	O-ring	9974143
29	٠	2	Rod seal	9974217
30	•	2	Pilot valve	369290
31	•	1	Spool-sleeve combination assembly ISO 3	369907
32	•	1	Permaglide bushing	9962019

 \blacklozenge = Wearing part

 \star = Included in service set

 \bullet = Not part of the standard equipment but available as a special accessory.

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Do not dismount the piston (pos. 94)

Air pressure regulator (pos. 105). Details see Chapter 11.3.5.

40 cm³–150 cm³

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laguar air matar caara narts list			JAGUAR		
Jayuar all motor spare parts list					75-150
Pos	ł	<	Stk	Designation	No.
33			1	Piston 9	369385
34	٠	*	1	Seal wiper ring	9974125
35			1	Safety valve	368286
36	٠	*	2	O-ring	9974133
37	٠	*	2	O-ring	9971056
39	٠	\star	2	O-ring	9974089
40	٠	\star	2	O-ring	9974132
41	٠	\star	4	O-ring	9971137
43	٠	\star	1	O-ring	9974165
46			1	WAGNER label	2330372
47			2	Threaded plug	9998675
48			1	Control housing	369315
49			1	Washer	9925034
50			4	Hexagon bolt	9907137
51			1	Hexagon nut	9910605
52			4	Washer	9920106
53			2	Washer	369303
54			7	SFS screw	9907125
55			3	Cylinder head screw	9900314
56			3	Washer	9925029
57	٠	\star	1	Sealing ring	9970149
58			1	Base	9952668
59			1	Clamping bracket	9952667
60			1	Cylinder head screw	9900701
61			1	Spring ring	9921505
71			1	IceBreaker label	2330382
72			1	Warning label	2332077
74	٠		1	Detent body	369027
75			1	Rod seal profile E5	9974124
76			2	Screwing in angle	9992757
77			1	Screw connector T	9992758
78			4	Washer	9920102
79			4	Cylinder head screw	9900313
80			2	Washer	9925031
81			1	Lifting eye nut	369325
82			1	Shoulder ring	369324
83			1	Hexagon bolt	9900150
84	٠	*	1	O-ring	9974262
85			1	Air pipe	369306
87	٠		3	O-ring	9971004
88			2	Damping washer	369304

 \bullet = Wearing part

 \star = Included in service set

• = Not part of the standard equipment but available as a special accessory.

40 cm³–150 cm³

WÂGNER

OPERATING MANUAL

laguarai	JAGUAR		
Jaguarai	75-150		
Pos K	Stk	Designation	No.
89	1	Control flange	369317
90	1	Air hose back	369026
91	1	Air hose front	369025
92	1	Lock space 9	369326
93 🔶	2	Damper ISO 3	369329
94 🔶	1	Spool & sleeve assembly	9943131
95 🔶	1	Velcro fastener adhesive part	9999151
96 🔶	1	Velcro fastener coating part	9999152
97	1	Adhesive	9992816
98 🔶	1	Viton B O-ring	9971372
103 🔶	1	Sound absorbing mat 9/12"	369330
105	1	Pressure control device 9, complete	2328609
106	1	Loctite 222 50ml; 50cc	9992590
107	1	Loctite 243 50ml; 50cc	9992511
108	1	Loctite 542 50ml; 50cc	9992831
109	1	Molykote DX grease	9992616
110	1	Grease Beacon	9998808
111	1	Wearing parts set A25R-1 (for pos. 20)	115436
114 ●	1	Piston 9 with o-ring (SOFT)	369971
	1	Service set	369987

 \bullet = Wearing part

 \star = Included in service set

• = Not part of the standard equipment but available as a special accessory.

OPERATING MANUAL

11.3.5 JAGUAR AIR MOTOR REGULATOR



laquar air motor sparo parts list				JAGUAR
Jayu	ai ai	mou	75-150	
Pos	Κ	Stk	Designation	No.
1		1	Pressure regulator unit 9", complete	2328609
2	•	1	Pressure regulator valve 9"	2309974
3		1	Distributor 9"	2309963
4	•	1	Pressure gauge 0-10 bar (d50)	9998725
5		2	Hexagon socket cylinder head screw	9900360
6		2	Hexagon socket cylinder head screw	9907087
7		2	Hexagon socket cylinder head screw	9900356
8	•	1	O-ring	9974166
9		2	O-ring	3105540
10	•	1	O-ring	9971405
11	•	1	Edge ball valve 9"	2310637
12		1	Molykote DX grease	9992616
13		1	Loctite, 542 50 ml; 50 cc	9992831
14		1	Grease Beacon	9998808

 \bullet = Wearing part
40 cm³–150 cm³

OPERATING MANUAL



11.4 FLUID SECTIONS

11.4.1 FLUID SECTIONS 40 CM³

•	
	Incorrect maintenance/repair! Risk of injury and equipment damage.
	 → Have repairs and part replacements be carried out only by specially trained staff or a WAGNER service center. → Before all work on the device and in the event of work interruptions: Switch off the energy/compressed air supply. Relieve the pressure from the spray gun and device. Secure the spray gun against actuation. → Always follow the operating and service instructions at all times when carrying out work.

Fluid	Fluid sections spare parts list			40 cm3 PF/TG	40 cm3 PF/T
Pos	К	Stk	Designation	No.	No.
1		1	Fluid section	2329641	2329643
2		1	Pipe	3675	02
3		1	Cylinder	3675	03
4		1	Inlet housing 40	23224	167
5	•	1	Piston	3675	05
6		1	Valve screw	3675	06
7	• *	1	Ball guide, inlet	3675	07
8		1	Connection flange	3675	01
9	•	1	Valve seat, inlet	3675	09
10	•	1	Valve seat, outlet	3675	10
11		1	Snap ring flange	3675	11
12		2	Snap ring half	3675	12
13		1	Securing ring	3675	13
16		1	Support ring	3675	16
17		1	Pressure ring	3675	17
18		1	Support ring	3675	18
19		1	Pressure ring	3675	19
100	•	1	Packing PE/TG complete (small)	115805	
101	•	1	Packing PE/T complete (small)		123219
20	* *	2	Sealing collar TG (small)	123398	
20	•	2	Sealing collar T (small)		123426

 \bullet = Wearing part

 \star = Included in service set

• = Special accessories

40 cm³–150 cm³

WÂGNER

OPERATING MANUAL



Tighten pos. 4 on block by hand. Use a standard spanner only if necessary. In this case, use a spanner to hold pos. 3.

40 cm³–150 cm³

WÂGNER

OPERATING MANUAL

Fluid	Fluid sections spare parts list			40 cm3 PE/TG	40 cm3 PE/T	
Pos	к	Stk	Designation	No.	No.	
21	•	★ 3	Sealing collar PE (small)	123427	123427	
103	٠	1	Packing PE/TG complete (large)	367991		
104	٠	1	Packing PE/T complete (large)		367992	
22	•	★ 2	Sealing collar TG (large)	367522		
22	٠	2	Sealing collar T (large)		367900	
23	•	★ 3	Sealing collar PE (large)	367523	367523	
25	•	* 2	O-ring	3675	525	
27	•	* 1	O-ring	3675	527	
28	•	* 1	O-ring	3675	28	
31	•	1	Separating fluid cup	3675	531	
32	٠	2	Coupling cover	3675	32	
39	•	* 6	O-ring	9974	089	
40	•	* 1	Wave spring (small)	9998	669	
41	•	* 1	Wave spring (large)	9998	670	
42	•	* 1	Ball (large)	9941513		
43	•	* 1	Ball (small)	9941518		
44	•	* 1	O-ring	9974	094	
45	•	* 1	O-ring	9974	093	
46	•	* 1	O-ring	9974	106	
50		3	Hexagon bolt	9907	124	
51		6	Washer	9920	106	
52		3	Hexagon bolt	9900	225	
53		3	Connecting tube	3673	06	
60		1	Grease mobilux EP 2	9998	808	
61		1	Anti-sieze paste tube	9992	609	
62		1	Molykote DX grease	9992	616	
70		1	Fitting SF-MM-G3/8"-M24-PN530-SSt	2329	922	
71		1	Sealing sleeve	2329	898	
		1	Service set PE/TG	367990		
		1	Service set PE/T		367994	
111		• 1	Valve seat set 40 stainless steel	2331	582	

 \bullet = Wearing part

 \star = Included in service set

• = Special accessories

Information regarding pos. 111:

Valve seat set 40 stainless steel consisting of: pos. 28, 10, 27, 9, but in stainless steel version.

40 cm³–150 cm³

OPERATING MANUAL



11.4.2 FLUID SECTIONS 70 CM³

•	
	Incorrect maintenance/repair! Risk of injury and equipment damage.
	 → Have repairs and part replacements be carried out only by specially trained staff or a WAGNER service center. → Before all work on the device and in the event of work interruptions: Switch off the energy/compressed air supply. Relieve the pressure from the spray gun and device. Secure the spray gun against actuation. → Always follow the operating and service instructions at all times when carrying out work.

Fluid	Fluid sections spare parts list			70 cm3 PE/TG	70 cm3 PE/L	70 cm3 PE/T
Pos	К	Stk	Designation	No.	No.	No.
1		1	Fluid section	2329645	-	2329647
2		1	Pipe		368502	
3		1	Cylinder		368503	
4		1	Inlet housing 70		2322465	
5	•	1	Piston		368505	
6		1	Valve screw	368506		
7	• *	1	Ball guide, inlet	368507		
8		1	Connection flange	368501		
9	•	1	Valve seat, inlet		368509	
10	•	1	Valve seat, outlet		368510	
11		1	Snap ring flange		368511	
12		2	Snap ring half		368512	
13		1	Securing ring		368513	
16		1	Support ring		368516	
17		1	Pressure ring		367519	
18		1	Support ring	368518		
19		1	Pressure ring	368519		
100	•	1	Packing PE/TG complete (small)	367991		
101	•	1	Packing PE/T complete (small)			367992
102	•	1	Packing PE/L complete (small)		367993	

♦ = Wearing part

 \star = Included in service set

Special accessories

OPERATING MANUAL





Manually tighten pos. 4 to block. Use a standard spanner only if necessary. In this case, use a spanner to hold pos. 3.

40 cm³–150 cm³

WÂGNER

OPERATING MANUAL

Fluid	Fluid sections spare parts list		70 cm3 PE/TG	70 cm3 PE/L	70 cm3 PE/T		
Pos	K	(Stk	Designation	No.	No.	No.
20	•	*	2	Sealing collar TG (small)	367522		
20	٠		2	Sealing collar T (small)			367900
20	٠		2	Sealing collar L (small)		367922	
21	•	*	3	Sealing collar PE (small)	367523	367523	367523
103	٠		1	Packing PE/TG complete (large)	368991		
104	٠		1	Packing PE/T complete (large)			368992
105	٠		1	Packing PE/L complete (large)		368993	
22	•	*	2	Sealing collar TG (large)	368522		
22	٠		2	Sealing collar T (large)			368900
22	٠		2	Sealing collar L (large)		368922	
23	•	*	3	Sealing collar PE (large)	368523	368523	368523
25	•	*	2	O-ring		368525	
27	•	*	1	O-ring		368527	
28	•	*	1	O-ring		368528	
31	٠		1	Separating fluid cup		367531	
32	٠		2	Coupling cover		367532	
39	•	*	6	O-ring		9974089	
40	•	*	1	Wave spring (small)		9998670	
41	٠	*	1	Wave spring (large)		9998671	
42	•	*	1	Ball (large)		9943082	
43	•	*	1	Ball (small)		9941512	
44	٠	*	1	O-ring		9974092	
45	٠	*	1	O-ring		9974093	
46	•	*	1	O-ring		9974107	
50			3	Hexagon bolt		9907124	
51			6	Washer		9920106	
52			3	Hexagon bolt		9900225	
53			3	Connecting tube		367306	
57		•	1	Ball guide for high viscosity materials		369926	
60			1	Grease mobilux EP 2		9998808	
61			1	Anti-sieze paste tube		9992609	
62			1	Molykote DX grease		9992616	
70			1	Fitting SF-MM-G3/8"-M24-PN530-SSt		2329922	
71			1	Sealing sleeve		2329898	
			1	Service set PE/TG	368990		
			1	Service set PE/T			368994
111		•	1	Valve seat set 70 stainless steel		2331585	

♦ = Wearing part

 \star = Included in service set

• = Special accessories

Information regarding pos. 111:

Valve seat set 70 stainless steel consisting of: pos. 28, 10, 27, 9, but in stainless steel version.

40 cm³–150 cm³

OPERATING MANUAL

WÂGNER

11.4.3 FLUID SECTIONS 110 CM³

Incorrect maintenance/repair! Risk of injury and equipment damage.
 → Have repairs and part replacements be carried out only by specially trained staff or a WAGNER service center. → Before all work on the device and in the event of work interruptions: Switch off the energy/compressed air supply. Relieve the pressure from the spray gun and device. Secure the spray gun against actuation. → Always follow the operating and service instructions at all times when carrying out work.

Fluid	Fluid sections spare parts list			110 cm3 PE/TG	110 cm3 PE/L	110 cm3 PE/T	
Pos	К	Stk	Designation	No.	No.	No.	
1		1	Fluid section	2329654	2329658	2329656	
2		1	Pipe		368434		
3		1	Cylinder		368435		
4		1	Inlet housing 150		2327888		
5	•	1	Piston		368433		
6		1	Valve screw		367506		
7	• *	1	Ball guide, inlet	368507			
8		1	Connection flange		368551		
9	•	1	Valve seat, inlet		368509		
10	•	1	Valve seat, outlet		367510		
11		1	Snap ring flange		368561		
12		2	Snap ring half		368512		
13		1	Securing ring		368513		
16		1	Support ring		368428		
17		1	Pressure ring		368425		
18		1	Support ring		368430		
19		1	Pressure ring		368432		
100	•	1	Packing PE/TG complete (small)	368253			
101	•	1	Packing PE/T complete (small)			368297	
102	•	1	Packing PE/L complete (small)		368295		
20	• *	2	Sealing collar TG (small)	368426			
20	• *	2	Sealing collar T (small)			368436	

♦ = Wearing part

 \star = included in service set

• = Special accessories

OPERATING MANUAL



60

60

- 61

57

60

61

-62



Use a standard spanner only if necessary. In this case, use a spanner to hold pos. 3.

40 cm³–150 cm³

WÂGNER

OPERATING MANUAL

Fluid	luid sections spare parts list			110 cm3 PE/TG	110 cm3 PE/L	110 cm3 PE/T
Pos	κ	Stk	Designation	No.	No.	No.
20	• *	2	Sealing collar L (small)		368437	
21	• *	3	Sealing collar PE (small)	368427	368427	368427
103	٠	1	Packing PE/TG complete (large)	368299		
104	٠	1	Packing PE/T complete (large)			368296
105	٠	1	Packing PE/L complete (large)		368294	
22	• >	2	Sealing collar TG (large)	368429		
22	• *	2	Sealing collar T (large)			368438
22	• *	2	Sealing collar L (large)		368439	
23	• *	3	Sealing collar PE (large)	368431	368431	368431
25	• *	2	O-ring		368525	•
27	• *	1	O-ring		368527	
28	* *	1	O-ring		367528	
31	٠	1	Separating fluid cup		368531	
32	٠	2	Coupling cover		368532	
40	• *	1	Wave spring (small)		9998670	
41	• *	1	Wave spring (large)		9998671	
42	٠ *	1	Ball (large)		9943082	
43	٠ *	1	Ball (small)		9941518	
44	٠ *	1	O-ring		9974092	
45	• *	1	O-ring		9974116	
46	• *	1	O-ring		9974107	
50		3	Hexagon bolt		9907142	
51		3	Washer		9925011	
54		3	Washer		9920107	
55		3	Hexagon bolt		9900157	
56		3	Threaded bolt		368533	
57		1	Ball guide for high viscosity materials		369926	
60		1	Grease mobilux EP 2		9998808	
61		1	Anti-sieze paste tube		9992609	
62		1	Molykote DX grease		9992616	
106		1	Fitting SF-MM-G3/8"-M24-PN530-SSt		2329922	
107		1	Sealing sleeve		2329898	
		1	Service set PE/TG	368997		
		1	Service set PE/T			2304930
		1	Service set PE/L		2319924	

♦ = Wearing part

 \star = included in service set

Special accessories

40 cm³–150 cm³

OPERATING MANUAL



11.4.4 FLUID SECTIONS 150 CM³

•	
	Incorrect maintenance/repair! Risk of injury and equipment.
	 → Have repairs and part replacements be carried out only by specially trained staff or a WAGNER service center. → Before all work on the device and in the event of work interruptions: Switch off the energy/compressed air supply. Relieve the pressure from the spray gun and device. Secure the spray gun against actuation. → Always follow the operating and service instructions at all times when carrying out work.

Fluid	Fluid sections spare parts list		150 cm3 PE/TG	150 cm3 PE/L	150 cm3 PE/T	
Pos	К	Stk	Designation	No.	No.	No.
1		1	Fluid section	2329650	2329664	2329652
2		1	Tube		368552	
3		1	Cylinder		368553	
4		1	Inlet housing 150		2327888	
5	•	1	Piston		368555	
6		1	Valve screw	368506		
7	• *	1	Ball guide, inlet	368507		
8		1	Connection flange	368551		
9	•	1	Valve seat, inlet		368509	
10	•	1	Valve seat, outlet		368510	
11		1	Snap ring flange		368561	
12		2	Snap ring half		368512	
13		1	Securing ring		368513	
16		1	Support ring		368516	
17		1	Pressure ring		367519	
18		1	Support ring	368518		
19		1	Pressure ring	368519		
100	•	1	Packing PE/TG complete (small)	367991		
101	•	1	Packing PE/T complete (small)			367992
102	•	1	Packing PE/L complete (small)	367993		

◆ = Wearing part

 \star = included in service set

• = Special accessories

OPERATING MANUAL





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40 cm³–150 cm³

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OPERATING MANUAL

Fluid	secti	ions sp	pare parts list	150 cm3 PE/TG	150 cm3 PE/L	150 cm3 PE/T
Pos	Κ	Stk	Designation	No.	No.	No.
20	* *	2	Sealing collar TG (small)	367522		
20	٠	2	Sealing collar T (small)			367900
20	٠	2	Sealing collar L (small)		367922	
21	* *	3	Sealing collar PE (small)	367523	367523	367523
103	٠	1	Packing PE/TG complete (large)	368991		
104	٠	1	Packing PE/T complete (large)			368992
105	٠	1	Packing PE/L complete (large)		368993	
22	• *	2	Sealing collar TG (large)	368522		
22	٠	2	Sealing collar T (large)			368900
22	٠	2	Sealing collar L (large)		368922	
23	* *	3	Sealing collar PE (large)	368523	368523	368523
25	* *	2	O-ring		368525	
27	* *	1	O-ring		368527	
28	• *	1	O-ring		368528	
31	٠	1	Separating fluid cup		368531	
32	٠	2	Coupling cover		368532	
40	* *	1	Wave spring (small)		9998670	
41	* *	1	Wave spring (large)		9998671	
42	* *	1	Ball (large)		9943082	
43	* *	1	Ball (small)		9941512	
44	* *	1	O-ring		9974092	
45	* *	1	O-ring		9974116	
46	* *	1	O-ring		9974107	
50		3	Hexagon bolt		9907142	
51		3	Washer		9925011	
54		3	Washer		9920107	
55		3	Hexagon bolt		9900157	
56		3	Threaded bolt		368533	
57	•	1	Ball guide for high viscosity materials		369926	
60		1	Grease mobilux EP 2		9998808	
61		1	Anti-sieze paste tube		9992609	
62		1	Molykote DX grease		9992616	
106		1	Fitting SF-MM-G3/8"-M24-PN530-SSt		2329922	
107		1	Sealing sleeve		2329898	
		1	Service set PE/TG	368990		
		1	Service set PE/T			368994

◆ = Wearing part

 \star = included in service set

• = Special accessories





11.5 INLET VALVE WITH VALVE DEPRESSOR



Pos	К	Stk	Designation	Order no. for fluid section 40 cm ³	Order no. for fluid section 70 cm ³
1		1	Inlet valve with valve depressor	2329689	2329688
2	٠	1	Ball guide, inlet	367507	368507
3	٠	1	Ball	9941513	9943082
4	٠	1	O-ring	367527	368527
5	٠	1	Valve seat, inlet	367509	368509
6		1	Inlet housing	2329412	2329413
7		1	Valve tappet, complete	368	037
8		1	Sealing sleeve	2329	9898



OPERATING MANUAL

11.6 RELIEF COMBINATION (UP TO 270 BAR; 3916 PSI)



Pos	Κ	Stk	Order No.	Designation
1		1	2329023	Relief combination
2		1	2324549	Relief housing
3		2	2323718	Hexagon plug
4	•	1	169248	Relief valve, complete
5		1	2324552	Outlet pipe
6		1	3204611	Fitting-DF-MM-G1/4"-G1/4"-PN530-SSt
7		1	9992831	Loctite, 542 50 ml; 50 cc
8		1	9992616	Molykote DX grease
9		1	9992609	Anti-sieze paste tube



OPERATING MANUAL

11.7 STRAIGHT INLINE FILTER (UP TO 270 BAR; 3,916 PSI)



Pos	Κ	Stk	Order No.	Designation	
1		1	2324558	Inline filter DN6-PN270-G1/4"-SSt	
2		1	2324550	Filter inlet housing	
3	•	1	128389	Seal	
4	•	1	2315706	Filter insert, yellow	
5		1	2324551	Filter outlet housing	
6		1	9992609	Anti-sieze paste tube	

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OPERATING MANUAL

11.8 CURVED INLINE FILTER (UP TO 270 BAR; 3,916 PSI)



Pos	К	Stk	Order No.	Designation
1		1	2329026	Inline filter HL DN6-PN270-G1/4"-SSt
2		1	2326045	Filter inlet housing, pre-assembled
3	•	1	2315706	Filter insert, yellow
4		1	2311491	Turning handle
5		1	2325950	Filter outlet housing 90°, pre-assembled
6		1	9992609	Anti-sieze paste tube

VERSION 01/2013 ORDER NUMBER DOC 2333538

40 cm³–150 cm³

WÂGNER

OPERATING MANUAL





11.9 HIGH-PRESSURE FILTER (UP TO 530 BAR; 7687 PSI)



40 cm³–150 cm³

MAGNER

OPERATING MANUAL

			Ball valve version in:	Stainless steel	Carbon steel
Pos	К	Stk	Designation	Order No.	Order No.
1		1	HP filter DN12-PN530, complete	2329025	2335334
2		1	Filter housing	2324	1542
3		1	Union nut	2324	1543
4		1	Reducing double nipple with 2x60°	2330)780
5	٠	1	O-ring	9955	5863
7		1	Distribution housing for ball valve	2324	1670
10		1	Filter support	9894	1245
11	٠	1	Filter sieve *		
	••		* Filter sieve 200	295	721
	•		* Filter sieve 100	3514	1068
	••		* Filter sieve 50	3514	1069
	••		* Filter sieve 20	291	564
12	•	1	Cone spring	3514	1058
13		1	Reducing nipple	2328291	
20	•	1	Ball valve	2330156	9998679
21		1	Pressure ring d45	2325	562
23		1	Hexagon plug	2323	3718
33	•	1	Double connection	3204611	2325826
34		1	Loctite 542 50 ml; 50 cc	9992831	
35		1	Grease mobilux EP 2	9998808	
36		1	Anti-sieze paste tube	9992609	

 \bullet = Wearing part

• = Not part of the standard equipment but available as a special accessory.





OPERATING MANUAL

11.10 HIGH-PRESSURE FILTER (UP TO 270 BAR; 3,916 PSI)



40 cm³–150 cm³

WÂGNER

OPERATING MANUAL

			Ball valve version in:	Stainless steel
Pos	Κ	Stk	Designation	Order No.
1		1	HD filter DN10-PN270 SSt, complete	2329024
2		1	Filter housing	2324542
3		1	Union nut	2324543
4		1	Reducing double nipple with 2x60°	2325826
5	٠	1	O-ring	9955863
7		1	Distribution housing	2324544
8	•	1	Relief valve	169248
10		1	Filter support	9894245
11	٠	1	Filter sieve *	
	••		* Filter sieve 200	295721
	٠		* Filter sieve 100	3514068
	••		* Filter sieve 50	3514069
	••		* Filter sieve 20	291564
12	•	1	Cone spring	3514058
13		1	Outlet pipe	2324552
21		1	Press ring d45	2325562
23		1	Hexagon plug	2323718
34		1	Loctite 542 50 ml; 50 cc	9992831
35		1	Grease mobilux EP 2	9998808
36		1	Anti-sieze paste tube	9992609
37		1	Molykote DX grease	9992616

 \bullet = Wearing part

• = Not part of the standard equipment but available as a special accessory.

Incorrect maintenance/repair! Danger to life and equipment damage.
 → Only a WAGNER service center or a suitably trained person may carry out repairs and replace parts. → Only repair and replace parts that are listed in the chapter "Spare Parts Catalogue" and that are assigned to the device. → Before all work on the device and in the event of work interruptions: Disconnect the control unit from the mains. Relieve the pressure from the spray gun and device. Secure the spray gun against actuation. → Always follow the operating and service instructions at all times when carrying out work.



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11.11 TROLLEY



Pos	к	Stk	Designation	Order no. for Wildcat	Order no. for Puma	Order no. for Leopard
1		1	Trolley, complete	232	5901	2325916
2		1	Stand left 4"-6" (welded)			
3		1	Stand right 4"-6" (welded)			
4		4	Hexagon screw DIN931 M6x75		9907140	
5		6	Self-locking hexagon nut M6		9910204	
6 🔶		2	Wheel, D250		2304440	
7		4	Washer	340372		
8		4	Cotter pin	9995302		
9		1	Wheel axle 4"-6"			
10 🔶		2	Connecting part 4"-6"	367943		
11		2	Tube plug ribbed			
12		2	Saddle feet for round tubes			
13		2	Plug	-	-	
14		4	Hexagon bolt	990	0218	9900126
15		1	Wall mount	2332143 2332145		
16		2	Hexagon screw without shaft M6x55	3061695		
17 🔶		2	Handle		9998747	



OPERATING MANUAL

11.12 "HEAVY DUTY" TROLLEY



Pos	к	Stk	Designation	Order No. for Leopard	Order No. for Jaguar
1		1	Trolley, heavy duty	369	024
2		4	Washer, DIN125, A6.4 or A8.4	9920103	9920102
3	•	2	Wheel	9998892	
4		2	Fixed washer	9998894	
5		2	Quick fastener	9998895	
6		2	Stopper black		
7	•	2	Handle with hand protection	9998893	
8		4	Hexagon screw DIN931 M6x75 or M8x80	9907140	9900151

♦ = Wearing part

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OPERATING MANUAL

12 GUARANTEE AND CONFORMITY DECLARATIONS

12.1 IMPORTANT NOTES REGARDING PRODUCT LIABILITY

As a result of an EC regulation effective from January 1, 1990, the manufacturer shall only be liable for his product if all parts originate from him or are approved by him, and if the devices are properly mounted, operated and maintained.

The manufacturer will not be held liable or will only be held partially liable if third-party accessories or spare parts have been used.

With genuine WAGNER accessories and spare parts, you have the guarantee that all safety regulations are complied with.

12.2 GUARANTEE CLAIM

Full warranty is provided for this device:

We will at our discretion repair or replace free of charge all parts which within 36 months in single-shift, 18 months in double-shift or 9 months in triple-shift operation from date of receipt by the purchaser are found to be wholly or substantially unusable due to causes prior to the sale, in particular faulty design, defective materials or poor workmanship.

The type of warranty provided is such that the device or individual components of the device are either replaced or repaired as we see fit. The resulting costs, in particular shipping charges, road tolls, labour and material costs will be borne by us except where these costs are increased due to the subsequent shipment of the device to a location other than the address of the purchaser.

We do not provide warranty for damage that has been caused or contributed to for the following reasons:

Unsuitable or improper use, faulty installation or commissioning by the purchaser or a third party, normal wear, negligent handling, defective maintenance, unsuitable coating products, substitute materials and the action of chemical, electrochemical or electrical agents, except when the damage is attributable to us.

Abrasive coating products such as red lead, emulsions, glazes, liquid abrasives, zinc dust paints and so forth reduce the service life of valves, packaging, spray guns, nozzles, cylinders, pistons etc. Wear and tear due to such causes are not covered by this guarantee. Components that have not been manufactured by WAGNER are subject to the original warranty of the manufacturer.

Replacement of a component does not extend the period of warranty of the device.

The device should be inspected immediately upon receipt. To avoid losing the warranty, we or the supplier company are to be informed in writing about obvious faults within 14 days upon receipt of the device.

We reserve the right to have the warranty compliance met by a contracting company. The services provided by this warranty are dependent on evidence being provided in the form of an invoice or delivery note. If the examination discovers that no warranty claim exists, the costs of repairs are charged to the purchaser.

It is clearly stipulated that this warranty claim does not represent any constraint on statutory regulations or regulations agreed to contractually in our general terms and conditions.

J. Wagner AG



12.3 CE DECLARATION OF CONFORMITY

Herewith we declare that the supplied version of pneumatic pumps and their spraypacks:

Wildcat	Puma	Leopard	Jaguar
10-70	28-40	35-70	75-150
18-40	15-70	35-150	
	21-110	48-110	
	15-150		

comply with the following guidelines:

2006/42/EC 94/9/EC

Applied standards, in particular:

DIN EN ISO 12100: 2011	DIN EN ISO 13732-1: 2008	DIN EN 13463-1: 2009
DIN EN 809: 2012	DIN EN 14462: 2010	DIN EN 13463-5: 2011
DIN EN ISO 4413: 2011	DIN EN 12621: 2011	DIN EN ISO 80079-34: 2012
DIN EN ISO 4414: 2011	DIN EN 1127-1: 2011	

Applied national technical standards and specifications, in particular:

BGR 500 Part 2 Chapter 2.29 and Chapter 2.36 TRBS 2153

Identification:



EC Certificate of Conformity

The CE certificate of conformity is enclosed with this product. If needed, further copies can be ordered through your WAGNER dealer by specifying the product name and serial number.

Order number: 2302304

12.4 NOTES ON GERMAN REGULATIONS AND GUIDELINES

- a) BGR 500 Part 2, Chapter 2.36 "Working with liquid ejection devices"
- b) BGR 500 Part 2, Chapter 2.29 "Working with coating materials"
- c) BGR 104 Explosion protection rules
- d) TRBS 2153 Avoiding ignition risks
- e) BGR 180 Equipment for cleaning work pieces with solvents
- f) ZH 1/406 Guidelines for liquid ejection devices
- g) BGI 740 Painting rooms and equipment
- h) Betr.Sich.V. Plant Safety Ordinance

Note: All titles can be ordered from Heymanns Publishing House in Cologne, or they can be found on the Internet

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Germany	Switzerland
J.WAGNER GmbH	J. WAGNER AG
Otto-Lilienthal-Str. 18	Industriestrasse 22
Postfach 1120	Postfach 663
D- 88677 Markdorf	CH- 9450 Altstätten
Telephone: +49 7544 5050	Telephone: +41 (0)71 757 2211
Telefax: +49 7544 505200	Telefax: $+41(0)717572227$
F-Mail: service standard@wagner-group.com	E-Mail: ren-ch@wagner-group.ch
Belgium	Denmark
WSB Finishing Equipment	WAGNER Industrial Solution Scandinavia
Veilinglaan 56/58	Viborgvej 100, Skærgær
B- 1861 Wolvertem	DK- 8600 Silkeborg
Telephone: +32 (0)2 269 4675	Telephone: +45 70 200 245
Telefax: +32 (0)2 269 7845	Telefax: +45 86 856 027
E-Mail: info@wsb-wagner.be / HP www.wsb-wagner.eu	E-Mail info@wagner-industri.com
United Kingdom	France
WAGNER Sprawtoch (UK) Ltd	I WAGNED Franco S A P I
Hademara Way	Dars de Cutenharg - Râtiment E9
Tramway Industrial Estato	Voie la Cardon
Iramway industrial Estate	8, VOIE la Cardon
GB- Banbury, OXON OX 16 81 Y	F- 91127 Palaiseau-Cedex
Telephone: +44 (0) 1295 265 353	Telephone: +33 1 825 011 111
Teletax: +44 (0)1295 269861	Telefax: +33 1691 946 55
E-Mail: enquiries@wagnerspraytech.co.uk	E-Mail: division.solutionsindustrielles@wagner-france.fr
Netherlands	Italy
WSB Finishing Equipment B.V.	WAGNER COLORA S.r.I
De Heldinnenlaan 200	Via Fermi, 3
NL- 3543 MB Utrecht	I- 20875 Burago di Molgora (MB)
Telephone: +31 (0) 30 241 4155	Telephone: +39 039 625021
Telefax: +31 (0) 30 241 1787	Telefax: +39 039 6851800
E-Mail: info@wsb-wagner.nl / HP www.wsb-wagner.eu	E-Mail: info@wagnercolora.com
lanan	Austria
WAGNED Sprawtoch Ltd	I WAGNED CMBH
2 25 Shindon Nichimachi	Otto Lilionthal Str 19
	Death an 1120
J- Daito Shi, Osaka, 574-0057	Posttach 1120
	D- 88077 Markuori
T L (reieprione: +49 (0) 7544 5050
1eletax: +81/ (0) /20 8/4 3426	leietax: +49 (0) /544 505200
E-Mail: marketing@wagner-japan.co.jp	E-Mail: service.standard@wagner-group.com
Sweden	Spain
WAGNER Industrial Solutions Scandinavia	WAGNER Spraytech Iberica S.A.
Skolgatan 61	Ctra. N- 340, Km. 1245,4
SE- 568 31 Skillingaryd	E- 08750 Molins de Rei (Barcelona)
Telephone: +46 (0) 370 798 30	Telephone: +34 (0) 93 680 0028
Telefax: +46 (0) 370 798 48	Telefax: +34 (0) 93 668 0156
F-Mail: info@wagner-industri.com	F-Mail: info@wagnerspain.com
Crochoclovakia	
WAGINER S.I.U.	WAGINER Systems IIIC.
15521 Praha 5 - Zlicin	Eigin, IL 60123 USA
Telephone: +42 (0) 2 579 50 412	lelephone:+1 630 503 2400
Teletax: +42 (0)2 579 51 052	Teletax: +1 630 503 2377
E-Mail: info@wagner.cz	E-Mail: info@wagnersystemsinc.com



Order No. 2333538

Germany

J. WAGNER GmbH Otto-Lilienthal-Str. 18 Postfach 1120 **D- 88677 Markdorf** Tel. +49/ (0)7544 / 5050 Fax +49/ (0)7544 / 505200 E-mail service.standard@wagner-group.com

Switzerland

J. WAGNER AG Industriestrasse 22 Postfach 663 **CH- 9450** Altstätten Tel. +41/(0)71/757 2211 Fax +41/(0)71/757 2222

www.wagner-group.com