

Translation of the Original Operating Manual

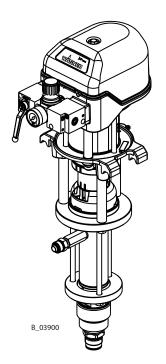
Wildcat	Puma
10-70	28-40
18-40	15-70
	21-110
	15-150
Leopard	Jaguar
35-70	75-150

35-150

48-110

Version 01/2013

IceBreaker Piston Pumps Flow Rate 40 cm³-150 cm³







Contents

ABOUT THESE INSTRUCTIONS Preface Warnings, Notices and Symbols in these Instructions Languages Abbreviations in the Text	6 6 7 7
CORRECT USE Device Types Type of Use Use in an Explosion Hazard Area Safety Parameters Processible Materials Reasonably Foreseeable Misuse Residual Risks	8 8 8 8 8 9 9
IDENTIFICATION Explosion Protection Identification Identification X	11 11 11
GENERAL SAFETY INSTRUCTIONS Safety Instructions for the Operator Electrical Equipment Personnel Qualifications Safe Work Environment Safety Instructions for Staff Safe Handling of WAGNER Spray devices Grounding the Device Material Hoses Cleaning Handling Hazardous Liquids, Varnishes and Paints Touching Hot Surfaces Use in Areas Subject to Explosion Hazards Safety Regulations Operation without Fluid	12 12 12 12 12 13 13 14 14 15 15 15 16 16
Measurements and Connections for Wildcat and Puma Technical Data for Leopard and Jaguar	17 17 17 18 18 18 19 19 20 20 21 22
	Preface Warnings, Notices and Symbols in these Instructions Languages Abbreviations in the Text CORRECT USE Device Types Type of Use Use in an Explosion Hazard Area Safety Parameters Processible Materials Reasonably Foreseeable Misuse Residual Risks IDENTIFICATION Explosion Protection Identification Identification X GENERAL SAFETY INSTRUCTIONS Safety Instructions for the Operator Electrical Equipment Personnel Qualifications Safe Work Environment Safety Instructions for Staff Safe Handling of WAGNER Spray devices Grounding the Device Material Hoses Cleaning Handling Hazardous Liquids, Varnishes and Paints Touching Hot Surfaces Use in Areas Subject to Explosion Hazards Safety Regulations Operation without Fluid DESCRIPTION Areas of Application Correct Use Processible Materials Recommended Application Areas Scope of Delivery Data Materials of Wetted Parts Recommended Packings



Contents

5.3.4	Volume Flow	24
5.3.5	Performance Diagrams	24
5.4	Function	30
5.4.1	Pump	30
5.4.2 5.4.3	Pressure Regulator Device High-Pressure Filter (Option)	31 31
	High-Pressure Filter (Option)	31
	Relief Combination and Inline Filter up to 270 bar (Option)	32
5.4.4	Stroke Count (Option)	32
6	ASSEMBLY AND COMMISSIONING	33
6.1	Transportation	33
6.2	Storage	33
6.3	Assembling the Pump	34
6.4	Grounding	35
6.5 6.5.1	Commissioning Safety Instructions	37 37
6.5.2	Filling up with Separating Fluid	38
6.5.3	Basic Cleaning	39
7	OPERATION	40
7.1	Filling with Working Material	40
7.2	Work	41
7.2.1	Spraying	41
7.2.2	Pressure Relief / Work Interruption	41
7.2.3 7.3	Decommissioning and Cleaning Long-Term Storage	42 42
8	TROUBLE SHOOTING AND RECTIFICATION	43
9	MAINTENANCE	44
9.1	High-Pressure Hoses	45
9.2	Decommisioning	45
10	ACCESSORIES	46
10.1 10.1.1	Accessories for Wildcat and Puma Pumps	46
10.1.1	Material Outlet Accessories Material Inlet Accessories	46 48
10.1.2	Trolley, Rack and Wall Bracket Accessories	50
10.2.5	Accessories for Leopard and Jaguar Pumps	52
10.2.1	Material Outlet Accessories	52
10.2.2	Material Inlet Accessories	54
10.2.3	Trolley and Wall Bracket Accessories	56
11	SPARE PARTS	57
11.1	How can Spare Parts be Ordered?	57
11.2	Overview of Components	58
11.3	Air Motors	62
11.3.1 11.3.2	Wildcat, Puma, Leopard Air Motors Wildcat and Puma Air Motor Regulators	62 66
11.3.2	Leopard Air Motor Regulator	67
11.3.3	LCOPATA ATT MOTOL NEGUTATOL	07

WÄGNER

Contents

11.3.4	Jaguar Air Motor	68
11.3.5	Jaguar Air Motor Regulator	72
11.4	Fluid Sections	73
11.4.1	Fluid Sections 40 cm ³	73
11.4.2	Fluid Sections 70 cm ³	76
11.4.3	Fluid Sections 110 cm ³	79
11.4.4	Fluid Sections 150 cm ³	82
11.5	Inlet Valve with Valve Depressor	85
11.6	Relief Combination (up to 270 bar; 3916 psi)	86
11.7	Straight Inline Filter (up to 270 bar; 3,916 psi)	87
11.8	Curved Inline Filter (up to 270 bar; 3,916 psi)	88
11.9	High-Pressure Filter (up to 530 bar; 7687 psi)	90
11.10	High-Pressure Filter (up to 270 bar; 3,916 psi)	92
11.11	Trolley	94
11.12	"Heavy Duty" Trolley	95
12	GUARANTEE AND CONFORMITY DECLARATIONS	96
12.1	Important Notes Regarding Product Liability	96
12.2	Guarantee Claim	96
12.3	CE Declaration of Conformity	97
12.4	Notes on German Regulations and Guidelines	97



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

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

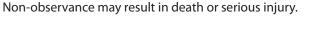
This equipment can be dangerous if it is not operated according to the definitions in this operating manual.

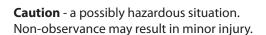
1.2 WARNINGS, NOTICES AND SYMBOLS IN THESE INSTRUCTIONS

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.

Warning - possible imminent danger.





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



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

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.



⚠ 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.



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	Order No.	Language	Order No.
German	2335993	English	2335994

1.4 ABBREVIATIONS IN THE TEXT

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



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.
- → 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:

- → The operating staff must be trained on the basis of this operating manual.
- → 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.



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,
- → 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.

ORDER NUMBER DOC 2333538



2.7 RESIDUAL RISKS

OPERATING MANUAL

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 clothing,	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



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 II2: Category 2 (Zone 1)G: Ex-atmosphere gasIIB: 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.

- → 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

 \rightarrow 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.



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.
- → May only be maintained by skilled electricians or under their supervision.
- → Must be operated in accordance with the safety regulations and electrotechnical regulations.
- → Must be repaired immediately in the event of problems.
- → 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

→ 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.





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:

- → Never point the spray gun at people.
- → 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:

- → Note down the paint or cleaning agent that you have been using.
- → Consult a doctor immediately.

Avoid danger of injury through recoil forces:

- → Ensure that you have firm footing when operating the spray gun.
- → Only hold the spray gun briefly in a position.





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.



- → Ensure that the device is grounded for every spraying operation.
- → 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

- → 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.
- → Make sure that the hoses are never used to pull or move the equipment.
- → 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.





4.2.4 CLEANING

- → De-energize the device electrically.
- → Disconnect the pneumatic supply line.
- → 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.
- → Use only electrically conducting containers for cleaning liquids.
- → 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.
- → 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.
- → 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.
- \rightarrow 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 9998911 Protection sticker **Note:** Order the two stickers together.





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:

- → Do not knock or push the device against steel or rusty iron.
- → Do not drop the device.
- → 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.
- → 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.

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





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	7	A	A	A	Я	Я
Solvent based varnish and paints	7	A	A	A	Я	×
Primers				×	Я	A
Epoxy and polyurethane paints and		7		Я	Я	7
varnish, phenolic paints and varnish						
Liquid plastics	*		*	×	A	×
Wax based underside protection	*	*	*	×	×	7
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.)



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	A	×	×	×	7	*
Kitchen manufacturers	Я	×	×	×	7	*
Joinery	A	×	A		*	*
Window factories	·		A	A	7	*
Steel fabrication	*		*	A	7	×
Construction of vehicles	A	×	Я	×		
Shipbuilding	*	*	*			7

Legend

✓ recommended

→ limited suitability

✓ less suitable

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:

Separating fluid 250 ml; 250 ccOrder No.:9992504Declaration of conformityseeChapter 12Operating manual GermanOrder No.:2333537Operating manual in the local languageseeChapter 1

The delivery note shows the exact scope of delivery.



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	Transparent
	polvethylene	

PTFE Т white

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

	L	TG	PE	T
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

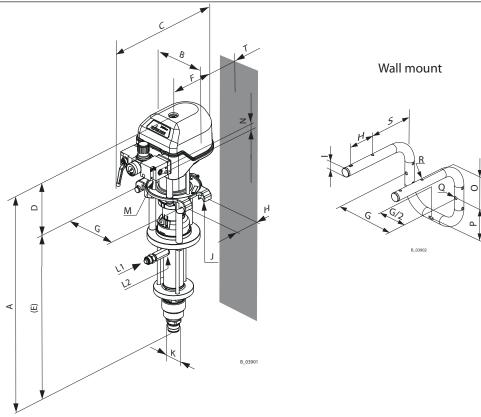
Description	devices	WILDCAT 10-70	WILDCAT 18-40	PUMA 28-40	PUMA 15-70	PUMA 21-110	PUMA 15-150	
Pump ratio		10:1	18:1	28:1	15 :1	21:1	15 :1	
Volume flow per double stroke(DH)	cm³; cc	70	40	40	70	110	150	
Maximum operating pressure	MPa	8	14.4	22.4	12	16.8	12	
	bar	80	144	224	120	168	120	
	psi	1,160	2,089	3,249	1,740	2,436	1,740	
Maximum possible strokes in operation	DH/min	60	60	60	60	60	60	
Minimum / maximum air inlet	MPa			0.25-0	0.8			
pressure	bar			2.5-8	3			
	psi			36-11	6			
Ø air inlet connection (inside thread)	inch			G 1/2	."			
Minimum Ø of the compressed air supply line	mm; inch			9; 0.3	5			
Air consumption at 0.6 MPa; 6 bar;	nl	5.3 8.3			16.5			
87 psi per double stroke	scf	0.19 0.29 0.5			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 permissible air pressure*	dB(A)	77	77	78	77	78	78	
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; 4 bar; 58 psi air pressure*	dB(A)	69	69	69	69	69	69	
Ø material inlet connection (outside thread)	mm	M 36x2						
Material outlet (outside thread)	mm			M 24x	1.5			
Weight	kg; lb	17; 38				62		
Material pH	pН			3.5 ÷	9			
Maximum material pressure at	•		2					
pump inlet	bar			20				
	psi	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).



5.3.3.2 MEASUREMENTS AND CONNECTIONS FOR WILDCAT AND PUMA

	WILDCAT	WILDCAT	PUMA	PUMA	PUMA	PUMA
	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;	13.2
E	474.5; 18.7	460.5	; 18.1	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					
K	M36x2					
L1			M24	x1.5		
L2			G3	/8"		
M			G1	/2"		
N	G1/4"					
0	106; 4.2					
Р	96.5; 3.8					
Q	ø 9; ø 0.35					
R	ø 7; ø 0.28					
S	149; 5.9					
Т	55; 2.2					





5.3.3.3 TECHNICAL DATA FOR LEOPARD AND JAGUAR

Description	Units	LEOPARD	LEOPARD	LEOPARD	JAGUAR
		35-70	48-110	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; 0.98
Air consumption at 0.6 MPa; 6 bar; 87 psi per	nl	18.6	37	37.3	
double stroke	scf	0.66	1.32		2.82
Diameter piston of air motor	mm; inch	150; 6 220			220; 8.7
Air motor piston stroke	mm; inch	75; 3 150; 6		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)	74 78		81	
Sound pressure level at 0.4 MPa; 4 bar; 58 psi air pressure*	dB(A)	71 69 7		4	
Ø material inlet connection (outside thread)	mm		M36	5x2	
Material outlet (outside thread)	mm		M24:	x1.5	
Weight	kg; lb	26; 57	36; 79		53; 117
Material pH	рН		3.5 -	÷ 9	
Maximum material pressure at pump inlet	MPa		2		
	bar		20)	
	psi		29	0	
Material temperature	°C; °F	+5 ÷ +80; +41 ÷ +176			
Ambient temperature	°C; °F		+5 ÷ +60; +		
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!

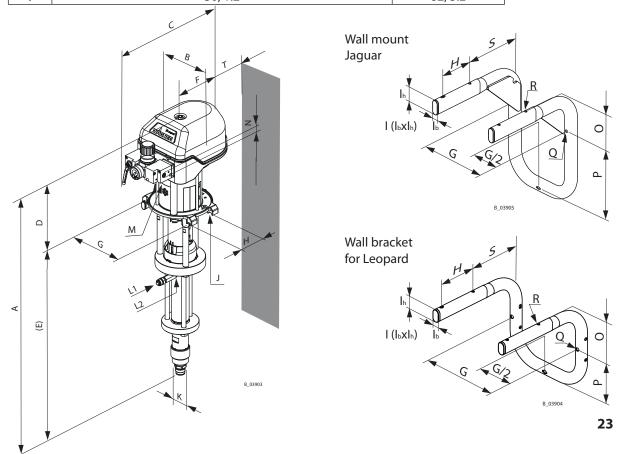
Risk of poisoning if inhaled. Air motor switching problems.

→ Provide compressed air free from oil and water (quality standard 5.5.4 according to ISO 8573.1) 5.5.4 = $40 \mu m / +7 / 5 mg/m^3$.



5.3.3.4 MEASUREMENTS AND CONNECTIONS FOR LEOPARD AND JAGUAR

	LEOPARD 35-70	LEOPARD 48-110	LEOPARD 35-150	JAGUAR 75-150		
	mm; inch	mm; inch	mm; inch	mm; inch		
Α	799; 31.5	1080	; 42.5	1200; 47.2		
В		240; 9.4		304; 12		
C		~ 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		230	; 9.1			
Н		11	0			
I		20x48; 0.8x1.9				
J		M8				
K	M36x2					
L1	M24x1.5					
L2						
M		G1/2"		G1"		
N		G1/4"		-		
0			135.5; 5.3			
Р		238; 9.4				
Q						
R		ø 7; ø 0.28		ø 9; ø 0.35		
S		167; 6.6	206; 8.1			
Т		30; 1.2	82; 3.2			





5.3.4 VOLUME FLOW

Wagner AL nozzles			Volume flo	ow* in l/mi	n		
				at	at	at	
				7 MPa	10 MPa	15 MPa	
				70 bar	100 bar	150 bar	
	Ø inch	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

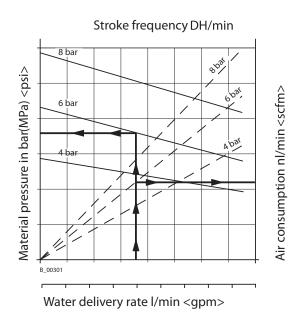
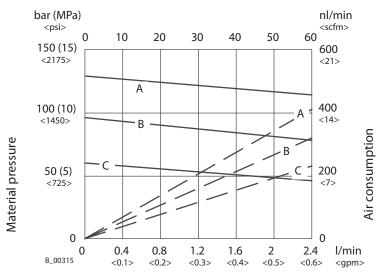




Diagram for WILDCAT 18-40

Stroke frequency DH/min



Water delivery rate

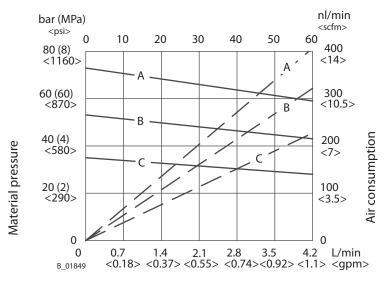
A = 8 bar; 0.8 MPa; 116 psi air pressure

B = 6 bar; 0.6 MPa; 87 psi air pressure

C = 4 bar; 0.4 MPa; 58 psi air pressure

Diagram for WILDCAT 10-70

Stroke frequency DH/min



Water delivery rate

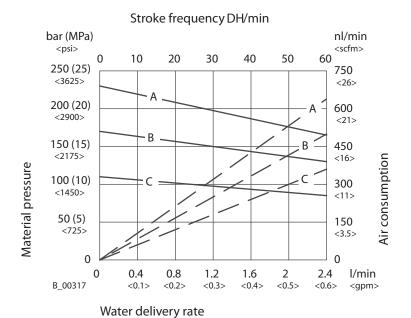
A = 8 bar; 0.8 MPa; 116 psi air pressure

B = 6 bar; 0.6 MPa; 87 psi air pressure

C = 4 bar; 0.4 MPa; 58 psi air pressure



Diagram for PUMA 28-40

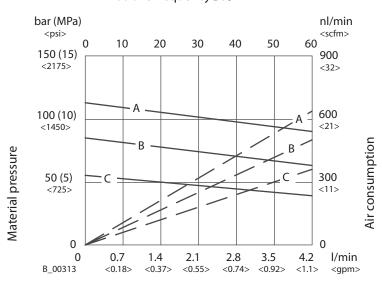


A = 8 bar; 0.8 MPa; 116 psi air pressure B = 6 bar; 0.6 MPa; 87 psi air pressure

C = 4 bar; 0.4 MPa; 58 psi air pressure

Diagram for PUMA 15-70

Stroke frequency DH/min



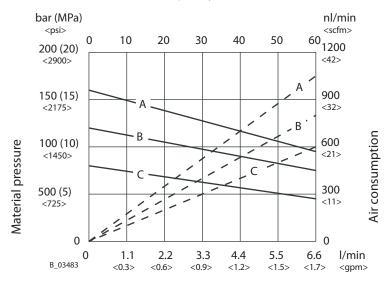
Water delivery rate

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



Diagram for PUMA 21-110

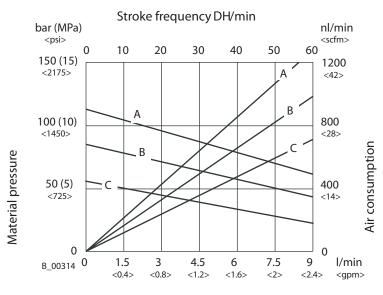
Stroke frequency DH/min



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

Diagram for PUMA 15-150

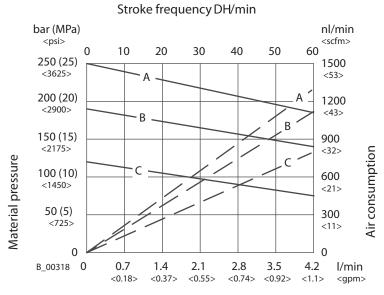


Water delivery rate

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



LEOPARD 35 - 70 diagram



Water delivery rate

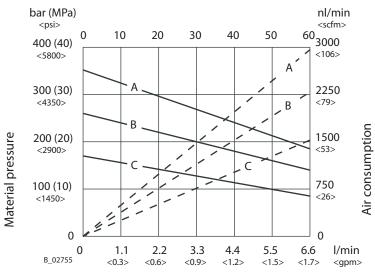
A = 7.1 bar; 0.71 MPa; 103 psi air pressure

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



Water delivery rate

A = 8 bar; 0.8 MPa; 116 psi air pressure

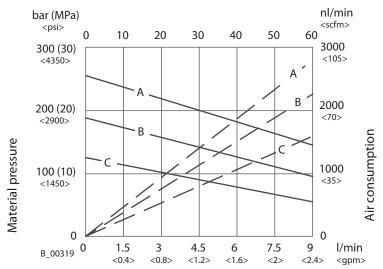
B = 6 bar; 0.6 MPa; 87 psi air pressure

C = 4 bar; 0.4 MPa; 58 psi air pressure



Diagram for LEOPARD 35-150



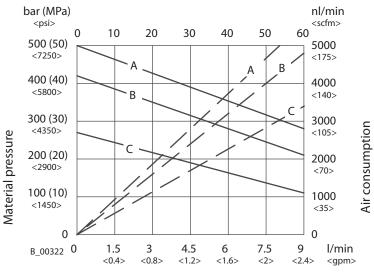


Water delivery rate

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



Water delivery rate

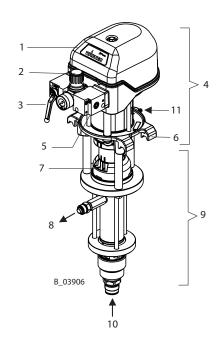
A = 7.1 bar; 0.71 MPa; 103 psi air pressure B = 6 bar; 0.6 MPa; 87 psi air pressure C = 4 bar; 0.4 MPa; 58 psi air pressure



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.

→ 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.

Pneumatic pump Puma 28-40 AirCoat

OPERATING MANUAL

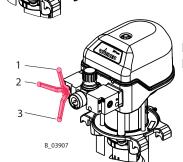


5.4.2 PRESSURE REGULATOR DEVICE

- 1 Pressure regulator
- 2 Ball valve
- 3 Pressure gauge
- 4 Compressed air inlet
- 5 AirCoat regulator (option)

Positions of the ball valve

- 1 Closed: operating pressure in the air motor will be relieved (control pressure is still present).
- 2 Closed: the air motor can still be under pressure
- 3 Open: working position



Pneumatic pump Puma 28-40 Airless

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)

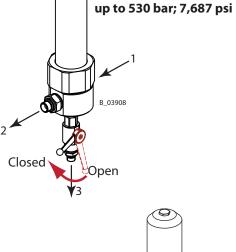
To ensure problem-free operation it is recommended that a WAGNER high pressure filter be used. These have been developed especially for WAGNER pneumatic pumps. The filter inserts can be exchanged depending on the material to be used. The respective high pressure filters and their inserts for the device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

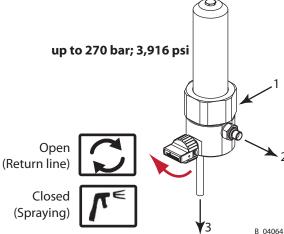
- 1 Fluid section connection
- 2 Material outlet
- 3 Return line



Preferred filter

installation position





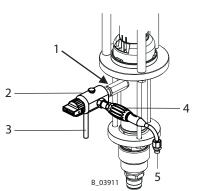


5.4.3.2 RELIEF COMBINATION AND INLINE FILTER UP TO 270 BAR (OPTION)

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



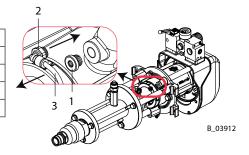
5.4.4 STROKE COUNT (OPTION)

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.

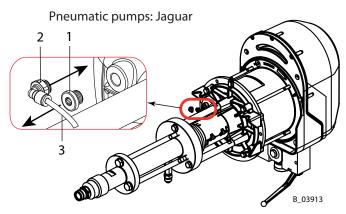
The pressure signal corresponds to the set working air pressure and is available during the complete upwards stroke of the pump. If both of the signal flanks are evaluated, the upper and lower reversal point can be determined. A 4/2mm; 0.16/0.08 inch air hose is used as an air signal line.

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









6 ASSEMBLY AND COMMISSIONING

6.1 TRANSPORTATION

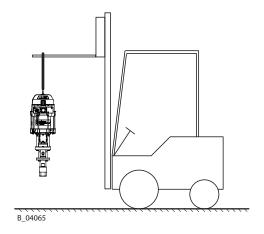
Pump types: Wildcat, Puma, and Leopard

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.



MARNING

Discharge of electrostatically charged components in atmospheres containing solvents!

Explosion hazard from electrostatic sparks.

→ Clean the pump only with a damp cloth.



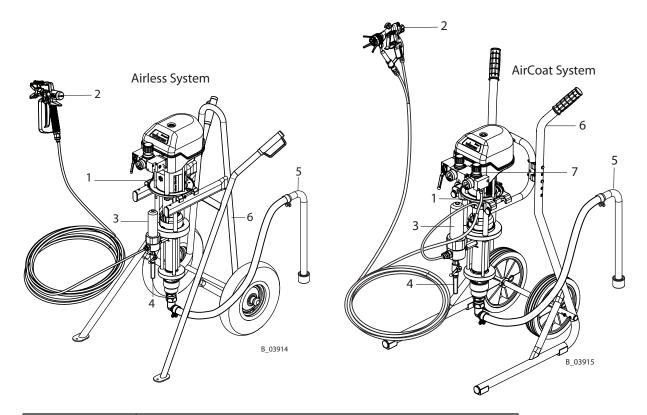
6.3 ASSEMBLING THE PUMP

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.
- → Secure the trolley.



6.4 GROUNDING



№ WARNING

Discharge of electrostatically charged components in atmospheres containing solvents!

Explosion hazard from electrostatic sparks.

→ Clean the piston pump only with a damp cloth.



№ WARNING

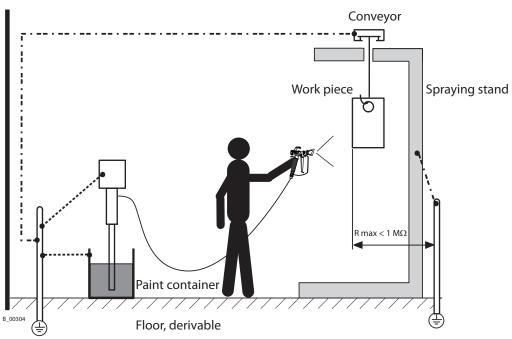
Heavy paint mist if grounding is insufficient!

Danger of poisoning.

Insufficient paint application quality.

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

Grounding scheme (example)



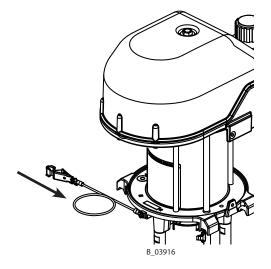


Cable cross sections

Pump 4 mm²; AWG11
Paint container 6 mm²; 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





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.



№ WARNING

High pressure spray jet!

Danger to life from injecting paint or solvent.

- → Never reach into the spray jet.
- → Never point the spray gun at people.
- → Consult a doctor immediately in the event of skin injuries caused by paint or solvent. Inform the doctor about the paint or solvent used.
- → Never seal defective high pressure parts, instead relieve the pressure from them and replace them.



№ WARNING

Toxic and/or flammable vapor mixtures!

Risk of poisoning and burns.

- → Operate the device in a spray booth approved for the working materials.
 - or -
- → Operate the device on an appropriate spraying wall with the ventilation (extraction) switched on.
- → Observe national and local regulations for the outgoing air speed.



↑ 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.



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

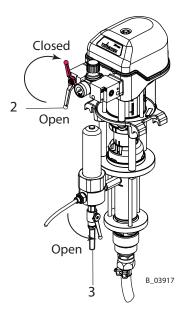
- Secure gun with safety clip
- Check the permissible pressures.
- Check all connections for leaks.
- Check hoses for damage.

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.



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

NOTICE

Piston pump dry run!

High wear/damage to the packages.

Paint or solvent can escape if the seals are dry.

→ Ensure that the separating fluid container is filled with sufficient separating fluid. Filling level 1 cm; 0.4 inch under the pot edge.

Place the supplied separating fluid into the separating fluid cup.

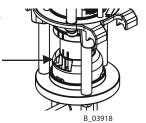
Filling level: 1 cm; 0.4 inch under the cup edge.

Separating fluid: Order No. 9992504

Note

Maximum permissible inclination of pump for moving, transportation etc. after filling it with separating fluid \pm 30°.

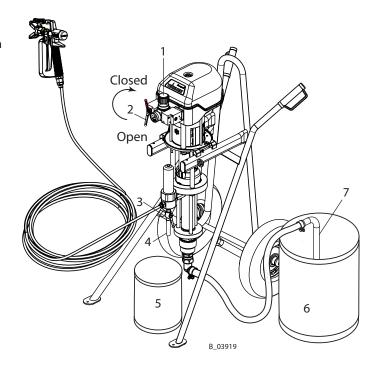
The pump must be vertical during operation.





6.5.3 BASIC CLEANING

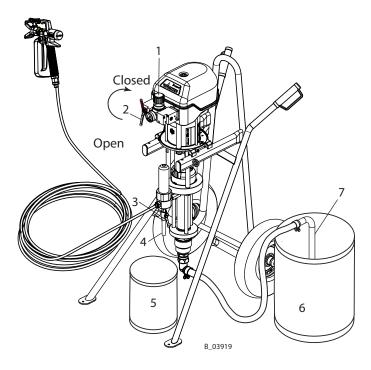
- 1. Place empty container (5) under return pipe (4).
- 2. Place suction hose (7) in the container with flushing agent (6).
- 3. Adjust the pressure regulator (1) to approx. 0.05 MPa; 0.5 bar; 7.25.
- 4. Open return valve (3).
- 5. Slowly open the ball valve (2).
- 6. Adjust the air pressure on the pressure 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.





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!

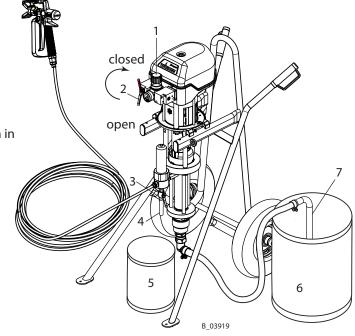
- 3. Adjust the pressure regulator (1) to approx. 0.05 MPa; 0.5 bar; 7.25.
- 4. Open return valve (3).
- 5. Slowly open the ball valve (2).
- 6. Adjust the air pressure on the pressure regulator (1) so that the pump runs regularly.
- 7. Close ball valve (2) as soon as pure working material starts coming 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.



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.
- → The pot life is decreased by warmth.



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



№ WARNING

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".



<u> N</u> 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.



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.



9 MAINTENANCE



MARNING

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.



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.



! DANGER

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

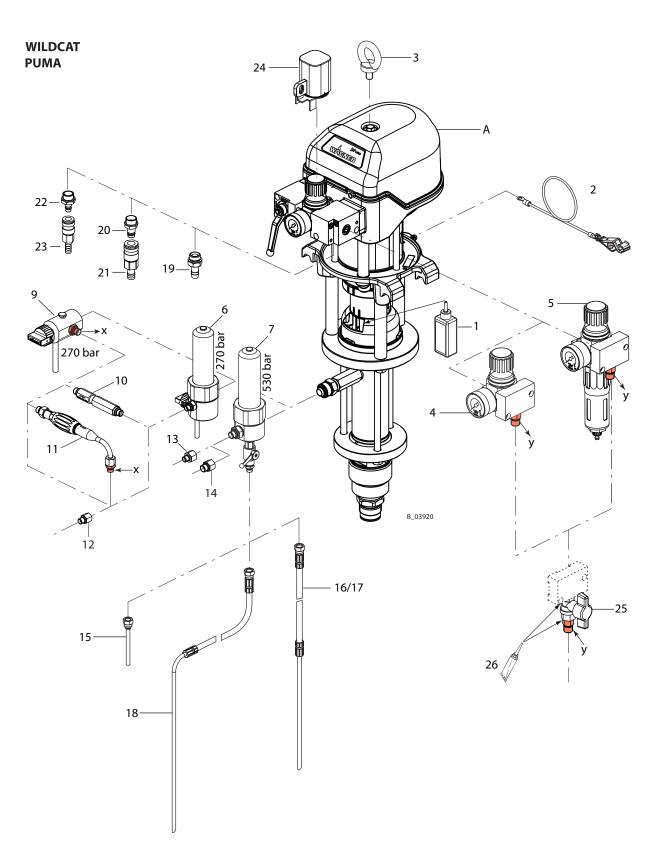
10.1 ACCESSORIES FOR WILDCAT AND PUMA PUMPS

10.1.1 MATERIAL OUTLET ACCESSORIES

	List accessories		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 232943					
1	Separating fluid 250 ml; 250 cc			9992	504		
2	Ground cable 3 m; 9.8 ft			2362	219		
3	Ring screw	9907133					
4	AirCoat Regulator			2328	611		
5	AirCoat filter regulator, complete			2333	478		
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			2329	026		
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			
19	Plug-in nipple with hose connector DN13			9985	619		
20	Plug-in nipple with quick-release coupling DN13			9998	813		
21	Quick release coupling with hose connector DN 13			9998	812		
22	Plug-in nipple with quick-release coupling DN10			9998	810		
23	Quick release coupling with hose connector DN 10	9998811					
24	Regulator lock			2334	956		
25	Ball valve DN7-PN10-G1/4-R1/4-CB			2335	815		
26	Loctite, 542 50 ml; 50 cc			9992	831		
A 147	ing part	•					

[◆] Wearing part







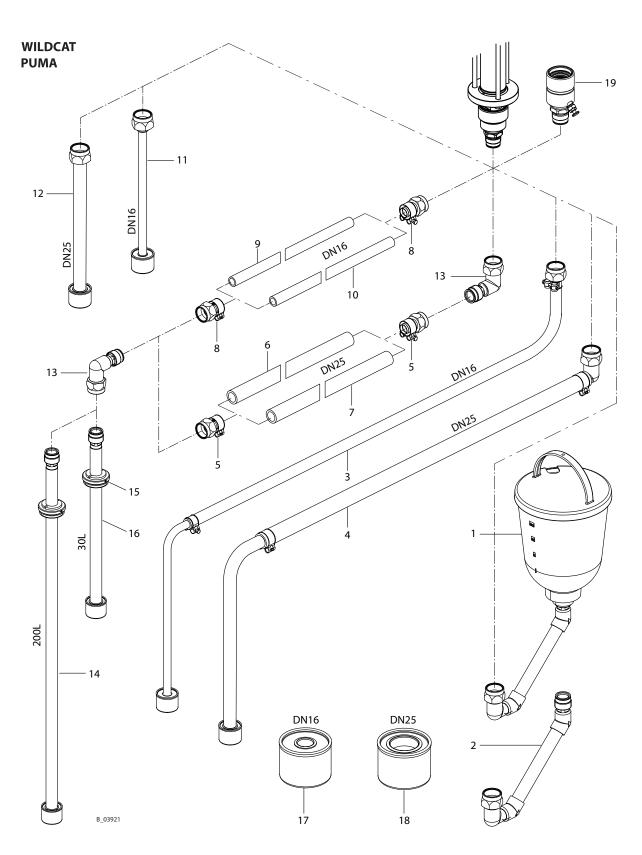
10.1.2 MATERIAL INLET ACCESSORIES

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 10-70	WILDCAT 18-40	PUMA 28-40	PUMA 15-70	PUMA 21-110	PUMA 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		Top reservoir set 5 l for piston pump		2332169				
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			2324	116		
5		LP hose fitting DN25-M36-SSt			2325	408		
6	•	LP hose DN25-PN10-EPDM (per meter)			2323	474		
7	♦	LP hose DN25-PN10-PE (per meter)			2323	595		
8		LP hose fitting DN16-M36-SSt			2325390			
9	•	LP hose DN16-PN10-EPDM (per meter)			2323329			
10	♦	LP hose DN16-PN10-PE (per meter)			2323597			
11		Suction pipe DN16-SSt, complete		2324	1158			
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"			2315	163		
16		Suction pipe DN25-30L-SSt, complete	2324241					
17	♦	Suction filter DN16-18mesh-SSt			2323396			
18	♦	Suction filter DN25-18mesh-SSt			2323	325		
19		Inlet valve with valve depressor	2329688	2329	9689	2329688		

[◆] Wearing part



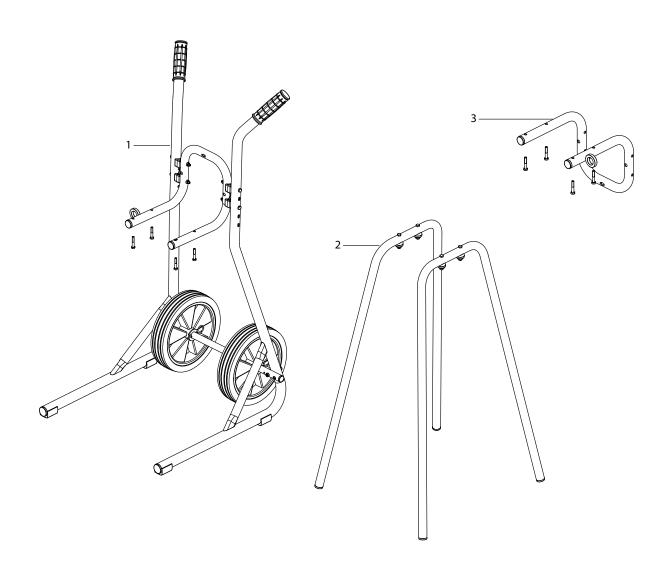




10.2.3 TROLLEY, RACK AND WALL BRACKET ACCESSORIES

List accessories		WILDCAT 10-70	WILDCAT 18-40	PUMA 28-40	PUMA 15-70	PUMA 21-110	PUMA 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	Trolley 4", complete			2325	901		
2	Rack 4", complete	2332374					
3	Wall bracket 4", complete		2332143				

◆ Wearing part



OPERATING MANUAL	WÂGNER



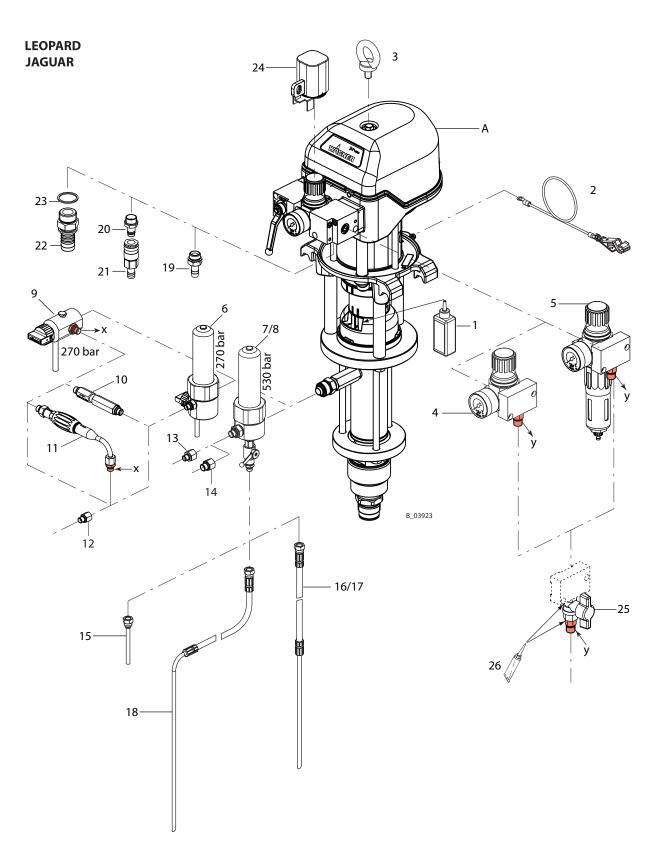
10.2 ACCESSORIES FOR LEOPARD AND JAGUAR PUMPS

10.2.1 MATERIAL OUTLET ACCESSORIES

		Accessories list	LEOPARD	LEOPARD	LEOPARD	JAGUAR
		Accessories list	35-70	35-150	48-110	75-150
Pos	K	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		Separating fluid 250 ml; 250 cc		9992	2504	
2		Ground cable 3 m; 9.8 ft		236	219	
3		Ring screw		9907	7133	
4		Air coat regulator		2328	3611	
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	334
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	9985671			9985671
23		Sealing ring 1"				9974135
24		Regulator lock		2334957		2334958
25		Ball valve DN7-PN10-G1/4-R1/4-CB		2335	5815	
26		Loctite, 542 50 ml; 50 cc		9992	2831	

[◆] Wearing part







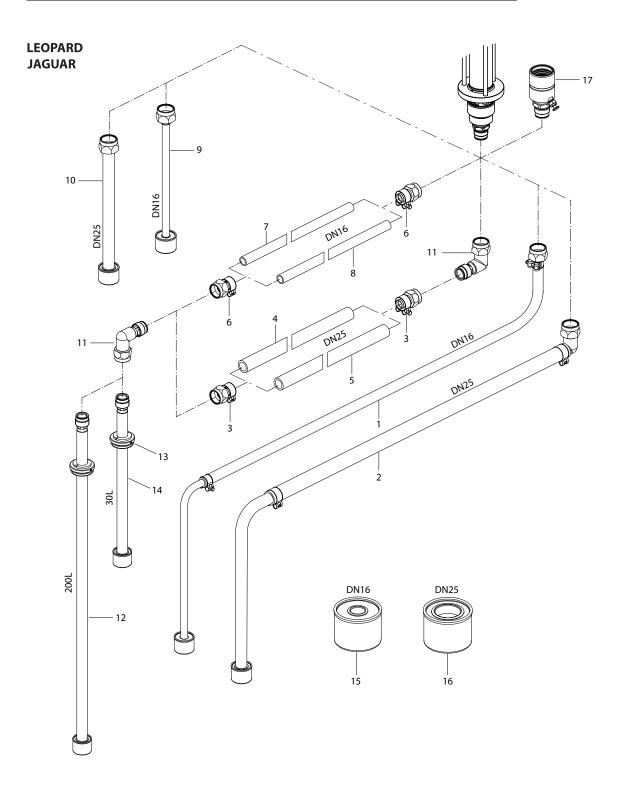
10.2.2 MATERIAL INLET ACCESSORIES

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 35-70	LEOPARD 35-150	LEOPARD 48-110	JAGUAR 75-150
Pos	K	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	♦	Flex suction hose DN16-SSt, complete	2324110		-	
2	♦	Flex suction hose DN25-SSt, complete		2324	1116	
3		LP hose fitting DN25-M36-SSt		2325	5408	
4	♦	LP hose DN25-PN10-EPDM (per meter)		2323	3474	
5	♦	LP hose DN25-PN10-PE (per meter)		2323	3595	
6		LP hose fitting DN16-M36-SSt	2325390			
7	♦	LP hose DN16-PN10-EPDM (per meter)	2323329			
8	♦	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	1247	
12		Suction pipe DN25-200L-SSt, complete		2324	1238	
13		Bung adapter DN25-G2"		2315	5163	
14		Suction pipe DN25-30L-SSt complete		2324	1241	
15	♦	Suction filter DN16-18mesh-SSt	2323396			
16	♦	Suction filter DN25-18mesh-SSt		2323	3325	
17		Inlet valve with valve depressor	2329688			

[♦] Wearing part



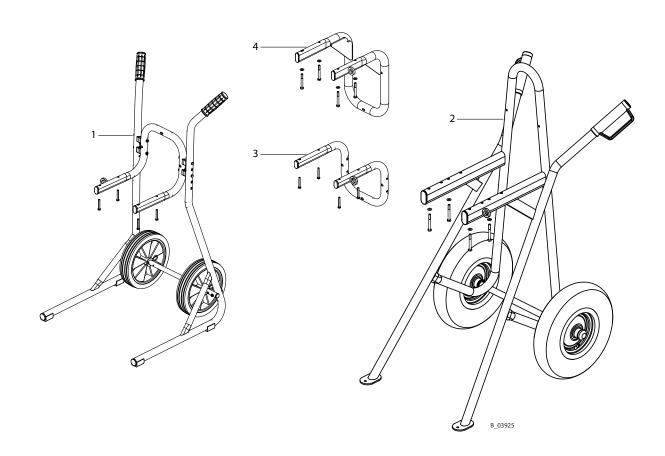




10.2.3 TROLLEY AND WALL BRACKET ACCESSORIES

	List accessories	LEOPARD 35-70	LEOPARD 35-150	LEOPARD 48-110	JAGUAR 75-150	
Pos K	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	Trolley 6", complete		232	5916		
2	Trolley Heavy Duty, complete		369	024		
3	Wall bracket 6", complete	2332145				
4	Wall bracket 9", complete	369020				

◆ Wearing part





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.



№ WARNING

Incorrect maintenance/repair!

Risk of injury and equipment damage.

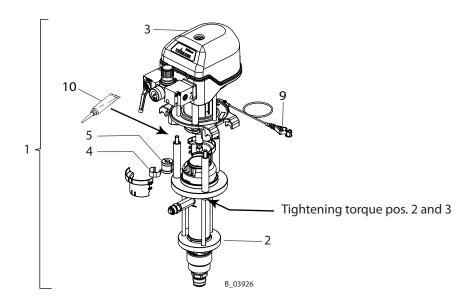
- → Have repairs and part replacements be carried out only by specially trained staff or a WAGNER service center.
- → Before all work on the device and in the event of work interruptions:
 - Switch off the energy/compressed air supply.
 - Relieve the pressure from the spray gun and device.
 - Secure 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.



11.2 OVERVIEW OF COMPONENTS

		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		2329	9613			
4	Spring		367	530			
5	Coupling	367	7579	3675	529		
9	Grounding cable, complete	236219					
10	Molykote DX grease	9992616					
Tigh	tening torque air motor / fluid section		25 Nm;	: 18 lbft			





		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		2329	9617			
4	Spring		367	530			
5	Coupling	367	529	367	579		
9	Grounding cable, complete	236219					
10	Molykote DX grease	9992616					
Tigh	tening torque air motor / fluid section		25 Nm;	18 lbft			

		PUMA 15-150	PUMA 15-150	PUMA 21-110	PUMA 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		367	579				
9	Grounding cable, complete		236219					
10	Molykote DX grease		9992616					
Tigh	tening torque air motor / fluid section		50 Nm;	; 37 lbft				

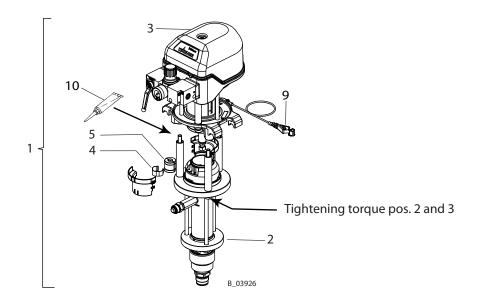


		LEOPARD	LEOPARD	LEOPARD	LEOPARD	
		35-70	35-70	35-150	35-150	
		PE/TG	PE/T	PE/TG	PE/T	
Pos	Designation	No.	No.	No.	No.	
1	Piston pump	2329479	2329481	2329484	2329486	
2	Fluid section	2329645	2329647	2329650	2329652	
3	Air motor	2329	9621	2329	9623	
4	Spring		368	530		
5	Coupling		368	529		
9	Grounding cable, complete	236219				
10	Molykote DX grease	9992616				
Tigh	tening torque air motor / fluid section	25 Nm;	18 lbft	50 Nm;	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		
Tiah	tening torque air motor / fluid section		50 Nm; 37 lbft		



		JAGUAR 75-150 PE/TG	JAGUAR 75-150 PE/T	JAGUAR 75-150 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							
Tigh	tening torque air motor / fluid section		50 Nm; 37 lbft				





11.3 AIR MOTORS

11.3.1 WILDCAT, PUMA, LEOPARD AIR MOTORS



MARNING

Incorrect maintenance/repair!

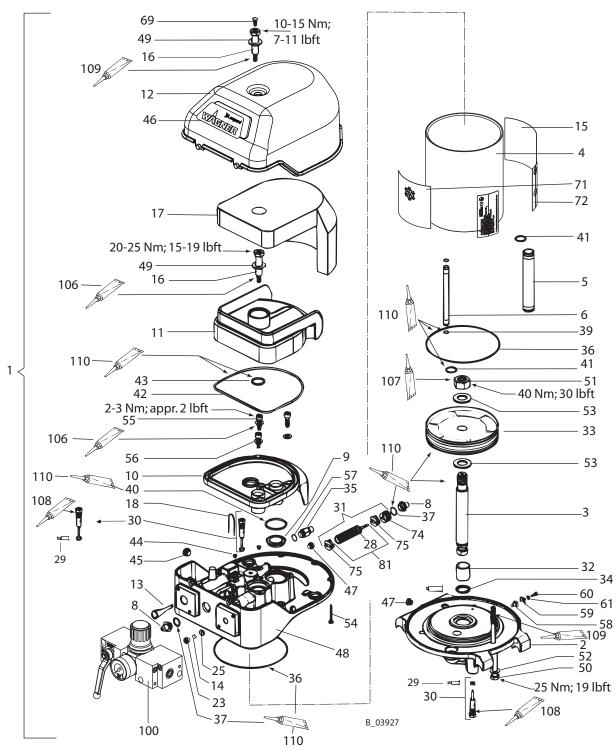
Risk of injury and equipment damage.

- → 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 n	notor	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		368	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		

- ♦ = Wearing part
- ★ = Included in service set





Air pressure (pos. 100) Details see chapter 11.3.2

Do not dismount the piston (pos. 81)



					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	*		Pilot valve	2			369290		
31	•		Spool-sleeve combination	1		9943080		9943	3081
			assembly						
32	•		Permaglide bushing	1		9962018		9962	2019
33	•		Complete piston	1	9998663	9998	3661	9998	3662
34	•	*	Seal wiper ring	1		9974090		9974	
35			Safety valve	1		368288		368286	368287
36	•	*	O-ring	2	9974115	9974	1084	9974	1087
37	•	*	O-ring	2			9974085		
39	•	*	O-ring	2			9974089		
40	•	*	O-ring	2		9974095		9974	1096
41	•	*	O-ring	2		9971448		997	137
42	•	*	O-ring	1		9974097		9974	1100
43	•	*	O-ring	1		9974098		9974	1101
44			Threaded plug	1			9998674		
45			Threaded plug	1			9998274		
46			WAGNER label	1	2330369	2330	0370	2330371	
47			Threaded plug	2			9998675		
48			Control housing	1	367315		368315		
49			Washer	2	9925	5033	9920106	6 9925026	
50			Hexagon bolt	3	9900)225	9907121	9900225	9907121
51			Hexagon nut	1		9910101		9910	0605
52			Washer	3	9920106		•		
53			Washer	1		9920107			
53			Washer	2				9920)110
54			SFS screw	2		9907126			
54			SFS screw	3				9907	7125
55			Cylinder head screw, M6x16	3		9900325		9900)313
56			Washer	3		9920103		9920)102
57	•	*	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					
72			Warning label	1					
74	•		Detent element complete ISO 1/2	1			368038		
75	•		Damper ISO 1/2	2			368313		

^{♦ =} Wearing part

^{★ =} Included in service set



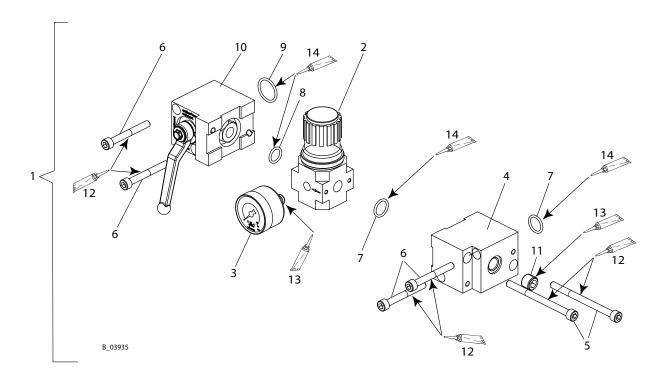
Air n	notor	spare parts list		WILDCAT 10-70 18-40	PUMA 28-40 15-70	PUMA 21-110 15-150	LEOPARD 35-70	LEOPARD 48-110 35-150	
Pos	K	Designation	Stk	No.	No.	No.	No.	No.	
81	•	Spool & sleeve assembly ISO1 or ISO 2	1	9943097			9943097 9943098		
100		Pressure control device, complete.	1	2328606			2328	3607	
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	367	995	368	995	

^{◆ =} Wearing part

 $[\]star$ = Included in service set



11.3.2 WILDCAT AND PUMA AIR MOTOR REGULATORS



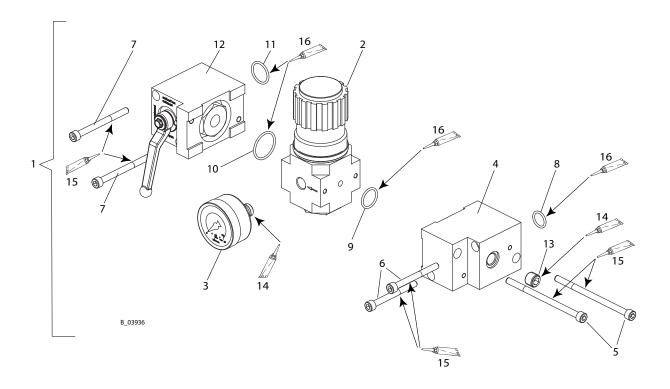
			WILDCAT	PUMA	PUMA	
Air m	otor	regulator spare parts list	10-70	28-40	21-110	
				18-40	15-70	15-150
Pos	K	Designation	Stk		Order No.	
1		Pressure regulator unit 4", complete	1		2328606	
2	•	Pressure regulator valve 4"	1		2309972	
3	•	Pressure gauge 0-1 MPa; 0-10 bar; 0-145 psi (d40)	1	9998677		
4		Distributor 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	

♦ = Wearing part

★ = Included in service set



11.3.3 LEOPARD AIR MOTOR REGULATOR



Air moto	or 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	783	
5	Hexagon socket cylinder head screw	2	3050)699	
6	Hexagon socket cylinder head screw	2	9907024		
7	Hexagon socket cylinder head screw	2	9906	5020	
8 •	O-ring	1	9974	1166	
9	O-ring	1	9971	018	
10	O-ring	1	3105	5540	
11 ♦	O-ring	1	9971	137	
12 ♦	Edge ball valve 6"	1	2310)636	
13	Screw plug	1	9904	1407	
14	Loctite 542	1	9992	2831	
15	Molykote DX grease	1	9992616		
16	Grease Beacon	1	9998808		

♦ = Wearing part

 \star = Included in service set



11.3.4 JAGUAR AIR MOTOR



MARNING

Incorrect maintenance/repair!

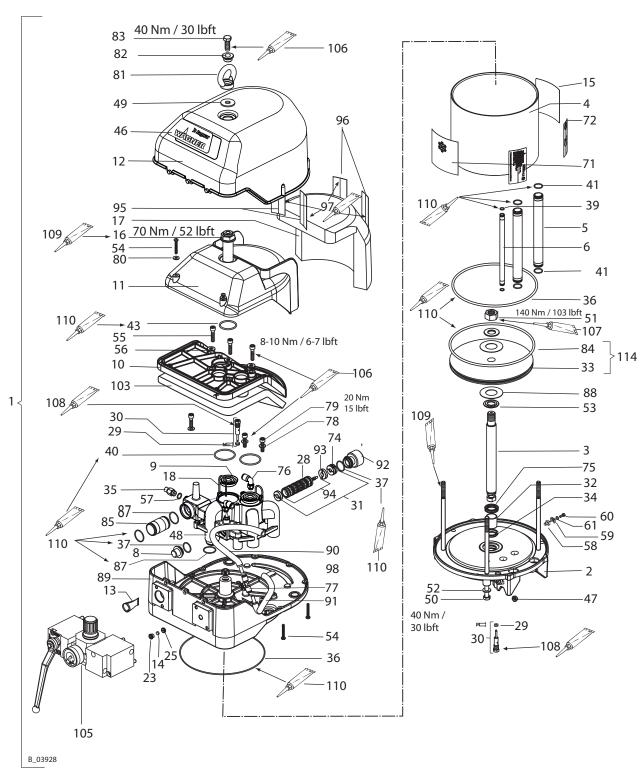
Risk of injury and equipment damage.

- → 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.

Jagu	ıar ai	r mot	or spare parts list	JAGUAR 75-150
Pos	K	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	*	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	•	2	Rod seal	9974217
30	•	2	Pilot valve	369290
31	•	1	Spool-sleeve combination assembly ISO 3	369907
32	•	1	Permaglide bushing	9962019

- ♦ = Wearing part
- ★ = Included in service set
- ullet = Not part of the standard equipment but available as a special accessory.





Do not dismount the piston (pos. 94)

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



Jaguar air moto		r mote	or spare parts list	JAGUAR 75-150	
Pos	ī	K	Stk	Designation	No.
33			1	Piston 9	369385
34	•	*	1	Seal wiper ring	9974125
35			1	Safety valve	368286
36	•	*	2	O-ring	9974133
37	•	*	2	O-ring	9971056
39	•	*	2	O-ring	9974089
40	•	*	2	O-ring	9974132
41	•	*	4	O-ring	9971137
43	•	*	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	*	*	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	*		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	*	*	1	O-ring	9974262
85			1	Air pipe	369306
87	•		3	O-ring	9971004
88			2	Damping washer	369304

- ♦ = Wearing part
- \star = Included in service set
- = Not part of the standard equipment but available as a special accessory.



Jagu	Jaguar air motor spare parts list				
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	

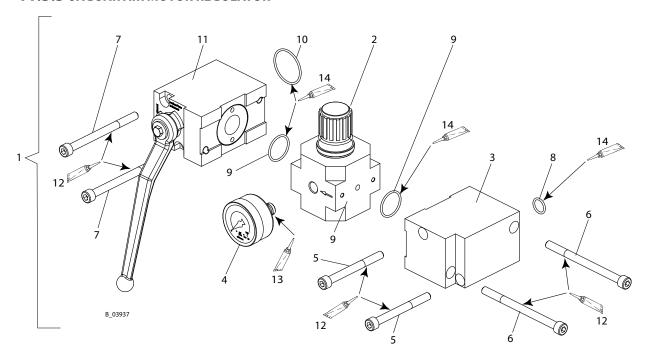
^{◆ =} Wearing part

 $[\]star$ = Included in service set

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



11.3.5 JAGUAR AIR MOTOR REGULATOR



Jagu	ar ai	r mot	JAGUAR 75-150	
Pos	K	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

◆ = Wearing part

★ = Included in service set



11.4 FLUID SECTIONS

11.4.1 FLUID SECTIONS 40 CM³



№ WARNING

Incorrect maintenance/repair!

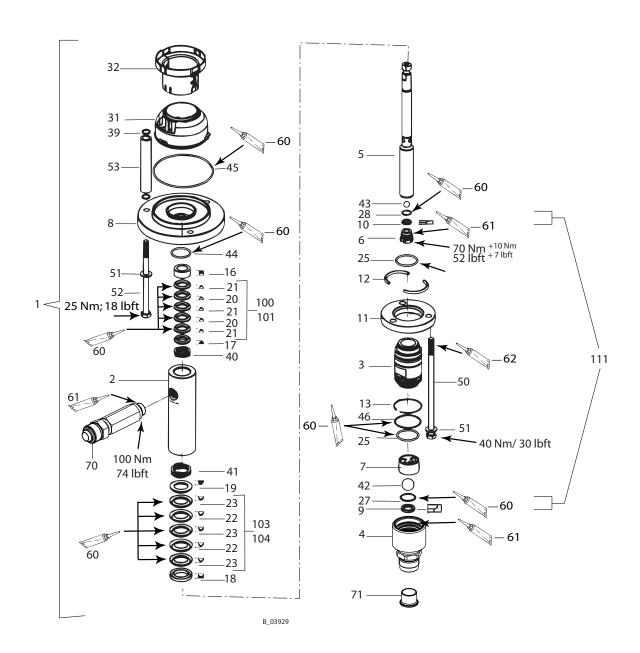
Risk of injury and equipment damage.

- → 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	secti	ons s _l	pare parts list	40 cm3 PE/TG	40 cm3 PE/T	
Pos	K	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	367507		
8		1	Connection flange	367501		
9	♦	1	Valve seat, inlet	367509		
10	♦	1	Valve seat, outlet	367510		
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	367518		
19		1	Pressure ring	367519		
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		

- ◆ = Wearing part
- ★ = Included in service set
- = Special accessories





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



Fluid	secti	ons s	pare parts list	40 cm3 PE/TG	40 cm3 PE/T	
Pos	K	Stk	Designation	No.	No.	
21	* *	3	Sealing collar PE (small)	123427 123427		
103	•	1	Packing PE/TG complete (large)	367991		
104	*	1	Packing PE/T complete (large)	367992		
22	* *	2	Sealing collar TG (large)	367522		
22	*	2	Sealing collar T (large)		367900	
23	* *	3	Sealing collar PE (large)	367523	367523	
25	* *	2	O-ring	3675	25	
27	* *	1	O-ring	3675	27	
28	* *	1	O-ring	3675	28	
31	•	1	Separating fluid cup	3675	31	
32	•	2	Coupling cover	3675	32	
39	* *	6	O-ring	99740)89	
40	* *	1	Wave spring (small)	99986	669	
41	* *	1	Wave spring (large)	99986	570	
42	* *	1	Ball (large)	99415	513	
43	* *	1	Ball (small)	99415	518	
44	* *	1	O-ring	99740	94	
45	* *	1	O-ring	99740	93	
46	* *	1	O-ring	99741	06	
50		3	Hexagon bolt	99071	24	
51		6	Washer	99201	06	
52		3	Hexagon bolt	99002	25	
53		3	Connecting tube	3673	06	
60		1	Grease mobilux EP 2	99988	808	
61		1	Anti-sieze paste tube	99926	509	
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	367990		
		1	Service set PE/T		367994	
111	•	1	Valve seat set 40 stainless steel	23315	i82	

^{♦ =} Wearing part

Information regarding pos. 111:

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

^{★ =} Included in service set

^{● =} Special accessories



11.4.2 FLUID SECTIONS 70 CM³



MARNING

Incorrect maintenance/repair!

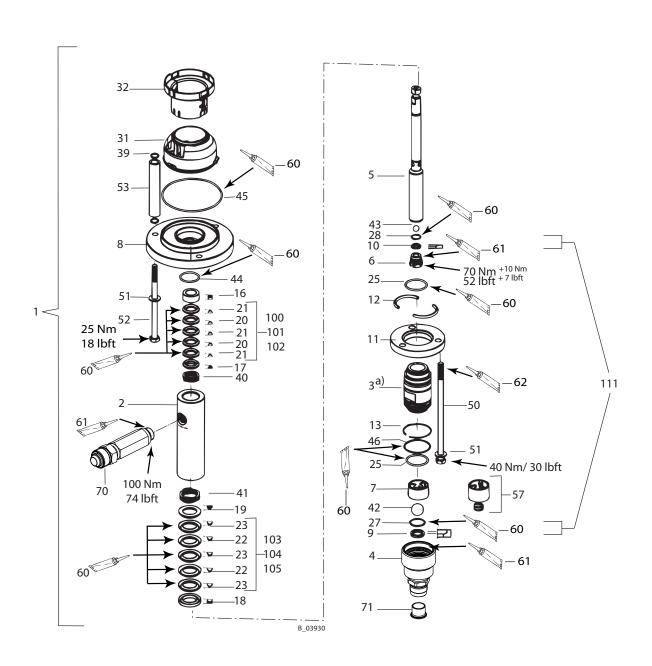
Risk of injury and equipment damage.

- → 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	l secti	ons sp	are parts list	70 cm3 PE/TG	70 cm3 PE/L	70 cm3 PE/T	
Pos	K	Stk	Designation	No.	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	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





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



Fluid	sect	ions sp	pare parts list	70 cm3 PE/TG	70 cm3 PE/L	70 cm3 PE/T	
Pos	K	Stk	Designation	No.	No.	No.	
20	* *	1	Sealing collar TG (small)	367522	110.	110.	
	20 ♦ 2 Sealing collar T (small)			367900			
20			367922				
21	* *	3	Sealing collar PE (small)	367523	367523	367523	
103		1	Packing PE/TG complete (large)	368991			
104		1	Packing PE/T complete (large)	· •		368992	
105		1	Packing PE/L complete (large)		368993		
22	* *		Sealing collar TG (large)	368522			
22	•	2	Sealing collar T (large)			368900	
22	•	2	Sealing collar L (large)		368922		
23	* *	3	Sealing collar PE (large)	368523	368523	368523	
25	* *	_	O-ring		368525		
27	* *	1	O-ring		368527		
28	* *	1	O-ring		368528		
31	•	1	Separating fluid cup		367531		
32	•	2	Coupling cover		367532		
39	* *	6	O-ring		9974089		
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		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	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

Information regarding pos. 111:

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

 $[\]star$ = Included in service set

Special accessories



11.4.3 FLUID SECTIONS 110 CM³



MARNING

Incorrect maintenance/repair!

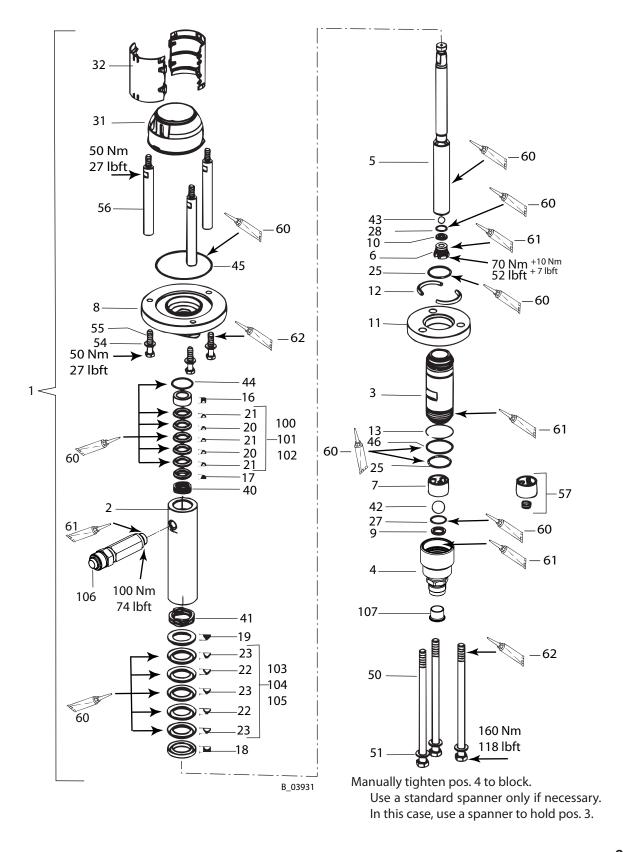
Risk of injury and equipment damage.

- → 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	secti	ons sp	are parts list	110 cm3 PE/TG	110 cm3 PE/L	110 cm3 PE/T
Pos	K	Stk	Designation	No.	No. No. N	
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
- ★ = included in service set
- Special accessories







Fluid	section	ons sp	are parts list	110 cm3 PE/TG	110 cm3 PE/L	110 cm3 PE/T
Pos	K	Stk	Designation	No. No. No.		
20	* *	2	Sealing collar L (small)	368437		
21	* *	3	Sealing collar PE (small)	368427	368427	368427
103	•	1	Packing PE/TG complete (large)	368299		
104	•	1	Packing PE/T complete (large)			368296
105	•	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	•	1	Separating fluid cup		368531	
32	•	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)		9941518	
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	368997		
		1	Service set PE/T			2304930
		1	Service set PE/L		2319924	

- ◆=Wearing part
- ★ = included in service set
- = Special accessories



11.4.4 FLUID SECTIONS 150 CM³



№ WARNING

Incorrect maintenance/repair!

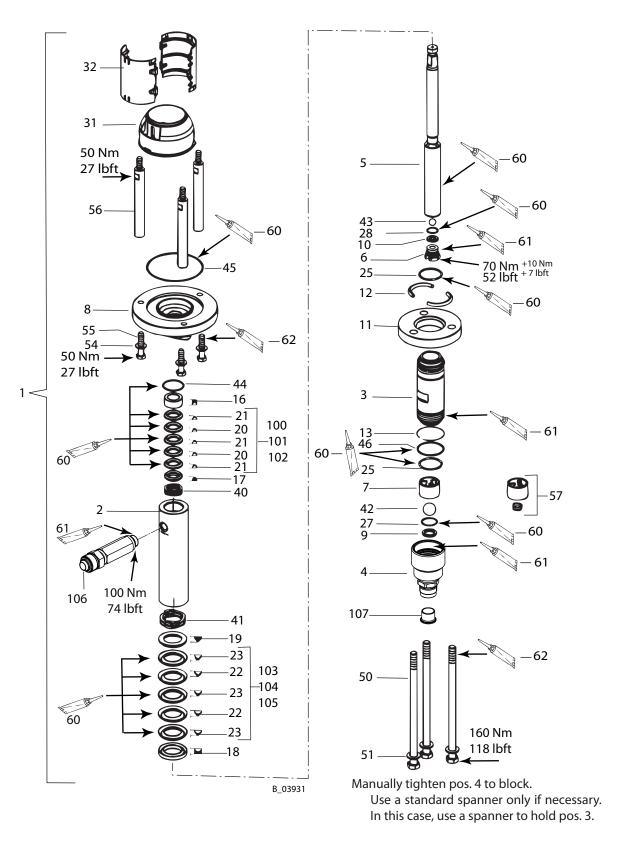
Risk of injury and equipment.

- → 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	secti	ons sp	are parts list	150 cm3 PE/TG	150 cm3 PE/L	150 cm3 PE/T
Pos	K	Stk	Designation	No. 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
- ★ = included in service set
- Special accessories





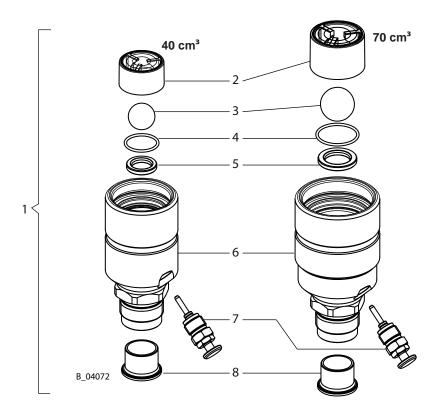


Fluid	sec	tic	ns sp	are parts list	150 cm3 PE/TG	150 cm3 PE/L	150 cm3 PE/T	
Pos	K		Stk	Designation	No.	No.	No.	
20	•	*	2	Sealing collar TG (small)	367522			
20	•		2	Sealing collar T (small)			367900	
20	*		2	Sealing collar L (small)		367922		
21	*	*	3	Sealing collar PE (small)	367523	367523	367523	
103	*		1	Packing PE/TG complete (large)	368991			
104	*		1	Packing PE/T complete (large)			368992	
105	*	Ì	1	Packing PE/L complete (large)		368993		
22	•	*	2	Sealing collar TG (large)	368522			
22	•		2	Sealing collar T (large)			368900	
22	*		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	•		1	Separating fluid cup		368531		
32	•		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
- ★ = included in service set
- = Special accessories



11.5 INLET VALVE WITH VALVE DEPRESSOR

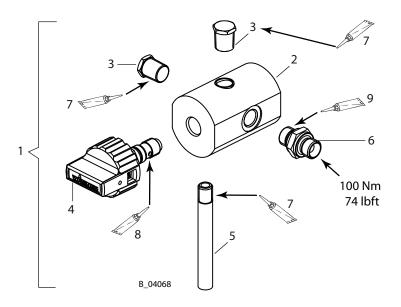


Pos	K	Stk	Designation	Order no. for fluid section 40 cm ³	Order no. for fluid section 70 cm ³
1		1	Inlet valve with valve depressor	2329689	2329688
2	•	1	Ball guide, inlet	367507	368507
3	•	1	Ball	9941513	9943082
4	•	1	O-ring	367527	368527
5	•	1	Valve seat, inlet	367509	368509
6		1	Inlet housing	2329412	2329413
7		1	Valve tappet, complete 368037		037
8		1	Sealing sleeve 2329898		

^{♦ =} Wearing part



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

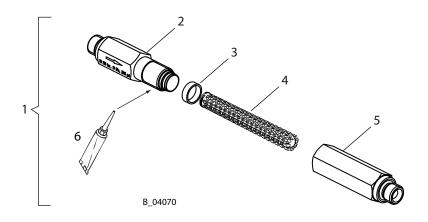


Pos	K	Stk	Order No.	Designation
1		1	2329023	Relief combination
2		1	2324549	Relief housing
3		2	2323718	Hexagon plug
4	*	1	169248	Relief valve, complete
5		1	2324552	Outlet pipe
6		1	3204611	Fitting-DF-MM-G1/4"-G1/4"-PN530-SSt
7		1	9992831	Loctite, 542 50 ml; 50 cc
8		1	9992616	Molykote DX grease
9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

^{◆ =} Wearing part



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

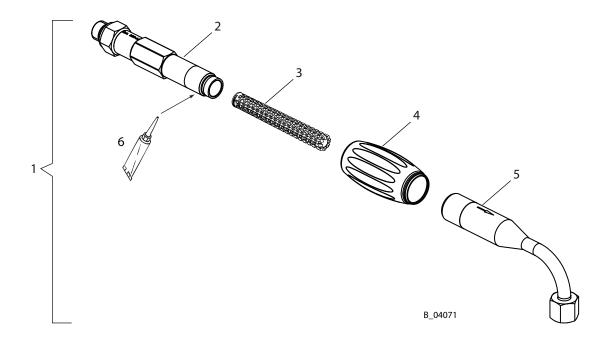


Pos	K	Stk	Order No.	Designation	
1		1	2324558	Inline filter DN6-PN270-G1/4"-SSt	
2		1	2324550	2324550 Filter inlet housing	
3	*	1	128389	Seal	
4	•	1	2315706	Filter insert, yellow	
5		1	2324551	Filter outlet housing	
6		1	9992609	Anti-sieze paste tube	

^{◆ =} Wearing part



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



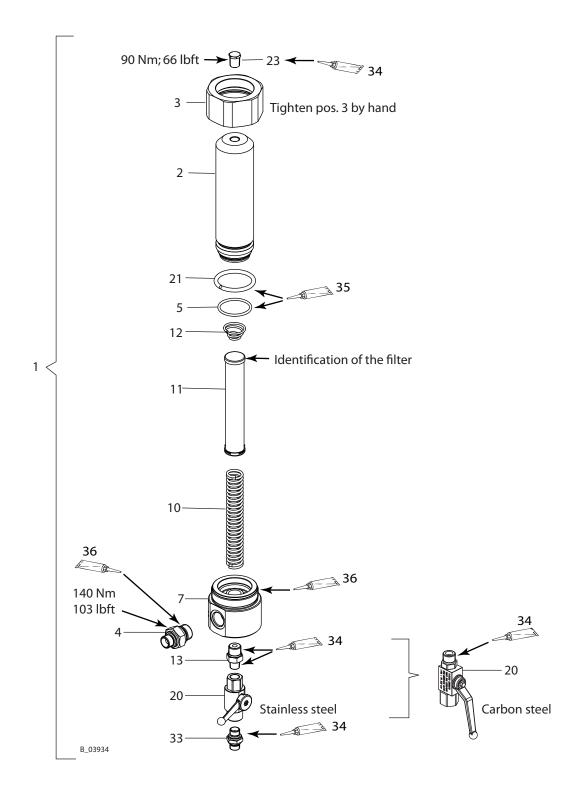
Pos	K	Stk	Order No.	Designation
1		1	2329026	Inline filter HL DN6-PN270-G1/4"-SSt
2		1	2326045	Filter inlet housing, pre-assembled
3	*	1	2315706	Filter insert, yellow
4		1	2311491	Turning handle
5		1	2325950	Filter outlet housing 90°, pre-assembled
6		1	9992609	Anti-sieze paste tube

^{◆ =} Wearing part

OPERATING MANUAL	WÂGNER



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





			Ball valve version in:	Stainless steel	Carbon steel
Pos	K	Stk	Designation	Order No. Order No	
1		1	HP filter DN12-PN530, complete	2329025	2335334
2		1	Filter housing	2324542	
3		1	Union nut	2324	1543
4		1	Reducing double nipple with 2x60°	2330	780
5	•	1	O-ring	9955	5863
7		1	Distribution housing for ball valve	2324	1670
10		1	Filter support	9894245	
11	•	1	Filter sieve *		
	• •		* Filter sieve 200	295721	
	•		* Filter sieve 100	3514068	
	+ •		* Filter sieve 50	3514069	
	+ •		* Filter sieve 20	291564	
12	•	1	Cone spring	3514	1058
13		1	Reducing nipple	2328291	
20	•	1	Ball valve	2330156	9998679
21		1	Pressure ring d45	2325562	
23		1	Hexagon plug	2323718	
33	•	1	Double connection	3204611	2325826
34		1	Loctite 542 50 ml; 50 cc	9992	2831
35		1	Grease mobilux EP 2	9998	3808
36		1	Anti-sieze paste tube	9992609	

- ◆ = Wearing part
- = Not part of the standard equipment but available as a special accessory.



WARNING

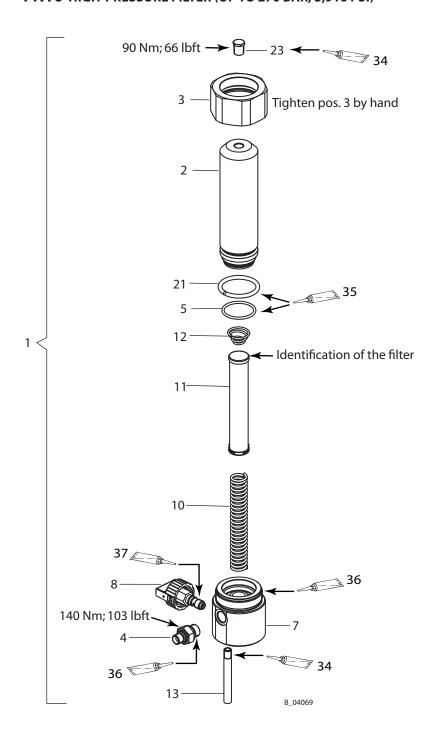
Incorrect maintenance/repair!

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 device 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.



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





			Ball valve version in:	Stainless steel
Pos	K	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	*	1	O-ring	9955863
7		1	Distribution housing	2324544
8	*	1	Relief valve	169248
10		1	Filter support	9894245
11	•	1	Filter sieve *	
	+ •		* Filter sieve 200	295721
	•		* 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

- ♦ = Wearing part
- Not part of the standard equipment but available as a special accessory.



WARNING

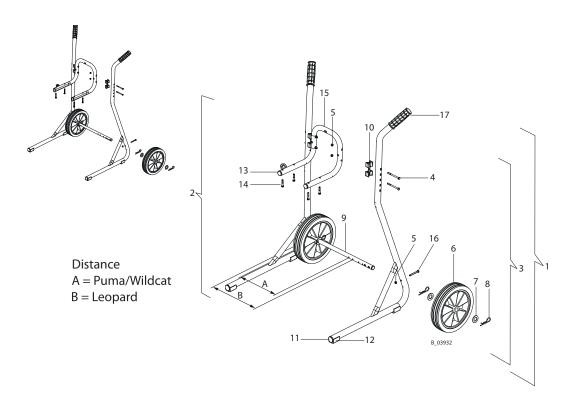
Incorrect maintenance/repair!

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.



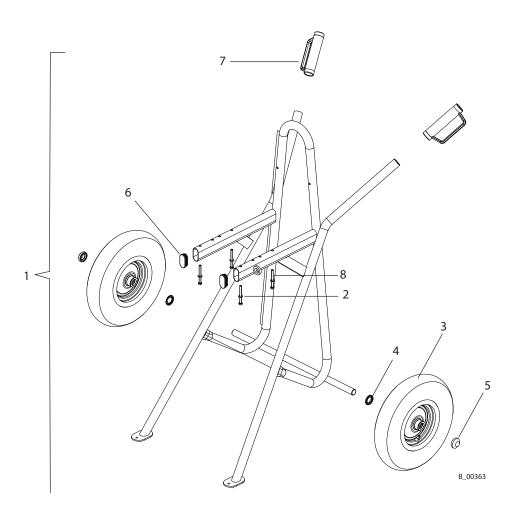
11.11 TROLLEY



Pos	К	Stk	Designation	Order no. for	Order no. for	Order no. for
103		JIK	Designation	Wildcat	Puma	Leopard
1		1	Trolley, complete	2325901 2325916		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	9900	0218	9900126
15		1	Wall mount	2332	2143	2332145
16		2	Hexagon screw without shaft M6x55	3061695		
17	*	2	Handle	9998747		

^{◆ =} Wearing part

11.12 "HEAVY DUTY" TROLLEY



Pos	K	Stk	Designation	Order No. for Leopard	Order No. for Jaguar
1		1	Trolley, heavy duty	369024	
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



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:

e) BGR 180



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

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

VERSION 01/2013

OPERATING MANUAL



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