

High pressure cleaners

B 10/200

B 13/150

B 16/220



Operating manual
Read and conform
safety instructions
before use

Description

Dear Customer

We would like to congratulate you on your new portable/mobile high pressure cleaner and to thank you for the purchase.

To ease your introduction to the use of the cleaner, we have provided the following pages of explanations, tips and hints.

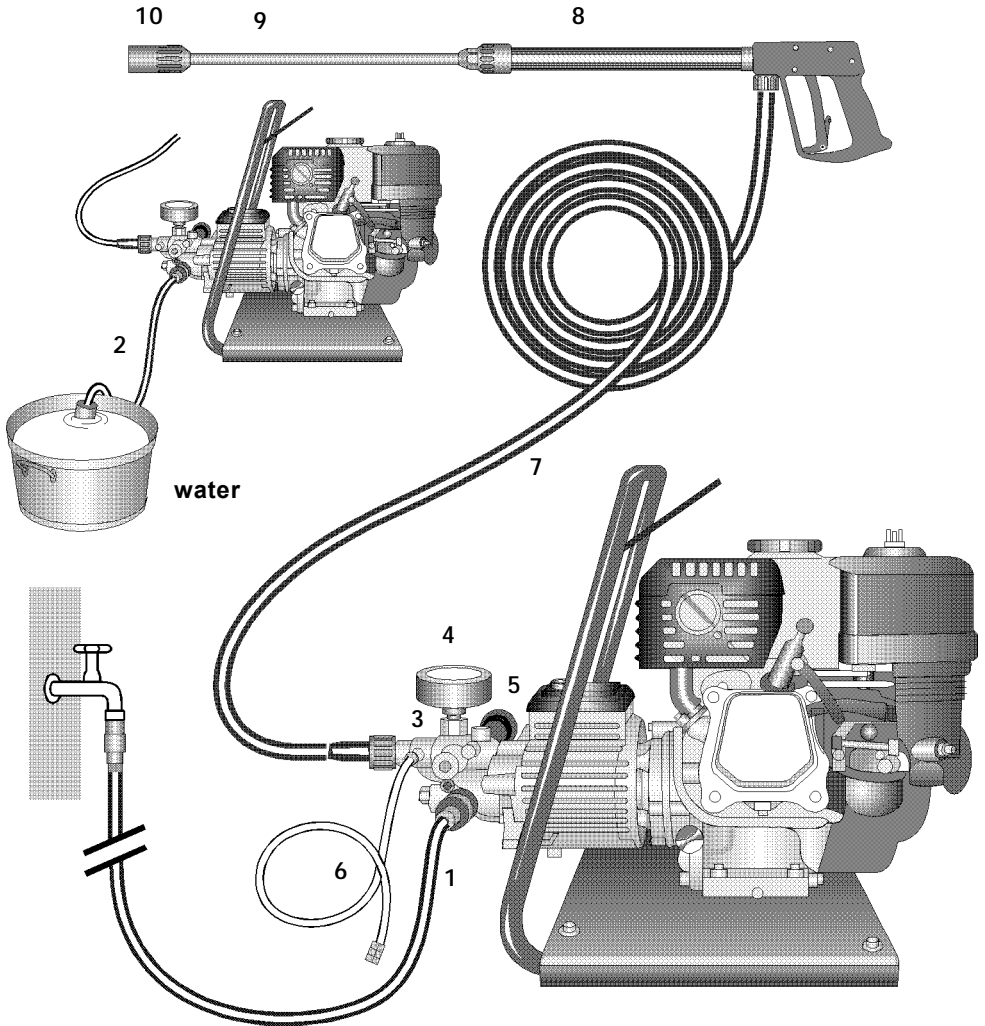
The equipment will assist you professionally in all cleaning tasks, e.g.:

- facades
- flagstones
- terraces
- vehicles of all types
- sheds
- barrels and containers
- machines

technical specifications	B 10/200	B 13/150	B 16/220
operating pressure, steplessly adjustable	10 - 200 bar	10 - 150 bar	10 - 220 bar
permissible overpressure	220 bar	165 bar	240 bar
water output	at 1800 rpm 10 l/min	at 1800 rpm 13 l/min	at 1800 rpm 16 l/min
hot water input up to	70 °C	70 °C	70 °C
suction height	2,5 m	2,5 m	2,5 m
high pressure hose with hose drum	10 m -	10 m 15 m	10 m 15 m
engine	Honda GX 200 LX	Honda GX 160 CX	Honda GX 340 CX
weight	22 kg	24 kg	26 kg
sound level according to DIN 45 635	78 dB	78 dB	81 dB
recoil at lance torque	approx. 32 Nm 29 Nm	approx. 27 Nm 24,3 Nm	approx. 38 Nm 33 Nm
	(assumed length of lance: 0,9 m)		
order No.			
portable	41.182	41.170	
with undercarriage	41.182 1	41.170 1	41.173 2
with undercarriage and hose drum		41.170 2	41.173 3*
with speed control *			41.173

Permissible tolerance for figures $\pm 5\%$ in accordance with VDMA uniform sheet 24411

Description



Construction

The KRÄNZLE B 10/200 + B 13/150 + B 16/220 - high pressure cleaners are portable/mobile machines. The design can be seen from the diagram.

Item

- | | |
|--|--|
| 1 Water inlet connection with filter | 6 Injector for cleaning agents
(not with B10/200) |
| 2 Suction hose with filter
(special accessory) order No. 15.038 | 7 High pressure hose |
| 3 High pressure pump | 8 Spray gun assembly |
| 4 Pressure gauge with glycerin filling | 9 Interchangeable lance |
| 5 Unloader valve - safety valve | 10 Regulator nozzle |
| | 10a B10/200 only with dirt-killer |

Description

Water - and Clean - Care System

Water can be connected at mains pressure to the high pressure pump or it can be sucked directly from a storage tank.

The water is then forced under pressure by the high pressure pump to the lance.

The high pressure jet is formed by the nozzle at the end of the lance.

Cleaning and caring agents can be mixed with the water by a low pressure injector.
(not with B10/200)



Environmental, refuse disposal and water protection regulations must be observed !

Lance with trigger gun

The machine can only be operated when the safety trigger is squeezed.

When the lever is squeezed, the spray gun opens. The liquid is then pumped to the nozzle. The spray pressure increases and quickly reaches the selected operating pressure.

When the trigger is released, the trigger gun closes and any further spraying of liquid from the lance is stopped.

The increase in pressure when the trigger gun is closed causes the unloader valve - safety valve to open. The pump remains switched on and continues to pump liquid through the pump at reduced pressure.

When the trigger gun is opened, the unloader valve - safety valve closes and the pump resumes pressure spraying from the lance.



The trigger gun is a safety device. Repairs should only be performed by qualified persons. Should replacement parts be required, use only components authorized by the manufacturer.

Unloader valve - safety valve

The unloader valve - safety valve protects the machine from a build-up of excess pressure, and is designed not to permit an excess pressure to be selected for operating. The limit nut on the handle is sealed with a spray coating.

The operating pressure and spray rate can be steplessly adjusted by tuning the handle.



Replacements, repairs, new adjustments and sealing should only be performed by qualified persons.

Description



For the motor follow the Honda operating manual only.

Motor-safety:
(see Honda operating manual)

Honda motors are safe and reliable if they are operated correctly. Read the operating manual carefully before using the motor and try to understand the contents of the manual completely.

Not following this advice could lead to injuries or damage of the equipment.



To avoid a possible fire hazard and to ensure the necessary ventilation the motor has to be operated at a distance of at least 1 m from buildings and objects. Inflammable objects have to be kept away from the surrounding area of the motor.

Children and pets have to be kept away from the motor, as there is a danger of suffering burns from hot motor parts and to be injured by equipment driven by the motor.

Get to know the motor and especially learn how to switch it off quickly. Do not allow persons to operate the motor who are not familiar with it.

Setting up: Location



Neither set up and operate the machine in rooms where there is a risk of fire or explosion nor put it into puddles. Do not use the machine under water.

CAUTION !



Never use liquid containing solvents such as paint thinners, petrol, oil or similar liquid matter. Pay attention to the instructions of the manufacturers of the cleaning agents. The seals in the machine are not resistant to solvents. The spray of solvents is inflammable, explosive and poisonous.

CAUTION !



When running your high pressure cleaner with hot water of 70° C raised temperatures occur.
Do not touch the machine without safety gloves.

Description



Brief operating instructions

1. Connect the high pressure hose with spray gun and machine.
2. Connect the suitable water supply.
3. Flush the air from the pump (open and close the spray gun several times).
4. Switch on the motor while the spray gun is open and commence cleaning.
5. After completing the work, completely empty the pump (switch the motor on for approximately 20 seconds without the suction and pressure hose).
Afterwards you can roll up the high pressure hose.
- Only use clean water ! Protect from frost !

CAUTION !

Please pay attention to the regulations of your waterworks company.

In accordance with DIN 1988, the machine may not be directly connected to the public drinking water supply lines.

A brief connection however is permissible according to DVGW (German Association for Gas and Water Affairs) if a tube ventilator with check valve (KRÄNZLE Order-No. 41.016 4) is built into the water supply.

Also indirect connection to the public drinking water supply lines is permissible by way of free emission in accordance with DIN 1988, part 4; e.g. by using a reservoir with a float valve.

Direct connection to a non-drinking water supply line is permissible.

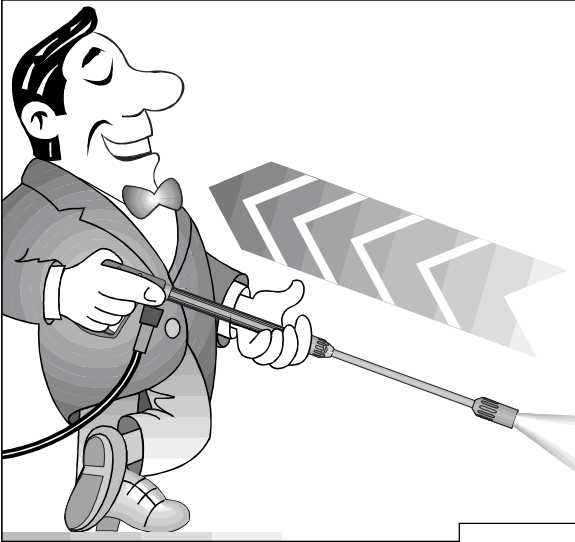
High pressure hose and spray device

The high pressure hose and spray device supplied with the machine are made of high grade material, they are also optimized for the machine and marked as required by the appropriate regulations.



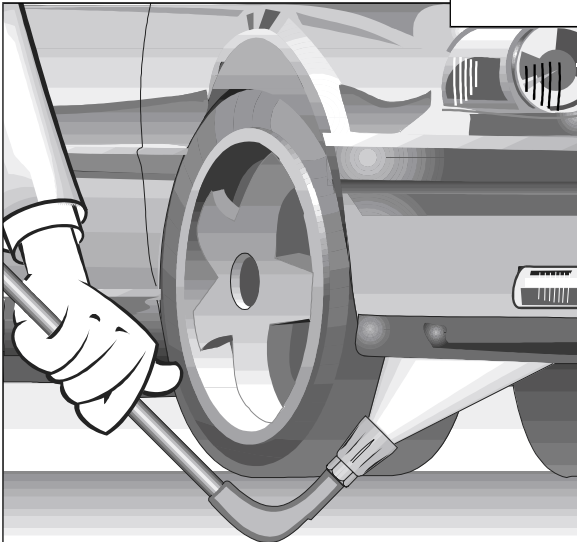
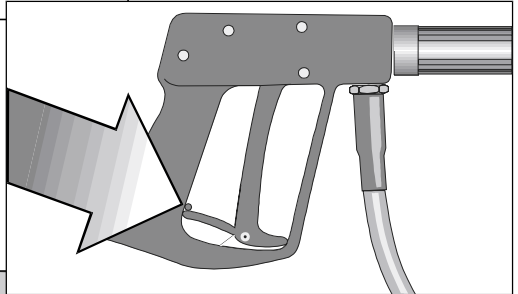
If replacement parts are required, only such parts that are authorized by the manufacturer and which bear the markings required by the appropriate regulations may be used. The high pressure hose and spray device must be connected in a pressure-tight manner. The high pressure hose may not be driven over, pulled excessively, or twisted. The hose may under no circumstances be pulled over sharp edges, since otherwise the guarantee is automatically void.

Safety notes



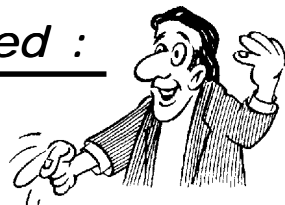
As to the recoil -
see notice on page 2.

Apply the safety catch on the
spray gun after each use, in
order to prevent
unintentional spraying.



Always aim the
underbody lance. Note
when using an angle
underbody lance, like
for example lance
No. 41.075, that there
is a certain amount of
torque (twisting
motion) in the recoil.
(See also notice on
page 2).

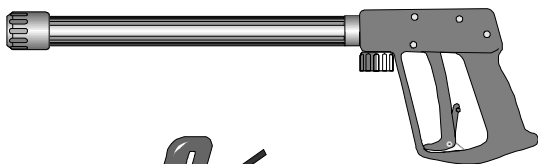
This is what you've purchased :



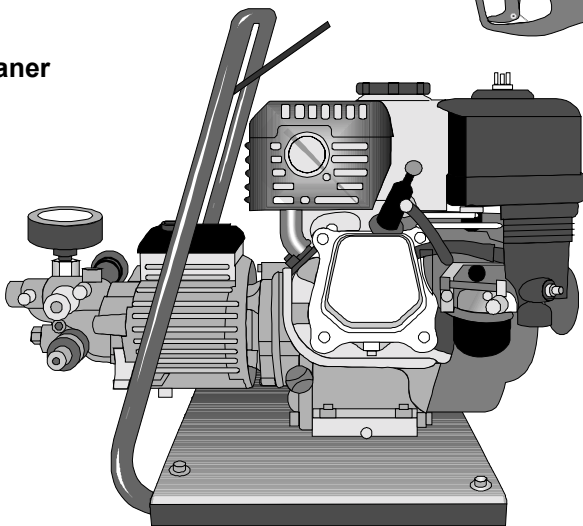
1. Spray lance with regulator and high pressure nozzle, flat spray (B10/200 only with dirt-killer)



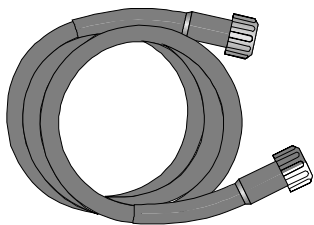
2. Spray gun with insulated pistol grip and screw connection



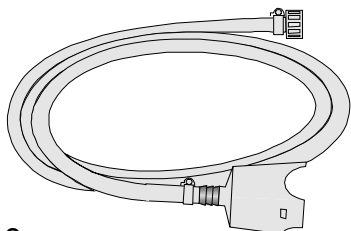
3. KRÄNZLE - High pressure cleaner
B 10/200 B 13/150 B 16/220



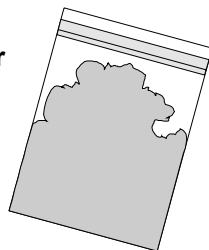
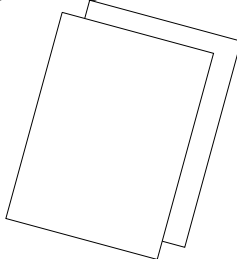
4. High pressure hose 10 m
15 m HP-hose for cleaners
with hose drum



5. Suction hose



6. Operating instructions pump
Operating instructions motor



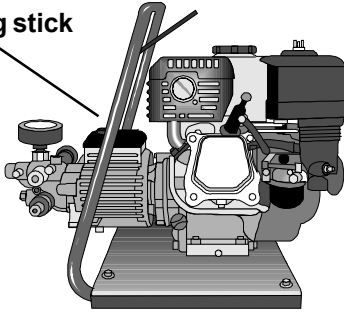
7. Washing powder
specimen



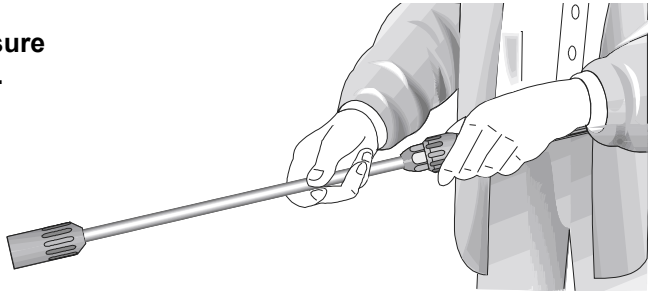
8. Water inlet components

Prepare for use

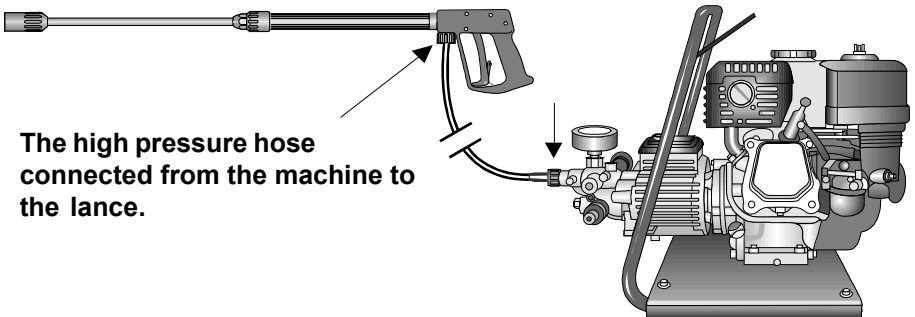
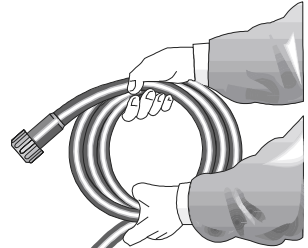
1. Oil-measuring stick



2. Connect the high pressure lance to the spray gun.

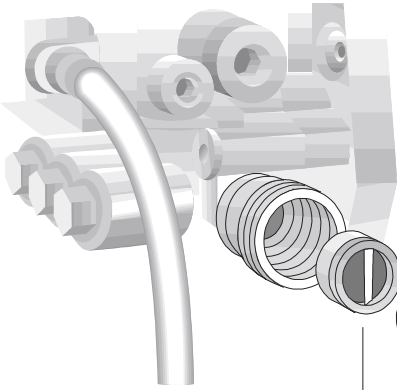


3. Unwind the high pressure hose without leaving kinks or "nooses" and connect it to the spray gun and pump. When using extension hoses, use max. 20 m high pressure hose, or 2 x 10 m with hose connectors.



The high pressure hose connected from the machine to the lance.

Preparation for use



Please make
sure that the filter is
clean before using
your
high pressure cleaner.

4. The machine can be connected to a pressurised water line with cold or 60 °C respectively 70 °C hot water (see page 2).

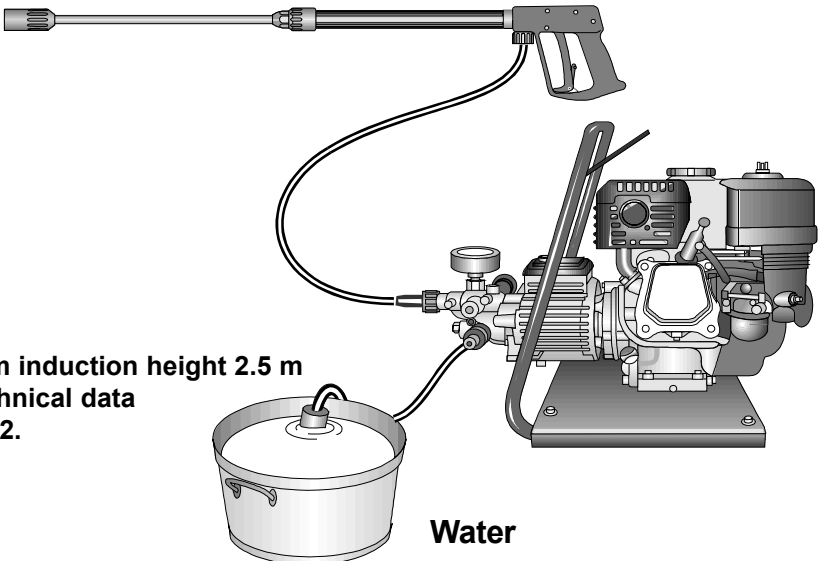
Ensure that the water supply is clean when sucking from external sources. The hose cross section must be at least 1/2" = 12.7 mm (free passage). Filter 1 must always be clean.

CAUTION !



When running your high pressure cleaner with hot water of 70° C raised temperatures occur.

Do not touch the machine without safety gloves.

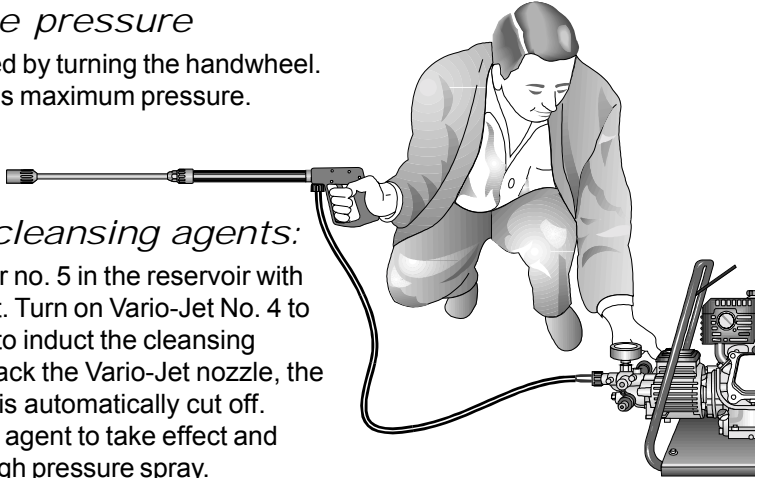


5. Maximum induction height 2.5 m
- see technical data
on page 2.

Preparation for use

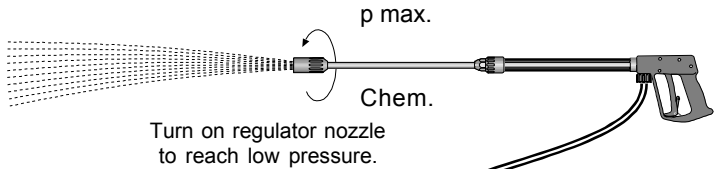
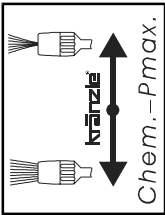
Adjusting the pressure

This is accomplished by turning the handwheel.
The default setting is maximum pressure.



When using cleansing agents:

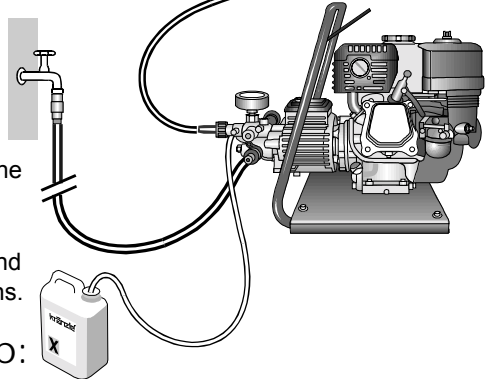
Place chemical filter no. 5 in the reservoir with the cleansing agent. Turn on Vario-Jet No. 4 to enable the injector to induct the cleansing agent. By turning back the Vario-Jet nozzle, the supply of chemical is automatically cut off. Allow the cleansing agent to take effect and then remove with high pressure spray.



A mixing ratio of 3-5% is achieved when the Vario-Jet is fully turned on. pH value neutral 7-9.



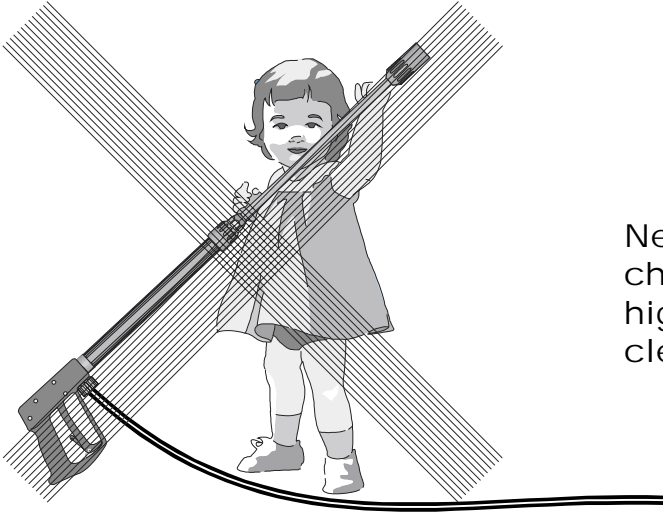
Note that you must always comply with the instructions provided by the manufacturer of the cleansing agent (e.g. instructions concerning safety clothing) and the water protection regulations.



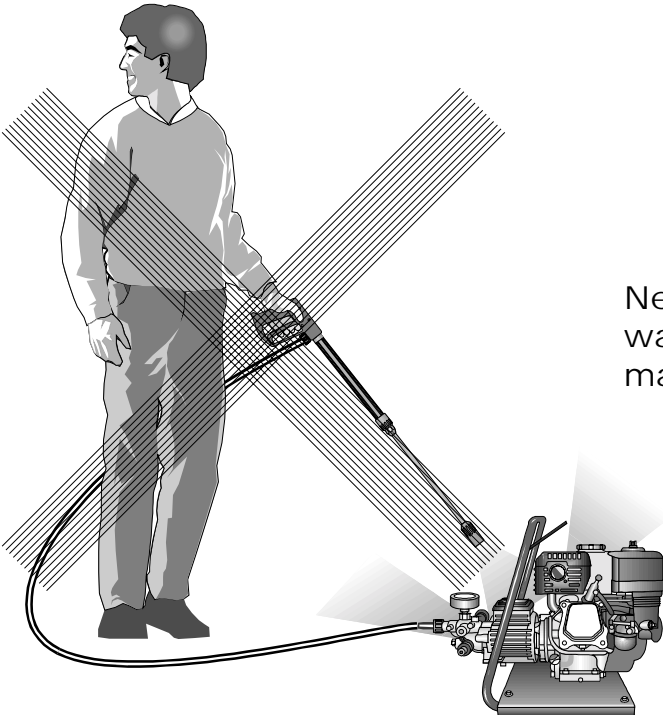
To shut down the pump:

1. Switch off the machine
2. Cut off the water supply
3. Open the spray gun briefly until the pressure is released
4. Apply the safety catch on the spray gun
5. Remove the water hose and high pressure hose
6. Drain the pump: switch on the motor for approx. 20 seconds
7. Winter: store the pump in rooms above 0° C
8. Clean the water filter

This is prohibited

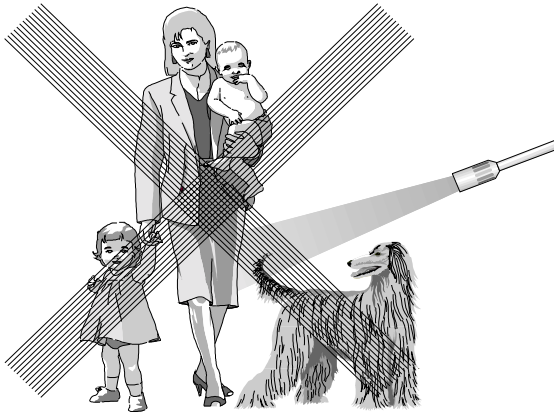


Never allow children to use the high pressure cleaner !

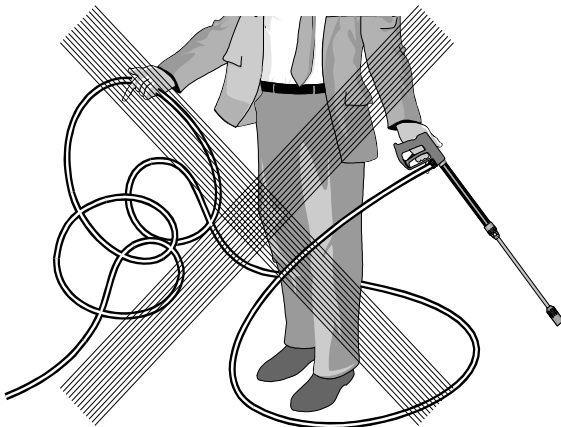


Never direct the water jet at the machine itself !

This is prohibited



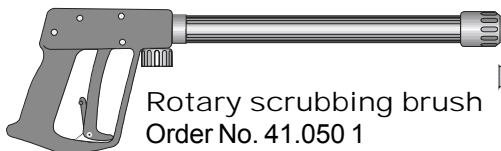
Never direct the water jet at people or animals !



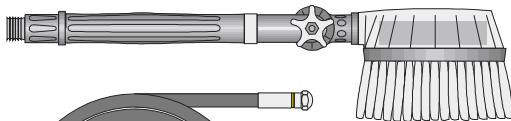
Never pull the high pressure hose if it has formed kinks or "nooses"!
Never pull the hose over sharp edges !

Additional KRÄNZLE accessories

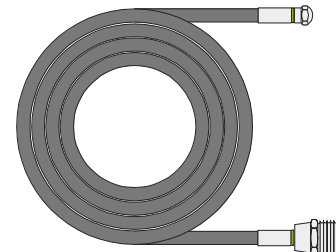
(not with B 10/200)



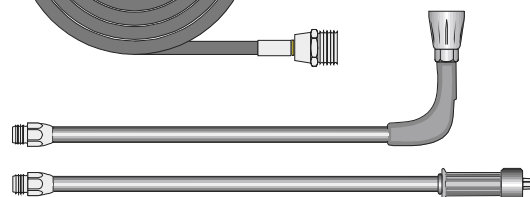
Rotary scrubbing brush
Order No. 41.050 1



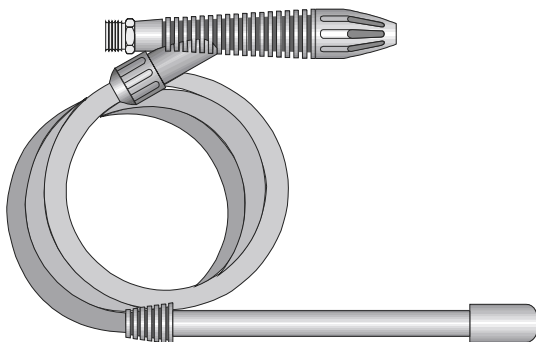
Drain and pipe
cleaning hose
8 m - Order No. 41.051
15 m - Order No. 41.058



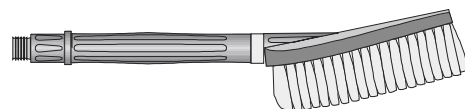
Underbody lance, new
Order No. 41.075



Sandblaster
Order No. 41.068 1

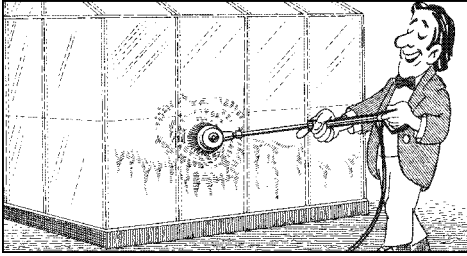
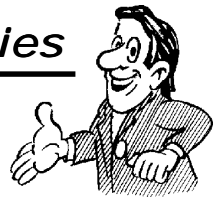


Flat brush
Order No. 41.073
Dirtkiller
B 10/200
Order No. 41.073 8
B13/150
Order No. 41.072 5
Turbokiller
B 16/220
Order No. 41.072 4

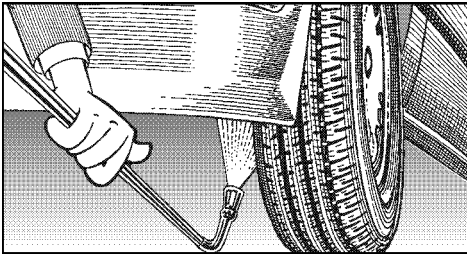


Environmental, refuse disposal and water protection regulations must be observed when using the accessories.

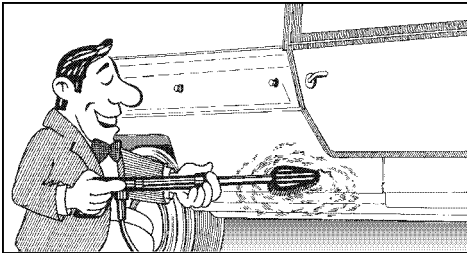
for further combination possibilities



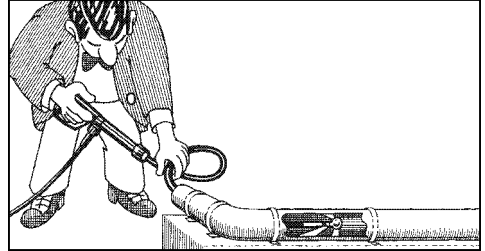
Car cleaning, glass, caravan, boat etc.:
rotary washing brush with 40 cm extension and
ST 30 nipple M 22



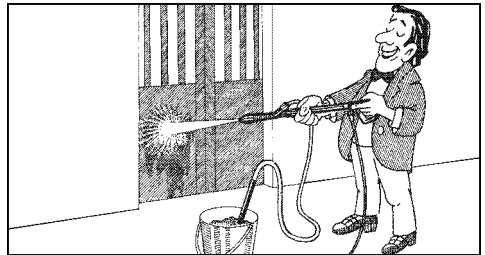
Underbody cleaning of cars, trailers and
equipment: lance 90 cm with high pressure
nozzle and ST 30 nipple. The lance must
be aimed when spraying.



Cleaning cars and all smooth surfaces:
brush with ST 30 nipple M 22.



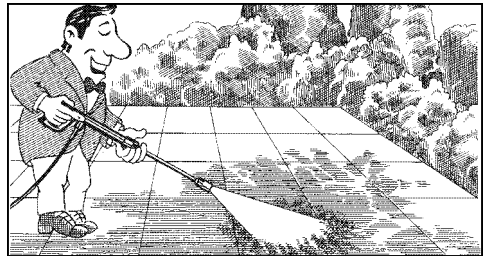
Cleaning pipes, channels and drains: Pipe
cleaning hose with KN nozzle and
ST 30 nipple M 22.



Blasting old paint, rust and facades:
sandblasting injector with suction lance and
3 m PVC hose and ST 30 nipple M 22.



**When sandblasting you must
wear protection clothes! Pay
attention to the instructions of
the manufacturer of the
abrasive.**

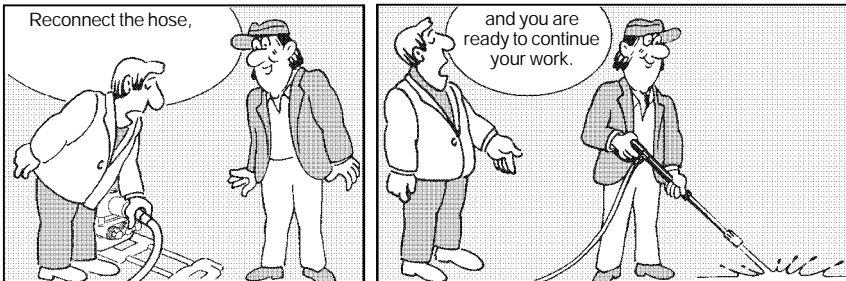
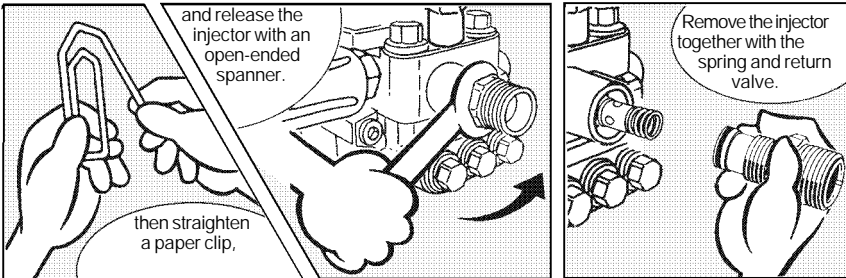
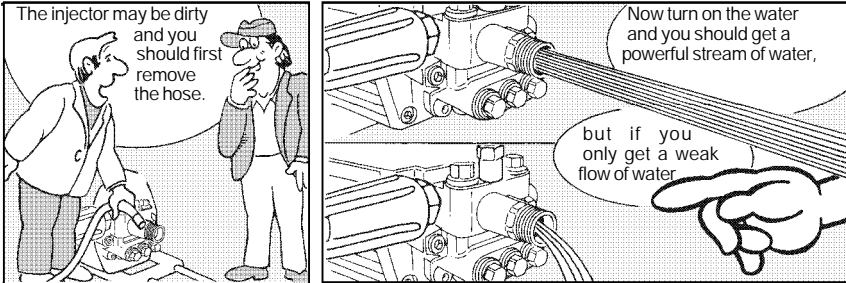


Rotary point sprayer for extreme soiling:
dirt killer with 40 cm extension and
ST 30 nipple M 22.

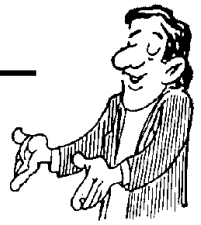
Small repairs -

You only get a weak flow of water or no water at all !

- The pressure gauge shows a 10% higher pressure than the working pressure.

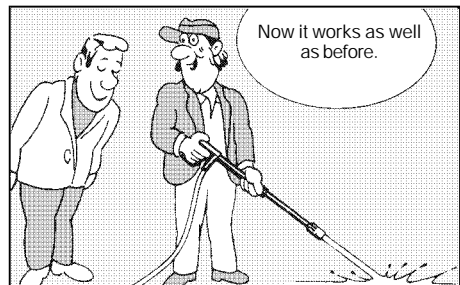
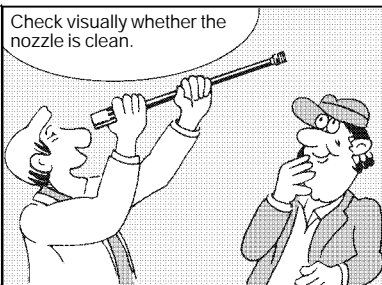
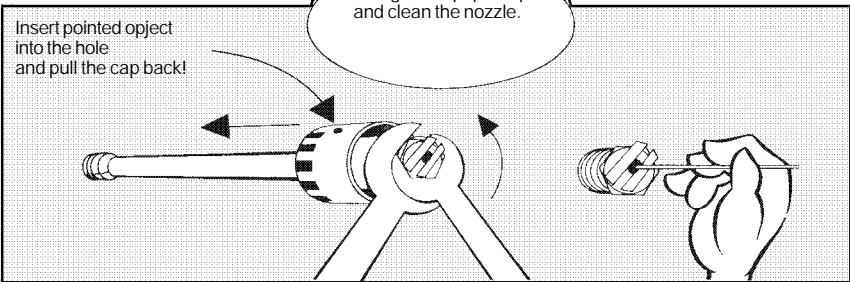
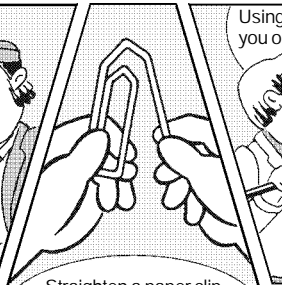
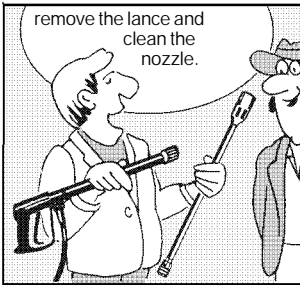
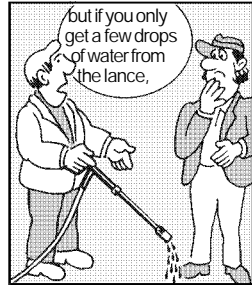
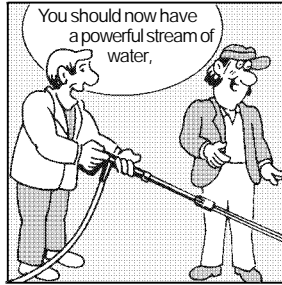
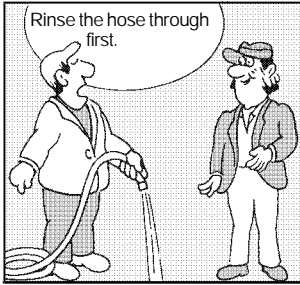


Do it yourself !



The nozzle is blocked !

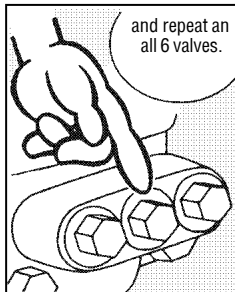
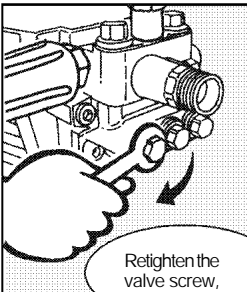
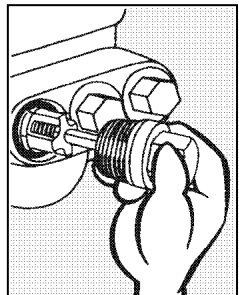
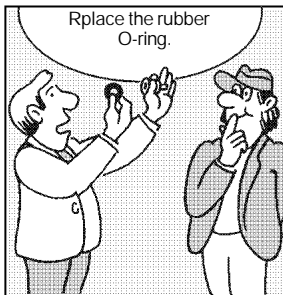
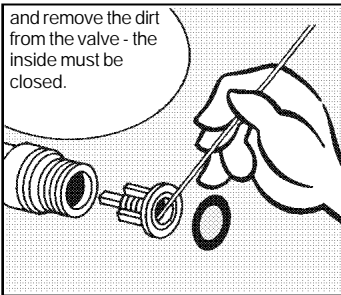
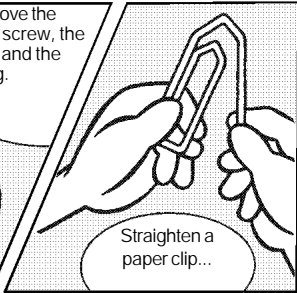
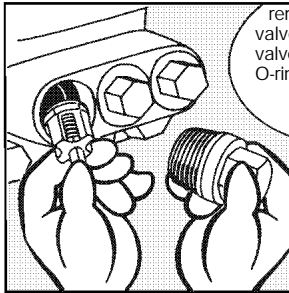
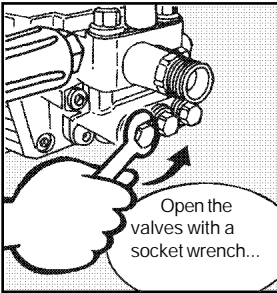
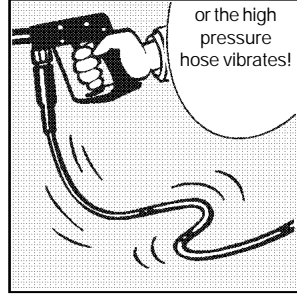
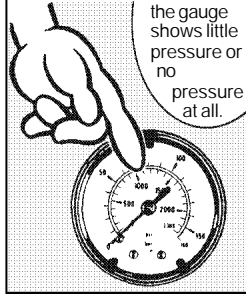
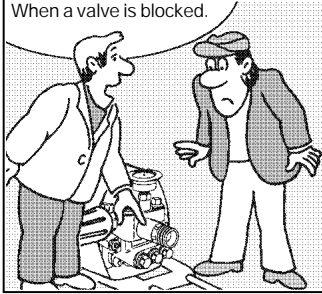
- No water but the gauge shows full pressure.



Small repairs - Do it yourself !

Valve dirty or sticky !

- Pressure gauge does not show full pressure.
- Water comes out in spurts.
- If you do not use the high pressure cleaner for some time the valves can stick.
- The high-pressure hose vibrates.



General rules

Inspections:

The machine must be inspected according to the "Guidelines for Liquid Spray Devices" at least once every 12 months by a qualified person, to ensure that continued safe operation is guaranteed. The results of the inspection are to be recorded in writing. This may be done in any form.

Accident prevention

The machine is designed for accidents to be impossible if used correctly. The operator is to be notified of the risk of injury from hot machine parts and the high pressure water jet. The "Guidelines for Liquid Spray Devices" must be complied with. (see page 12 and 13)

Check the oil level with the oil-measuring stick prior to each use.

(Ensure horizontal position!)

Oil change B10/200 ; B13/150:

No oil change is required during the working life of the machine. However, should it be necessary to change the oil in the event of repairwork, the oil sight glass is to be opened over a reservoir and the machine to be emptied. The oil is to be caught in the reservoir and disposed of in the approved manner.

New oil: 0,5 l - Motor oil W 15/40

Oil change B16/220:

The oil of your high pressure pump should be changed after approx. 40 hours of operation, or no later than when it takes on a grey or whitish colour. Open the oilplug over a container and drain off all the oil. The oil must be caught in a container and disposed of in a responsible, legal manner.

New oil: 1,0 l - Castrol Formula RS

Guarantee

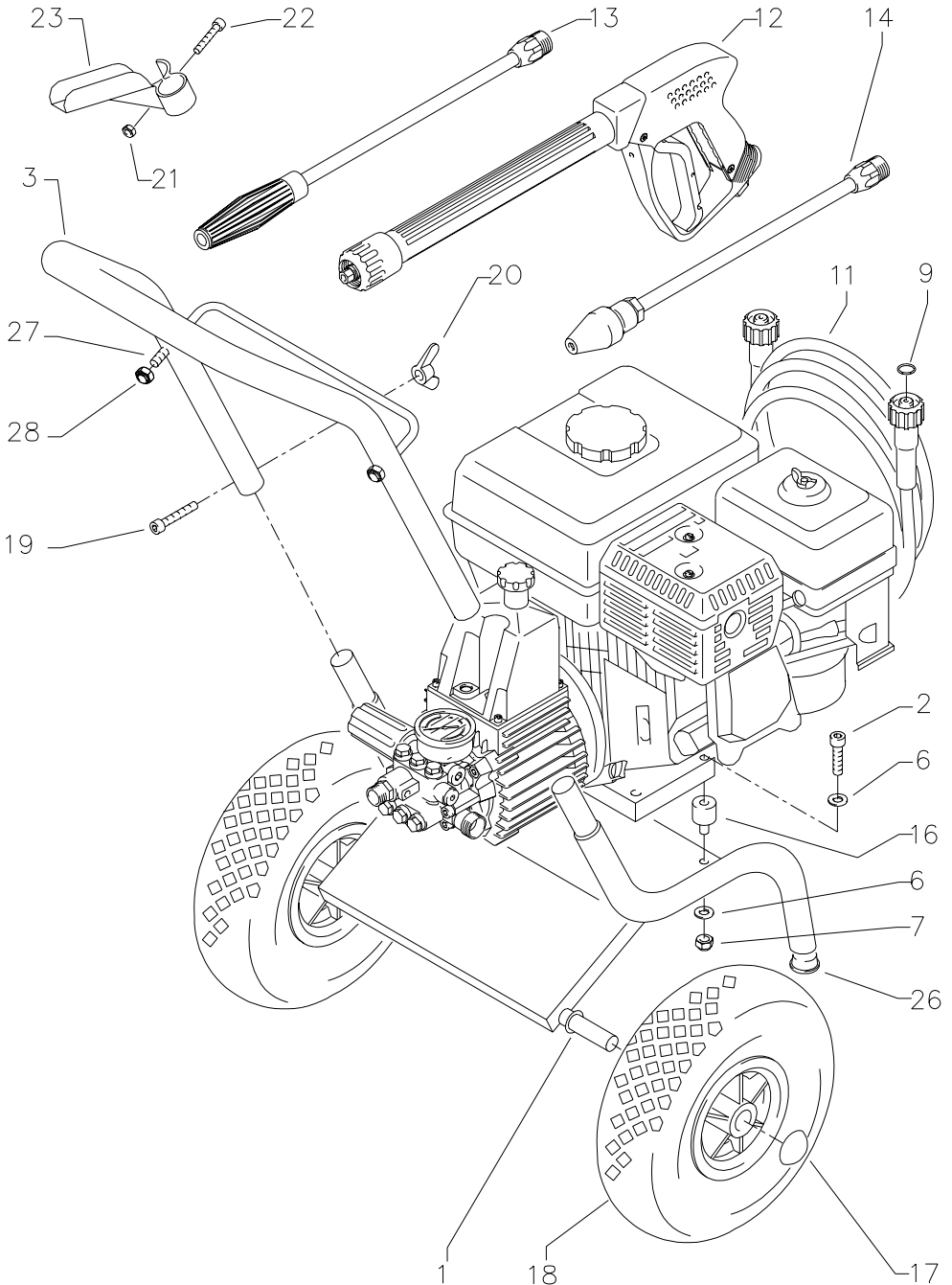
The guarantee period is 12 months according to VDMA.

The guarantee is void if changes are made in the safety devices or if the machine is used at excess temperatures or speeds. The guarantee is also void if the machine is used with a voltage below the required rating, with less than the required amount of water, with dirty water and **external** damage to the pressure gauge, nozzle, high pressure hose and spray device.

This guarantee is not applicable for spare parts.

Our operating instructions must be complied with.

Complete Assembly

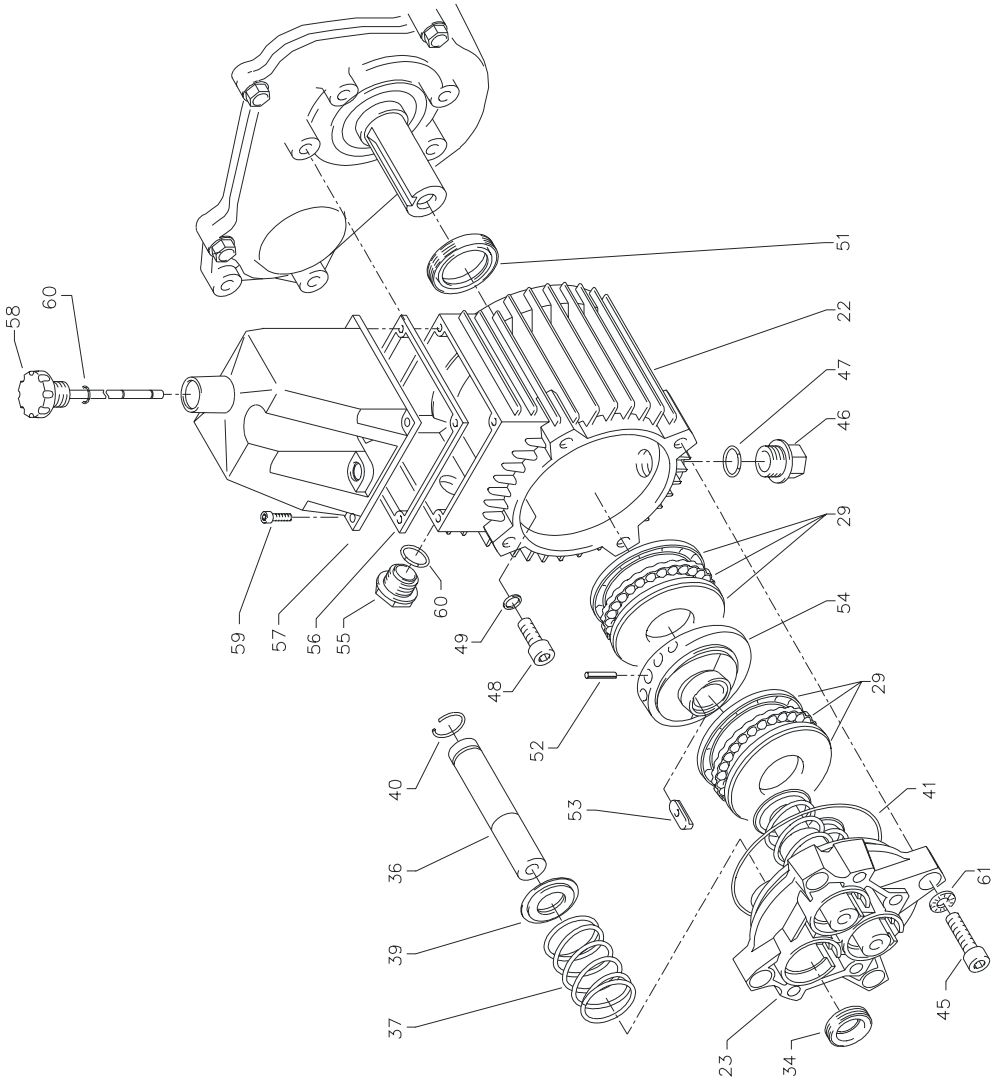


KRÄNZLE B 10/200

Spare parts list Profi-Jet B 10/200 with undercarriage Complete Assembly

No.	Description	Qty.	Ord.-No.
1	Wagen	1	41.101 5
2	Innensechskantschraube M 8 x 35	4	41.510
3	Schubbügel	1	41.101 3
6	Unterlegscheibe 8,4	8	41.515
7	Elastic-Stop-Mutter M 8	4	41.410
9	O-Ring 9,3 x 2,4	2	13.273
11	Hochdruckschlauch 10 m / DN 8 - 210 bar	1	41.081
12	Starlett II mit ISO-Handgriff	1	12.320 2
13	Lanze mit Vario-Jet 030	1	41.156 2
14	Lanze mit Schmutzkiller 030	1	41.073 8
16	Gummidämpfer	4	40.220
17	Starlock-Kappe	2	40.142
18	Rad luftbereift	2	40.141
19	Innensechskantschraube M 6 x 40	2	40.133
20	Flügelmutter M 6	2	40.132
21	Mutter M 5	1	41.416
22	Schraube M 5 x 40	1	41.415
23	Pistolenhalterung	1	40.130
26	Gummistopfen für Wagen	2	40.208 1
27	Bügel	1	41.101 6
28	Elastic-Stop-Mutter M 8	2	41.514
	Motor Honda GX 200 LX		24.027 2

Transmission unit

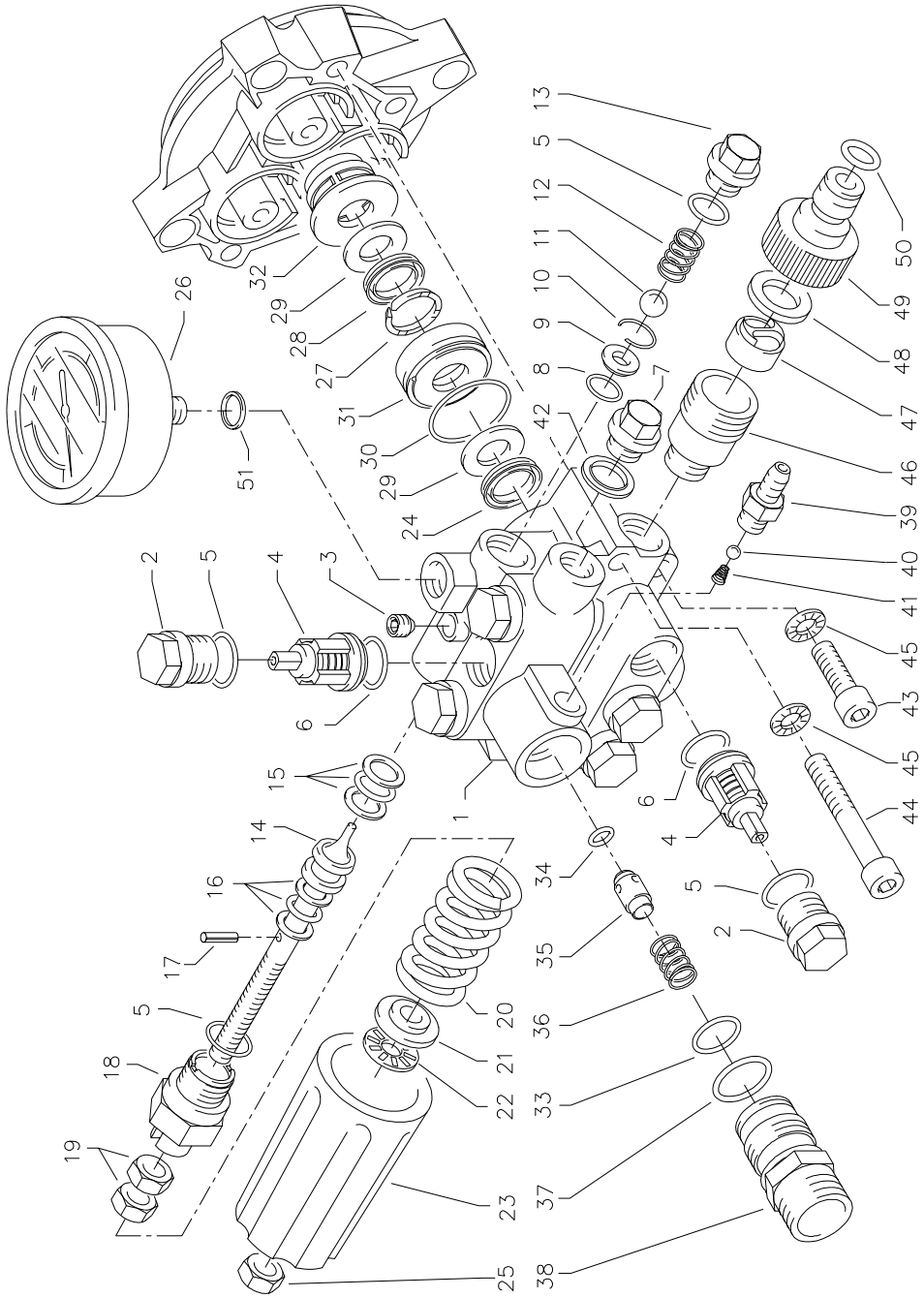


Kränzle B 10/200

Spare parts list Profi-Jet B 10/200 Transmission unit

No.	Description	Qty.	Ord.-No.
22	Getriebegehäuse	1	41.481 1
23	Gehäuseplatte 15 mm	1	42.906
29	Axial-Rillenkugellager 3-teilig	2	43.486
34	Öldichtung 15 x 24 x 7	3	42.907
36	Plunger 15 mm	3	42.908
37	Plungerfeder	3	41.033
39	Federdruckscheibe 15 mm	3	42.909
40	Sprengring 15 mm	3	42.910
41	O-Ring Viton 88 x 2	1	41.021 1
45.1	Innensechskantschraube M 8 x 30	4	41.036 1
46	Ölablaßschraube M 18 x 1,5	1	41.011
47	O-Ring 12 x 2	1	15.005 1
48	Innensechskantschraube M 8 x 20	4	41.480
49	Kupferdichtung	4	41.500
51.1	Wellendichtring 25 x 35 x 5	1	41.019 5
52	Spannstift	1	14.148
53	Stufenkeil	1	41.183
54	Swash plate 13°	1	41.028 6-13,0
	please specify swash plate angle when ordering		
55	Ölschauglas M 18 x 1,5	1	42.018 1
56	Flachdichtung	1	41.019 3
57	Deckel	1	40.518
58	Ölmeßstab	1	42.520 1
59	Innensechskantschraube M 5 x 12	4	41.019 4
60	O-Ring 14 x 2	2	43.445
61	Sicherungsring	4	40.054

Valve housing

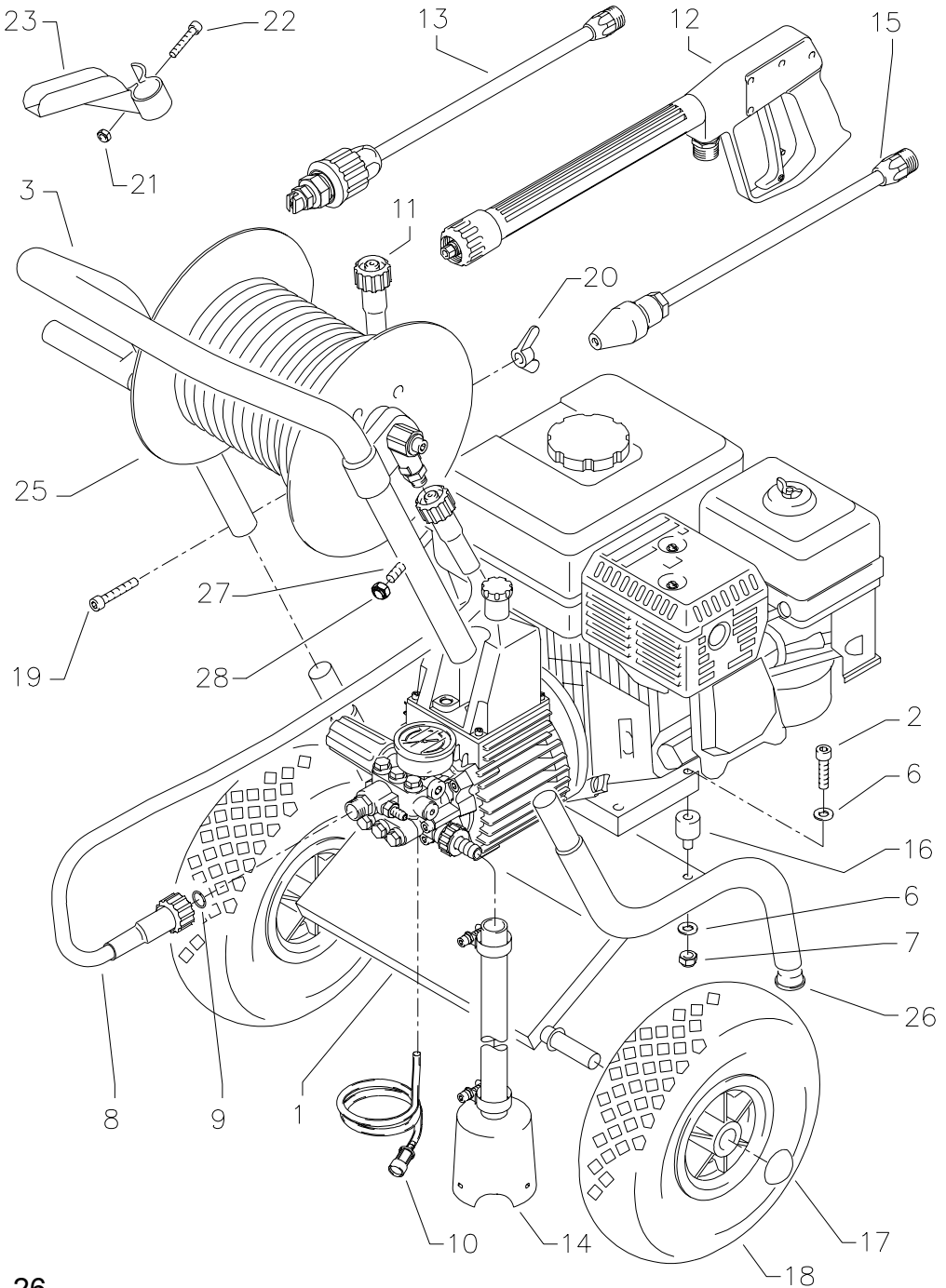


Kränzle B 10/200

Spare parts list Profi-Jet B 10 / 200 Valve housing APG 15 mm

No.	Description	Qty.	Ord.-No.	No.	Description	Qty.	Ord.-No.
1	Ventilgehäuse	1	42.900	32	Zwischenring 15 mm	3	42.904 1
2	Ventilstopfen	6	41.714	33	O-Ring 15 x 1,5	1	42.104
3	Dichtstopfen M 10 x 1	1	43.043	34	O-Ring 6 x 3	1	14.121
4	Ventile (grün) für APG-Pumpe	6	41.715 1	35	Rückschlagkörper	1	14.122
5	O-Ring 16 x 2	8	13.150	36	Rückschlagfeder	1	14.120
6	O-Ring 15 x 2	6	41.716	37	O-Ring 18 x 2	1	43.446
7	Dichtstopfen R1/4" mit Bund	1	42.103	38	Ausgangsstück Injektor ST30 M22x1,5	1	43.447
8	O-Ring 11 x 1,44	1	12.256	39	Saugzapfen Schlauchanschluß	1	13.236
9	Edelstahlsitz	1	14.118	40	Edelstahlkugel 5,5 mm	1	13.238
10	Sicherungsring	1	13.147	41	Edelstahlfeder	1	13.239
11	Edelstahlkugel 8,5 mm	1	13.148	42	Kupferring	1	42.104
12	Edelstahlfeder	1	14.119	43	Innensechskantschraube M 8 x 30	2	41.036 1
13	Verschlußschraube	1	14.113	44	Innensechskantschraube M 8 x 55	2	41.017 1
14	Steuerkolben	1	14.134	45	Sicherungsring	4	40.054
15	Parbaks 16 mm	1	13.159	46	Sauganschluß	1	41.016
16	Parbaks 8 mm	1	14.123	47	Wasserfilter	1	41.046 1
17	Spannstift	1	14.148	48	Gummi Dichtring	1	41.047 1
18	Kolbenführung spezial	1	42.105	49	Steckkupplung	1	41.047 2
19	Mutter M 8 x 1	2	14.144	50	O-Ring	1	41.047 3
20	Ventilfeder schwarz	1	14.125	51	Aluminium-Dichtung	2	13.275
21	Federdruckscheibe	1	14.126				
22	Nadellager	1	14.146				
23	Handrad	1	14.147				
24	Manschette 15 x 24 x 5/2,7 braun	3	42.902		Repair kit Valves for APG-Pump consisting of 6x No. 4; 6x No. 5; 6x No. 6		41.748 1
25	Elastic-Stop-Mutter	1	14.152				
26	Manometer 0-250 bar	1	15.039				
27	Druckring 15 mm	3			Repair kit sleeves 15 mm consisting of 3x No. 24; 3x No. 27; 3x No. 28; 6x No. 29; 6x No. 30		41.049 1
28	Manschette 15 x 24 x 5/2,7 schwarz	3	42.902 1				
29	Backing 15 x 24	6	42.903		Valve housing compl. with integr. ULH and pressure switch		42.912
30	O-Ring 28,3 x 1,78	3	40.026				
31	Leckagering 15 mm	3	42.905		Piston valve compl. with Handwheel		43.444

Complete Assembly

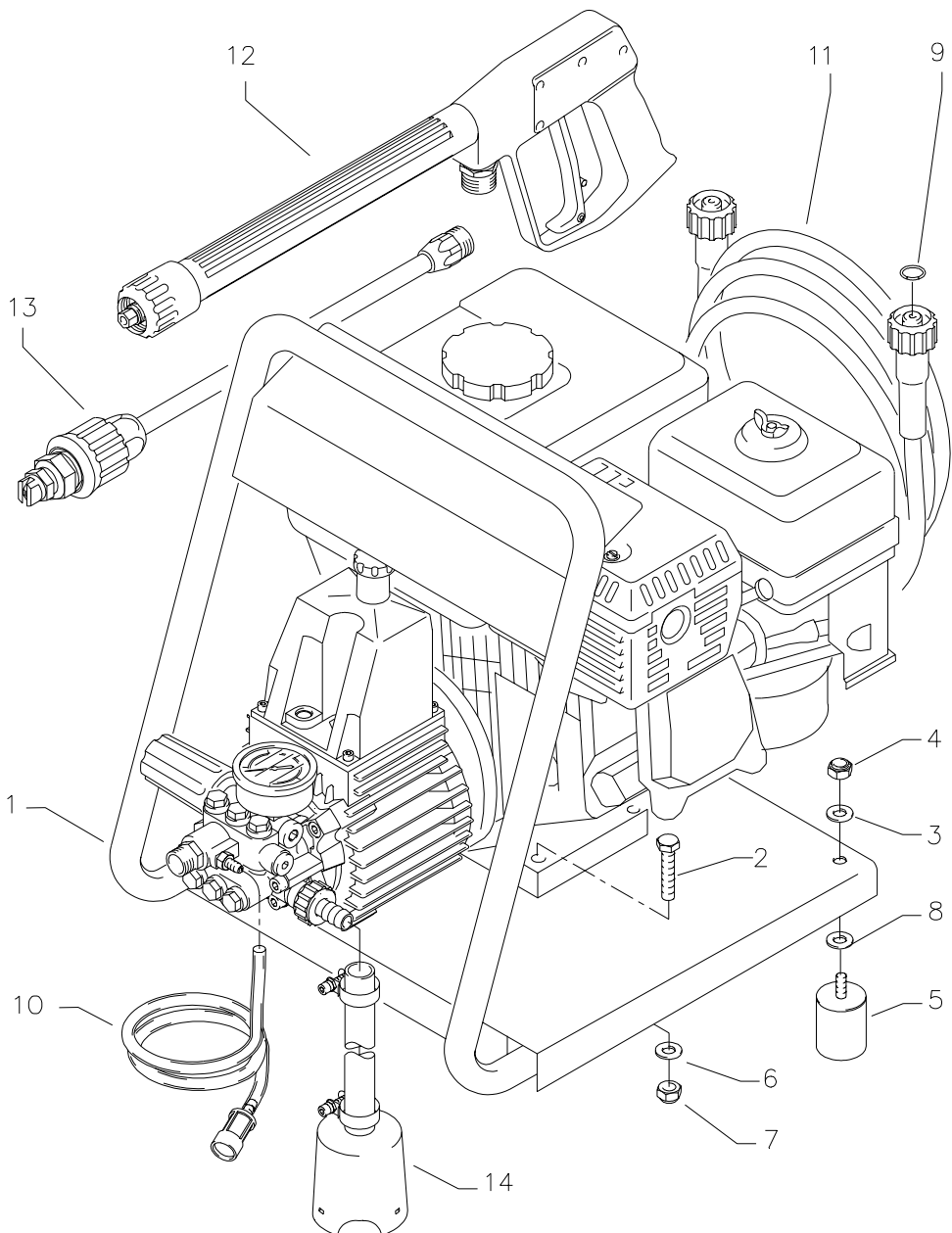


Kränzle B 13/150

Spare parts list Profi-Jet B 13/150 with undercarriage Complete Assembly

No.	Description	Qty.	Ord.-No.
1	Wagen	1	41.101 2
1a	Wagen kompl. (Pos. 1 + 3)	1	41.101 5
2	Sechskantschraube M 8 x 40	4	41.510
3	Schubbügel	1	41.101 3
6	Unterlegscheibe 8,4	8	41.515
7	Elastic-Stop-Mutter M 8	4	41.410
8	Hochdruckschlauch 1m / DN 8 - 210 bar	1	41.265
9	O-Ring 9,3 x 2,4	2	13.273
10	Chemiesieb mit 1,2 m PVC-Schlauch	1	15.038
11a	at unit with hose drum		
	high pressure hose 20 m / DN 8 - 210 bar	1	41.083
11b	at unit without hose drum		
	high pressure hose 10 m / DN 6 - 210 bar	1	43.416
12	Pistole mit Verlängerung	1	41.053 1
13	Lance with reg. nozzle 25055	1	41.053 2
	prease specify size of nozzle		
14	Saugschlauch 3 m mit Saugfilter	1	15.038 3
15	Schmutzkiller 055	1	41.072 6
16	Gummidämpfer	4	40.220
17	Starlock-Kappe	2	40.142
18	Rad luftbereift	2	40.141
19	Innensechskantschraube M 6 x 40	2	40.133
20	Flügelmutter M 6	2	40.132
21	Mutter M 6	1	14.127 1
22	Innensechskantschraube M 6 x 40	1	40.133
23	Pistolenhalterung	1	40.130
24	Schraube 2,9 x 19	2	15.024
25	Schlauchtrommel	1	41.259
26	Gummistopfen	2	40.208 1
27	Bügel	1	41.101 6
28	Elastic-Stop-Mutter M 8	2	41.514
	Motor Honda GX 160 CX		24.027
	Upgrade kit hose drum		41.259 1
	with 1 m HP-Connection hose		
	but without 20 m HP-hose		

Complete Assembly

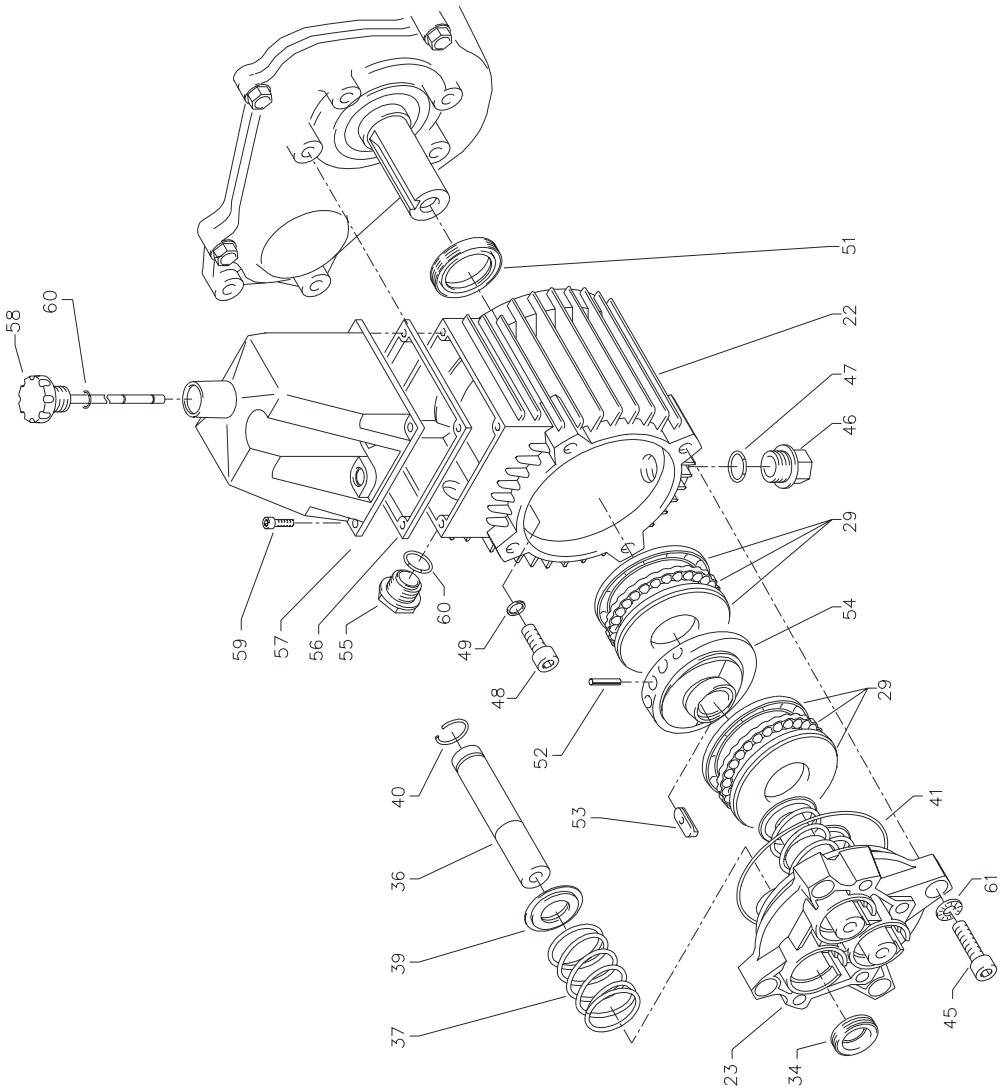


KRÄNZLE B 13/150

Spare parts list Profi-Jet B 13/150 portable Complete Assembly

No.	Description	Qty.	Ord.-No.
1	Tragbügel	1	41.098 3
2	Sechskantschraube M 8 x 40	4	41.510
3	Unterlegscheibe 6 mm	4	41.511
4	Elastic-Stop-Mutter M 6	4	14.152 1
5	GummifüÙe	4	41.513
6	Unterlegscheiben 8 mm	4	41.515
7	Elastic-Stop-Mutter M 8	4	41.410
8	Unterlegscheiben 6 mm (groÙ)	16	41.516
9	O-Ring 9,3 x 2,4	2	13.273
10	Chemiesieb mit 1,2 m PVC-Schlauch	1	15.038
11	Hochdruckschlauch 10 m / DN 6 - 210 bar	1	43.416
12	Pistole mit Verlängerung	1	41.053 1
13	Lanze mit Regeldüse 25055 please specify size of nozzle	1	41.053 2
14	Saugschlauch 3 m mit Saugfilter	1	15.038 3
	Motor Honda GX 160 CX		24.027

Transmission unit

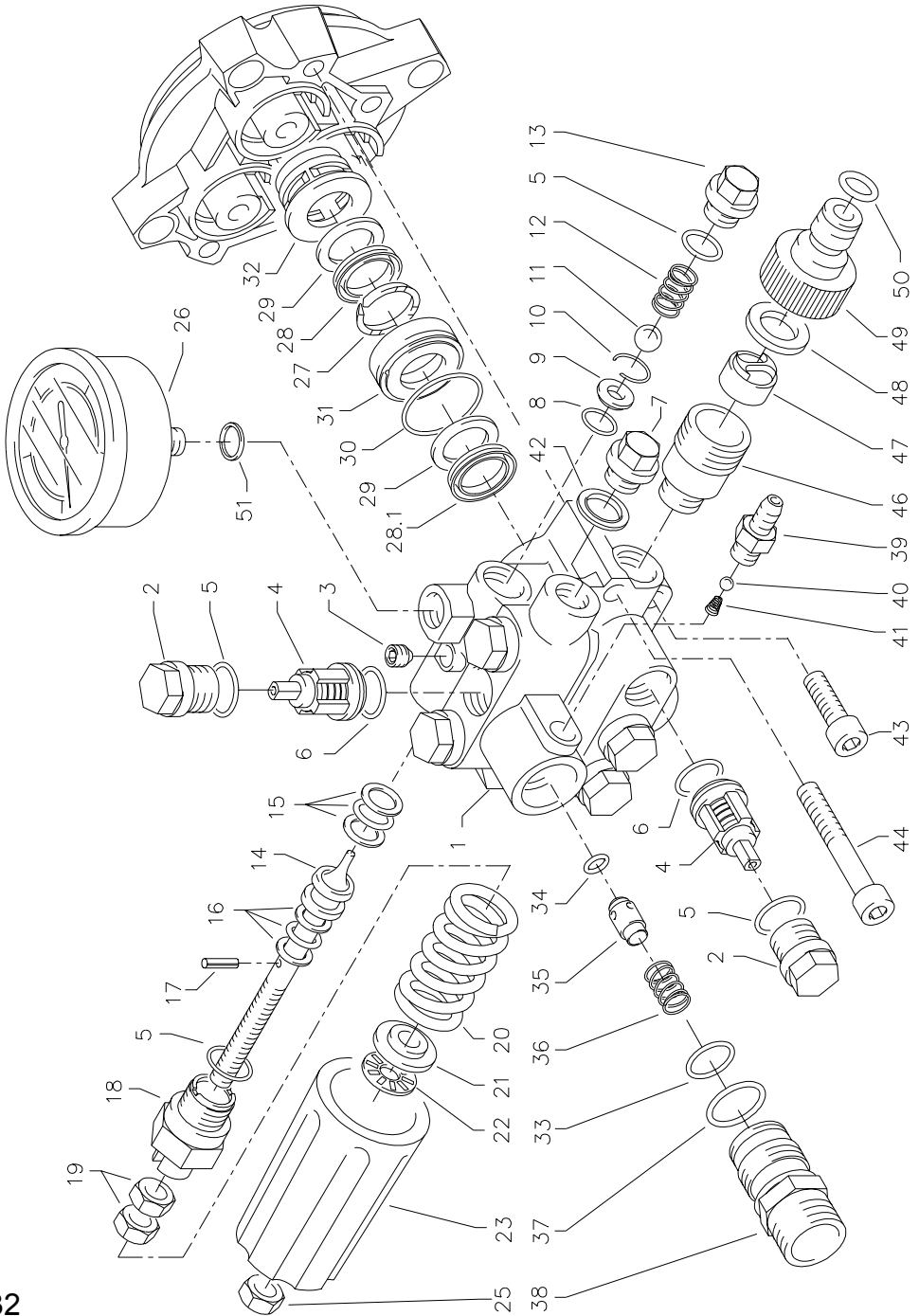


KRÄNZLE B 13/150

Spare parts list Profi-Jet B 13/150 Antrieb

No.	Description	Qty.	Ord.-No.
22	Getriebegehäuse	1	41.481 1
23	Gehäuseplatte 18 mm	1	41.020 2
29	Axial-Rillenkugellager 3-teilig	2	43.486
34	Öldichtung 18 x 28 x 7	3	41.031
36	Plunger 18 mm	3	41.032 1
37	Plungerfeder	3	41.033
39	Federdruckscheibe 18 mm	3	41.034
40	Sprengring 18 mm	3	41.035
41	O-Ring Viton 88 x 2	1	41.021 1
45.1	Innensechskantschraube M 8 x 30	4	41.036 1
46	Ölablaßschraube M 18 x 1,5	1	41.011
47	O-Ring 12 x 2	1	15.005 1
48	Innensechskantschraube M 8 x 20	4	41.480
49	Kupferdichtung	4	41.500
51.1	Wellendichtung 25 x 35 x 5	1	41.019 5
52	Spannstift	1	14.148
53	Stufenkeil	1	41.183
54	Taumscheibe 11,5° please specify washplate angle when ordering	1	41.028 6-11,5
55	Ölschauglas M 18 x 1,5	1	42.018 1
56	Flachdichtung	1	41.019 3
57	Deckel	1	40.518
58	Ölmeßstab	1	42.520 1
59	Innensechskantschraube M 5 x 12	4	41.019 4
60	O-Ring 14 x 2	2	43.445
61	Sicherungsring	4	40.054
Motor Honda GX 160			24.027

Valve housing

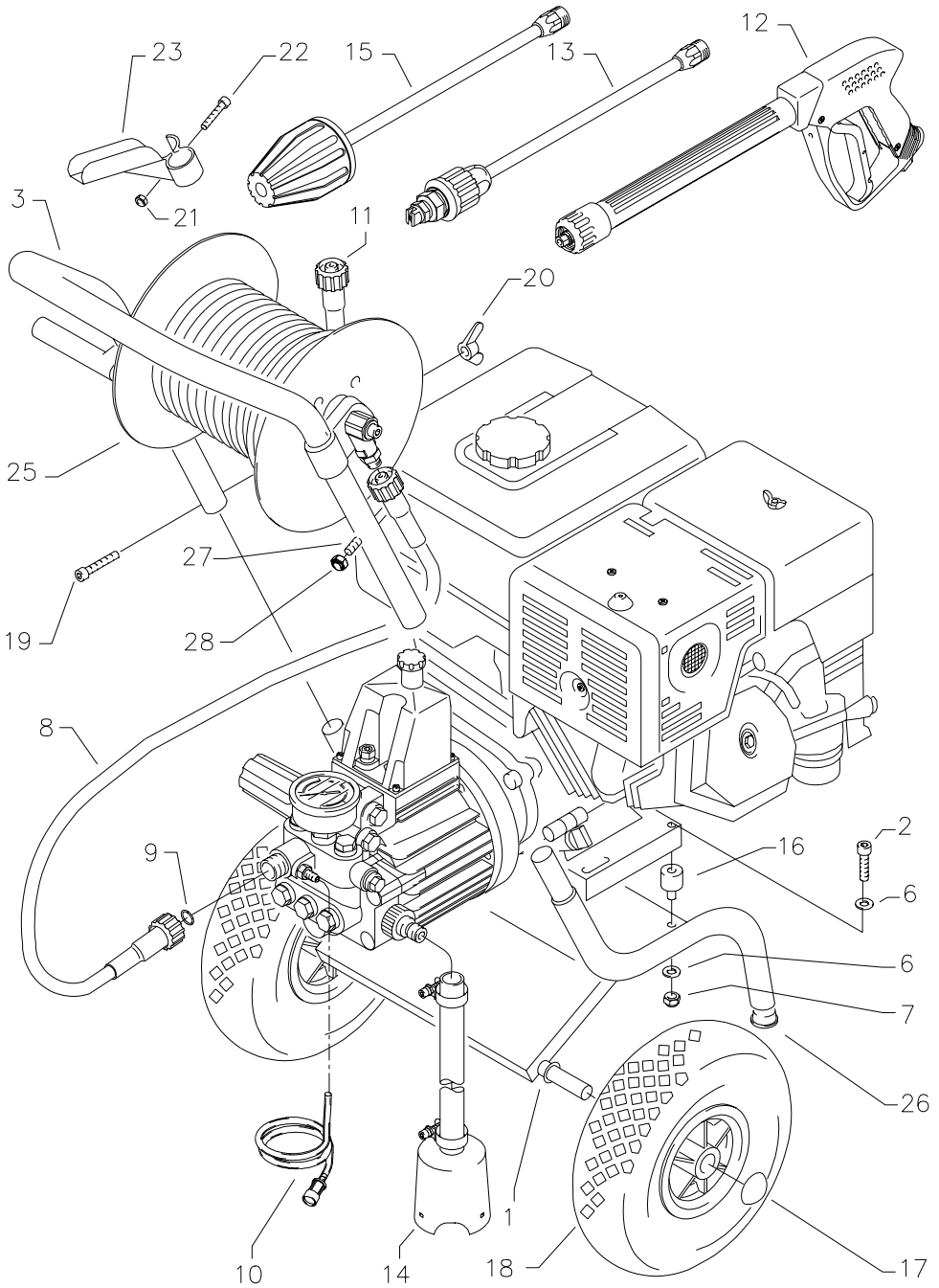


Spare parts list Profi-Jet B 13/150
Valve housing APG 18 mm

KRÄNZLE B 13/150

No.	Description	Qty.	Ord.-No.	No.	Description	Qty.	Ord.-No.
1	Ventilgehäuse	1	43.435	32	Zwischenring 18 mm	3	41.015 2
2	Ventilstopfen	6	41.714	33	O-Ring 15 x 1,5	1	42.104
3	Dichtstopfen M 10 x 1	1	43.043	34	O-Ring 6 x 3	1	14.121
4	Ventile (grün) für APG-Pumpe	6	41.715 1	35	Rückschlagkörper	1	14.122
5	O-Ring 16 x 2	8	13.150	36	Rückschlagfeder	1	14.120
6	O-Ring 15 x 2	6	41.716	37	O-Ring 18 x 2	1	43.446
7	Dichtstopfen R1/4" mit Bund	1	42.103	38	Ausgangsstück Injektor ST30 M22x1,5	1	43.447
8	O-Ring 11 x 1,44	1	12.256	39	Saugzapfen Schlauchanschluß	1	13.236
9	Edelstahlsitz	1	14.118	40	Edelstahlkugel 5,5 mm	1	13.238
10	Sicherungsring	1	13.147	41	Edelstahlfeder	1	13.239
11	Edelstahlkugel 8,5 mm	1	13.148	42	Kupferring	1	42.104
12	Edelstahlfeder	1	14.119	43	Innensechskantschraube M 8 x 30	2	41.036 1
13	Verschlußschraube	1	14.113	44	Innensechskantschraube M 8 x 55	2	41.017 1
14	Steuerkolben	1	14.134	46	Sauganschluß	1	41.016
15	Parbaks 16 mm	1	13.159	47	Wasserfilter	1	41.046 1
16	Parbaks 8 mm	1	14.123	48	Gummi Dichttring	1	41.047 1
17	Spannsiff	1	14.148	49	Steckkupplung	1	41.047 2
18	Kolbenführung spezial	1	42.105	50	O-Ring	1	41.047 3
19	Mutter M 8 x 1	2	14.144	51	Aluminium-Dichttring	2	13.275
20	Ventilfeder schwarz	1	14.125		Repair kit Valves for APG-Pump		41.748 1
21	Federdruckscheibe	1	14.126		consistion of 6x No. 4; 6x No. 5; 6x No. 6		
22	Nadellager	1	14.146				
23	Handrad	1	14.147				
25	Elastic-Stop-Mutter	1	14.152				
26	Manometer 0-250 bar	1	15.039				
27	Druckring	3	41.018				
28	Manschette 18 x 26 x 4/2	3	41.013				
28.1	Gewebemanschette 18 x 26 x 4/2	3	41.013 1				
29	Backing 18 x 26	6	41.014				
30	O-Ring 28,3 x 1,78	3	40.026				
31	Leckagering 18 mm	3	41.066				
					Repair kit sleeves 18 mm		41.049 2
					consisting of 3x No. 27; 3x No. 28;		
					3x No. 28.1; 6x No. 29; 6x No. 30		
					Valvehousing compl.		43.442
					with integr. ULH		
					Piston valve compl. with handwheel		43.444

Complete Assembly

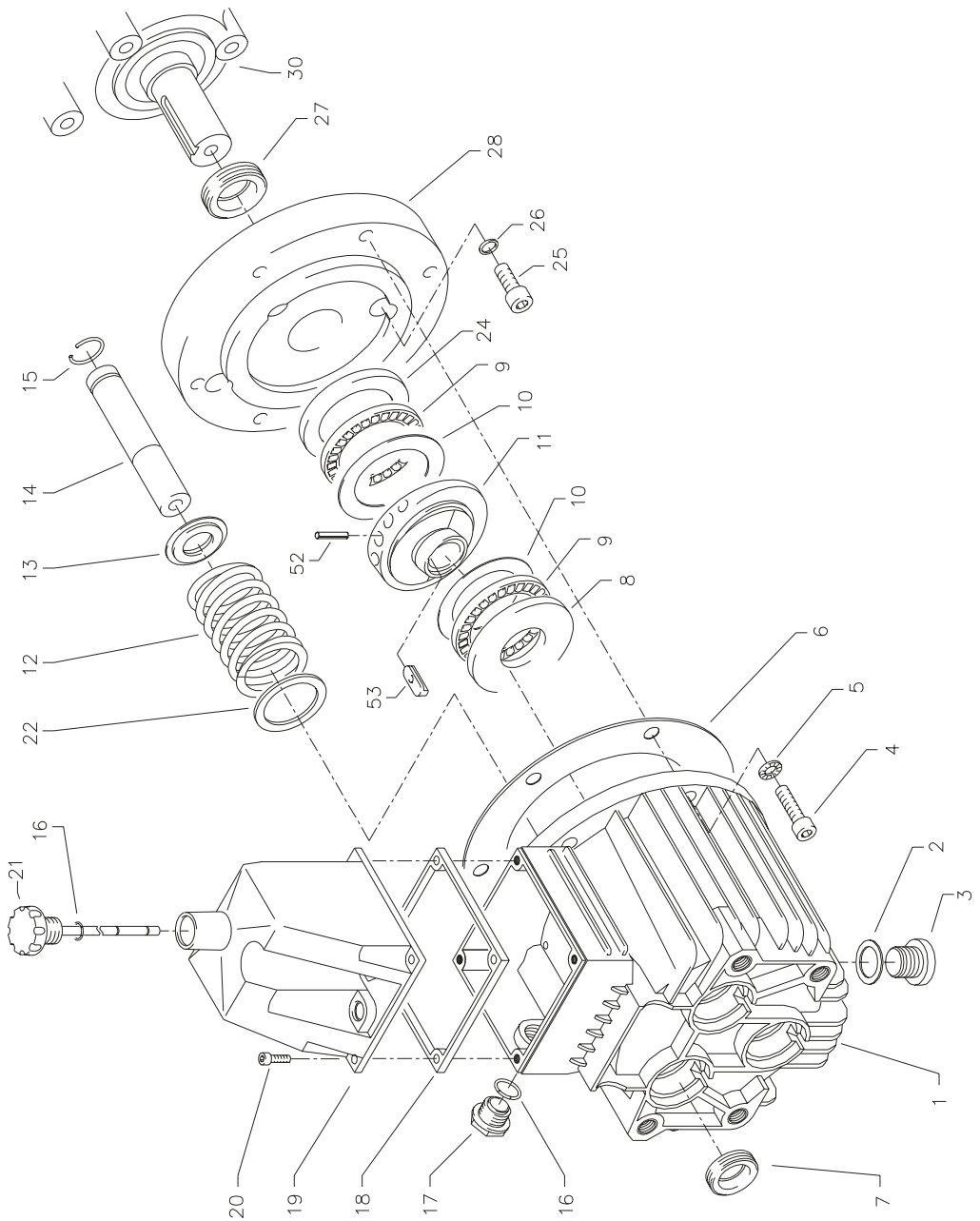


KRÄNZLE B 16/220

Spare parts list Profi-Jet B 16/220 with undercarriage Complete Assembly

No.	Description	Qty.	Ord.-No.
1	Wagen	1	41.101 2
1a	Wagen kompl. (Pos. 1 + 3)	1	41.101 5
2	Sechskantschraube M 8 x 30	4	40.221
3	Schubbügel	1	41.101 3
6	Unterlegscheibe 8,4	8	41.515
7	Elastic-Stop-Mutter M 8	4	41.410
8	Hochdruckschlauch 1m / DN 8 - 210 bar	1	41.265
9	O-Ring 9,3 x 2,4	3	13.273
10	Chemiesieb mit 1,2 m PVC-Schlauch	1	15.038
11a	at unit with hose drum		
	high pressure hose 15 m / DN 8 - 210 bar	1	41.083
11b	at unit without hose drum		
	high pressure hose 10 m / DN 8 -210 bar	1	41.082
12	Starlett II mit ISO-Handgriff	1	12.320 2
13	Lance with reg. nozzle 25055	1	41.053 2
	prease specify size of nozzle		
14	Saugschlauch 3 m mit Saugfilter	1	15.038 3
15	Turbokiller 055	1	41.072 4
16	Gummidämpfer	4	40.220
17	Starlock-Kappe	2	40.142
18	Rad luftbereift	2	40.141
19	Innensechskantschraube M 6 x 40	2	40.133
20	Flügelmutter M 6	2	40.132
21	Mutter M 6	1	14.127 1
22	Innensechskantschraube M 6 x 40	1	40.133
23	Pistolenablage	1	40.130
24	Schraube 2,9 x 19	2	15.024
25	Schlauchtrommel kpl. ohne Schlauch	1	41.259
26	Gummistopfen	2	40.208 1
27	Bügel	1	41.101 6
28	Elastic-Stop-Mutter M 8	2	41.514
	Speedcontrol with 1m Bowden cable	1	40.255 1
	Motor Honda GX 340		24.026
	AQ-Pump compl.		40.265
	Upgrade kit hose drum		41.259 1
	with 1 m HP-Connection hose		
	but without 20 m HP-hose		

Transmission unit

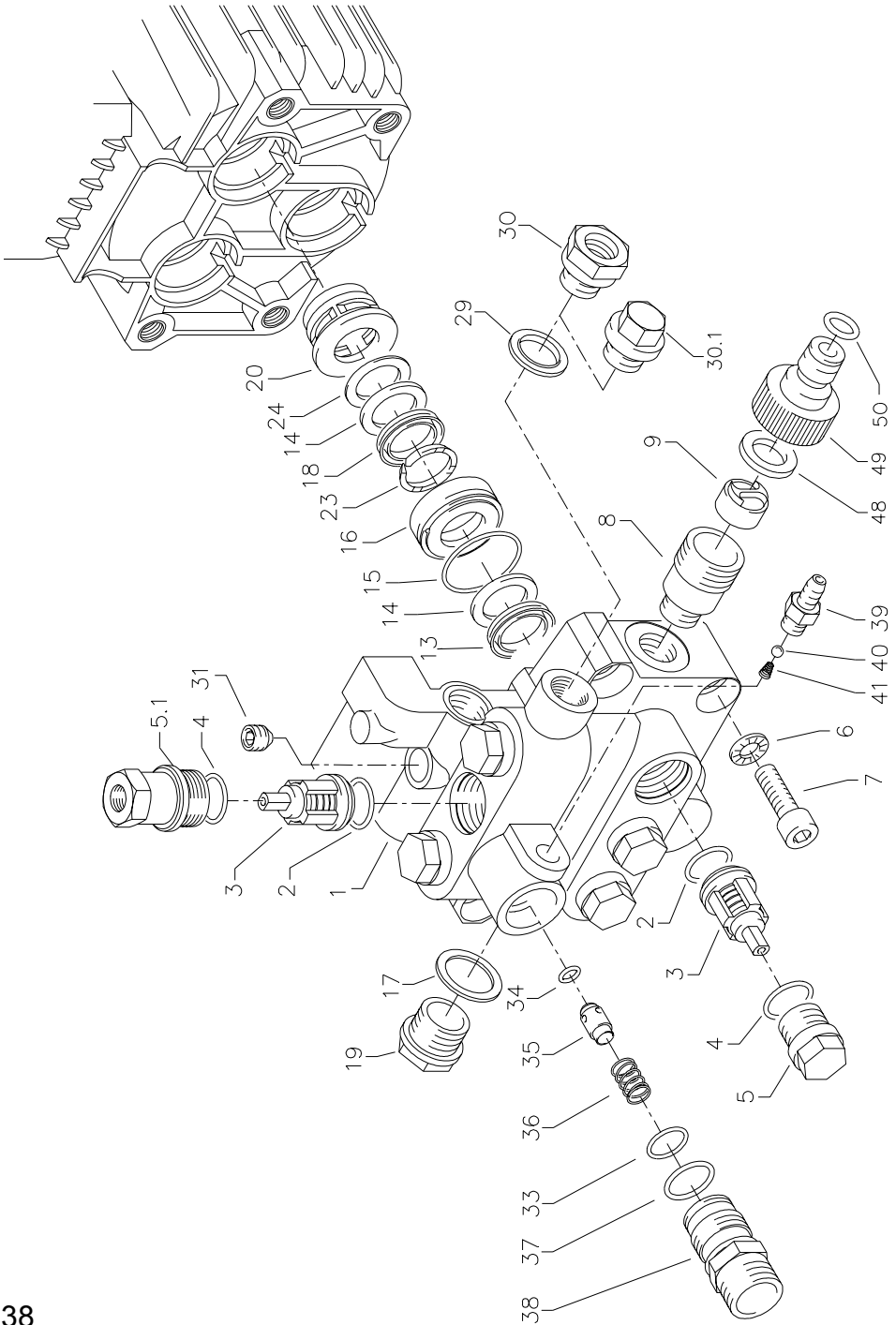


KRÄNZLE B 16/220

Spare parts list Profi-Jet B 16/220 Transmission unit AQ-Pump

No.	Description	Qty.	Ord.-No.
1	Ölgehäuse	1	40.501
2	Cu-Dichtring	1	40.052
3	Ölablaßschraube	1	40.051
4	Innensechskantschraube M 8 x 25	6	40.053
5	Sicherungsscheibe	6	40.054
6	Flachdichtung	1	40.511
7	Öldichtung 20 x 30 x 7	3	40.044 1
8	Weillenscheibe	1	40.043
9	Axial-Rollenkäfig	1	40.040
10	AS-Scheibe	2	40.041
11	Swash plate 8°	1	40.042 6-8,0
	please specify swash plate angle when ordering		
12	Plungerfeder	3	40.506
13	Federdruckscheibe	3	40.510
14	Plunger 20 mm (lang)	3	40.505
15	Sprengring	3	40.048
16	O-Ring 14 x 2	2	43.445
17	Ölschauglas M 18 x 1,5	1	42.018
18	Flachdichtung	1	41.019 3
19	Deckel Ölgehäuse	1	40.518
20	Innensechskantschraube M 5 x 12	4	41.019 4
21	Ölmeißstab	1	42.520
22	Stützscheibe	3	40.513
24	Gehäusescheibe	1	40.039
25	Innensechskantschraube M 8 x 30	4	41.036 1
26	Kupfer-Dichtring	4	41.500
27	Dichtring 30 x 42 x 7	1	40.224
28	Flansch für B 16/220	1	40.223
30	Motor Honda GX 340	1	24.026
52	Spannstift	1	14.148
53	Stufenkeil	1	40.222

Valve housing

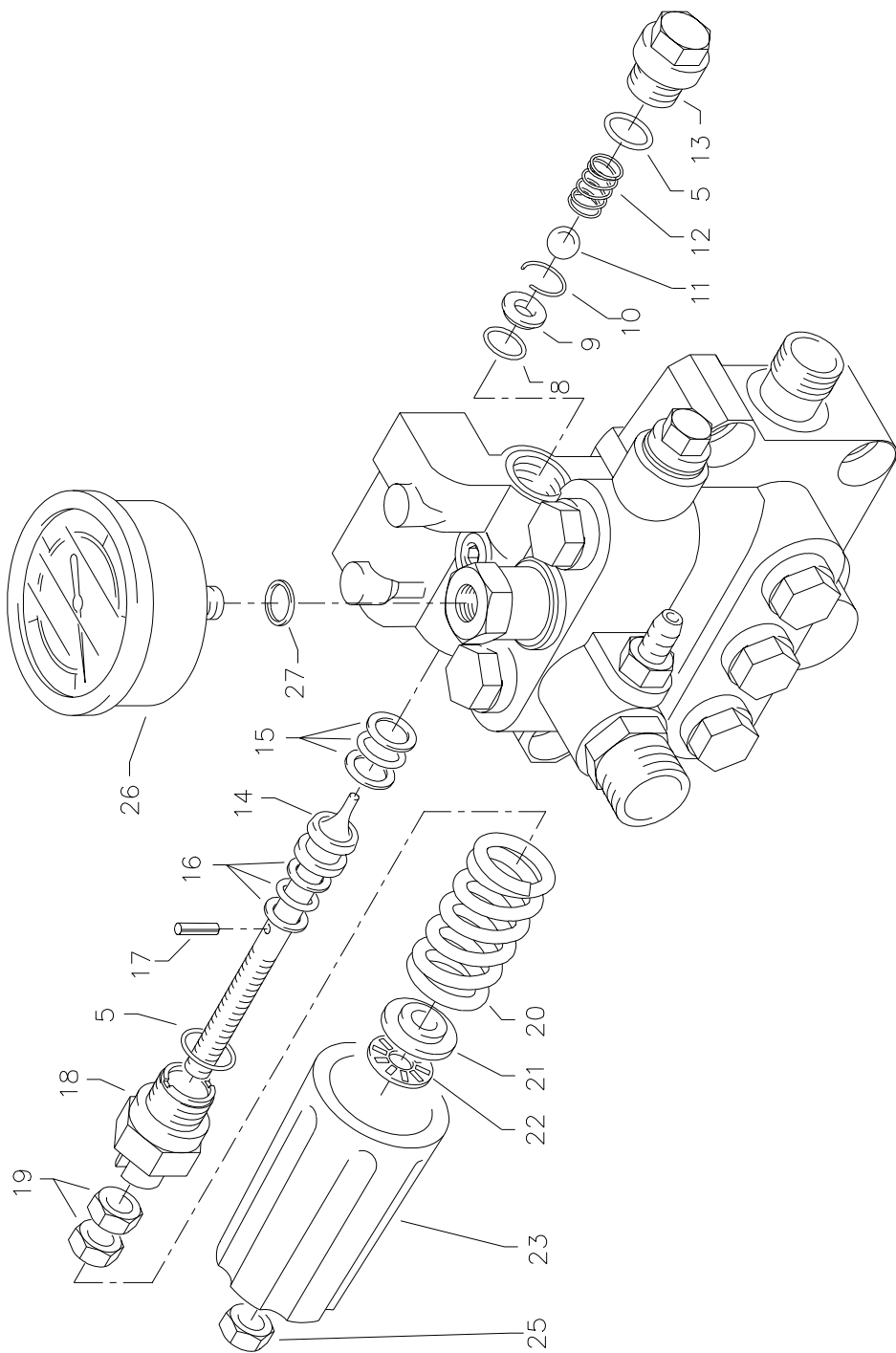


KRÄNZLE B 16/220

Spare parts list Profi-Jet B 16/220 Valve housing AQ-Pump

No.	Description	Qty.	Ord.-No.	No.	Description	Qty.	Ord.-No.
1	Ventilgehäuse AQ mit integr. UL	1	40.521	31	Dichtstopfen M 10 x 1	1	43.043
	ohne integr. Druckschalter			34	O-Ring 6 x 3	1	14.121
2	O-Ring 18 x 2	6	40.016	35	Rückschlagkörper	1	14.122
3	Einlaß- / Auslaß- Ventil	6	42.024	36	Rückschlagfeder	1	14.120
4	O-Ring 21 x 2	6	42.025	37	O-Ring 18 x 2	1	43.446
5	Ventilstopfen	5	42.026	38	Ausgangstück Injektor ST30 M22x1,5	1	43.447
5.1	Ventilstopfen mit R 1/4" IG	1	42.026.2	39	Saugzapfen Schlauchanschluß	1	13.236
6	Sicherungsring	4	40.032	40	Edelstahlnkugel 5,5 mm	1	13.238
7	Innensechskantschraube M 12 x 45	4	40.504	41	Edelstahlfeder	1	13.239
8	Sauganschluß R 1/2" AG	1	41.016.1	48	Gummidichtung für Steckkupplung	1	41.047.1
9	WassereingangsfILTER	1	41.046.2	49	Steckkupplung für Wassereingang	1	41.047.2
13	Gewebemanschette	3	40.023	49.1	Steckkupplung kpl.		41.047.4
14	Backring 20 mm	6	40.025		Pos. 10 - 12		
15	O-Ring 31,42 x 2,62	3	40.508	50	O-Ring	1	41.047.3
16	Leckagering 20 x 36 x 13,3	3	40.509		Repair kit sleeves		
17	Cu-Dichtung 21 x 28 x 1,5	1	42.039		consisting of: 3x No. 13; 6x No. 14;		40.065.1
18	Gummimanschette	3	40.512		3x No. 15; 3x No. 16; 3x No. 18;		
19	Verschlußschraube R 1/2"	1	42.032		3x No. 20; 3x No. 23		
20	Distanzring mit Abstützung	3	40.507		Repair kit sleeves without		40.517
23	Druckring 20 mm	3	40.021		brassparts consisting of:		
24	Zwischenring 20 mm	3	40.516		3x No. 13; 6x No. 14; 3x No. 15;		
29	Dichtring 17 x 22 x 1,5 (Kupfer)	1	40.019		3x No. 18; 3x No. 23		
30	Abschlußmuffe 3/8" AG x 3/8" IG by version with control speed	1	13.136		Repair kit Valves		40.062.1
30.1	Verschlußschraube 3/8" AG by version without control speed	1	40.018		consisting of:		
					6x No. 2; 6x No. 3; 6x No. 4		

Unloader valve

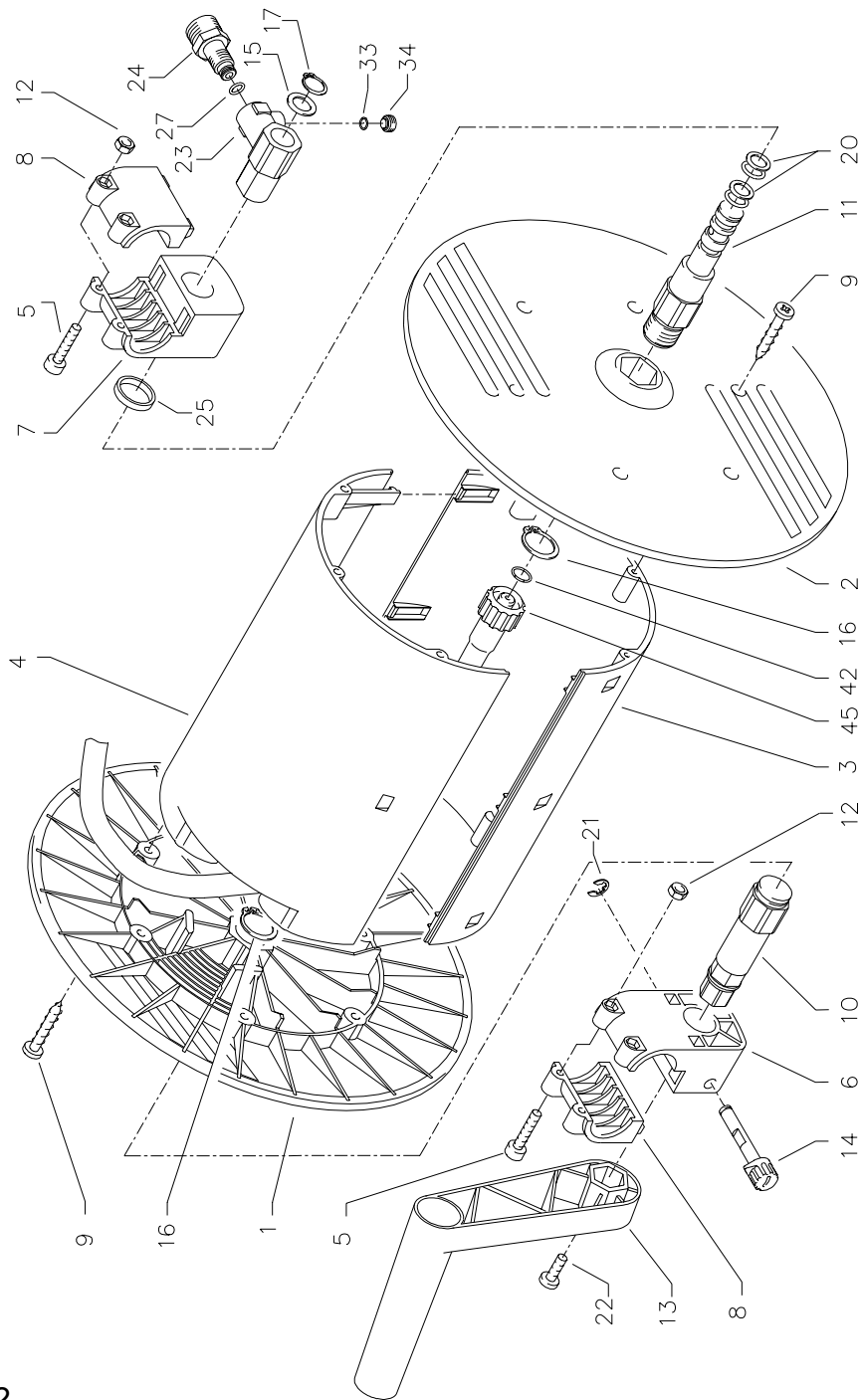


KRÄNZLE B 16/220

Spare parts list Profi-Jet B 16/220 Unloadervalve AQ-Pump

No.	Description	Qty.	Ord.-No.
5	O-Ring 16 x 2	2	13.150
8	O-Ring 11 x 1,44	1	12.256
9	Edelstahlsitz	1	14.118
10	Sicherungsring	1	13.147
11	Edelstahlkugel	1	13.148
12	Edelstahlfeder	1	14.119
13	Verschlusschraube	1	14.113
14	Steuerkolben	1	14.134
15	Parbaks 16 mm	1	13.159
16	Parbaks 8 mm	1	14.123
17	Spannstift	1	14.148
18	Kolbenführung spezial	1	42.105
19	Kontermutter M 8 x 1	2	14.144
20	Ventilfeder schwarz	1	14.125
21	Federdruckscheibe	1	14.126
22	Nadellager	1	14.146
23	Handrad	1	14.147
25	Elastic-Stop-Mutter M 8 x 1	1	14.152
26	Manometer 0-400 Bar	1	15.039 4
27	Aluminium-Dichtring	2	13.275

Hose drum



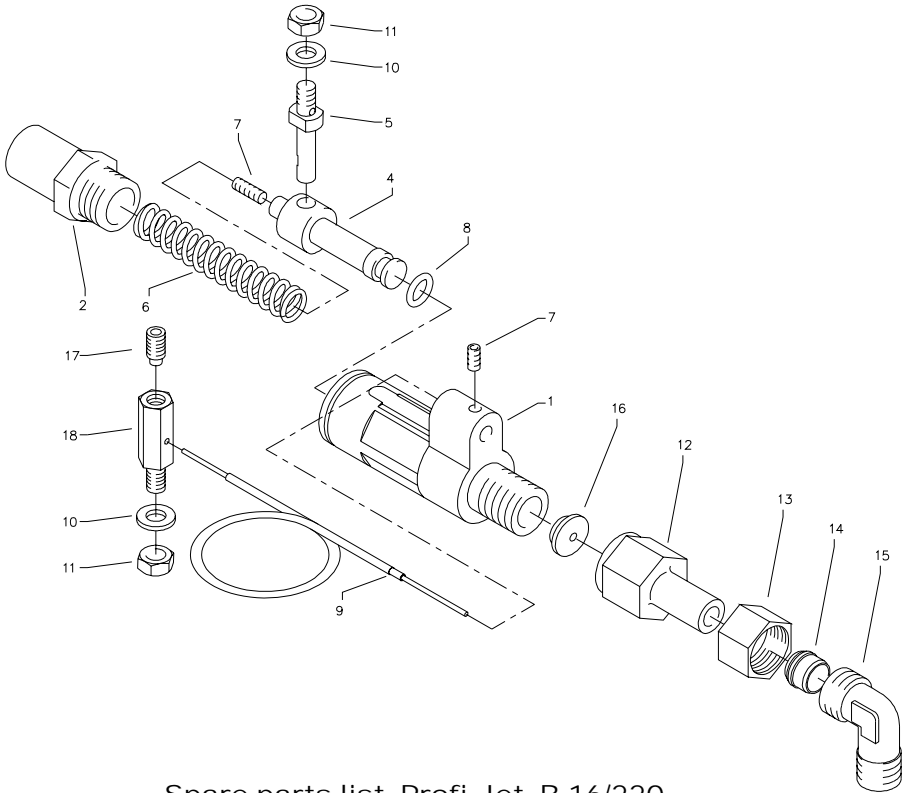
KRÄNZLE B 13/150 B 16/220

Spare parts list Profi-Jet B 13/150; B 16/220

Hose Drum

No.	Description	Qty.	Ord.-No.
1	Seitenschale Schlauchführung	1	40.302
2	Seitenschale Wasserführung	1	40.301
3	Trommel Unterteil	1	40.304
4	Trommel Oberteil	1	40.303
5	Innensechskantschraube M 4 x 25	4	40.313
6	Lagerklotz mit Bremse	1	40.306
7	Lagerklotz links	1	40.305
8	Klemmstück	2	40.307
9	Kunststoffschraube 5,0 x 20	12	43.018
10	Antriebswelle	1	40.310
11	Welle Wasserführung	1	40.311
12	Elastic-Stop-Mutter M 4	4	40.111
13	Handkurbel	1	40.309
14	Verriegelungsbolzen	1	40.312
15	Scheibe MS 16 x 24 x 2	1	40.181
16	Wellensicherungsring 22 mm	2	40.117
17	Wellensicherungsring 16 mm	1	40.182
20	Parbaks 16 mm	2	13.159
21	Sicherungsscheibe 6 DIN6799	1	40.315
22	Schraube M 5 x 10	1	43.021
23	Drehgelenk	1	40.167
24	Anschlußteil	1	40.308 1
25	Distanzring	1	40.316
27	O-Ring 6,68 x 1,78	1	40.585
33	O-Ring 6 x 1,5	1	13.386
34	Stopfen M 10 x 1	1	13.385
42	O-Ring 9,3 x 2,4	4	13.273
45	Hochdruckschlauch 20 m NW 8	1	41.083

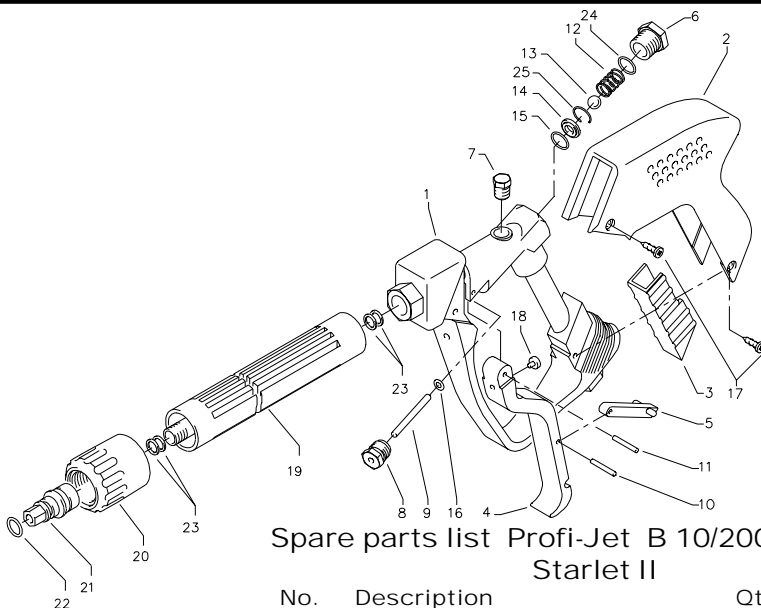
Speed control



Spare parts list Profi-Jet B 16/220 Speed control

No.	Description	Qty.	Ord.-No.
1	Grundteil	1	42.581
2	Druckhülse	1	42.584
4	Steuerkolben	1	42.582
5	Querbolzen	1	42.583
6	Druckfeder 2,0 x 9,5 x 70	1	42.587
7	Gewindestift M4 x 6 DIN 913-A2	1	42.592
8	Parbaks 7 mm	1	15.013
9	Bowdenzug 1 m	1	42.586
10	Unterlegscheibe 6,4 DIN 125	1	50.189
11	Sechskantmutter M6 DIN 934	1	14.127 1
12	Anschlussmuffe Drehzahlregulierung	1	42.585
13	Überwurfmutter	1	40.075
14	Klemmhülse	1	40.074
15	Einschraubwinkelverschraubung 3/8"x 12l	1	
44.092			
16	Drosselscheibe	1	42.589
17	Gewindestift M 6 x 12 DIN915	1	42.590
18	Klemmbolzen	1	42.591

Starlet II - Pistole



Spare parts list Profi-Jet B 10/200; B 16/220 Starlet II

No.	Description	Qty.	Ord.-No.
1	Ventilkörper mit Handgriff	1	12.294
2	Schutzhülse	1	12.295
3	Abdeckschutz	1	12.296
4	Betätigungshebel	1	12.298
5	Sicherungshebel	1	12.149
6	Abschlußschraube M 16 x 1	1	12.247
7	Stopfen	1	12.287
8	Gewindeführungshülse R 1/4" AG	1	12.250
9	Aufsteuerbolzen	1	12.284
10	Stift	1	12.148
11	Lagernadel	1	12.253
12	Edelstahlfeder	1	12.246
13	Edelstahlkugel	1	12.245
14	Edelstahlsitz	1	13.146
15	O-Ring 11 x 1,44	1	12.256
16	O-Ring 3,3 x 2,4	1	12.136
17	Blechschaube 3,9 x 8	4	12.297
18	Druckstück	1	12.252
19	Rohr kunststoffumspritzt bds. R 1/4" AG	1	15.004 5
20	Überwurfmutter ST30 M 22 x 1,5 IG	1	13.276 1
21	Außen-Sechskant-Nippel R 1/4" IG	1	13.277 1
22	O-Ring 9,3 x 2,4	1	13.273
23	Aluminium-Dichtring	4	13.275
24	O-Ring 15 x 1,5	1	12.129 1
25	Sicherungsring	1	12.258

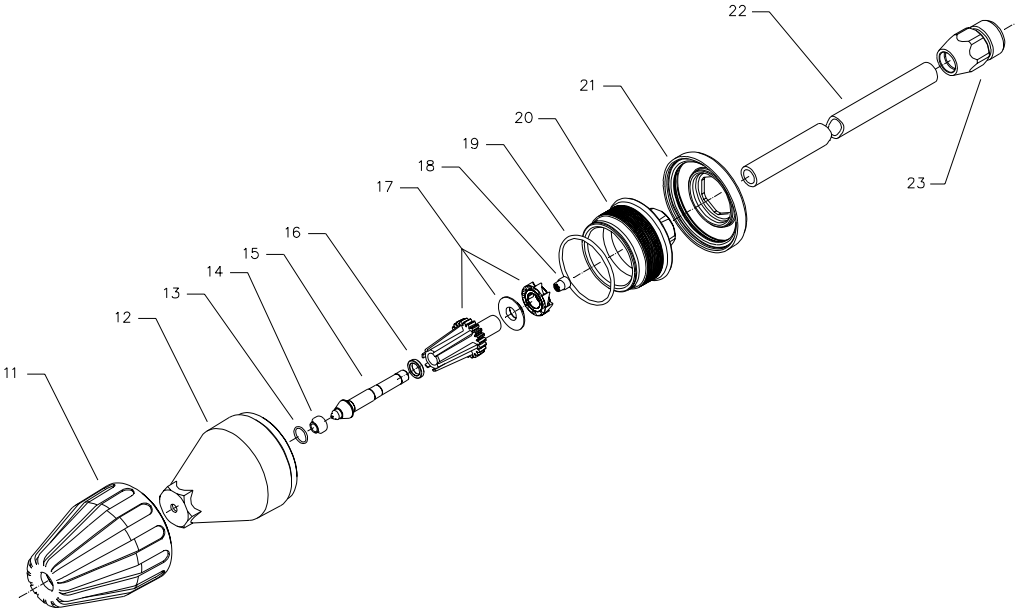
Starlet - Gun with extention

12.320 2

Repair kit "Starlet II"
consisting of No. 9,10,13,14,15

12.299

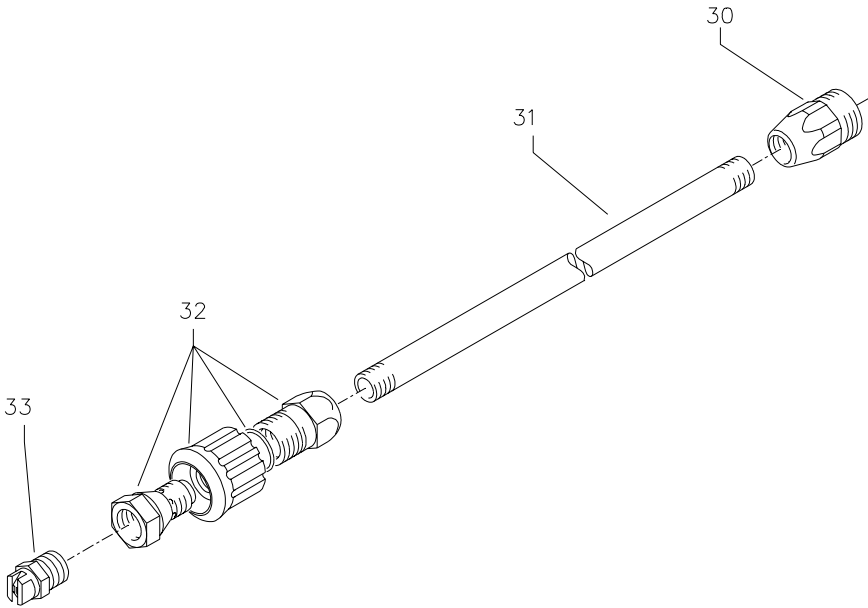
Turbokiller



Spare parts list Profi-Jet B 16/220 Turbokiller 055

No.	Description	Qty.	Ord.-No.
11	Sprühkörperschutz	1	41.528
12	Sprühkörper	1	41.529
13	O-Ring 6,88 x 1,68	1	41.521
14	Düsensitz	1	41.522
15	Düse 055	1	41.532
16	Ring	1	41.533
17	Rotor	1	41.534
18	Stabilisator	1	41.524
19	O-Ring 41 x 1,78	1	41.538
20	Deckel	1	41.539
21	Deckelschutz	1	41.540
22	Rohr 500 mm lang; bds. R1/4"	1	12.385 1
23	Nippel M22x1,5 x R1/4" IG	1	13.370
	Turbokiller 055 compl. with Lance		41.072 4
	Rep. kit Turbokiller 055		41.097 1

Standard regulation nozzle

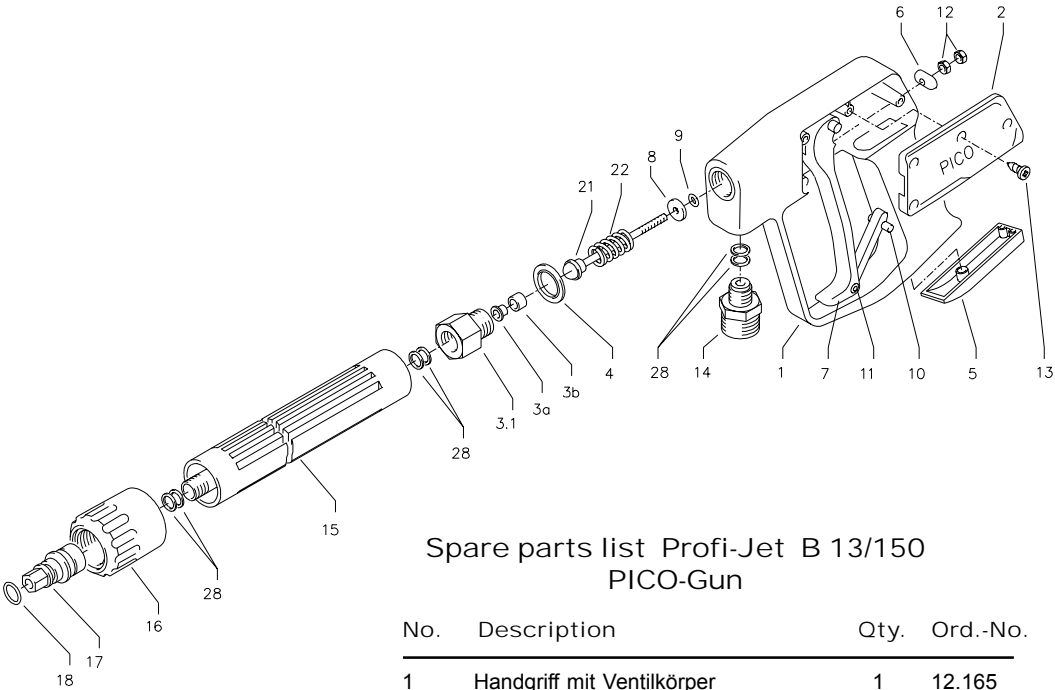


Spare parts list Profi-Jet B 13/150; B 16/220 Standard reg. nozzle

No.	Description	Qty.	Ord.-No.
30	Nippel ST30 M22x1,5 AG / M 12 x 1	1	13.363
31	Rohr 400 mm, bds. M 12 x 1	1	15.002
32	Regeldüse mit Regulierring	1	13.201 2
33	Flat spray nozzle 2505	1	26.001

Please specify size of nozzle

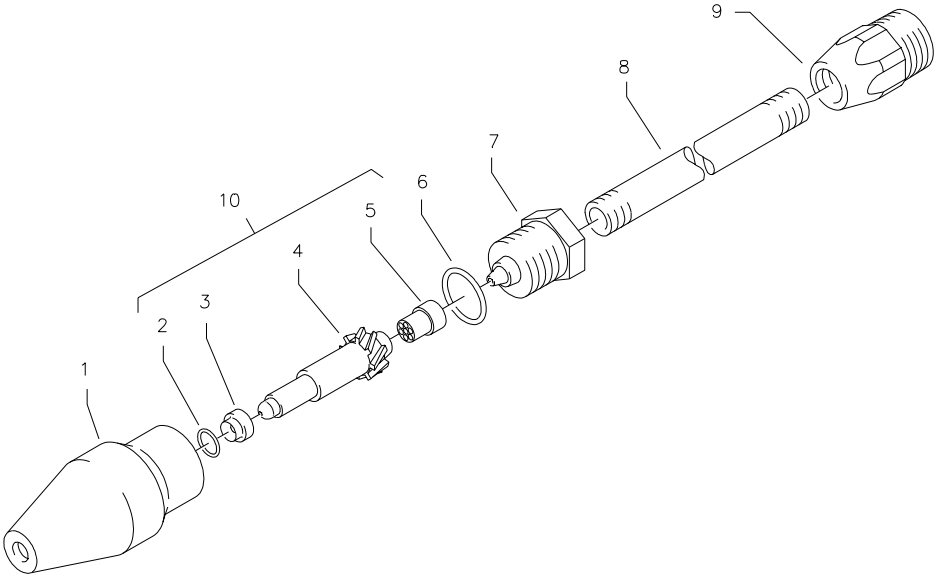
PICO - Gun



Spare parts list Profi-Jet B 13/150 PICO-Gun

No.	Description	Qty.	Ord.-No.
1	Handgriff mit Ventilkörper	1	12.165
2	Abdeckung seitlich	1	12.166
3.1	Rohranschlußteil R1/4"	1	12.125
3a+b	Messinghülse mit Teflonsitz	1	12.127
4	O-Ring 12 x 2	1	15.005 1
5	Abdeckung unten	1	12.167
6	Druckplatte	1	12.168
7	Abzug-Hebel	1	12.169
8	Messing-Scheibe	1	12.135
9	O-Ring 3,3 x 2,4	1	12.136
10	Sicherungshebel	1	12.170
11	Stift 3 x 17	1	12.171
12	Kontermutter M 4	2	12.138
13	Schraube 3,9 x 9,5	4	12.172
14	ST 30-Nippel M22 x 1,5 / R 1/4" AG	1	13.365
15	Rohr kunststoffumspritzt bds. R 1/4" AG	1	15.004 2
16	Überwurfmutter ST 30 M22 x 1,5 IG	1	13.276 1
17	Außen-Sechskant-Nippel R 1/4" IG	1	13.277 1
18	O-Ring 9,3 x 2,4	1	13.273
21	Kolbenstange mit Kolben	1	12.143
22	Druckfeder	1	12.145
28	Aluminium-Dichtring	4	13.275
	Pico-Gun with extention		41.053 1
	Repair kit "Pico" consisting of 1x No.:		12.158
	3.1, 3a, 3b, 4, 8, 9, 12, 21, 22		

Dirtkiller



Spare parts list Profi-Jet B 10/200; B 13/150 Dirtkiller

No.	Description	Qty.	Ord.-No.
1	Sprühkörper	1	41.520
2	O-Ring 6,88 x 1,68	1	41.521
3	Düsensitz	1	41.522
4	Düse 045 (B13/150)	1	41.523
4.1	Düse 03 (B 10/200)	1	41.523 4
5	Stabilisator	1	41.524
6	O-Ring	1	40.016 1
7	Sprühstopfen	1	41.526
8	Rohr 400 mm 2x M 12 x 1	1	41.527
9	ST 30-Nippel M 22 x 1,5 / M 12 x 1 ISK	1	13.363

Repair kit Dirtkiller 045 (B13/150) **41.097**
consisting of No. 2; 3; 4; 5

Repair kit Dirtkiller 03 (B13/150) **41.096 1**
consisting of No. 2; 3; 4.1; 5

Dirtkiller 045 with Lance (B13/150) **41.072 5**
Dirtkiller 03 with Lance (B10/200) **41.073 8**

Inspirection report

for KRÄNZLE - High Pressure Cleaners

Regular inspection every 12 months if used professionally!

Appliance No:

Type:

The following must be checked:

1. Safety features

- a) Manometer
- b) Safety valve (pressure control)
- c) Operating pressure
- d) Cut out pressure (max. 10% above operating pressure)
- e) Low pressure with trigger released

2. General condition

- a) High pressure hose
- b) Spray gun
- c) Motor
- d) Oil level

The information in the operating instructions are a part of the inspection

Result of inspection:	Date of inspection:	Faults rectified, Stamp and signature
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>

Excerpt from the Guidelines for Liquid Spray Equipment (ZH 1/46) by the Central Office of the Professional Trade Association.

Inspection:

Liquid spray equipment should be inspected for safe operation by a qualified person whenever necessary, but no less than every 12 months. The maker's or supplier's instructions must be followed. The inspection intervals may be extended if the equipment is not in active use.

In Germany, inspections compliant with the (German) Emission Controls Act may be required for oil and gas-fired equipment, and the owner must arrange for these to be carried out independently of the main inspection.

The results of inspections must be recorded in writing and presented to the respective authorities on demand. There is no set form for these records.

kränzle®

High-pressure-cleaners
Nettoyeurs à haute pression
Hochdruckreiniger



I. Kränzle GmbH
Elpke 97 . 33605 Bielefeld

EC declaration of conformity
as defined by machinery directive 89/392/EEC, Annex II A
and the EC low-voltage directive 73/23 EEC
and the EC-EMC directive 89/336 EEC

Herewith we
declare that

**B 10/200, B 13/150 and
B 16/220**

complies with the following
provisions applying to it

**91/368 EEC ann. I No. 1
73/23 EEC
79/113 EEC 81/1051 EEC
89/336 EEC**

Applied
harmonized standards
in particular

**EN 292 T 1 and T 2
EN 60 204 T 1
EN 50 082-2
EN 61 000 3-2 3-3 4-12
EN 55 014
EN 55 104**

Applied national technical
standards and specifications
in particular

**DIN VDE 0700 part 265/79 3.95
DIN IEC 61 S (Co) 17
DIN IEC 801 2-6 601 1-2
DIN IEC 1000 4 2-11**

Notified body ¹⁾ within the
meaning of Annex VII

TÜV Hannover

engaged for ²⁾

- safe keeping of the file as defined by Annex VI
- verification of correct application of harmonized standards and certification of adequacy of the file as defined by Annex VI
- EC type-examination (EC type-examination certificate No. ...)

Bielefeld, 10.10.97

A handwritten signature in black ink, appearing to be 'Droitsch'. The signature is written in a cursive style.

Droitsch
(Managing Director)

