

## THIS BOOK MUST BE READ, PRIOR TO OPERATION.

## **SAFETY INSTRUCTIONS**

### FOR ASSASSIN JETTERS HIGH PRESSURE WATER JETTERS & PRESSURE CLEANERS

## 1300 855 145 www.assassinjetters.com.au

#### Introduction

These instructions should be read in conjunction with the operating instructions supplied with the equipment.

Because pressure cleaners develop extremely high pressures, severe injury may result from directing the jet at the body and from any subsequent skin penetration.



Under OH&S legislation **employers** are required to provide 'safe systems of work', which includes ensuring 'plant', which includes high pressure water jetting equipment, is used safely, for the purpose for which it was designed, and to provide adequate training and supervision. Employers must also conduct a risk assessment before operating high pressure water jetting equipment, i.e. Identify plant hazards, assess risk and implement risk controls.

NOTE: Employers should refer to relevant legislation in their State or Territory and to AS/NZS 4233.1:1999 High pressure water (hydro) jetting systems Part 1: Guidelines for safe operation and maintenance.

#### **General Precautions**

#### Personal Protective Equipment (PPE) recommended includes;

- Safety footwear rubber preferable
- Hearing protection ear muffs or plugs
- Gloves heavy duty
- Safety glasses and/or face shield
- Protective clothing
- Respirator if potentially exposed to hazardous vapours/mist



#### **Cleaning Agents**

If using detergents and alkaline cleaning materials be aware of the potential danger. Many cleaners have a corrosive action upon body tissues, especially the eyes. Even contact with dilute solutions can cause injury.

- When mixing, add the alkaline cleaners to the water gradually. Dumping a large quantity in all at once could result in an explosion
- Read the MSDS
- Prevent contact with your skin and avoid breathing the mist or dust
- Always wear your personal protective equipment, including respirators and eye protection
- Also be sure a wash station is nearby in case of a splash.

#### Never....

- allow persons to use the equipment unless trained and assessed as competent
- put your hand or fingers in front of the jet
- point the gun at your body or another person
- use the high pressure cleaner when persons or animals are within its action field
- lock the trigger gun "open"

#### Before use always....

Before commencing any high pressure water jetting operations steps should be taken to ensure that hazards likely to affect the safety of the operator or persons in the vicinity of the water jetter are eliminated or minimised.

check and follow manufacturer's specifications on maximum pressure and operating instructions



- check that the connections and hoses have the correct pressure rating
- check oil, water, hydraulic fluid and fuel levels in the drive unit and the pump unit
- check condition of guards, shields and safety interlocks
- check filters and strainers.
- Check that emergency stop devices are clearly labeled and working.
- check all throttle cables

- conduct a risk assessment (SWMS or JSA are commonly used), in consultation with the operators, and possibly develop a 'safe operating procedure' if it is a regular job, for the task to be conducted
- lock off gun
- check that the 'fail safe' trigger control is operational
- inspect equipment for damage and check that all connections are secure
- ensure there is no apparent structural damage, eg. corroded or broken wires, bulging, kinking or cuts
- check that the nozzle is clean and not damaged
- erect signs and barriers to prevent unauthorised access to the work area
- clear the work area of material or equipment that may cause a trip, slip or fall, or cause damage to hoses



- elevate or protect hoses from damage from traffic 9vehicle or pedestrian), sharp edges, etc
- check that the operator has the physical capacity to use the equipment safely
- decontaminate the work area of hazardous substances, eg. effluent, drain acids, grease
- ensure any equipment, particularly electrical, is isolated and protected from ingress of water or overspray
- agree on signals that will be used to communicate with team members during the operation of the equipment
- put on PPE

#### Before carrying out adjustment or maintenance always....

 shut off or isolate pump/engine – where there is risk that another person may activate the equipment while adjustment or maintenance is being conducted then the equipment should be physically isolated with a Danger- Do not operate tag and lock (if practicable).



- discharge contents of gun to eliminate pressure
- lock gun in OFF position.

#### Operating instructions for clearing a blocked drain with a high pressure water jetter

In addition to safety precautions on previous pages;

- Maintain a firm footing
- Hold the lance grip firmly as the high pressure causes a reaction power on the lance
- Always switch off engine and exercise care before inserting or removing the hose from the hose entry point of the pipe

**Note:** it is recommended to **attach an indicator mark approx 1.5M down** hose from nozzle so when you are pulling hose back under pressure you are aware of the nozzle location and do not pull back to far.

- 1. Always first ensure area is free from interference by public or bystanders Put up any required witches hats or barricades to keep bystanders at a safe distance.
- 2. Double check area for obstructions that may sever or damage hose as a hose blow out can be dangerous or even fatal
- 3. Prior to starting machine check over hoses for abrasions or cuts that may potentially blow out under pressure
- 4. Prior to starting machine ensure water is connected and turned on to water tank Run main hose out to point where you intend to enter into affected drain
- 5. Plug main hose into Mini reel with quick coupler & double check connection
- 6. Connect desired jetting nozzle to Mini reel hose & double check connection
- 7. Insert nozzle and hose into drain to be cleared and push in at least 1M
- 8. Ensure Mini reel ball valve is off prior to ignition
- 9. Turn throttle to full, apply choke and turn key.
- 10. Once started, remove choke and allow to warm for 30 secs prior to loading up pump to full pressure
- 11. Open ball valve on Mini reel line and it will pull itself in the direction it was inserted until it reaches blockage
- 12. Continue jetting until you are satisfied blockage is cleared
- 13. Once blockage is clear shut off Mini reel ball valve and leave hose in line
- 14. Reduce revs of motor all the way down and turn off
- 15. Open Mini reel ball valve and release pressure
- 16. It is now safe to wind up hose and disconnect main (or mini?) reel

Note: Cease operations if a malfunction occurs or another person enters the work area and is in the 'line of fire'. If there is a malfunction occurs, isolate the equipment and attach an Out of Service tag, as a minimum, and report it to your Supervisor.

#### In the event of an incident

If skin is hit by high pressure sprayed water, **contact doctor immediately** because any skin penetration can cause serious illness and permanent damage.

Even if the injury appears insignificant it may give little indication of the extent of the injury beneath the skin and the damage to deeper tissues.

If available, provide the Medical Alert Card to the doctor.

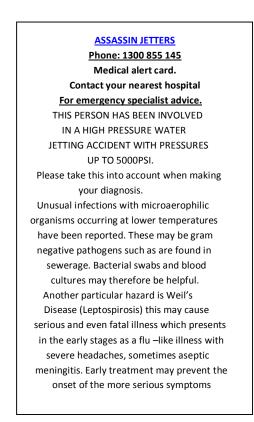
#### **Medical Alert Card**

• All operators engaged in water jetting operations should carry a waterproof medical alert card.

This card;

- Outlines the possible nature of injuries and post-accident infections that can be caused by high pressure water jetting;
- Provide details of immediate first-aid treatment until medical treatment can be arranged and

A copy of the card is provided with each Assassin unit and we can provide additional copies on request.



If you have further questions regarding the safe and effective use of you Assassin Jetters equipment, please contact us on 1300 855 145

STANDARD OPERATING PROCEDURES

# **HIGH PRESSURE CLEANERS**

## SPECIAL INSTRUCTION:

High pressure cleaning should be carried out in an area isolated from other workers, or steps taken to prevent exposure of persons to the cleaning process. Persons should not operate high pressure cleaners unless they have been instructed in the hazards and the means of safe use of the equipment. All persons using high pressure cleaners are to use personal protective equipment appropriate for the task and the equipment used.

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Tack contronce	Identified hazards in task	Key processes to be followed	Precautions / PPE required
1 Prenaration	Electric Shock	Care must be taken to ensure that electric leads are kept out of water, and	Safety switch or RCD must be used.
		preferably above ground.	-
	Skin irritation	Follow manufacture's instructions when adding cleaning agents to cleaners.	Hand protection must be worn.
	Burns, risk of fire	Exercise caution when igniting gas or oil burners on steam cleaners.	No smoking in vicinity.
2 Oneration	Foreign matter in eves	Water splash will contain cleaning agent and foreign matter from article	Wear safety goggles and/or face
2. Operation		being cleaned, which may splash back towards operator.	shield.
	Skin irritation	Overspray and splash back will result in operator's clothing becoming wet	
		with contaminated water from cleaner.	Wet weather clothing and waterproof
	Blims	Protect hands from hot water and heat from lance.	footwear required.
	Slins and falls	Keep work areas clean – remove grease and other matter from floors.	Wear PVC gloves.
	Noise	Larger units and steam cleaners may generate unsafe noise levels.	
			Wear hearing protection.
3 Ricks to other	Solashing	The distance that water will be ejected over depends on the shape and	Prevent unauthorised entry into are
	6	velocity of the water jet. Exclusion of persons other than those actually	where cleaning is being carried out.
		involved in the cleaning task should be made to prevent injury from water	
		and water-borne particles and cleaning agents.	

PRECAUSTIONS;

The following precautions should be observed when carrying out this procedure. Where applicable, suitable safety and warning signs should be displayed in areas where this procedure is carried out. -- ci



Congratulations on the purchase of your new Jetwave product. Before attempting to operate your machines, please read all of the instructions to ensure safe and trouble free service from your Jetwave cleaning machine.

#### **Component Checklist**

The following standard accessories should have accompanied your machine:-

- (1) Hose assembly;
- (2) Gun and lance assembly;
- (3) Manufacturers motor and pump assembly specifications;
- (4) Warranty card;
- (5) Detergent line with filter.

Contact your point of purchase immediately if any of the above components are missing.

#### **Pre-Operation Instructions**

- (1) Ensure that the machine is unplugged and switched off before proceeding with the following instructions.
- (2) Connect the high pressure hose to the pump outlet.
- (3) Connect water supply to the inlet water fitting on the pump. Ensure that the water supply is sufficient for the operation of the pump, if you are uncertain of the suitability of the water supply then refer to the recommended flow rate which is displayed on the data plate on the pump body.
- (4) Ensure that the water inlet supply filter is not blocked due to the presence of foreign particles in the water supply. Clean the water inlet supply filter regularly to ensure smooth operation.
- (5) Check that the oil level on the pump indicates the correct level.
- (6) Plug the machine into the power outlet, ensure that the water supply is connected and open then turn the machine on.
- (7) Gun Operation

#### (i) Read the chapter on safety precautions before proceeding to use the machine;

- (ii) Point the lance towards the object to be cleaned and depress the trigger on the gun;
- (iii) If using a twin lance, ensure that the tap handle on the lance is on the 'off' position for optimum pressure. On this high pressure operation the water should only come out of the stainless steel high pressure jet;
- (iv) To reduce pressure, or, operate on low pressure for detergent, open the low pressure handle on the twin lance. If using a single lance with a Multireg nozzle, pull back the outer cover on the nozzle.
- (8) Chemical Injection Operation
  - (i) Insert the filter end of the clear detergent hose into the container holding the cleaning detergent to be used and affix the opposite end to the chemical injector;
  - (ii) Turn the knob on the chemical injector anticlockwise to adjust the flow of the detergent;
  - (iii) To reduce pressure, or, operate on low pressure for detergent, open the low pressure handle on the twin lance. If using a single lance with a Multireg nozzle, pull back the outer cover on the nozzle.

- (9) To end operation
  - (i) Switch the machine off at the on/off switch;
  - (ii) Switch the power point off and disconnect the plug from the power point;
  - (iii) Turn the inlet water off at the tap;
  - (iv) Pull the trigger on the gun to release any backpressure;
  - (v) Disconnect both the water inlet supply hose and the water outlet high pressure hose.

#### **Important Safety Precautions**

- (1) Never direct the spray jet at any person or animal;
- (2) Never place any part of your body over the nozzles;
- (3) Never direct the spray jet towards either the machine itself or any electrical item;
- (4) After use, Pull the trigger on the gun to release any backpressure;
- (5) When not in use, ensure that the machine is switched off and is disconnected from inlet water supply;
- (6) Do not attempt any mechanical repair yourself. Should your machine require either service or repair then please contact your local Jetwave agent;
- (7) Never supply any liquid other than water to the water inlet;
- (8) Never pull on the high pressure hose if it has formed kinks or nooses;
- (9) Never drag the hose over sharp objects;
- (10) Do not attempt to disconnect either the hose or any couplings whilst there is pressure in the hose. Refer to point (4) above.
- (11) Do not operate the machine whilst on a ladder.
- (12) Never allow children to either operate or play with the machine.
- (13) The use of safety glasses is recommended when using the machine to prevent any loose particles disturbed by the high pressure spray coming into contact with your eyes.

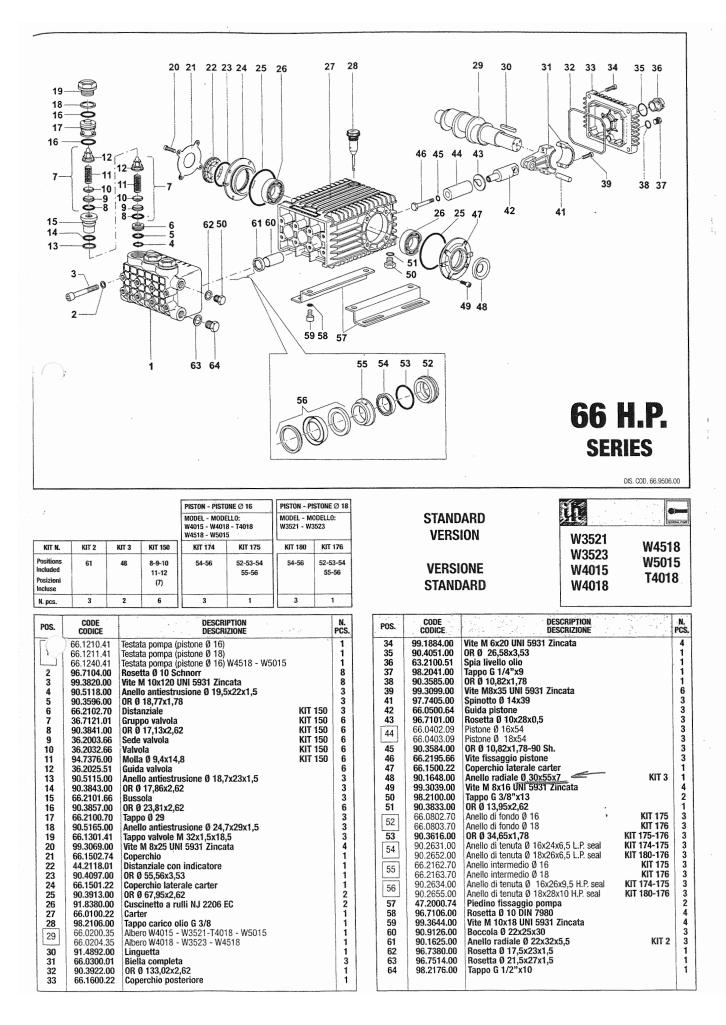
#### Tips & Hints

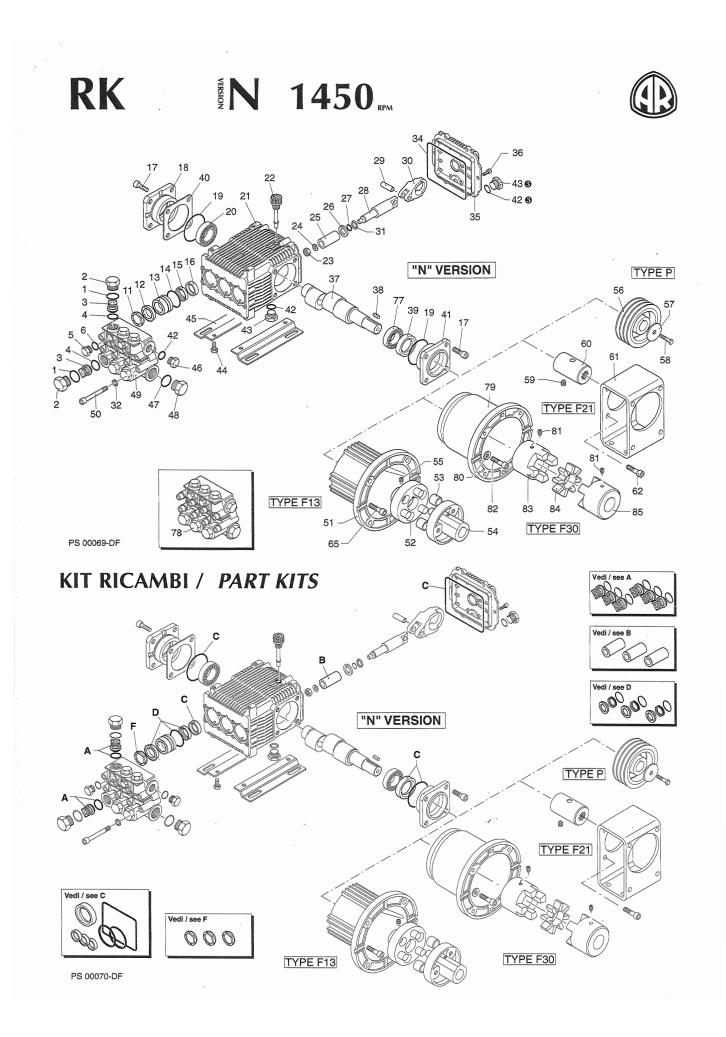
- (1) Regularly check the oil level in the pump. The oil level should be maintained at the level indicated on the pump.
- (2) Top up the oil in the pump when required using SAE 20W 50 oil. Never mix different grades of oil.
- (3) Use a good quality 13mm (inside diameter) water supply hose and connect to the water inlet on the pump using a hose clamp. Ensure that this connection is tight to avoid leaks.
- (4) Do not use any water supply hotter than  $50^{\circ}$ c as this will damage both the valves and seals in the pump.
- (5) Ensure that the tap on the water supply is fully opened before operating the machine.
- (6) After detergent use, flush the machine for a few minutes with clean water.

#### **Trouble Shooting**

<sup>6</sup> The following table is provided as a general guide only. Please refer to your local Jetwave agent for service, repairs or specific advice.

Fault	<b>Probable Cause</b>	<b>Possible Remedy</b>
Pump runs normally but pressure does not achieve rated value.	Pump is sucking air.	Check that all hoses and fittings are airtight.
	Valves are worn or dirty.	Check, clean or replace.
	Unloader valve packing worn.	Check and replace.
	Nozzle incorrect or worn.	Check and replace.
	Worn piston packing.	Check and replace.
	Dirty filter.	Check and clean.
Fluctuating pressure.	Valves dirty, worn or stuck.	Check, clean or replace.
	Pump sucking air.	Check that all hoses and fittings are airtight.
	Worn piston packing.	Check and replace.
	Dirty filter.	Check and clean.
Presence of water in oil.	High humidity in air.	Check and change oil twice as often.
	Piston packing or oil seal worn.	Check and replace.
	Water entering through breather.	Excessive water on machine.
Water dripping from pump.	Piston packing worn.	Check and replace.
	Piston guide o'rings worn.	Check and replace.
Dripping oil.	Worn oil seals.	Check and replace.
	Oil coming our of breather.	Pump oil level overfull.
Motor does not start when switched on.	Plug not well connected or unreliable power supply.	Check plug, cable & switch.
	Earth leakage overload.	Check earth leakage.
When switched on the motor hums but does not run.	Mains voltage is insufficient.	Check adequacy of mains power supply.
Motor stops suddenly during operation.	Thermal overload tripped due to overheating.	Check mains voltage for fluctuations.





Pos.	Cod.	Denominazione	Description	Q.tà	Note Vedi / <i>See</i>	Pos.	Cod. Part n°	Denominazione	Description	Q.tà <i>Q.ty</i>	Note Vedi / See
1	Part n°		•	Q.ty	Veui / See					-	10017 000
1		OR Ø 17,86x2,62	0-Ring	6		IN		Spessore 0,10 mm	0,10 mm shim	1÷3	
Ŋ	960090		Plug	6	RK	AU		Spessore 0,20 mm	0,20 mm shim	1÷3	
/		Tappo Inox	Plug	6	RK H¤≆	4		Spessore 0,25 mm	0,25 mm shim	1÷3	
6		Tappo Nikel	Plug	6	RK H	IV		Spessore 0,05 mm	0,05 mm shim	1÷3	
3		Valvola completa	Complete valve	6		41		Supp. cusc. aperto	Open bearing sup.	1	
4		OR Ø 15,54x2,62	0-Ring	6		42		OR Ø 14x1,78	0-Ring	3	8
5		Tappo 1/4"G	Plug	2	RK	43		Tappo 3/8"G Ottone	3/8"G plug	2	3
J	1380690	Tappo 1/4"G Nikel	Plug	2	RKH - H¤	44		Vite TE M 8x10	Screw	4	
6	820510	OR Ø 10,82x1,78	0-Ring	2		45	1380141		Base	2	
- 44		Anello appoggio	Support ring	3	Ø18 O <b>JON</b>	46		Tappo 3/8"G Ottone	3/8"G plug	1	RK
		Anello appoggio	Support ring	3	Ø20 ☆			Tappo 3/8"G Nikel	3/8"G plug	1	RK H - H¤
11		Anello appoggio	Support ring	3	Ø22 ★	47		OR Ø 17,5x2	0-Ring	1	
٩N		Guarnizione	Gasket	3	Ø18 O <b>JOH</b>	48		Tappo 1/2"G Ottone	Plug	1	RK
1/1	840290	Guarnizione	Gasket	3	Ø20 ☆			Tappo 1/2"G Nikel	Plug	1	RKH-H®
14	840330	Guarnizione	Gasket	3	Ø22 ★	IN		Testa pompa	Pump head	1	Ø18 RK
13	1380090	Guida pistone	Piston guide	3	Ø18 O <b>JON</b>	Ŋ		Testa pompa	Pump head	1	Ø18 RK H - H¤
	1380150	Guida pistone	Piston guide	3	Ø20 ☆	41		Testa pompa	Pump head	1	Ø20-22 RK
IV	1380160	Guida pistone	Piston guide	3	Ø22 ★	٦V		Testa pompa	Pump head	1	Ø20-22 RK H
14	961240	OR Ø 31,47x1,78	0-Ring	3		50		Vite TCEI M 8x70	Screw	8	
15	880330	Guarnizione	Gasket	3	Ø18 O <b>I O II O III</b>	51		Flangia motore el.	El. motor flange	1	B3/B14
lη	840280	Guarnizione	Gasket	3	Ø20 ☆	52	1380300	Semigiunto pompa	Pump coupling	1	
V	840340	Guarnizione	Gasket	3	Ø22 ★	53	1321670	Boccola	Bushing	6	
16		Anello tenuta	Seal	3		54	1380340	Semigiunto motore	Motor coupling	1	Ø 28 mm
17	850370	Vite TCEI M 8x16	Screw	8		55	1380180	Grano M 6x10	Grub screw	1	
18		Supp. cusc. chiuso	Closed bearing sup.	1		56	1320270	Puleggia	Pulley	1	2A Øe 120mm
19		OR Ø 59,99x2,62	0-Ring	2		hh	1380890	Puleggia	Pulley	1	3A Øe 120mm
20		Cuscinetto	Bearing	1		VV	1380900	Puleggia	Pulley	1	4A Øe 138mm
21		Corpo pompa	Pump housing	1		57	780230	Rosetta	Washer	1	
22		Tappo carico olio	Oil cap	1		58	740450	Vite TE M 6x18	Screw	. 4	
23	962010	Dado M 8	Nut	3		59	800750	Grano	Grub screw	1	
24	962000	Rosetta Ø 8,1	Washer	3		60	1380410	Giunto	Coupling	1	
۸r		Pistone in ceramica	Ceramic piston	3	Ø18 O <b>JOH</b>	61	1380420	Flangia motore	Motor flange	1	
25	1380930	Pistone in ceramica	Ceramic piston	3	Ø20 ☆	62	540290	Vite TCEI M 8x25	Screw	4	
LV	1382360	Pistone in ceramica	Ceramic piston	3	Ø22 ★	65	620610	Vite TCEI M 8x30	Screw	4	
26	1380950	Disco separatore	Spacer	3		77	840370	Cuscinetto	Bearing	1	
27	600180	OR Ø 7,66x1,78	0-Ring	3				Prem. testa pompa	Pump head assembly		Ø18 RK
28	1380920	Pistone di guida	Guiding piston	3		7		Prem. testa pompa	Pump head assembly		Ø18 RK H
29	1380060	Spinotto	Piston pin	3		N		Prem. testa pompa	Pump head assembly		Ø18 RK H=3*
30	1383050	Biella alluminio	Alluminium con-rod	3				Prem. testa pompa	Pump head assembly		Ø20 RK
JU	1383020	Biella bronzo	Bronze con-rod	3		111		Prem. testa pompa	Pump head assembly		Ø20 RK H
31	1080401	Anello	Ring	3		- 1 \ 1		Prem. testa pompa	Pump head assembly		Ø22 RK
32	1381850	Rondella	Washer	8		1 A	1389220	Prem. testa pompa	Pump head assembly		Ø22 RK H
34	1780510	OR Ø 106x3	0-Ring	1		79		) Flangia motori B3/B14	El. motor flange	1	B3/B14
35	1789010	Coperchio completo	Complete cover	1		80		Rondella Øi 8,5	Washer	1	
36		Vite TCEI M 6x14	Screw	6		81		Grano M 6x10	Grub screw	2	
A٩	2280100	Albero eccentrico	Crankshaft	1	0	82		Vite TCEI M 8x25	Screw	4	
- '11	2280080	Albero eccentrico	Crankshaft	1	O	83		) Semigiunto pompa	Pump coupling	1	
.)/	2280070	Albero eccentrico	Crankshaft	1	•*	84		) Anello elastico	Ring	1	
VI	2280060	Albero eccentrico	Crankshaft	1		85	1383090	Semigiunto motore	Motor coupling	1	
38	1380520	Linguetta	Key	1		- Alas	00	ompreso nel cod. 178	010 / Part of part nº 1	7890	0
39	180340	Anello tenuta	Seal	1					1		

#### KIT RICAMBI - PART KITS

A=KIT 2864 valvole <i>valves</i>			toni tons	B=KIT 2757 ø18 B=KIT 2758 ø20 B=KIT 2759 ø22		C=KIT 1855 tenute olio oil seals	
pos.	Q.ty	pos.	Q.ty	pos.	Q.ty	pos.	Q.ty
3 4	6 6	25	3			16 19 34	3 2 1
						39	1

tenute acqua water seals D=KIT 1857 ø 18 D=KIT 1887 ø 20 D=KIT 1888 ø 22					ppoggio rt rings	F=KIT 1829 Ø 18 F=KIT 1815 Ø 20 F=KIT 1816 Ø 22		
pos.	Q.ty	pos.	Q.ty	pos.	Q.ty	pos.	Q.ty	
12 14 15	3 3 3			11	3			

#### **LEGENDA**:

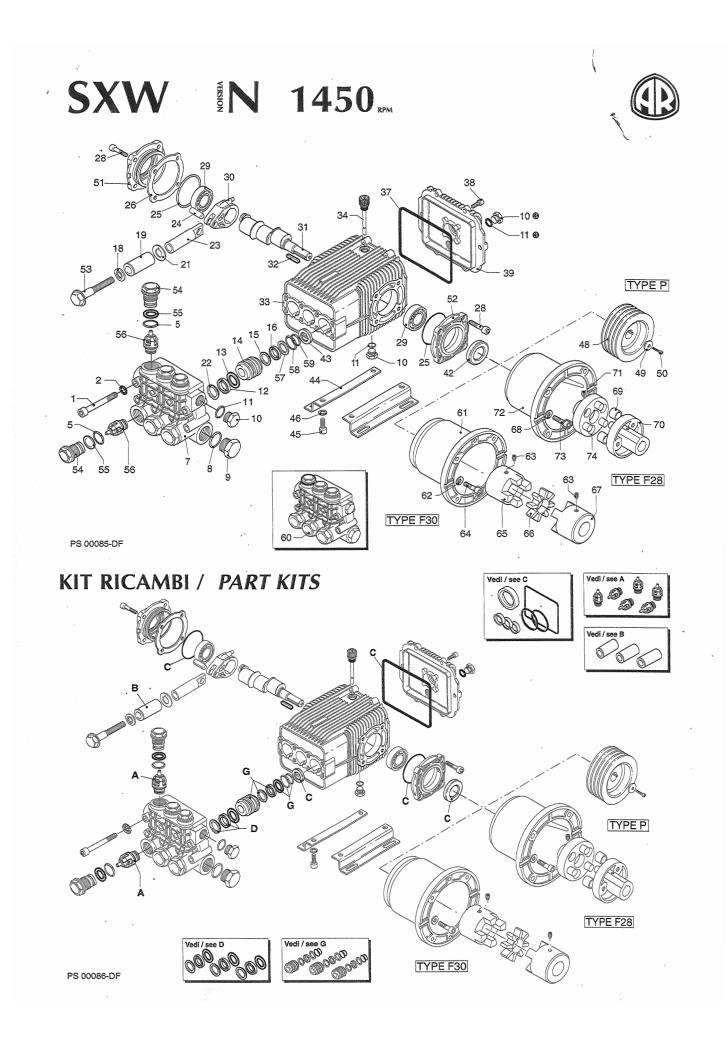
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#### Ø 20 Ø 22 Ø18 Ø18 O Per / For Per / For ☆ Per / For \* Per / For RK 11.14 RK 13.12 RK 18.12 RK 21.10 RK 13.17 RK 18.16 H RK 21.15 H RK 11.20 H

RK 11.25 H∞ Per / <i>For</i> RK 15.15	RK 13.20 H Per / For RK 14.16	I RK 18	.20 H	RK 21.20 H
RK 15.20 H. RK 15.25 H∞	<i>⇔OLTRE 250</i>	bar		
RK 15.28 H∞	OVER 3600			

#### PARTI SPECIALI IN **VITON** SPECIAL PARTS

000000	Cod.	Denominazione	Q.tà
	Part n°	Description	<i>Q.ty</i>
000000	2809	Tenute acqua / <i>Water seals</i> ø18	1
	2810	Tenute acqua / <i>Water seals</i> ø20	1
	2811	Tenute acqua / <i>Water seals</i> ø22	1



### SXW N 1450 RM

Pos.	Cod. Part n°	Denominazione	Description	Q.tà <i>Q.ty</i>	Note Vedi / <i>See</i>	Pos.	Cod. Part n°	Denominazione	Description	Q.tà Q.ty	Note Vedi / <i>See</i>
_		10. 7071 11 10.00			1007 000	50		Vite TCEI M 6x25	Carau		
1		Vite TCEI M 10x80	Screw	8		50 51	1949011	Coperchio lat. compl.	Screw Comlp. side cover	1	
2		Rosetta	Washer	8 6		52		Supporto aperto	Open bearing sup.	1	
5		OR ø 15,54x2,62	0-Ring	1 1		52	1941240		Piston-fixing screw	3	
7		Testa pompa	Pump head	1		54		Tappo valvola	Plug	6	
8		OR ø 17,5x2	0-Ring	1		54 55		Anello antiestr.	Ring	6	
9		Tappo 1/2" G	Plug	1	•	56		Valvola completa	Complete valve	6	
10 11		Tappo 3/8" G	Plug O Bing	3 3	8 8	50		Distanziale	Spacer	3	
12		OR ø 14x1,78	0-Ring	3	8	57		OR ø 34,65x1,78	0-Ring	3	
12		Guarnizione	Plug	3		50 59		Anello elastico	Snap Ring	3	
14		Anello antiestr.	Ring Distant swide	3		59 60		Prem.testa	Head pre-assembly	1	
		Guida pistone	Piston guide	3		61		Flangia motori B3/B14	El. motor flange	1	B3/B14
15		Anello appoggio	Support ring	3		62		Rondella Øi 8,5	Washer		D3/D14
16	1941340		Gasket			62 63		Grano M 6x10	Grub screw	2	
18		Rondella	Washer	3		63 64	540290		Screw	4	
19	1941020		Piston	3 3		65		Semigiunto pompa	Pump coupling	1	
21 22		Disco separatore	Spacer	3		66		Anello elastico	Ring	1	
22		Anello appoggio	Support ring	3		67		Semigiunto motore	Motor coupling	1	
23 24		Pistone di guida Spinotto	Guiding piston Con rod pin	3		68		Rondella Øi 8.5	Washer		
24		OR ø 66,34x2,62	O-Ring	2		69		Boccola	Bushing	6	
		Spessore 0,05 mm	0,05 mm shim	1		70		Semigiunto motore	Motor coupling	1	
20		Spessore 0,10 mm	0,10 mm shim	1		71		Grano M 6x10	Grub screw	2	
In		Spessore 0,19 mm	0,19 mm shim	1		72		Flangia motori B3/B14		1	B3/B14
LVI		Spessore 0,25 mm	0,25 mm shim	i		73		Vite TCEI M 8x25	Screw	4	00/014
28		Vite TCEI M 8x16	Screw	8		74	1940870		Pump coupling	1	
29		Cuscinetto	Bearing	2		, ,	13-10070	oomganto pompa	r unip ocupinig	1	
30	1940050		Conrrod	3							
		Albero eccentrico	Crank shaft	1	•						
31		Albero eccentrico	Crank shaft	1 1	0						
32		Linguetta 8x7x40	Key	1							
33		Corpo pompa	Pump housing	1							
34		Tappo olio	Plug	1							
37		OR ø 132x3	0-Ring	1							
38		Vite TCEI M 6x16	Screw	6							
39	1949010	Coperchio post. compl.	Complete cover	1							
42		Anello tenuta	Seal	1							
43	1940560	Anello tenuta	Seal	3							
44	1940370	Piede pompa	Base	2	Optional			-			
45	1940380	Vite TCEI M 10x18	Screw	4	Optional						
46	200231	Rosetta	Washer	4	Optional						
48	1940290	) Puleggia	Pulley	1	4 B		00	ompreso nel cod. 194	9010 / Part of part n°	19490	10
49	78023	D Rondella	Washer .	1		1000	1 1 10 1 10 10		CONTRACTOR ACCOUNTS OF THE PARTY	1	
	I .		1	1	1		· ·	1	l	1	· .

#### **KIT RICAMBI** PART KITS

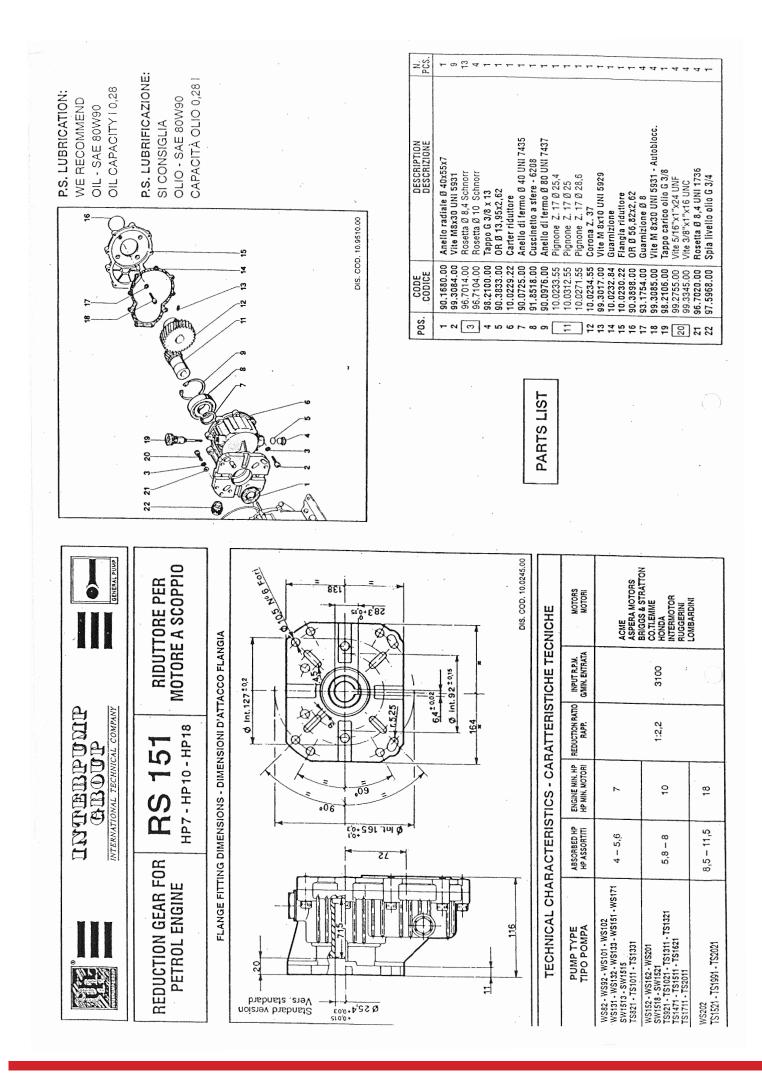
A=KIT valv <i>val</i>	ole	B=KIT 28 pist pist	oni	C=KIT tenute oil s	e olio	D=KIT 2874 ø 18 tenute acqua <i>water seals</i>	
pos.	Q.ty	pos.	Q.ty	pos.	Q.ty	pos.	Q.ty
56	6	19	3	25 37 42 43	2 1 1 3	12 13 22	3 3 3
G=KIT 2875 ø 18 guida pistoni <i>pistons guide</i>							
		pos.	Q.ty	pos.	Q.ty	pos.	Q.ty

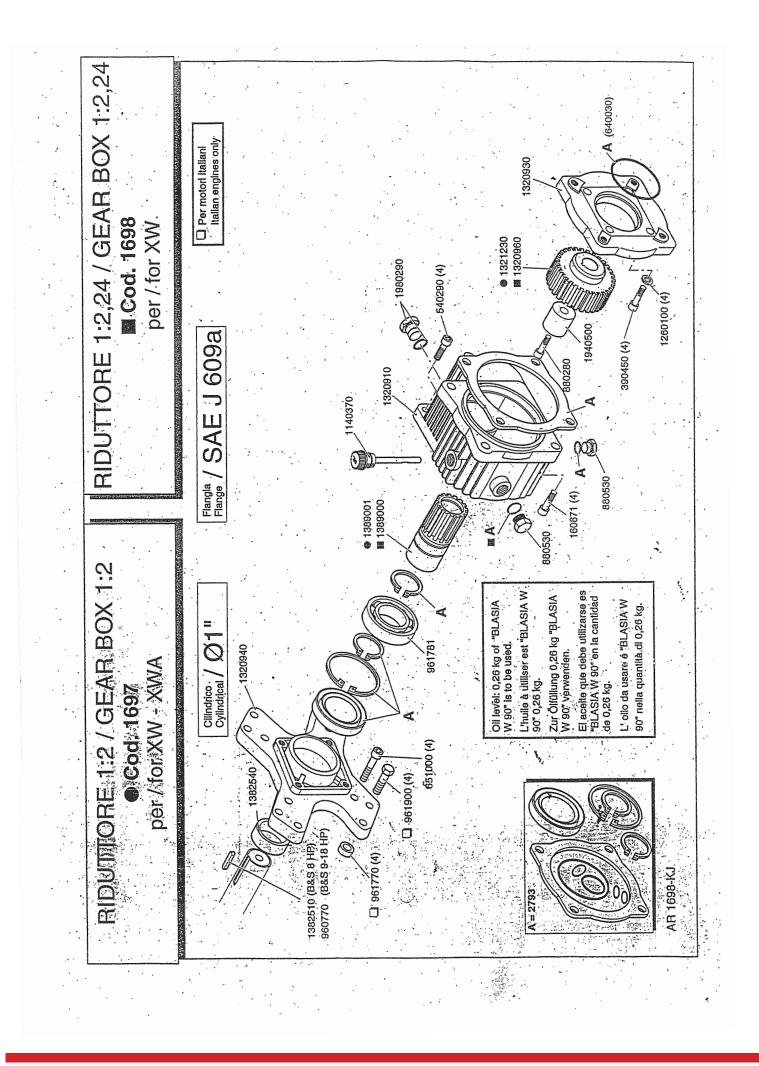
#### **LEGENDA:**

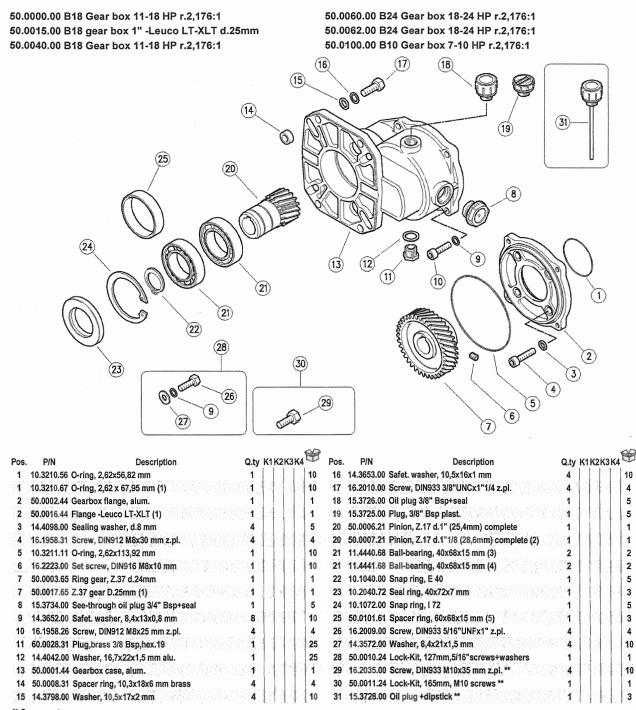
#### Ø 18 Ø 18 Per / For O Per / For

SXW 15.35

## SXW 21.35



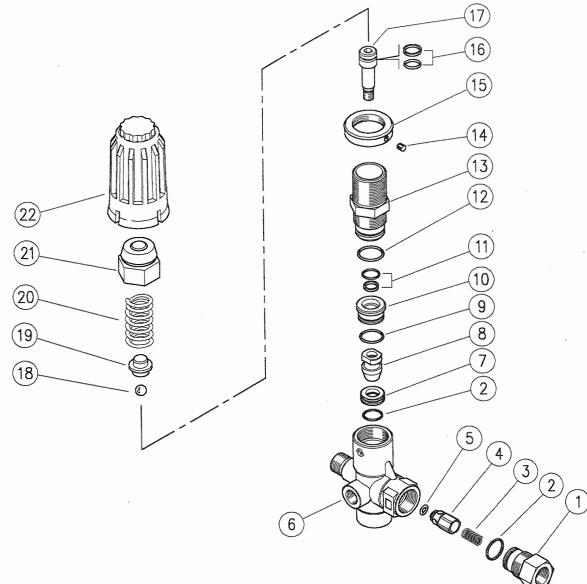




\*\* On request

(1) 50.0015.00 (2) 50.0040/60.00 (3) 50.0100.00 (1 (4) 50.0060/62.00 (5) 50.0100.00

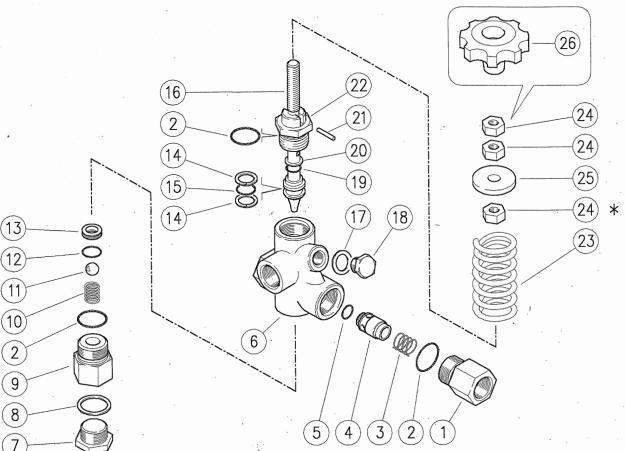
60.1600.00 VB280 valve, Bsp



Pos.	P/N	Description	Q.ty	K1 K2	К3 🗒
1	60.1811.31	3/8Bsp F nipple	1		3
2	10.3066.01	Oring 1,78 x 15.6 mm	2		25
3	60.0053.51	Spring	1		25
4	60.0052.51	Sst check valve	1		* 3-
5	10.3213.08	Oring 3x6mm	1	·	25
6	60.1725.35	VB280-350 Brass body	4	L	3
7	60.1809.51	Seat	1	· L	5
8	60.1808.51	M 8 shutter	1	ŧ ľ	3
9	10.3068.01	O ring 1,78 x 17,17 mm	1	•	25
10	60.1810.3F	Spacer	1	1	\$ S
11	60.0979.24	VB280-350 val.pist.seal repair set	1	•	5
-12	10.3072.01	O ring 1,78 x 20,35 mm	1	• •	25
13	60.0973.31	Piston housing (60.1600.00)	1		3
					4
Kit	P/N	Description			
K1	60.1615.24	VB280-350.4 spare parts kit pcs.11x1			1

Pos.	P/N	Description	Q.ty	K1 K2 K3
13	60.1805.31	Piston housing (60.1700.00)	1	3
14	16.2100.00	M 4 x 4 mm dowel	1	25
	60.1728.31		1	3
		VB280-350 val pist seal repair set		- 5
	60.1806.51		1	3
		Sst 11/32 ball		• 25
19	60.1813.31	Spring guide	1	5
			$\mathbf{A}$	1 10
		4,5x 47 mm spring (60.1700.00)	1	3
		Brass cap		1 1 1 2
		VB280 Black plast.knob (60.1600.00)	1	10
22	60.1729.84	VB350.4 red plastic knob (60:1700.00)	§ 1.,	J F J TEN

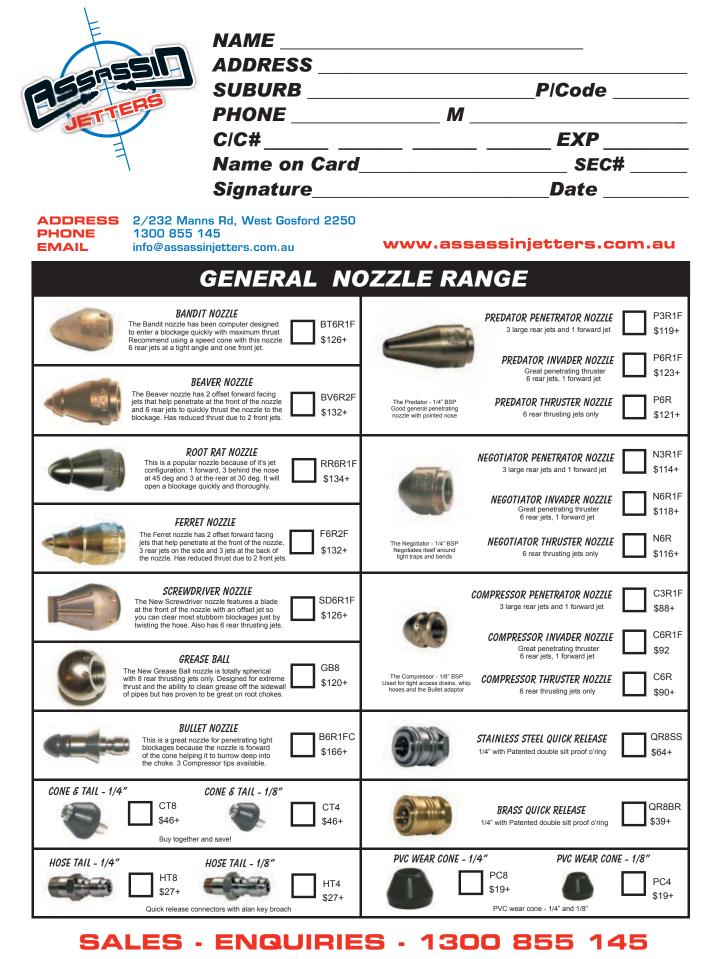
60.0400.00 VB80/150 valve, Bsp 60.0400.05 VB80/150 Npt valve 60.0400.08 VB80/150 Epdm Bsp unload.valve 60.0400.60 VB80/280 Bsp valve 60.0400.61 VB80/280 valve, Bsp, w/knob 60.0400.64 VB80/280 Bsp valve,w/ 1/4F port 60.0400.65 VB80/280 valve, Npt



Pos.	P/N	Description	Q.ty	K1	K2 K3	
1	60.0402.31	Outlet fitting	1			5
1	60.0442.31	Brass outlet connec. 1/2 Npt (60.0400.05/65)	1	10		3
2	10.3072.01	O ring 1,78 x 20,35 mm	3	•		25
2	10.3072.18	O-ring 1,78 x 20,35 mm Epdm (60.0400.08)	3		1	5
3	60.0409.51	Spring	1			10
4	60.0403.31	Check valve	in state			10
5	10.3292.00	Oring 4 x 8 mm	+ 1	•		25
5	10.3292.10	O ring 4 x 8 mm viton (60.0400.08)	1			110
6	60.0426.35	VB 80 brass body	1			3
6	60.0427.35	Brass body VB80 Npt (60.0400.05/65)	1	der .	No. of Concession, No. of Conces	3
6	60.0420.35	1/2 Bsp+ 1/4 hole body (60.0400.64)	1.		1	3
7	60.0413.31	1/2 Bsp plug				10
7	60.0444.31	1/2Npt brass plug (60.0400.05/65)	1			10
8	14.4290.00	22 x 27 mm washer	1		3	25
9	60.0405.31	Inlet fitting	A. 161		5	3
9	60.0443.31	Brass inlet connect. 1/2 Npt (60.0400.05/65)	1			3
10	60.0410.51	Sst 1,6mm spring	1			10
11	14.7461.00	13/32" ball	1	•		25
12	10.3060.01	O ring 1,78 x 12,42 mm	. 1	•	1	25
Kit	P/N	Description				B
		VB80 valve, repair kit	58 S.S.			1

Pos.	P/N	Description	Q.ty	K1	K2 K3	300
12	10.3060.18	O-ring 1,78 x 12,42 mm Epdm (60.0400.08)	ાર 👔		Pol <sup>e</sup>	5
13	60.0408.51	Seat	1-			10
14	10.4014.00	Back ring 13,5 x 18 mm	2	•		25
15	10.3178.00	O ring 2,62 x 13,1 mm	1			25
15	10.3178.18	O ring 2,62 x 13,1 mm Epdm (60.0400.08)	1		1. L.	.5
16	60.0407.51	M 10 piston	1.			10
17	14.3912.00	All.1/4" washer (60.0400.64)	1			25
18	28.0013.31	Brass 1/4 Bsp plug (60.0400.64)	- 1			25
19	10.3174.00	O ring 2,62 x 9,93 mm	1	•		25
19	10.3174.18	O ring 2,62 x 9,93 mm Epdm (60.0400.08)	1			5
20	10.4015.00	Back ring 10 x 14,5 mm	1			10
21	15.1032.00	Pin 3 x 18 mm	13	1		25
22	60.0404.31	Piston housing	. 1			3
23	60.0412.61	Blue spring	1	1		10
23	60.0411.61	White spring (60.0400.00/05)	1	1		3
24	11.4629.00	M 10 nut	3			25
.25	60.0406.31	Spring guide	. 1			10
26	12.8310.00	Handle (60.0400.61)	: 1	+	1.1	5

#### 2010 GENERAL ORDER FORM P1



#### 2010 GENERAL ORDER FORM P2



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