



AIR-ASSISTED-AIRLESS PUMP

WR-320 MIX INOX



**DECLARACION DE CONFORMIDAD “CE”
“EC” DECLARATION OF CONFORMITY**

MODELO / MODEL WR - 320 MIX INOX

Este producto cumple con la siguiente directiva de la Comunidad Europea.

This Product complies with the following European Community Directive.

Directiva 2014/34/EU Atex sobre máquinas. (Ex II 2G c T6 X)

Machinery Directive 2014/34/EU Atex Directive. (Ex II 2G c T6 X)

APROBADO POR /

APPROVED BY

AITOR ORTIZ

FECHA / DATE

MBP, S.L. figura inscrita en el Registro Industrial del País Vasco con el N° 01/8030 y cumple los requisitos para el desarrollo de su actividad comercial.

MBP, S.L. is registered in the Industrial Register of the Basque Country with the N° 01/8030.

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TECHNICAL DETAILS

- * PUMP RATIO: 32:1
- * DELIVERY RATE: 27ccm.
- * MAX. DELIVERY: 4 l/min.
- * AIR MOTOR DIAMETER: 85mm.
- * AIR PRESSURE RANGE: 2-8 bar
- * AIR CONSUMPTION: 50-210 l/min.
- * MAX. FLUID PRESSURE: 256 bar



WARNING

Attention !! Read and understand all instructions carefully before operating equipment.

INJECTION HAZARD

This equipment generates very high fluid pressure. Spray from the gun, leaks or ruptured components can inject fluid through your skin and into your body and cause serious bodily injury.

The spray gun should never be handled carelessly, nor spray directed toward any part of the body. Keep your hands fingers away from spray gun nozzle.

Be sure equipment safety devices are operating properly before each use.

If any fluid appears to penetrate your skin, get emergency medical care at once. Do not treat as a simple cut. Tell the doctor exactly what fluid was injected.

FIRE HAZARD

Static electricity is created by the high velocity flow of fluid through the pump and hose. If every part of spray equipment is not properly grounded, sparking immediately. Check the entire system for positive grounding.

GROUNDING

Before starting to work the pump must be connected to ground:

- 1.- The pump must be connected to ground with a ground wire which is supplied with the pump (4mm² of section and a clamp). See connection on page 9.
- 2.- **SPRAY GUN:** obtain grounding through connection to a properly grounded fluid hose and pump.
- 3.- **OBJECT BEING SPRAYED:** use ground wire and clamp.
- 4.- **AIR COMPRESSOR:** follow air compressor manufacturer's recommendations.
- 5.- Use only metal pails, which are conductive. Do not place the pail on a nonconductive surface, such as paper or cardboard, which interrupts the grounding continuity.



PRESSURE RELIEF PROCEDURE

- 1.- Engage the gun safety latch.
- 2.- Shut off the air to the pump.
- 3.- Close the air inlet valve.
- 4.- Disengage the gun safety latch.
- 5.- Hold a metal part of the gun firmly to the side of a grounded metal pail, and trigger the gun safety latch.
- 6.- Engage the gun safety latch.
- 7.- Open the drain valve, having a grounded metal container ready to catch the drainage.
- 8.- Leave the drain valve open until you are ready to spray again.

HOSE SAFETY

Tighten all fluid connections securely before each use. Never use a damage hose. Before each use, check entire hose for cuts, leaks, abrasions, building cover, or damage or movement of the hose couplings. If any of these conditions exist, replace the hose immediately.

SPRAY GUN

It is recommended strain the fluid you are spraying if the contains particles which could clog the spray tip.

Cleaning the spray tip

Clean off the front of the tip frequently during the day's operation and at the end of the work day. Always follow the Pressure Relief Procedure. Then use a solvent soaked brush to clean the spray tip and to keep fluid buildup from drying and clogging the spray tip.

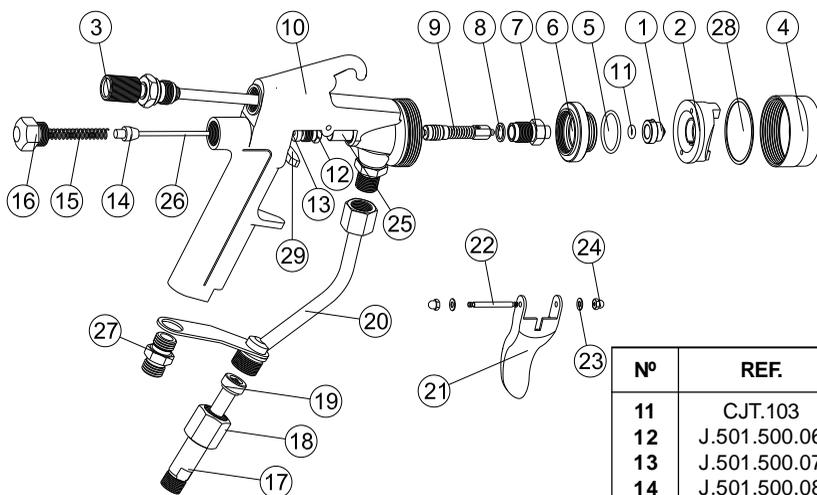
If the spray tip clogs while spraying, release the spray gun trigger, engage the trigger safety, shut off the pump, and follow the Pressure Relief Procedure. Remove the spray tip and blow out the obstructions with air from the front of the spray tip.

Normal daily flushing of your spray system and gun flushes away most buildup on the filter. However, you should remove the filter frequently and clean it.

Flushinf the gun.

Relieve pressure, remove the spray tip and then flush the gun and spray with a compatible solvent. Always flush the gun before the fluid being sprayed can dry in it.

AIR-ASSISTED-AIRLESS GUN J.1000



N°	REF.	DESCRIPTION
1	93.XXXX	NOZZLE
2	J.501.560.00	AIR CAP
3	J.501.520.00	FAN REGULATOR
4	J.501.500.01	NUT
5	CJT.101	O-RING
6	J.501.500.16	AIR DIFUSOR
7	1000.200.00	NEEDLE SEAT
8	1000.000.02	JOINT
9	1000.530.00	NEEDLE COMPLETE
10	1000.110.00	BODY

N°	REF.	DESCRIPTION
11	CJT.103	JOINT
12	J.501.500.06	PACKING NUT
13	J.501.500.07	PACKING
14	J.501.500.08	VALVE AIR
15	J.501.500.09	SPRING
16	J.501.500.10	PLUG
17	J.501.500.12A	BODY FILTER
18	J.501.500.12B	NUT
19	J.300.XXX	FILTER
20	J.501.550.00	PRODUCT TUBE
21	1000.500.14	TRIGGER
22	J.501.500.15	TRIGGER PIN
23	J.200.07	WASHER
24	CTU.011	NUT
25	1000.000.01	HEAD VALVE ROD
26	J.501.500.17	ROD VALVE AIR
27	K.100.16	RACORD
28	K.100.17	JOINT
29	J.501.511.00	SAFETY LATCH

OPERATING INSTRUCTIONS

Follow all instructions above, be sure that fittings at pump outlet and at gun are tight.

Use two wrench to tighten the maing fitting. Do not install the spray tip at this time.

Put the suction tube into the paint container. Flush the pump with a compatible solvent before using it.



MAINTENANCE (Cleaning)

It is recommended that at the end of each day, paint should be flushed from unit with compatible solvent then reflused with mineral spirits.

- 1.- Engage the gun safety and follow the Pressure Relief Procedure.
- 2.- Remove the spray tip and clean with a compatible solvent and soft brush.
- 3.- Disengage the gun safety and follow the pressure relief procedure. Lift suction pipe above paint level until pipe is empty. Introducing the suction pipe in a pail with compatible solvent. Disengage gun safety and trigger gun into the paint pail until it runs clear. Close the air inlet valve
- 4.- Open the fluid drain valve. Remove the fluid filter and the gun filter and clean them with solvent.
- 5.- Flush the sprayer at the end of each work day and fill it with solvent to help prevent pump corrosion.

SPRAY TIPS

When a tip is the wrong size, or becomes the wrong size through wear, the spray pattern worsens, coverage decreases, you have less control over the desired rate of coverage, and it takes longer to finish the job. In the worst case, the pump supplying the tip can be damaged. Because most architectural coating are abrasive, tip wear can happened quite quickly. Notice as wear increases the orifice size, it decreases the fan width which greatly affects coverage rates.

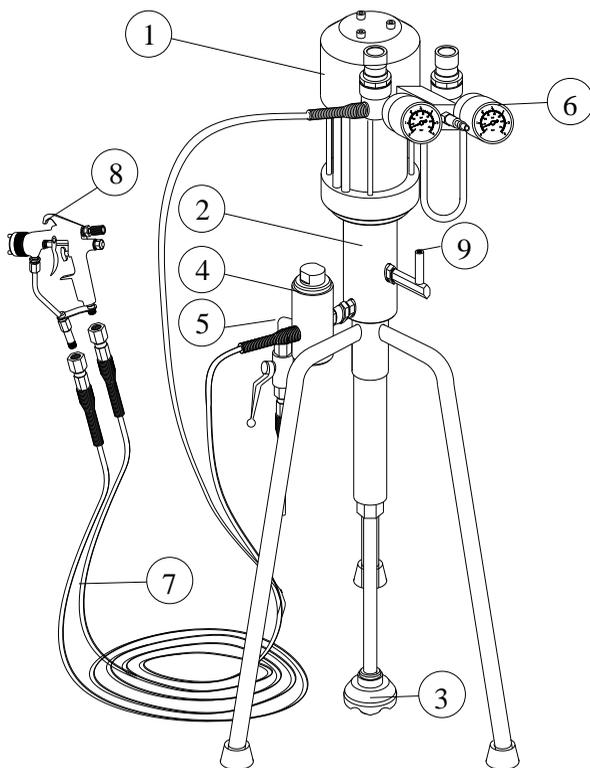
If tip shows excessive wear, replace it to maximize productivity and save paint.



TROUBLESHOOTING GUIDE

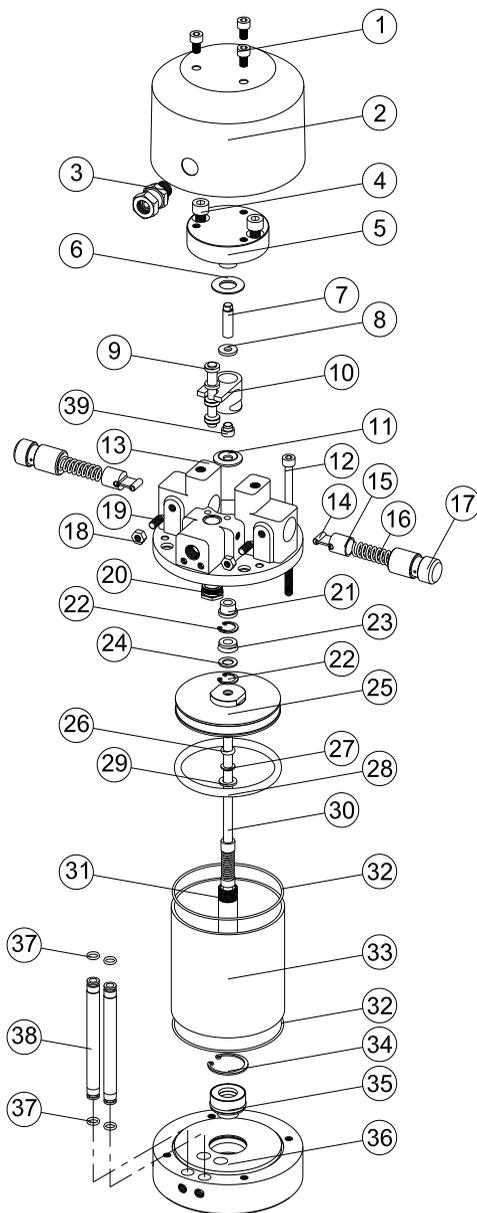
For trouble free operation is absolutely essential that your sprayer be kept clean and free of residual paint build-up on the internal parts.
It must be cleaned and lubricated after each use.

PROBLEM	POSSIBLE CAUSE	SOLUTION
Pump fails to operate.	• Restricted line or inadequate air supply.	• Clear, increase air.
	• Insufficient air pressure, closed or clogged air valves.	• Open clean.
	• Exhausted fluid supply.	• Refill; purge all air from pump and fluid lines.
	• Obstructed fluid hose, gun or dispensing valve.	• Clear.
	• Clogged spray tip or filters.	• Clear or replace.
Pump operates but output low on down stroke.	• Clogged filters.	• Clear or replace.
	• Exhausted fluid supply	• Refill and prime.
	• Obstructed fluid hose or gun.	• Clear.
	• Worn spray tip.	• Replace.
	• Held open or worn intake valve.	• Clear.
	• Hed open or worn fluid piston or packings.	• Clear or replace.
Erratic or accelerated operating.	• Exhausted fluid supply.	• Refill and prime.
	• Check valves need adjustment.	• Adjust.
	• Held open or worn intake valve.	• Clear.
	• Hed open or worn fluid piston or packings.	• Clear or replace.



1	AIR MOTOR	080.100.00
2	DISPLACEMENT PUM	080.200.00X
3	SUCTION FILTER	080.500.00
4	HP FILTER	080.300.00X
5	DRAIN VALVE	G.110.00
6	AIR REGULATOR	F.601.00
7	HOSE	20.40.05
8	GUN	J.1.000
9	LUBRICANT INLET	080.210.00

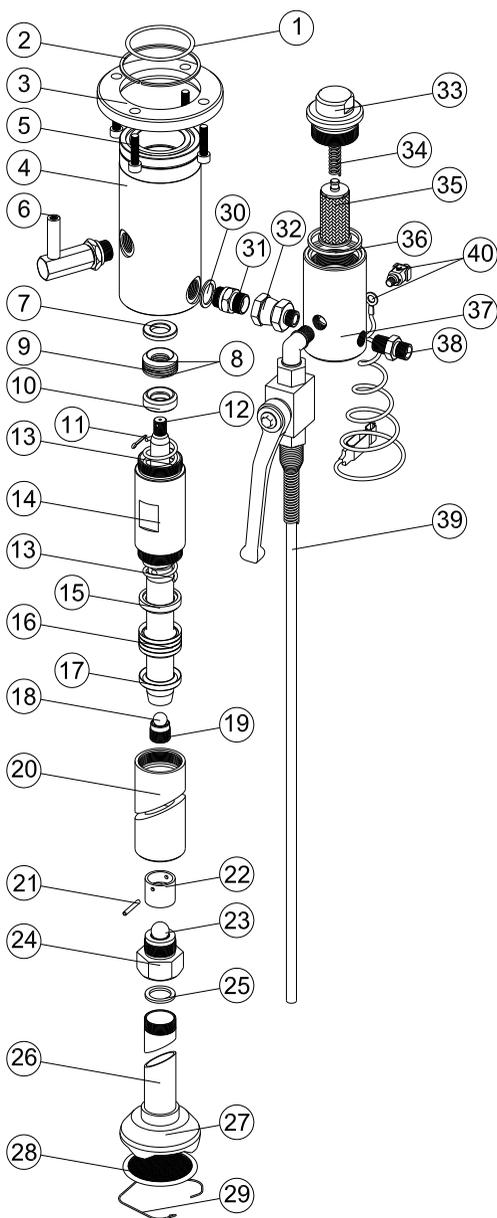
080.100.00



Nº	REF.	DESCRIPTION	Q
1	CTB.002	SCREW	3
2	080.100.01	COVER	1
3	CNA.116	RACORD	1
4	CTB.012	SCREW	2
5	080.120.00	COVER	1
6	080.100.05	SNUBBER	1
7	080.170.05	GUIDE	1
8	180.100.08	WASHER	1
*9	080.150.00	AIR DISPENSER	1
10	080.100.07	HOUSING	1
11	080.100.04	SNUBBER	1
12	CTB.030	SCREW	4
13	080.110.00	MOTOR BODY	1
14	080.140.00	SPRING SUPPORT	2
15	080.100.09	SPRING BUTT END	2
16	080.100.11	SPRING	2
17	080.100.10	SUPPORT	2
18	CTU.002	NUT	2
19	CTG.009	SCREW	2
20	080.130.00	PLUG	1
21	080.100.02	BUSHING	1
22	CAR.112	RETAINER	2
*23	CAB.005	RING	1
24	080.100.03	SEAL	1
25	080.170.01	PISTON	1
26	CJT.022	JOINT	1
27	080.170.02	SEAL	1
*28	CJT.023	JOINT	1
29	080.170.03	WASHER	1
30	080.171.00	ROD	1
31	080.170.04	ROD	1
32	CJT.024	JOINT	2
33	080.100.13	CYLINDER	1
34	CAR.118	RETAINER	1
*35	080.800.00	KEEPING BACK	1
36	080.100.12	MOTOR BASE	1
37	CJT.025	JOINT	4
38	080.100.14	PIPE	2
39	080.100.06	RING	1

* Included in KIT.055

MBP DISPLACEMENT PUMP



N°	REF	DESCRIPTION	Q
1	CJT.026	JOINT	1
2	CAR.111	RETAINER	1
3	080.200.03	BRIDLE	1
4	080.200.01	BODY	1
5	CTB.013	SCREW	4
6	080.210.00	OIL TUBE	1
*7	080.200.04X	FEMALE GLAND	1
*8	B.131.02	PACKING CYLINDER	4
*9	B.930.04	PACKING CYLINDER	1
*10	080.200.06X	MALE GLAND	1
11	CPA.109	PIN	1
12	080.200.16	ROD	1
13	080.200.07	SPRING	2
14	080.200.08X	CYLINDER	1
*15	080.200.12X	MALE GLAND	1
*16	080.200.13	PACKING PISTON	4
*17	080.200.15X	FEMALE GLAND	1
18	CBO.110	BALL	1
19	080.230.00	PISTON VALVE	1
20	080.200.09X	HOUSING	1
21	080.200.11	PIN	1
22	080.200.10	BALL GUIDE	1
23	CBO.111	BALL	1
24	080.220.00X	INLET VALVE	1
25	080.200.19	JOINT	1
26	080.200.18	SUCTION PIPE	1
27	080.500.01	FILTER BODY	1
28	D.132.00	FILER	1
29	D.130.02	SPRING	1
30	CAR.015	WASHER	1
31	080.240.00X	RACORD	1
32	080.910.00	RACORD	1
33	080.300.01X	COVER	1
34	080.300.04	SPRING	1
35	080.310.00	FILTER	1
36	080.300.02	JOINT	1
37	080.300.03X	FILTER BODY	1
38	G100.06X	RACORD	1
39	G110.00	DRAIN VALVE	1
40	TIEGR	GROUND	1

* Included in KIT.024X

NOTE: Fix parts 12 and 19 with loctite 542 or similar (wait 1 hour before start running the unit)

WARRANTY

M.B.P., will any repairs necessary during the first 12 months after purchase of a new unit, with the exceptions shown under 1 and 2 below, and under the conditions shown in item 3.

- 1.- Damage caused by external abuse, customer negligence, or failure to operate the unit in accordance with the instructions supplied with the unit.
- 2.- Normal maintenance items.
- 3.- Within the first 12 months after purchase, M.B.P. will pay 100% of the cost of covered repairs.

In no case will M.B.P. liability extend beyond repair or replacement of the equipment. Such liability is limited to the amount of the original purchase price paid for the unit, minus a reasonable deduction for the time the unit has been in service. It is the responsibility of the purchaser under this warranty to ship or deliver the failed paint sprayer to the authorized service center at the purchaser's expense. Parts or components covered under this warranty may either be repaired or replaced at M.B.P. option.

Equipment not covered by M.B.P. warranty. Accessories or components of equipment sold by M.B.P. that are not manufactured by M.B.P. are subject to the warranty, if any, of their manufacturer. M.B.P. will provide purchaser with reasonable assistance in making such claims.

The Industry Department of The Basque Government, states that all electric and pneumatic airless equipment manufacture by M.B.P. S.L., follows the "CE" standards under the number 83/392/CEE.



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