



Mini-Spray Instruction Manual model: MSP MSA



Airofog 16oz. Mini Sprayer model MSA and MSP referred to in this document are designed for use by qualified and experienced personnel. Please read this instruction thoroughly before usage.

Safety Instruction

- Keep out of reach of children.
- Before usage, check condition and proper function of the sprayer.
- Only pumping up and using sprayer in upright or vertically hanging position.
- Do not leave sprayer filled with pesticide in the sun.
- Note the wind direction, do not spray against wind and prevent droplets from drifting onto areas which must not be treated.
- Never spray into electric outlets or cable boxes.
- When using the metal extension close to electric outlets, pay attention to avoid the shock hazard.
- Do not spray on a person or pet.
- Do not operate the sprayer if there are visible symptoms of a problem.
- Wear personal protective equipment when handling dangerous substances.
- Application of insecticides should follow recommendations of manufacturers and be in compliance with local regulations controlling the application of pesticides. We are not liable for consequence of improper applications.
- When unscrewing, never point the lance at others or yourselves.
- Never blow through clogged nozzles or valves with the mouth.
- Before repair and maintenance, drain the sprayer and release all pressure.
- Always replace damaged or malfunctioning parts immediately.

A Cautions:

It is the operator's responsibility to ensure the safe use of sprayer and he/she is fully compliant with national or local regulations governing compression sprayer and application of pesticide.

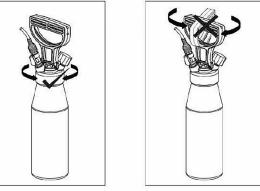
AIROFOG USA is not liable for damages that has occurred due to improper use/repair/maintenance, the use of non-recommended/unoriginal parts, and acceptance of damaged/broken sprayers for any reason.



Operation

A) Opening/Closing bottle and filling insecticides:

- To open the bottle, holding the bottle cap then turning it counter clockwise.
- Follow insecticide's label instruction and fill the well mixed water or oil based insecticide into bottle. Avoid powder or any particle in the insecticide to prevent nozzle clogged.
- To close the bottle, holding and turning the bottle cap clockwise till tightening. <u>Never open or close the bottle by turning the handle as this may damage</u> <u>the handle seriously.</u>



B) Pressurizing the sprayer:

- pressing down then $\frac{1}{4}$ turning the pump handle to unlock the pump handle
- pump plunger up and down until the required pressure is reached
- lock the pump handle
- C) Application rates of multi-nozzle (measured with water, at 2.8 bar, 40 psi):

in tan	1.20Z, /min., 80
coarse fan	2.6oz, /min " 80 °
pin stream	1.1 oz, /min., 25 FEET

crack & crevice extension straw------ 1.7oz, /min.

Application rates of aerosol nozzle (measured with water, at 4 bar,60 psi): fine, white------ 2 oz, /min. 15-30 MICRONS medium, blue------ 3 oz, /min. 30-50 MICRONS coase, red------ 4.4oz, /min. 50-70 MICRONS crack & crevice tip ------ 3.8oz, /min.

Repair and Spare Part

- do not modify the sprayer, this may cause a risk of harm and may damage the sprayer
- if any part shows signs of damage or wear, replace it immediately
- always use original spare parts for repair or maintenance



Care and Maintenance

A) After using:

- empty the bottle and drain the hose and lance after each use
- carefully inspect all gaskets and hoses as well as all other fittings of wear and tear.replace when necessary.
- B) Cleaning the sprayer
- · rinse the bottle thoroughly with water
- add water and detergent into the bottle
- attach pump cap and tighten it
- shake to clean the bottle
- · pressurize the bottle
- flush the hose and nozzle
- · empty the bottle and refill with clean water
- flush the hose and trigger valve once more
- · empty the remaining water
- the sprayer should be cleaned thoroughly at least once a week

C) Cleaning clogged nozzle and crack & crevice tip

- · do not insert metal objects into the tip orifices
- · clean with a soft bristle brush such as a tooth-brush to free clogs
- cleaning detergents or solvents can be used to soak the tip (do not use ammonia - it can corrode brass)
- do not insert metal object into the tip which will be greatly damaged to the point of not functioning at all
- run warm water over and into the crack & crevice tip
- soak the nozzle and extension straw in warm, soapy water
- blow compressed air through back of nozzle and crack & crevice tip

D) Maintenance of pump and trigger valve

- piston o-ring (8) should be GREASED from time to time
- check valve at the bottom of the pump cylinder prevents liquid from entering the pump, if liquid leaks into the pump, the valve should be inspected or replaced
- if liquid leaks out of the trigger valve or any connection, the valve seal/gasket or the connection should be inspected or replaced



Specification

	Mini-Spray Aerosol (MSA)	Mini-Spray Plus (MSP)		
Bottle	stainless steel AISI 304, 1/5 Gal.			
Working Capacity	1/8 Gal./ 16oz.			
Max. Working Pressure	116 PSI / 8 bar			
Pump Cylinder	stainless steel AISI 304, with Viton [™] check-valve			
Spray Hose	heavy duty coiled			
Pressure Gauge	0-10 bar, 0-150 psi			
Pressure Release Valve	supplied as standard			
Discharge Valve	brass, wand-like trigger	brass, drip-free trigger valve		
	with Flexi-pro aerosol	with multi-nozzle		
	delivery system (FADS)	and C&C straw		
Carry Pouch	supplied as standard			
Total Height (bottle with handle)	13.3in, 34 cm			
Net Weight	0.9 kg/ 2lb	1.2 kg/ 2.6lb		

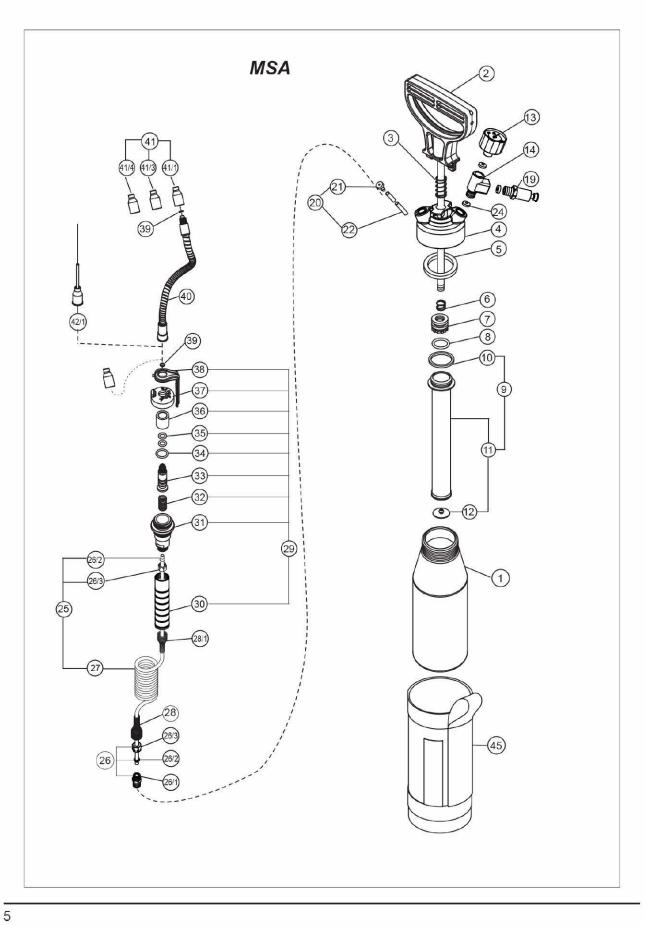
× Specifications are subject to change without notice or obligation.

Trademarks appearing within are the property of Airofog Machinery Co., Ltd. or Airofog Germany Other trademarks are the property of their respective owners.

Incuded with Every MIni Sprayer

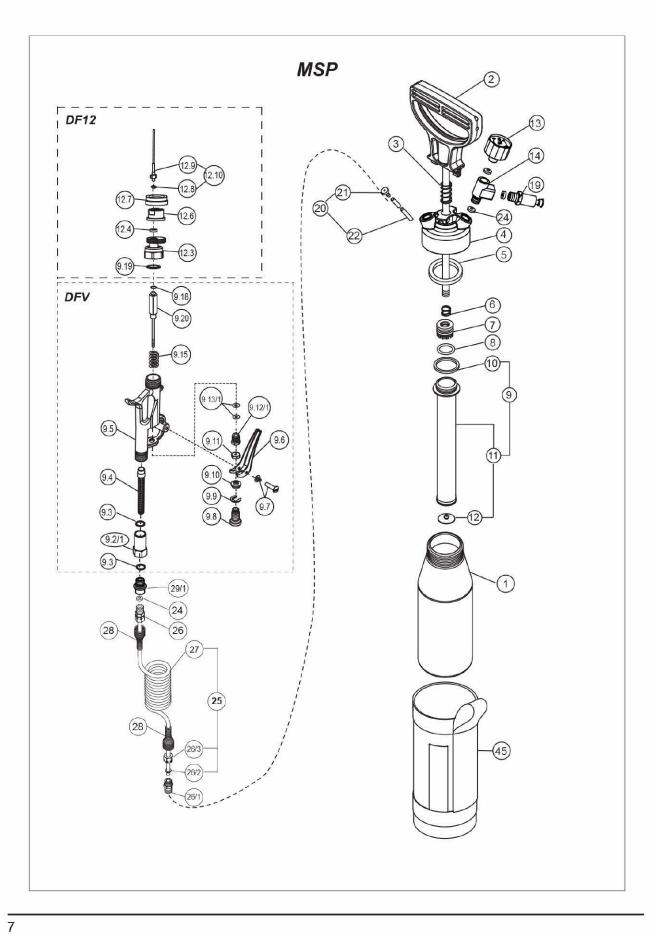
- C&C Tip- Screw in for MSP- SS Areosol for MSA

- -Carry Pouch with Belt Loop Strap
- -Pump Cylinder Repair Kit
- Valve Repair Kit (MSP), Actuator Repair Kit (MSA)
- 6" Flexi Valve Ext (MSA)





	MSA Spare Part List							
Pos.	Part. No.	Description	Pos.	Part. No.	Description			
1	603-001-000	Bottle	26/2	601-004-012	Compression Ring			
2	605-002-000	Piston Rod	26/3	601-004-013	Retaining Nut			
3	604-003-000	Spring	27	601-004-1 30	Coiled Hose, Blue "KIT ONLY			
4	605-004-000	Bottle Cap	28	601-004-040	Hose Protective Spring			
5	605-005-000	Gasket, Viton	28/1	603-004-040	Hose Protective Spring			
6	505-001-020	Spring	29	601-007-000	Flexi-Valve Assembly			
7	605-007-000	Piston	30	601-007-010	Valve Handle			
8	605-008-000	O-Ring	31	601-007-020	Valve Body			
9	605-009-000	Pump Cylinder Assembly	32	505-003-014	Spring			
10	605-010-000	Gasket	33	601-007-040	Seat			
11	605-011-000	Cylinder Tube	34	601-007-060	AEROSOL VLV ASSM GASKE			
12	604-012-000	Check Valve	35	935-041-000	O-Ring, Viton			
13	604-013-000	Pressure Gauge	36	601-007-070	Seat Sleeve			
14	510-003-030	T-Connector	37	601-007-080	Valve Cup			
19	604-019-000	Pressure Release Valve	38	601-007-090	Trigger			
20	603-020-000	Supply Tube Assembly	39	601-007-100	O-Ring, Viton			
21	604-021-000	Tube Adapter	40	601-008-010	Extension ,Spiral Wand			
22	603-022-000	Supply Tube	41	601-009-000	Aerosol Nozzle Set			
24	505-002-020	Gasket	41/1	601-009-030	Nozzle fine, White (optional)			
	605-035-000	Cap/Pump Service Kit	41/3	601-009-050	Nozzle medium, Blue			
		consisting 5,8, 10, 12,20,24x3	41/4	601-009-070	Nozzle coarse, Red (optional)			
25		COIL Hose Replacement Kit 2x2,26/3x2,27	42/1	604-01 0-012	Extension, 12cm			
	consisting 26			601-023-200	Valve Service Kit			
26	601-004-010	Hose Adapter Assembly			consisting 34,35x2,39x3			
26/1		COIL HOSE Adapter	45	605-020-010	Carrying Pouch, Airofog			





2	MSP Spare Part List					
Pos.	Part No.	Description	Pos.	Part No.	Description	
1	603-001-000	Bottle	DFV	500-009-000	DF Valve Assembly	
2	605-002-000	Piston Rod	DF9.2/1	501-009-020	Housing strainer	
3	604-003-000	Spring	DF9.3	500-009-030	Gasket	
4	605-004-000	Bottle Cap	DF9.4	500-009-040	Strainer	
5	605-005-000	Gasket, Viton	DF9.5	500-009-050	Valve Body	
6	505-001-020	Spring	DF9.6	500-009-060	Trigger	
7	605-007-000	Piston	DF9.7	500-009-070	Trigger Screw	
8	605-008-000	O-Ring	DF9.8	500-009-080	Safety Lock Nut	
9	605-009-000	Pump Cylinder Assembly	DF9.9	500-009-090	Snap Ring	
10	605-010-000	Gasket	DF9.10	500-009-100	Adjusting Screw	
11	605-011-000	Cylinder Tube	DF9.11	500-009-110	Lock Nut	
12	604-012-000	Check Valve	DF9.12/1	500-009-121	Sealing Nut	
13	604-013-000	Pressure Gauge	DF9.13/1	500-009-131	O-Ring, Viton	
14	510-003-030	T-Connector	DF9.15	500-009-150	Seat Spring	
19	604-019-000	Pressure Release Valve	DF9.18	500-009-180	O-Ring, Viton	
20	603-020-000	Supply Tube Assembly	DF9.20	500-009-200	Long Seat Stem	
21	604-021-000	Tube Adapter	DF12	500-012-000	Multi-Nozzle Assembly	
22	603-022-000	Supply Tube	DF9.19	505-009-150	Gasket	
24	505-002-020	Gasket	DF12.3	500-012-030	Multi-Nozzle Holder	
	605-035-000	1 1	DF12.4	500-012-040	Gasket	
		consisting 5,8,10,12,20,24x3	DF12.6	500-012-060	Multi-Nozzle	
25	604-025-100	Hose Replacement Kit	Hose Replacement Kit	DF12.7	500-012-070	Retainer
20		consisting 26/2x2,26/3x2,27	DF12.8	935-018-000	O-Ring, Viton	
26	601-004-010	Hose Adapter Assembly	DF12.9	505-012-090	Crack & Crevice Straw	
26/1	601-004-011	Adapter	DF12.10	505-012-100	Straw with O-Ring	
26/2	601-004-012	Cutting Ring		604-036-000	DF Service Kit	
26/3	601-004-013	Retaining Nut	1		(consisting 24,DF9.3, 9.13/1	
27	601-004-130	Coiled Hose	1		9.18, 9.19x2, 12.4, 12.8)	
28	601-004-040	Hose Protective Spring	45	605-020-010	Carrying Pouch, Airofog	
29	604-029-010	Female Adapter				

AIROFOG USA 15074 Aviation Loop Drive Brooksville, FL 34604 USA Tel: +1-352-593-5152 www.airofogusa.com