Purasolve EverSafe

OPERATORS MANUAL
EVERSAFE 750

purasolve
SAFETY SOLVENTS

A safer and smarter alternative to traditional aerosols

Purasolve EverSafe is a convenient, cost effective and environmentally friendly alternative to aerosol sprays. Purasolve EverSafe makes using products from bulk containers safe and easy.

- Cost effective alternative to aerosols
- Save money with bulk chemicals
- Easy to use sprayers
- Two convenient sizes available
- Pressurised with air
- No harmful propellants
- Quick and easy to re-fill
- Reduce empty aerosol can wastage

envirofluid
FOR A BETTER WORLD

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Purasolve EverSafe

OPERATORS MANUAL

Directions for operating EverSafe 750 Sprayers

1) **ALWAYS DEPRESSURISE EVERSAFE BEFORE REMOVING ANY PARTS.** You can depressurise the EverSafe 750 in one of the two following ways:
    a) Invert the EverSafe sprayer and depress the trigger until all air escapes. If some product remains in the sprayer when you conduct this procedure be sure to aim the nozzle in a safe direction as some liquid may be ejected.
    b) Remove ES75-122 black cap from air filler and use a probe to depress ES75-121 valve core. The pressure will escape. NOTE: Make sure the sprayer is upright and the air filler stem is pointing away from you (and in a safe direction) when condusting this procedure.
    c) Once depressurised remove the complete top assembly from the canister. Do this by grasping the EverSafe handle assembly in one hand and the canister in the other while unscrewing counterclockwise.
2) Fill sprayer 2/3 full (750ml maximum liquid capacity) with approved Envirofluid products only. Make sure the liquid is CLEAN and FREE OF FOREIGN PARTICLES. See ACCESSORIES on page 4 for liquid filling/measuring device.

IMPORTANT

ALWAYS CHECK WITH AN ENVIROFLUID REPRESENTATIVE OR THE WEBSITE IF YOU ARE NOT SURE OF PRODUCT COMPATIBILITY.

READ CAUTION LABEL ON SPRAYER BEFORE FILLING.

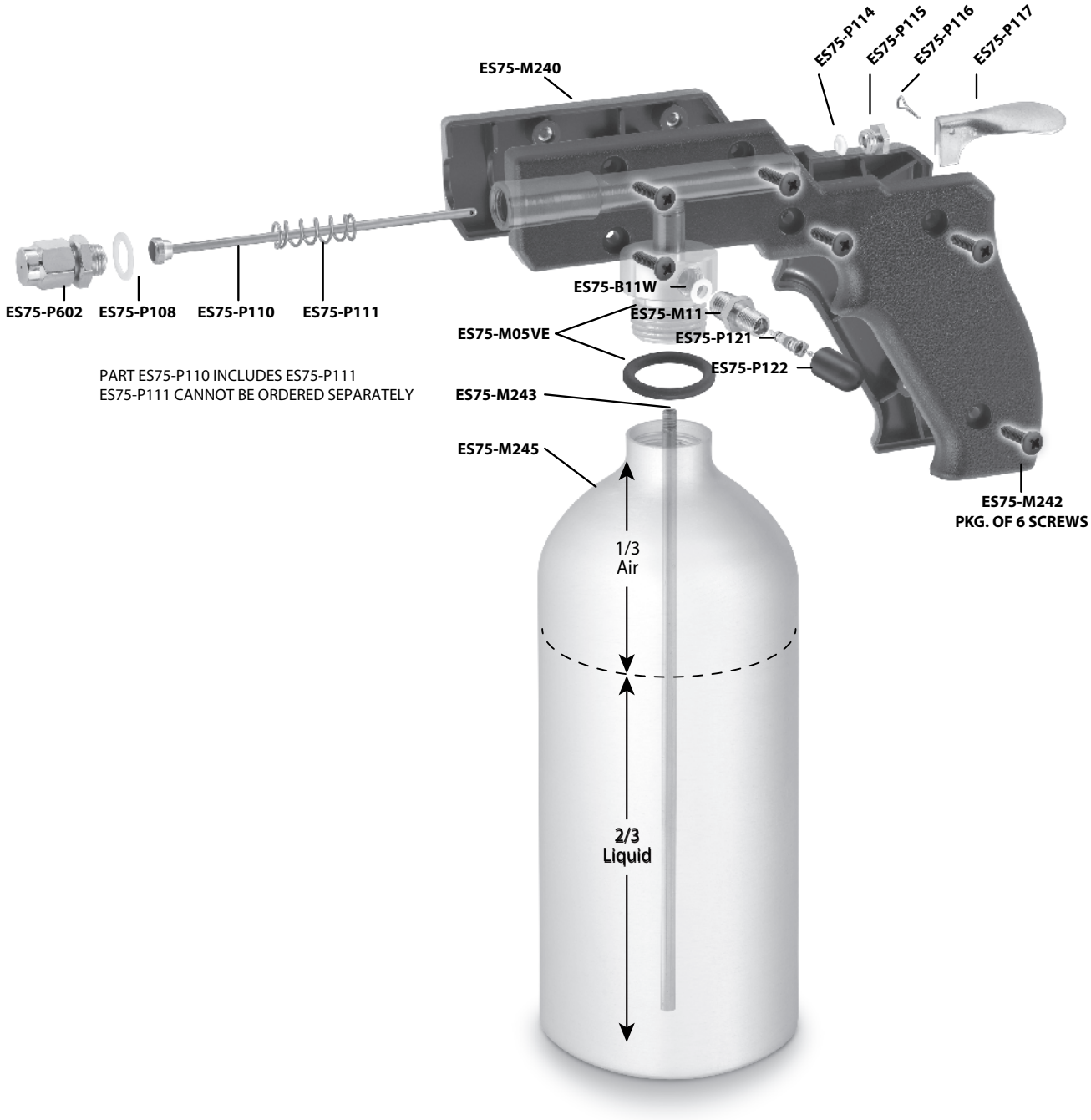
NEVER USE ACIDS IN THIS SPRAYER.

3) Take the complete handle assembly and screw it clockwise into top of the canister. Firmly hand tighten only - do not overtighten.
4) Charging the sprayer with compressed air can be done by holding a standard air chuck on valve stem of the air filler. Hold the air chuck on the air filler until you hear the line pressure equalize with the sprayer. Working pressure is 5.5-10.3 Bar (80-150 psi). At least 5.5 Bar (80 psi) is needed to spray the full 750ml without a recharge of air. **THE MAXIMUM PRESSURE SHOULD NOT EXCEED 13.7 BAR (200 PSI).**
5) The EverSafe 750 sprayer is now ready to use.
6) Remember only use approved Envirofluid products in the EverSafe 750. Non approved products may result in damage or poor performance of the sprayer. Some unapproved reactive chemicals (such as acids) may cause the sprayer to fail suddenly presenting a safety risk to users and bistanders.

ALWAYS DEPRESSURISE THE SPRAYER BEFORE REMOVING ANY PARTS
SPRAYER NOT RECOMMENDED FOR USE WITH PAINTS
FILL ONLY WITH ENVIROFLUID APPROVED PRODUCTS

MAXIMUM PRESSURE 13.7 BAR (200 PSI)

EverSafe 750 Sprayer Components



PART ES75-P110 INCLUDES ES75-P111
ES75-P111 CANNOT BE ORDERED SEPARATELY

EverSafe 750 Sprayer Parts & Accessories

PART #	DESCRIPTION
ES75-11W	Teflon® Washer
ES75-M05VE	O'Ring
ES75-M11	Air Filler Assembly (Incl. B11W, P121, P122)
ES75-M240	Acetal Plastic Handle
ES75-M242	Handle Screws (Pkg. of 6)
ES75-M243	Brass Siphon Tube
ES75-M245	750ml. Capacity Anodized Canister (Black or silver)
ES75-P108	Inner Adapter Washer
ES75-P110	Valve (Includes P111)
ES75-P111	Valve Spring (Included With P110, Not Available Separately)
ES75-P114	Stuffing Box Packing
ES75-P115	Stuffing Box Nut
ES75-P116	Cotter Pin
ES75-P117	Valve Trigger
ES75-P121	Chemical Resistant Valve Core
ES75-P122	Black Cap
ES75-P307	Valve Seat Adapter - Male
ES75-P307-C	Valve Seat Adapter - Female 1/8" NPT
ES75-P307PT	Valve Seat Adapter - Male 1/8" NPT
ES75-P309	Outer Adapter Washer

ACCESSORIES

ES75-P07362

Filling/Measuring Device
950ml Capacity: Graduations at 240ml, 470ml, 710ml, and 950ml. Includes Brass Mesh Screening

NOZZLES

PART #	DESCRIPTION
ES75-P223A	Spray Jet Spiral (For P305)
ES75-P302	Regular Spray Nozzle (Incl. P303, P309) Remove P303 With Needle Nose Pliers To Produce Pin Stream
ES75-P302-B	Coarse Spray Nozzle (Incl. P303, P309)
ES75-P302-C	Extra Fine Spray Nozzle (Incl. P303, P309)
ES75-P303	Spray Jet Spiral (Fits P302, P302-B, P302-C)
ES75-P305	Fine Spray Nozzle (Incl. P223A, P108)
ES75-P501	Flat Spray Nozzle (Incl. P307-C, P108)
ES75-P550	Flat Spray Nozzle (Incl. P307-C, P108)
ES75-P567	Coarse Flat Spray Nozzle (Incl. P307-C, P108)
ES75-P602	Adjustable Nozzle With Adapter (Incl. P108)
ES75-P707	Extra, Extra Fine Spray Nozzle (Incl. P108)

EXTENSIONS

ES75-304	Nozzle Extension Washer (for 325 & 335)
ES75-320	3" Extension with Sprayhead
ES75-325	6" Nozzle Extension - Rigid Brass (for 302/302B/302C/501)
ES75-330	12" Nozzle Extension - Long Flexible Teflon® Tube (for 301/302/302B/302C/501)
ES75-331	12" Nozzle Extension - Long Flexible Teflon® Tube (for 305/550/567/602/707)
ES75-338	6" Nozzle Extension - Rigid Brass (for 305/550/567/602/707)
ES75-335	12" Nozzle Extension - Flexible Brass (for 302/302B/302C/501)
ES75-339	12" Nozzle Extension - Flexible Brass (for 305/550/567/602/707)
ES75-337	12" Plastic Pin Stream Extension
ES75-344	3" Long Hypodermic Tube Extension
ES75-345	3" Extension with Pin Stream Head

Repair & Maintenance

REPAIR PROCEDURES

Disassembly and replacement of EverSafe 750 components should be conducted in the following order.

a) ALWAYS DEPRESSURISE SPRAYER BEFORE REMOVING ANY PARTS. (See page 1)

b) Remove the complete top assembly from the canister once all the air has been let out of the sprayer. Do this by grasping the top trigger assembly in one hand and the canister in the other and unscrewing counterclockwise completely.

c) Use pliers to remove the ES75-P116 cotter pin from the ES75-P117 trigger. Then remove the trigger.

d) Remove the ES75-P602 nozzle using a 5/8" wrench.

e) Remove the ES75-P115 nut using a 3/8" wrench.

f) Remove the ES75-P110 valve. Note that the ES75-P111 spring is assembled to the ES75-P110 valve.

g) It is possible to damage the ES75-P114 when you remove it. Ensure you do not damage the inside threads when removing the ES75-P114. The ES75-P114 stuffing box packing may be removed by taking a small thin flat blade screwdriver and working the ES75-P114 loose.

h) Remove the ES75-B05VE O'Ring from the top assembly.

i) Remove the 7/16" hex ES75-M11 air filler assembly from the side of the body. The ES75-B11W washer must also be removed and replaced. You have now removed all the parts from the EverSafe 750.

j) To reassemble using your ES75-KM10 complete repair kit, start by taking a ES75-P114 and placing it into the position you just removed it from. Take the ES75-P115 and hand start the thread.

k) Assemble the ES75-P111 valve spring to the ES75-P110 valve and place whole assembly into sprayer.

l) Assemble the ES75-P108 washer to the back of the ES75-P602 nozzle. Take the assembly and push the face of the ES75-P110 back into the sprayer until you can hand start the thread. Tighten the 5/8" hex until washer is seated.

m) Snug 3/8" hex ES75-P115 stuffing box nut. Do not overtighten.

n) Replace ES75-P117 trigger. Line up the holes in the trigger with hole in the back of the ES75-P110 valve. Insert ES75-P116 cotter pin and using a pliers bend over the ends.

o) Press down on the ES75-P117 trigger and apply a drop or two of lubricant to the valve stem of the ES75-P110 at the rear of the ES75-P115 stuffing box nut. Tilt the sprayer so that the lubricant runs into and around the ES75-P115.

p) Pressurize the EverSafe 750 and check for leaks.

CLEANING THE P110 VALVE

1) **ALWAYS DEPRESSURISE SPRAYER BEFORE REMOVING ANY PARTS. (See page 2)**

2) Remove the complete top trigger assembly from the EverSafe 750 canister once all the air has been let out of the unit by grasping the body in one hand and the canister in the other and unscrewing counterclockwise completely.

3) Remove ES75-P602 nozzle by using 5/8" wrench on the hex portion of the ES75-P602 body. Clean nozzle.

4) Inspect the face of the ES75-P110 valve - which is now visible. The valve face should be clean and clear of all particles or contaminants. You should see a circular depression caused by the back of the nozzle. This depression should be clean and clear of all contaminants. You can clean the valve with a small brush.

5) Return ES75-P602 nozzle and ES75-P108 washer to the opening and tighten.

6) Depress the ES75-P117 trigger several times to reset the seal between the face of the ES75-P110 valve and the back of the nozzle.

7) Take the top assembly and screw it clockwise into the top of the canister. Firmly hand tighten only.

8) Pressurize and check for leaks. If valve does not seal correctly, replace the ES75-P110 valve.

Trouble Shooting

SPRAYER WILL NOT SPRAY AT ALL

A) Sprayer is completely full of liquid. Only fill sprayer 2/3 full (710ml).

B) No air pressure. Pressurize.

C) Nozzle is clogged. Clean or replace nozzle.

PIN STREAM ONLY

A) Liquid too thick. Thin until sprayable. Consult your liquid supplier for correct thinning procedures.

B) Too little air pressure. Minimum of 80 psi.

LEAKS FROM P115 STUFFING BOX NUT

A) ES75-P115 stuffing box nut is loose. Tighten ES75-P115 1/16th of a turn and apply a drop or two of lubricant to the ES75-P110 valve stem at the rear of the ES75-P115. Tilt the sprayer so that the lubricant runs into and around the ES75-P115. Depress trigger a few times to work in the oil.

STUCK OR DRAGGING TRIGGER ACTION

A) ES75-P115 stuffing box nut is too tight. Loosen ES75-P115 nut 1/16th of a turn and apply a drop or two of lubricant to the ES75-P110 valve stem at the rear of the ES75-P115. Tilt the sprayer so that the lubricant runs into and around the ES75-P115. Depress trigger to work in oil slightly for proper action.

AIR FILLER ASSEMBLY WON'T ACCEPT AIR

A) Air filler assembly has been damaged. Replace.

LEAKS FROM NOZZLE

A) Dirty or worn face on ES75-P110 valve. (See Cleaning the ES75-P110 valve on previous page)

B) ES75-P115 stuffing box nut is too tight. (See stuck or dragging trigger action on this page)

LEAKS BETWEEN BODY AND CANISTER

A) O'Ring is dirty. Clean and wet.

B) O'Ring is damaged or worn. Replace.