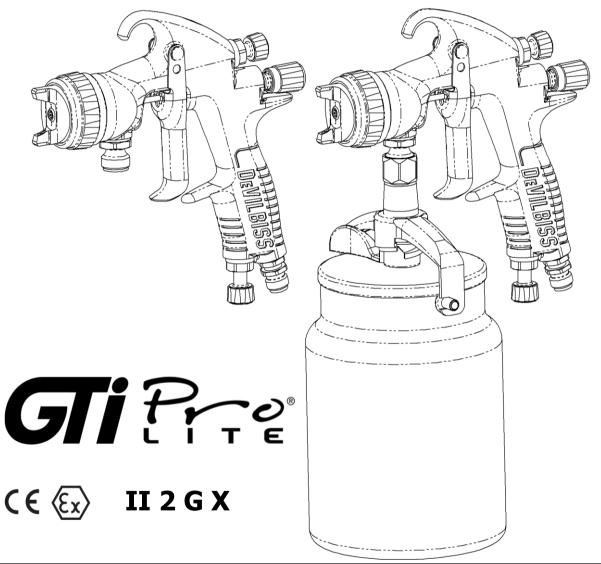
DEVILBISS GTI Pro Lite

HVLP and High Efficiency

Suction and Pressure Spray Guns



IMPORTANT! DO NOT DESTROY

It is the Customer's responsibility to have all operators and service personnel read and understand this manual.

Contact your local DeVilbiss representative for additional copies of this manual.

READ ALL INSTRUCTIONS BEFORE OPERATING THIS DEVILBISS PRODUCT.

DEVILBISS

FUNCTIONAL DESCRIPTION

The GTi PRO Lite spray gun is a professional quality gun designed with EPA compliant, High Efficiency or high volume, low pressure (HVLP) technology. HVLP technology reduces overspray and limits air cap pressure to 0.7 bar [10 psi]. High Efficiency complies with EPA by obtaining transfer efficiency above 65%.

SPECIFICATIONS		
AIR INLET PRESSURES		
P1 = Max Static Air Input Pressure	12 Bar [175 psi]	
P2 = Max Fluid Input Pressure		15 Bar (217 psi)
Gun Air Inlet Pressure with gun triggered	sure with gun triggered HVLP	
	High Efficiency	2.0 Bar [29 psi]

ENVIRONMENTAL	
Max Ambient Operating Temperature	40°C Nominal [104°F]

MATERIALS OF CONSTRUCTION		
Gun Body Material	Anodised Aluminium	
Fluid Tip, Fluid Needle, Fluid Inlet and Trigger Stud	Stainless Steel	
Air Cap Material	Electroless Nickel Plated Brass	
Air Cap Retaining Ring, Sprayhead, Adjusting Knobs	Anodised Aluminium	
Springs, Clips, Screws	Stainless Steel	
Seals and O-Rings	Solvent resistant	
Trigger	Chrome plated steel	
Air Inlet, Valve Body, Air Valve Body, Packing Nut	Chrome plated brass	
Air Valve Stem	Electroless Nickel Plated Brass	
Cup, Lid, Tube and Cam	Aluminium	

CONNECTIONS		
P1 = Air Inlet Size	1/4" Universal	
P2 = Fluid Inlet Size	3/8" BSP	

WEIGHT	
GUN ONLY	500g
WITH CUP	935g

DIMENSIONS		
L x H x W mm	GUN ONLY	174 x 175 x 18
	WITH CUP	177 x 302 x 115

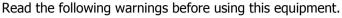
Product Description:	GTi Pro Lite™	EN
This Product is designed for use with:	Solvent and water based materials	
Suitable for use in hazardous area:	Zone 1 & 2	
Protection Level:	II 2 G X	
Vibration Level:	<2.5 m/s ²	
Sound Pressure Level:	Available on request	
Sound Power Level:	Available on request	
Manufacturer:	Finishing Brands UK, Ringwood Road, Bournemouth, BH11 9LH. UK	
EU Declaration of Conform	nity	C E < (Ex >

We: Finishing Brands UK, declare that the above product conforms with the Provisions of: Machinery Directive 2006/42/EC ATEX Directive 94/9/EC by complying with the following statutory documents and harmonised standards: BS EN 1953:2013 Atomising and spraying equipment for coating materials - Safety requirements EN ISO 12100-1:2010 Safety of Machinery - Basic concepts, general principles for design - Basic terminology, methodology EN ISO 12100-2:2010 Safety of Machinery - Basic concepts, general principles for design - Technical principles EN 14462:2005+A1:2009 Surface treatment equipment - Noise test code for surface treatment equipment including its ancillary handling equipiment - Accuracy grades 2 and 3 EN ISO 11201:1995 Acoustics - Noise by machinery and equipment - Determination of emission sound pressure levels at a work station and at other specified positions in an essentially free field over a reflecting plane with negligible environmental corrections EN ISO 20643:2008 Mechanical vibration - Hand held and hand guided machinery - Principles for evaluation of vibration emission EN ISO 28662-1 Hand-held portable power tools - Measurement of vibrations at the handle EN 12096:1997 Mechanical vibration - Declaration and verification of vibration emission values EN 1127-1: Explosive atmospheres - Explosion prevention - Basic concepts EN 13463-1: Non electrical equipment for use in potentially explosive atmospheres - Basic methods and requirements HVLP and High Efficiency products comply with the requirements of PG6 from the EPA guidelines and offer greater than 65% transfer efficiency. D Smith (General Manager) 21/03/16

In this part sheet, the words WARNING, CAUTION and NOTE are used to emphasise important safety information as **EN** follows:

A WARNING		NOTE
Hazards or unsafe practices which could result in severe personal injury, death or substantial property damage.	Hazards or unsafe practices which could result in minor personal injury, product or property damage.	Important installation, operation or maintenance information.

WARNING





SOLVENTS AND COATING MATERIALS. Can be highly flammable or combustible when sprayed. Always refer to the coating material supplier's instructions and safety sheets before using this equipment.



INSPECT THE EQUIPMENT DAILY. Inspect the equipment for worn or broken parts on a daily basis. Do not operate the equipment if you are uncertain about its condition.



READ THE MANUAL. Before operating finishing equipment, read and understand all safety, operation and maintenance information provided in the operation manual. Users must comply with all local and national codes of practice and insurance company requirements governing ventilation, fire precautions, operation and house-keeping of working areas.



EQUIPMENT MISUSE HAZARD. Equipment misuse can cause the equipment to rupture, malfunction or start unexpectedly and result in serious injury.



FIRE AND EXPLOSION HAZARD. Never use 1,1,1-Trichloroethane, Methylene Chloride, other Halogenated Hydrocarbon solvents or fluids containing such solvents in equipment with aluminium wetted parts. Such use could result in a serious chemical reaction, with the posibility of explosion. Consult your fluid suppliers to ensure that the fluids being used are compatible with aluminium parts.



GLOVES. Must be worn when spraying or cleaning the equipment.

WEAR RESPIRATOR. The use of respiratory protective

NEVER MODIFY THE EQUIPMENT. Do not modify the

equipment unless the manufacturer provides written approval.

must be compatible with the material being spraved.

equipment is recommended at all times. The type of equipment



n

WEAR SAFETY GLASSES. Failure to wear safety glasses with side shields could result in serious eye injury or blindness.



STATIC CHARGE. Fluid may develop a static charge that must be dissipated through proper grounding of the equipment, objects to be sprayed and all other electrically conductive objects in the dispensing area. Improper grounding or sparks can cause a hazardous condition and result in fire, explosion or electric shock and other serious injury.



TOXIC VAPOURS. When sprayed, certain materials may be poisonous, create irritation, or are otherwise harmful to health. Always read all labels, safety sheets and follow any recommendations for the material before spraying. If in doubt contact your material supplier.



LOCK OUT / TAG-OUT. Failure to de-energise, disconnect, lock out and tagout all power sources before performing equipment maintenance could cause serious injury or death.



NOISE LEVELS. The A-weighted sound level of pumping and spray equipment may exceed 85 dB(A) depending on equipment settings. Actual noise levels are available on request. It is recommended that ear protection is worn at all times while equipment is in use.



HIGH PRESSURE CONSIDERATION. High pressure can cause serious injury. Relieve all pressure before servicing. Spray from the gun, hose leaks or ruptured components can inject fluid into your body and cause extremely serious injury.



PROJECTILE HAZARD. You may be injured by venting liquids or gases that are released under pressure, or flying debris.



PRESSURE RELIEF PROCEDURE. Always follow the pressure relief procedure in the equipment instruction manual.



KNOW WHERE AND HOW TO SHUT OFF THE EQUIPMENT IN CASE OF AN EMERGENCY.

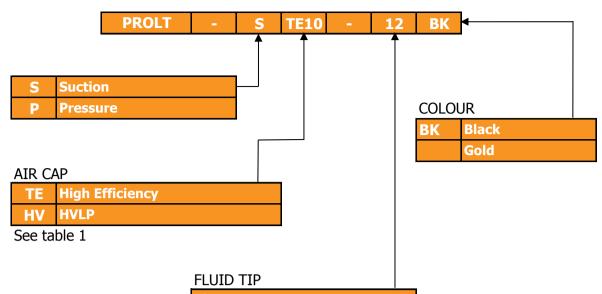


OPERATOR TRAINING. All personnel must be trained before operating finishing equipment.

IT IS THE RESPONSIBILITY OF THE EMPLOYER TO PROVIDE THIS INFORMATION TO THE OPERATOR OF THE EQUIPMENT.



GTi Pro Lite GUN PART NUMBER FORMAT & PART SELECTION GUIDE



Size

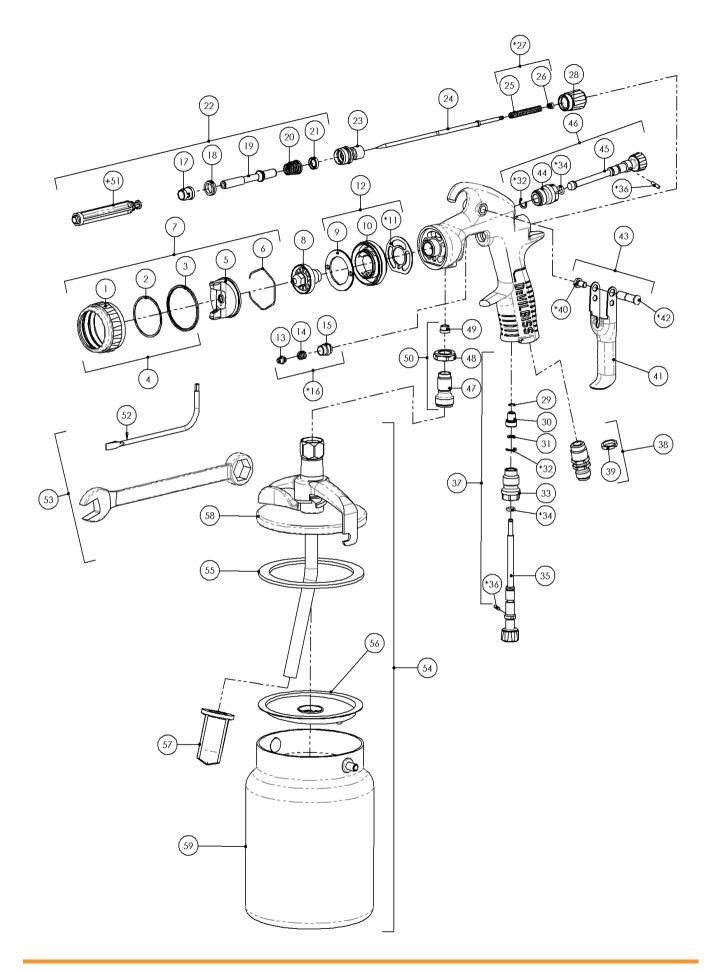
See table 2

TABLE	E 1					
GTi Pı	GTi Pro Lite [™] AIR CAP PERFORMANCE GUIDE					
	Air Cap & Type	Part Number	Fluid Feed	Recommended Air Inlet Pressure	Air Consumption	Typical Fan Pattern Size**
HV30	HVLP	PRO-102-HV30-K	Suction/Pressure	1.75 Bar [25 psi]	465 L/min	280-310
TE10	High Efficiency	PRO-102-TE10-K	Suction/Pressure	2.0 Bar [29 psi]	275 L/min	265-290
TE20	High Efficiency	PRO-102-TE20-K	Suction/Pressure	2.0 Bar [29 psi]	350 L/min	265-285
TE30	High Efficiency	PRO-102-TE30-K	Pressure Only	2.0 Bar [29 psi]	300 L/min	240-280
TE40	High Efficiency	PRO-102-TE40-K	Pressure Only	2.0 Bar [29 psi]	365 L/min	300-420

** Fan pattern size @ 200mm distance.

TABLE 2						
GTi Pro Lite™ FLUII	D TIPS & NEEDLES					
Spraygun	Fluid Tip Size	Fluid Tip	Needle			
	0.85	PRO-205-085-K	PRO-320-085-10-K			
	1.0	PRO-205-10-K	PKO-320-063-10-K			
PROLT-P	1.2	PRO-205-12-K	PRO-320-12-14-K			
Pressure	1.4	PRO-205-14-K	PRO-320-12-14-N			
	1.6	PRO-205-16-K	PRO-320-16-18-K			
	1.8	PRO-205-18-K	PKO-320-10-10-K			
PROLT-S	1.6	PRO-200-16-K				
Suction	1.8	PRO-200-18-K	PRO-325-K			
	2.0	PRO-200-20-K				

EXPLODED VIEW



PARTS LIST

REF.	PART No.	DESCRIPTION	QTY.
1	-	RETAINING RING	1
2	-	SLIP RING	1
3	-	RETAINING RING SEAL	1
4	PRO-420-K	RETAINING RING SUB ASSEMBLY	1
5	-	AIR CAP	1
6	JGA-156-K5	SPRING CLIP (KIT OF 5)	1
7	SEE TABLE	AIR CAP & RETAINING RING	1
8	SEE TABLE	FLUID TIP	1
9	SN-41-K	BAFFLE PLATE	1
10	-	SPRAYHEAD	1
*11	SN-18-1-K2	GASKET (KIT OF 2)	1
12	SN-69-K	SPRAY HEAD KIT	1
13	-	NEEDLE PACKING	1
14	-	PACKING SPRING	1
15	-	PACKING NUT	1
*16	SN-404-K	PACKING, SPRING & PACKING NUT KIT	1
17	-	FRONT VALVE SEAL	1
18	-	VALVE SEAT	1
19	-	AIR VALVE STEM	1
20	-	AIR VALVE SPRING	1
21	-	REAR VALVE SEAL	1
22	PRO-471	AIR VALVE ASSEMBLY	1
23	SN-66-K	AIR VALVE BODY	1
24	SEE TABLE	FLUID NEEDLE	1
25	-	NEEDLE SPRING	1
26	-	SPRING PAD	1
*27	PRO-472-K3	NEEDLE SPRING KIT	1
28	SN-67-C-K	FLUID ADJUSTING KNOB	1
29	25746-007-K5	CIRCLIP (KIT OF 5)	1
30	-	VALVE HEAD	1
31	-	WASHER	1
*32	-	CIRCLIP	1
33	-	VALVE BODY	1
*34	-	O RING	1
35		VALVE ADJUSTING KNOB	1
*36	-	SPREADER VALVE PIN	1
37	PRO-407-K	AIRFLOW VALVE	1

PARTS LIST (Continued)

REF.	PART No.	DESCRIPTION	QTY.
38	SN-9-K	AIR INLET	1
39	SN-26-K4	COLOUR ID RING KIT (4 COLOURS)	1
*40	-	TRIGGER SCREW	1
41	-	TRIGGER	1
*42	-	TRIGGER STUD	1
43	SP-617-CR-K	TRIGGER STUD & SCREW KIT	1
44	-	VALVE BODY	1
45	-	SPREADER VALVE ADJUSTING KNOB	1
46	PRO-406-K	SPREADER VALVE ASSEMBLY	1
47	-	FLUID INLET	1
48	-	LOCK NUT	1
49	-	SEAL	1
50	ADV-7-K	FLUID INLET KIT	1
+51	-	AIR VALVE SERVICE TOOL	1
52	SPN-8-K2	TORX DRIVER (KIT OF 2)	1
53	SN-406	TOOL KIT	1
SUCTION C	UP MODELS O	NLY	
54	KR-566-1-B	SUCTION CUP KIT	1
55	KR-11-K3	CUP LID GASKET (KIT OF 3)	1
56	KR-115-K5	DIAPHRAGM (KIT OF 5)	1
57	KR-484-K10	FILTER (KIT OF 10)	1
58	KR-4001-B	LID ASSEMBLY	1
59	KR-466-K	CUP	1
SERVICE I	PARTS		

PRO-470	SPRAY GUN REPAIR KIT (INCLUDES ITEMS MARKED *)
GTI-428-K5	SEAL AND PIN KIT, KIT OF 5 (ITEMS 32, 34 & 36)

+ NOT INCLUDED IN THE GUN KIT, ONLY WITH REF 22

WARNING

The spray gun must be earthed to dissipate any electrostatic charges which may be created by fluid or air flows. This can be achieved through the spray gun mounting, or conductive air/fluid hoses. Electrical bond from the spray gun to earth should be checked and a resistance of less than 10⁶ Ohms is required.

CAUTION

IMPORTANT: This spraygun is suitable for use with both waterbased and solvent based coating materials.

- To avoid premature degradation of parts, DeVilbiss recommends the gun is washed in neutral cleaning solution (pH 6 to 8).
- The gun is not designed to be cleaned within an ultrasonic bath.

A

• If there is any doubt regarding the suitability of a specific material, contact your DeVilbiss If there is any doubt regarding the suitability of a specific material, contact your DeVilbiss Distributor or DeVilbiss direct.

START-UP SEQUENCE

1 Connect the gun to a clean, moisture and oil free air supply using a conductive hose of at least 8mm I.D.

2 Suction

Attach the cup lid assembly (62) to the fluid inlet connector (54). Position the yoke at right angles to the gun with the cam lever to the front. Make sure the vent hole in drip free diaphragm (60) is 180° to the lid vent hole.

Pressure

Connect the fluid supply hose to fluid inlet connector.

- ³ Mix coating material to Manufacturer's instructions and strain material.
- ⁴ Turn fluid adjusting knob (28) clockwise to prevent fluid needle movement.
- 5 Turn spreader valve adjusting knob (45) counter clockwise to fully open.
- 6 Adjust inlet air pressure if required.
- 7 Turn fluid adjusting knob counter clockwise until first thread shows.
- 8 Test spray. If the finish is too dry, reduce airflow by reducing air inlet pressure.
- 9 If finish is too wet, reduce fluid flow by turning fluid adjusting knob (28) clockwise. If atomisation is too coarse, increase air inlet pressure. If too fine, reduce inlet pressure.
- 10 The pattern size can be reduced by turning spreader valve knob (45) clockwise.
- 11 Hold gun perpendicular to surface being sprayed. Arcing or tilting may result in uneven coating.

START-UP SEQUENCE

- 12 The recommended spray distance is 150-200mm.
- 13 Spray edges first. Overlap each stroke a minimum of 75%. Move gun at a constant speed.
- 14 Always turn off air supply and relieve pressure when gun is not in use.

NOTE Depending on hose length, larger I.D. hose may be required. Install an air gauge at the gun handle. When gun is triggered on, adjust regulated pressure as required. Do not use more pressure than is necessarry to atomise the material being applied. Excess pressure will create additional overspray and reduce transfer efficiency. NOTE

If quick connect couplings are required, use only high flow quick connects. Other types will not flow enough air for correct gun operation.

SPRAY GUN MAINTENANCE & CLEANING

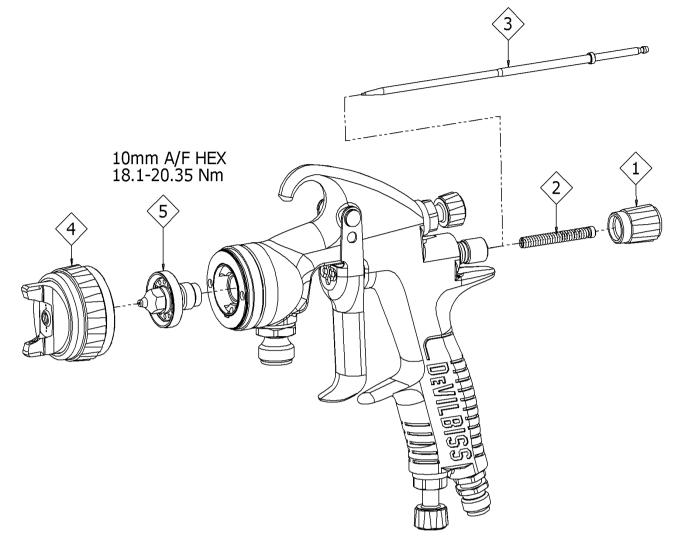
To clean air cap and fluid tip, brush exterior with a stiff bristle brush. If necessarry to clean cap holes, use a broom straw or toothpick if possible. If a wire or hard instrument is used, extreme care must be taken to prevent scratching or burring of the holes which will cause a distorted spray pattern.

To clean fluid passages, remove excess material, then flush with gun wash solution. Wipe the gun exterior with a dampened cloth. Never completely immerse in any solvent or cleaning solutions as this is detrimental to the lubricants and life of the spray gun.

SPRAY GUN DISASSEMBLY / ASSEMBLY

KEY		
#	Order for disassembly	
	- see over page	
	(reverse for assembly)	
	Item Number	
#	- see over page	



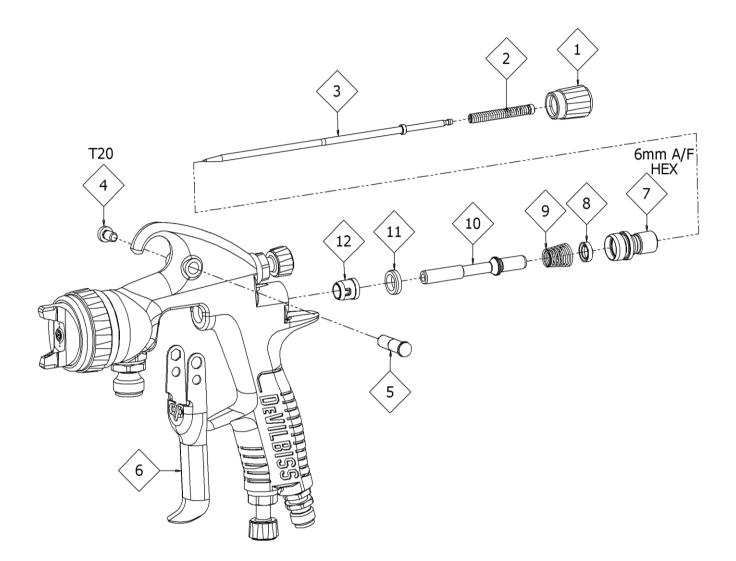


NOTE

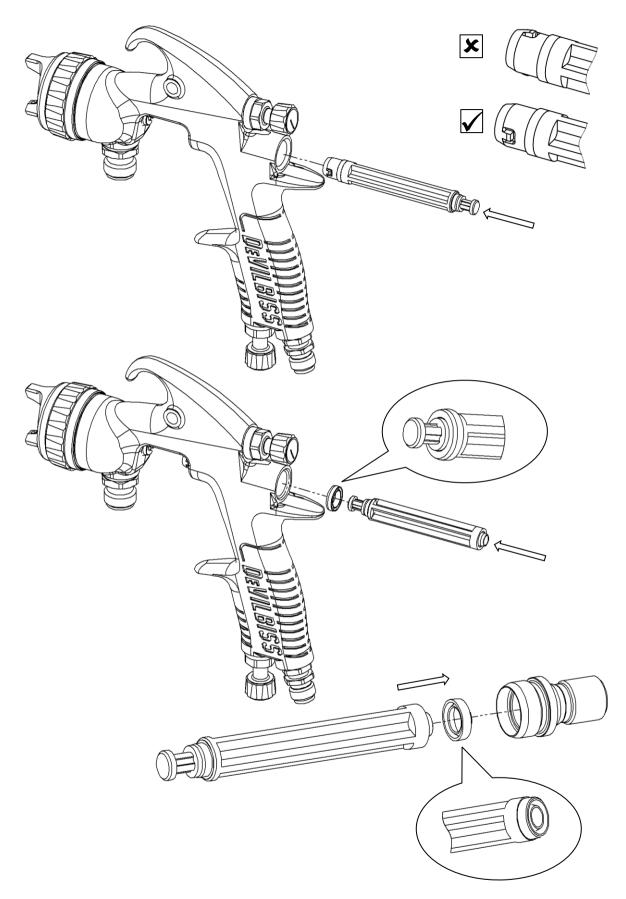
When replacing the fluid tip or fluid needle, replace tip, needle and fluid packing at the same time. Using worn parts can cause fluid leakage. Do not overtighten.

To prevent damage to fluid tip or fluid needle, be sure to either:

- 1 Pull the trigger and hold while tightening or loosening the fluid tip, or,
- 2 Remove the fluid adjusting knob to relieve spring pressure against needle collar.

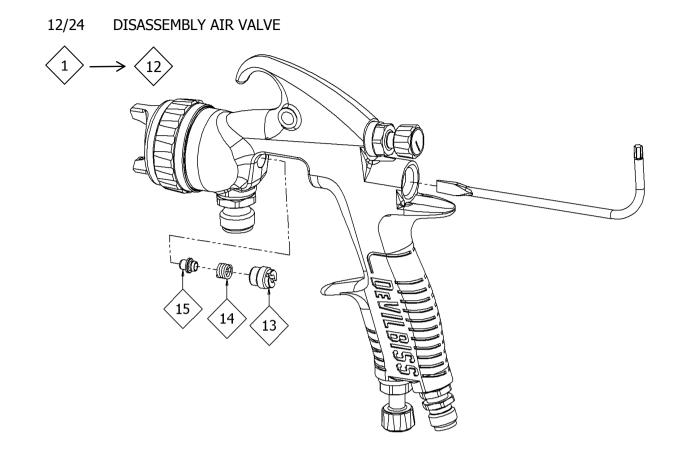


ASSEMBLY AIR VALVE SEALS

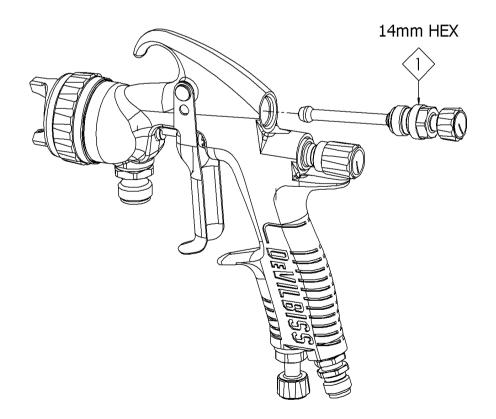




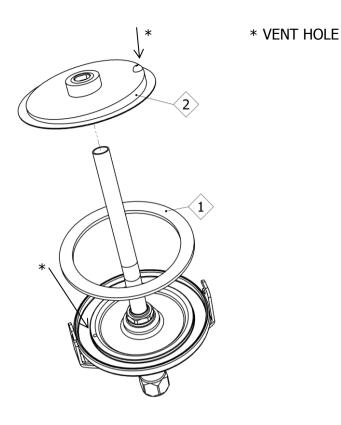
DISASSEMBLY PACKING



SPREADER VALVE REPLACEMENT



SUCTION CUP LID



NOTE

Remove and clean or replace the diaphragm (60) making sure the vent hole is clean and not blocked. It is recommended to replace the cup lid gasket (59) to avoid leakage. Re-assemble the diaphragm positioning the vent hole 180° to the vent hole in the lid (62), see diagram. Ensure the vent hole in the lid is also not blocked before use.

TROUBLESHOOTING MECHANICAL PERFORMANCE

GENERAL FAULTS	CAUSE	CORRECTION
	No air pressure at gun.	Check air supply and air line.
Will not spray.	Fluid needle adjustment knob not open enough.	Open fluid needle adjustment knob.
Gun spits paint when triggering	Incorrect needle fitted to gun.	Check fluid tip/needle selection chart and fit correct item.
on and off.	Excessive needle wear.	Replace with new needle.
	Excessive fluid tip wear.	Replace with new fluid tip.
Gun spits paint when triggering on due to paint build-up inside air cap between spraying	Fluid tip not fitted correctly in gun head.	Tighten.
operations.	Fluid tip/needle leakage.	Check for damage or blockage.
Paint build-up on fluid tip.	Fluid tip not fitted correctly in gun head.	Tighten.
	Fluid tip/needle leakage.	Check for damage or blockage.
	Damaged air cap holes.	Replace with new air cap.
Paint build-up on air cap.	Gradual build-up of bounce-back on gun head.	Thoroughly clean.
Unable to get round spray	Fluid tip or sprayhead incorrectly fitted.	Remove, check components for damage and refit correctly.

When removing air cap from retaining ring, do not remove the ring seat from the retaining ring. Damage to the parts may occur. Simply wipe parts clean and reassemble with new or clean air cap.

FLUID FAULTS	CAUSE	CORRECTION
	Fluid tip internal seat scored damaged or worn.	Replace.
	Fluid needle external profile damaged or worn.	Replace.
Clow fluid look from fluid tip and	Contamination on needle or tip mating surfaces preventing good seal.	Thoroughy clean.
Slow fluid leak from fluid tip and needle seat.	Incorrect fluid tip for fluid needle fitted to gun.	Check tip/needle selection chart and fit correct item.
	Sluggish needle.	Lubricate packing. (GL-1)
	Tight packing nut.	Adjust.
Major fluid leak or fluid jetting	Contamination on needle or tip mating surfaces preventing good seal.	Remove tip and needle and thoroughly clean.
from fluid tip and needle seat.	Incorrect fluid tip for fluid needle fitted to gun.	Check tip/needle selection chart and fit correct item.
Slow fluid leak from needle packing.	Fluid needle packing worn or loose.	Tighten or replace as necesarry.

AIR FAULTS	CAUSE	CORRECTION
	Air Valve Stem contaminated and not correctly seating.	Remove Air Valve Stem and thoroughly clean valve shaft and seating surfaces.
Small air leak from air cap when gun is not triggered.	Air Valve Stem seal damaged or missing.	Replace.

TROUBLESHOOTING SPRAY PERFORMANCE

CONDITION	CAUSE	CORRECTION
Heavy top or bottom pattern.	Material build-up on air cap, plugged horn holes, centre holes or jets.	Soak cap or tip in suitable solvent and thoroughly clean.
	Material build-up on fluid tip exterior or partially plugged fluid tip.	Replace fluid tip or air cap if necesarry.
	Fluid tip or cap dirty or damaged.	Replace fluid tip or air cap if necesarry.
Heavy right or left side pattern.	Left or right side horn holes plugged.	Soak cap or tip in suitable solvent and thoroughly clean.
	Dirt or damage on left or right side of fluid tip exterior.	Replace fluid tip or air cap if necesarry.

Remedies for the top-heavy, bottom-heavy, right-heavy and left-heavy patterns.

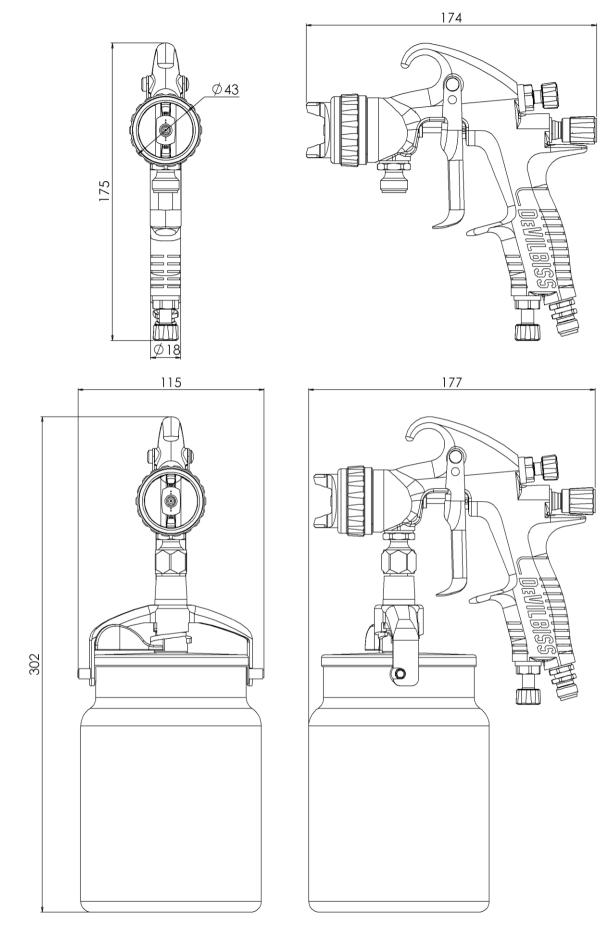
Determine if the obstruction is on the air cap or the fluid tip. Do this by making a test spray pattern. Then, rotate the cap one-half turn and spray another pattern. If the defect is inverted, obstruction is on the air cap. Clean the air cap as previously instructed. Also check for dried paint just inside the cap centre hole opening, remove by washing with solvent.

If the defect is not inverted, it is on the fluid tip. Clean tip. If problem persists, renew tip.

		EN
Heavy centre pattern.		
	Pattern adjustment valve set too low.	Turn out counter clockwise to achieve correct pattern.
	Too much material.	Reduce fluid flow by turning fluid needle adjusting screw clockwise. Reduce fluid pressure.
	Material too thick.	Thin to correct consistency.
	Atomising air pressure too low.	Increase air pressure.
Intermittent or 'fluttering' spray fan.	Loose fluid tip.	Tighten.
IS SEC	Fluid tip not seated correctly in gun head.	Remove fluid tip, clean components, check cone seating on tip and gun for damage or contamination.
	Partially obstructed fluid passage or hose.	Clean or replace.
Split spray pattern	Not enough material flow.	Increase fluid flow by changing fluid tip size, opening needle control knob or increase fluid pressure on pressure feed container.
	Too high horn pressure.	Reduce air pressure by rotating pattern control valve clockwise.
	Too much air for fluid quanitity used.	Reduce input air pressure.

		EN
Ball end heavy		
pattern.	Too much fluid flow.	Change fluid tip for smaller size or change air cap for different specification air cap.
	Too much atomisation air pressure.	Reduce air pressure.
Excessive bounce-back.	Gun too far from surface.	Check distance (normally 150- 200mm).
	Too much fluid flow.	Adjust gun or reduce fluid pressure.
Runs and sags.	Material too thin.	Mix properly or apply light coats/reduce fluid flow.
	Gun tilted at an angle.	Mount gun at right angle to work.
	Gun too far from surface.	Check distance.
This, candy coarse finish drying	Too much air pressure.	Reduce air pressure and check spray pattern.
Thin, sandy coarse finish drying before it flows out.	Fluid flow too low.	Increase fluid flow by changing fluid tip size, supply pressure or turning needle control knob counter clockwise.

DIMENSIONS



NOTES

WARRANTY POLICY

DeVilbiss products are covered by Finishing Brands one year materials and workmanship limited warranty. The use of any parts or accessories, from a source other than Finishing Brands, will void all warranties. For specific warranty information please contact the closest Finishing Brands location listed below.

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DEVILBISS

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