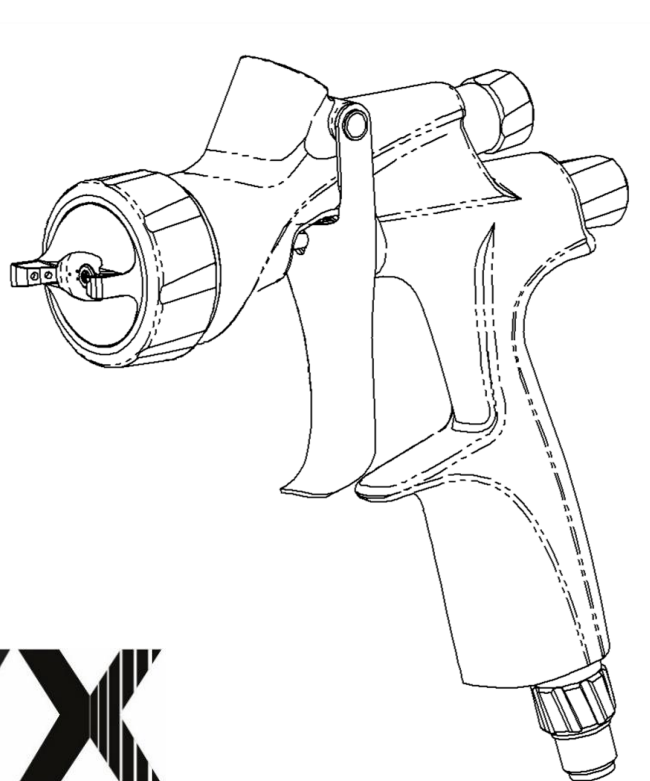




DVX Gravity Spray Gun

UK
CA CE  II 2 G X / Ex h II Gb X



DVX

EAC

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 Carlisle Fluid Technologies representative for additional copies of this manual.

READ ALL INSTRUCTIONS BEFORE OPERATING THIS PRODUCT.

FUNCTIONAL DESCRIPTION

The DVX spray gun is a professional quality spray gun designed to comply with all global legislations. It is suitable for use with most paints and coatings and uses a Gravity cup fluid supply.

SPECIFICATIONS

AIR INLET PRESSURES	
P1 = Max. Static Air Input Pressure	12 bar [175 psi]
Gun Air Inlet Pressure with gun triggered	See Table 1 - Page 8
Vibration Level:	<2.5 m/s ²
Sound Power Level:	Available On Request
Sound Pressure Level:	Available On Request

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

MATERIALS OF CONSTRUCTION	
Gun Body Material	Anodised Aluminium
Fluid Tip, Fluid Needle and Trigger Stud	Stainless Steel
Air Cap Material	Electroless Nickel Plated Brass
Retaining Ring, Sprayhead, Adjusting Knobs, Air Valve Cage	Anodised Aluminium
Springs, Clips, Screws	Stainless Steel
Seals and O-Rings	Solvent Resistant
Trigger	Chrome Plated Steel
Valve Bodies, Rear Housing, Packing Nut	Electroless Nickel Plated Brass
Air Valve Stem	Electroless Nickel Plated Brass

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

WEIGHT	
GUN ONLY	487g [17.1oz]

DIMENSIONS	
L x H x W mm [inches]	164 x 177 x 44 [6.5 x 7.0 x 1.7 in]

Product Description / Object of Declaration:	DVXG
This Product is designed for use with:	Solvent & Waterbased Materials
Suitable for use in hazardous area:	Zone 1/Zone 2
Protection Level:	II 2 G X/Ex h II Gb X
Notified body details and role:	Element Materials Technology Rotterdam B.V. (2812)
	Lodging of ATEX Technical file
This Declaration of Conformity / Incorporation is issued under the sole responsibility of the manufacturer:	Carlisle Fluid Technologies UK Ltd, Ringwood Road, Bournemouth, BH11 9LH. UK
Representative authorised to compile the technical file	Sales and Marketing Director. CFT UK Ltd 1 Avenue de Lattre de Tassigny 94736 Nogent, Cedex. France

EU Declaration of Conformity



This Declaration of Conformity / Incorporation is issued under the sole responsibility of the manufacturer:

Machinery Directive 2006/42/EC

ATEX Directive 2014/34/EU

by complying with the following statutory documents and harmonised standards:

EN ISO 12100:2010 Safety of Machinery - General Principles for Design

BS EN 1953:2013 Atomizing and spraying equipment for coating materials - Safety requirements

EN ISO 80079-36:2016 Explosive Atmospheres- Part 36:Non Electrical equipment for explosive atmospheres-Basic methods and requirements.

EN ISO 80079-37:2016 Explosive Atmospheres- Part 37: Non Electrical equipment for explosive atmospheres - protection by methods "c", "b" and "k".

EN 1127-1:2019 Explosive atmospheres - Explosion prevention - Basic concepts

HVLP and High Efficiency products comply with the requirements of PG6 from the EPA guidelines and offer greater than 65% transfer efficiency.

High volume, low pressure (HVLP) sprayguns are designed to reduce overspray and provide maximum transfer efficiency by limiting air cap pressure to 0.69 bar (10 psi) (complies with rules issued by SCAQMD and other authorities).

Providing all conditions of safe use / installation stated within the product manuals have been complied with and also installed in accordance with any applicable local codes of practice.

Signed for and on behalf of Carlisle
Fluid Technologies:

F. A. Sutter

Executive President: Engineering and
Operations, Scottsdale, AZ, 85254. USA

Document Part No.

0 EN

#N/A

Product Description / Object of Declaration:	DVXG
This Product is designed for use with:	Solvent & Waterbased Materials
Suitable for use in hazardous area:	Zone 1/Zone 2
Protection Level:	II 2 G X/Ex h II Gb X
Approved body details and role:	Element Materials Technology Warwick Ltd. UK. (0891)
	Lodging of UKEX Technical file
This Declaration of Conformity / Incorporation is issued under the sole responsibility of the manufacturer:	Carlisle Fluid Technologies UK Ltd, Ringwood Road, Bournemouth, BH11 9LH. UK

UKCA Declaration of Conformity



This Declaration of Conformity / Incorporation is issued under the sole responsibility of the manufacturer:

Supply of Machinery (Safety) Regulations 2008

Equipment and Protective Systems Intended for use in Potentially Explosive Atmospheres Regulations 2016

by complying with the following statutory documents and designated standards:

BS EN ISO 12100:2010 Safety of Machinery - General Principles for Design

BS EN 1953:2013 Atomizing and spraying equipment for coating materials - Safety requirements

BS EN ISO 80079-36:2016 Explosive Atmospheres- Part 36:Non Electrical equipment for explosive atmospheres-Basic methods and requirements.

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BS EN 1127-1:2019 Explosive atmospheres - Explosion prevention - Basic concepts

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Fluid Technologies:

Document Part No.

0 EN



F. A. Sutter

Executive President: Engineering and
Operations, Scottsdale, AZ, 85254. USA

#N/A

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

EN

 WARNING	 CAUTION	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

Read the following warnings before using this equipment.



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 possibility 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 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.



WEAR RESPIRATOR. The use of respiratory protective equipment is recommended at all times. The type of equipment must be compatible with the material being sprayed.



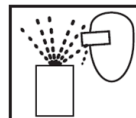
TOXIC VAPOURS. When sprayed, certain materials may be poisonous, create irritation, or are otherwise harmful to health. Always read all labels, safety sheets and follow any recommendations for the material before spraying. If in doubt contact your material supplier.



NEVER MODIFY THE EQUIPMENT. Do not modify the equipment unless the manufacturer provides written approval.



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



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



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.



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.



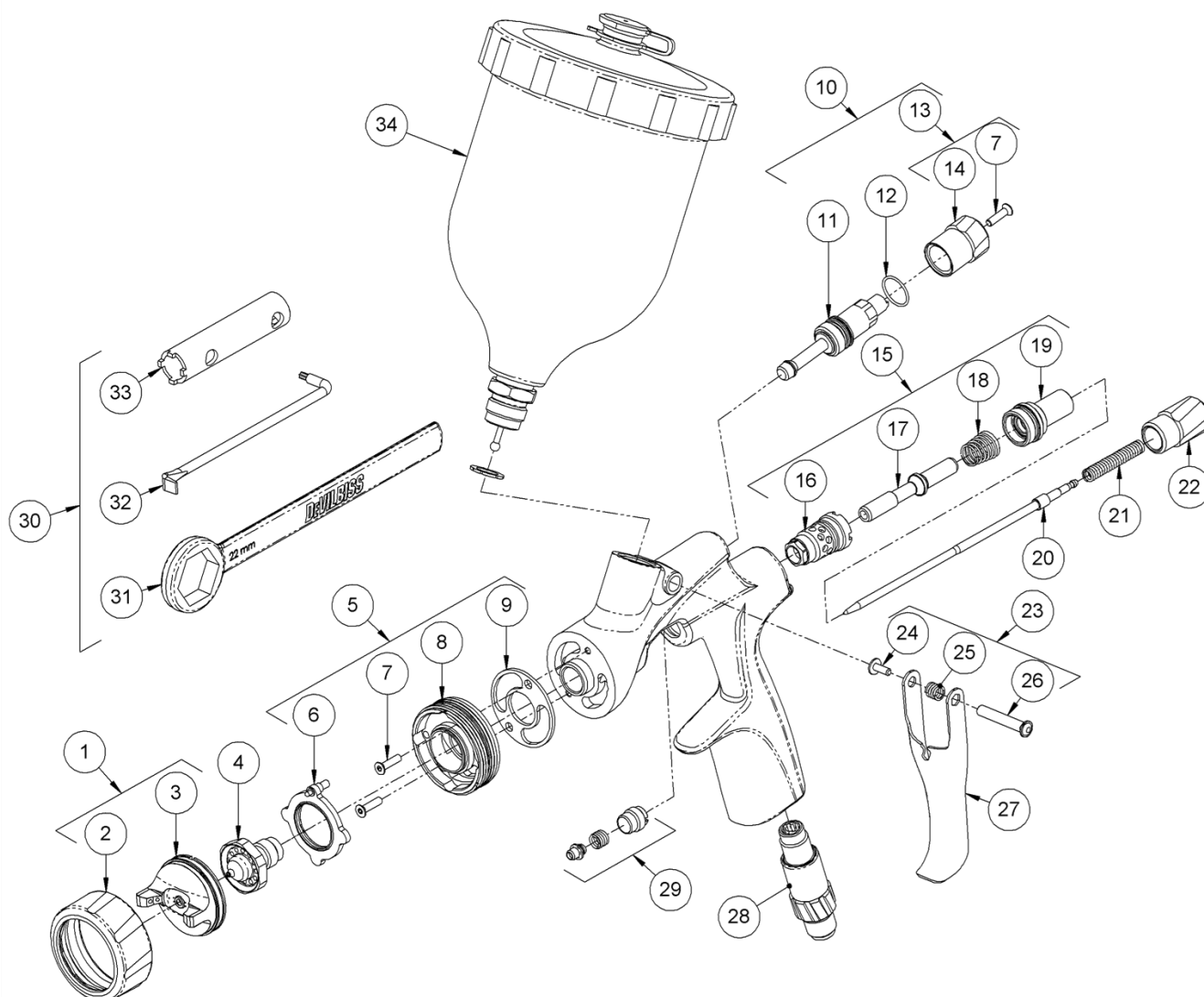
HIGH PRESSURE CONSIDERATION. High pressure can cause serious injury. Relieve all pressure before servicing. Spray from the gun, hose leaks or ruptured components can inject fluid into your body and cause extremely serious injury.



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.

EXPLODED VIEW



PARTS LIST

REF.	PART No.	DESCRIPTION	QTY.
1	SEE TABLE 1	AIR CAP & RETAINING RING	1
2	DVXK-400	RETAINING RING SUB ASSEMBLY	1
3	-	AIR CAP	1
4	SEE TABLE 2	FLUID NOZZLE	1
5 +	DVXK-401	SPRAY HEAD KIT	1
6	DVXK-402	INDEXING BAFFLE PLATE	1
7 #	704403	SCREW (KIT OF 3)	1
8	-	SPRAYHEAD	1
9	704401	GASKET (KIT OF 2)	1

PARTS LIST (Continued)

REF.	PART No.	DESCRIPTION	QTY.
10 +	DVXK-403	FAN CONTROL VALVE	1
11	-	VALVE BODY	1
12 #	-	O RING	1
13	DVXK-404	SPREADER KNOB KIT	1
14	-	SPREADER VALVE ADJUSTING KNOB	1
15 +	DVXK-405	AIR VALVE ASSEMBLY	1
16	-	FRONT CAGE ASSEMBLY	1
17	-	AIR VALVE STEM	1
18 #	-	AIR VALVE SPRING	1
19	-	REAR SEAL ASSEMBLY	1
20	SEE TABLE 2	FLUID NEEDLE	1
21 #	704405	NEEDLE SPRING	
22	DVXK-406	FLUID ADJUSTING KNOB	1
23	704406	TRIGGER, STUD, SPRING & SCREW KIT	1
24 #	-	TRIGGER SCREW	1
25 #	-	SPRING	1
26 #	-	TRIGGER STUD	1
27	-	TRIGGER	1
28	704417	INLINE FLOW VALVE	1
29 +	702731	PACKING, SPRING & PACKING NUT KIT	1
30	704429	TOOL KIT	1
31	-	TIP WRENCH	1
32	-	TORX DRIVER	1
33	-	VALVE TOOL	1
34	GFC-515	GRAVITY CUP	1

SERVICE PARTS

DVXK-408	MINOR SERVICE KIT	INCLUDES ITEMS MARKED #
DVXK-409	MAJOR SERVICE KIT	INCLUDES ITEMS MARKED +

DVXG - AIR CAP & FLUID NOZZLE/NEEDLE SELECTION GUIDE**TABLE 1 - DVXG AIR CAP PERFORMANCE GUIDE**

Part Number	Air Cap & Type	***Recommended Air Inlet Pressure	Air Consumption	Typical Fan Pattern Size**
DVXG-130-G1-K	G1 HVLP PLUS	2.0 bar [29 psi]	315 L/min [11.1 scfm]	300 mm [11.8 in]
DVXG-130-G2-K	G2 HVLP PLUS	2.0 bar [29 psi]	340 L/min [12.0 scfm]	330 mm [13.0 in]
** Fan pattern size @ 200mm [8"] distance.				
*** (with gun fully triggered)				

TABLE 2 - DVXG AIR CAP- FLUID NOZZLE- NEEDLE COMBINATIONS

Air Cap	Fluid Nozzle			Needle	
	Part Number	Fluid Nozzle Size	Marking	Part Number	Marking
G1	DVXG-235-11-K	1.1	DVXG-1.1	DVXG-335-K	DVXG-335
	DVXG-235-12-K	1.2	DVXG-1.2		
	DVXG-235-13-K	1.3	DVXG-1.3		
	DVXG-235-14-K	1.4	DVXG-1.4		
	DVXG-235-15-K	1.5	DVXG-1.5		
G2	DVXG-236-16-K	1.6	DVXG-1.6	DVXG-336-K	DVXG-336
	DVXG-236-18-K	1.8	DVXG-1.8		
	DVXG-236-20-K	2.0	DVXG-2.0		

**CAUTION**

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

- The gun is not designed for use with highly corrosive and/or abrasive materials.
- Immersion of parts in aggressive cleaning solutions can cause colour fading and/or component degradation. Always wash in neutral cleaning solution (pH 6 to 8). Do not submerge the gun in cleaning liquid
- The gun and its components are not designed to be cleaned using an ultrasonic bath.

If there is any doubt regarding the suitability of a specific material, contact your Binks Distributor or Binks 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. Mix coating material to Manufacturer's instructions, filter material and pour into the Gravity Cup.
3. Turn Fan adjustment valve knob (14) counter clockwise to fully open.
4. Turn handle air flow valve counterclockwise to fully open (if fitted).
5. Adjust inlet air pressure if required.
6. Turn fluid adjusting knob counter clockwise until fully open (see diagram on page 11)
7. Hold gun perpendicular to surface being sprayed at a distance of 150-200mm [6-8"]. Arcing or tilting may result in uneven coating thickness.
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 (22) 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 (14) clockwise.
11. Spray component edges first. Overlap each stroke a minimum of 60-75%. Move gun at a constant speed.
12. Adjust fan size, fluid flow (fluid nozzle size) and air pressure if required to optimise application.
13. 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 necessary 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 CLEANING

To clean air cap and fluid tip, brush exterior with a stiff bristle brush. If necessary 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 the spray gun exterior brush and wipe depending upon the complexity of the area.

To clean fluid passages, remove the cup from the gun for separate cleaning. Remove the fluid nozzle and brush out the gun fluid passageways. Clean the Cup and fluid nozzle using suitable brushes. Completely dry inside and outside before storage

Use solvent or cleaning liquid compatible with and designed for the coating sprayed. This will increase ease of cleaning and decrease the time needed. Never completely immerse in any solvent or cleaning solutions as this is detrimental to the lubricants and life of the spray gun.

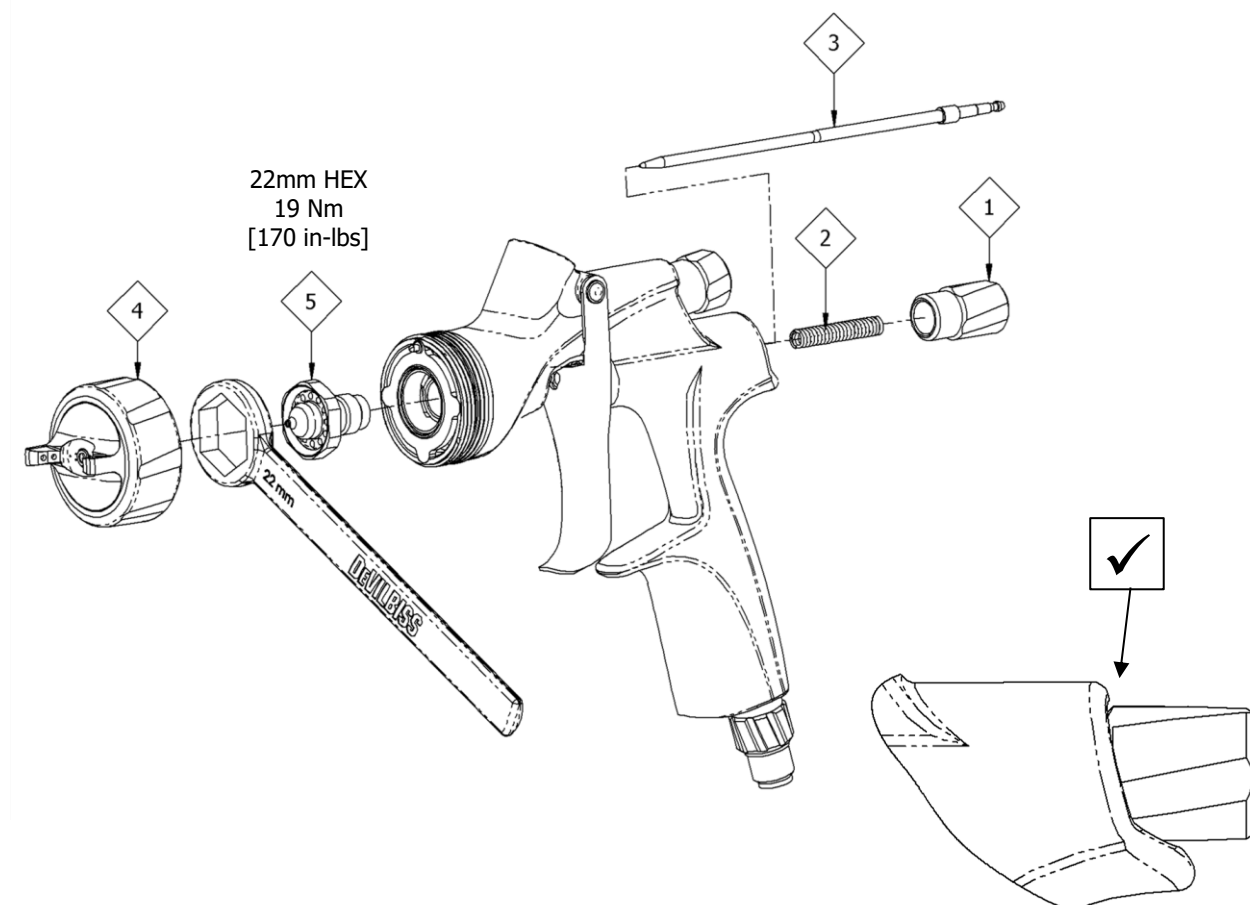
**WARNING**

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 10^6 Ohms is required.

SPRAY GUN DISASSEMBLY / ASSEMBLY

KEY	
	Order for disassembly (reverse for assembly)

DISASSEMBLY TIP & NEEDLE



NOTE

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

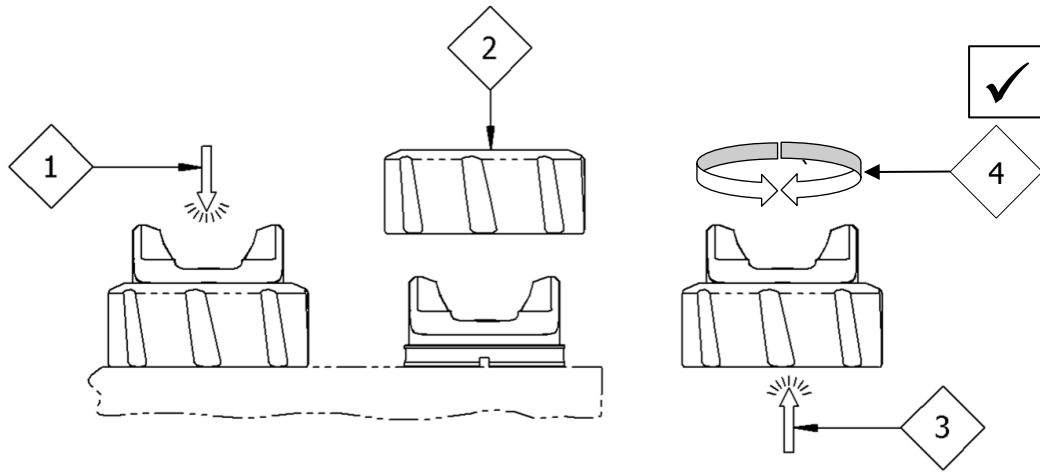
NOTE

When removing the air cap from the retaining ring, take care not damage any plastic components also inside the ring.

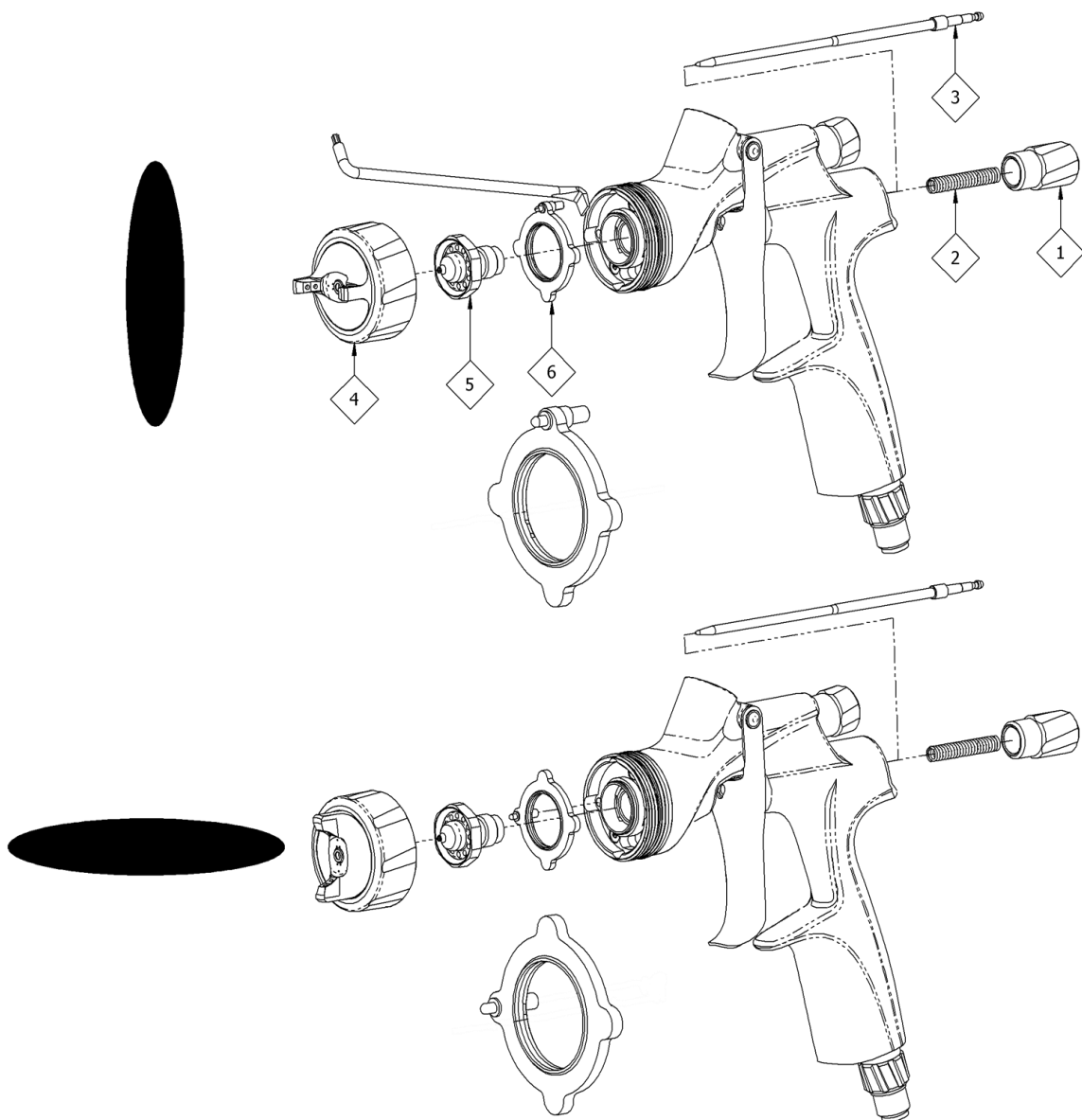
They are not available as separate spare parts

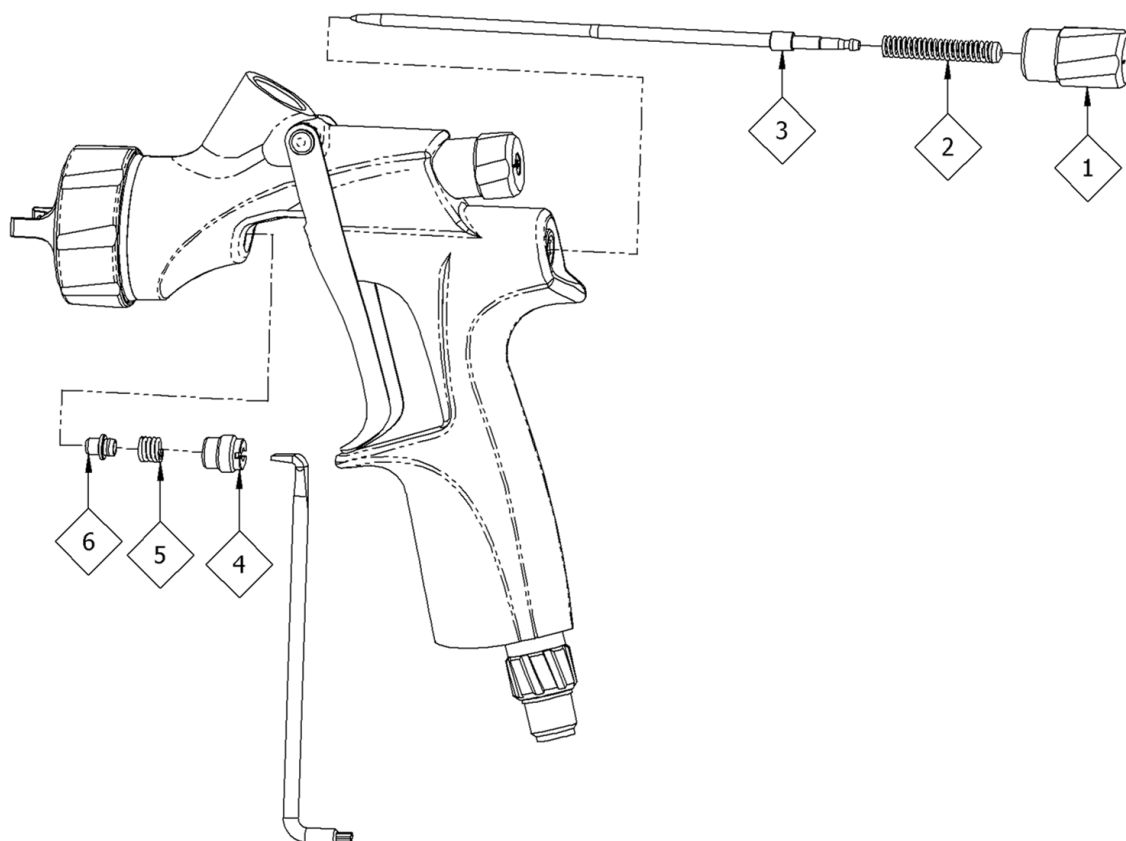
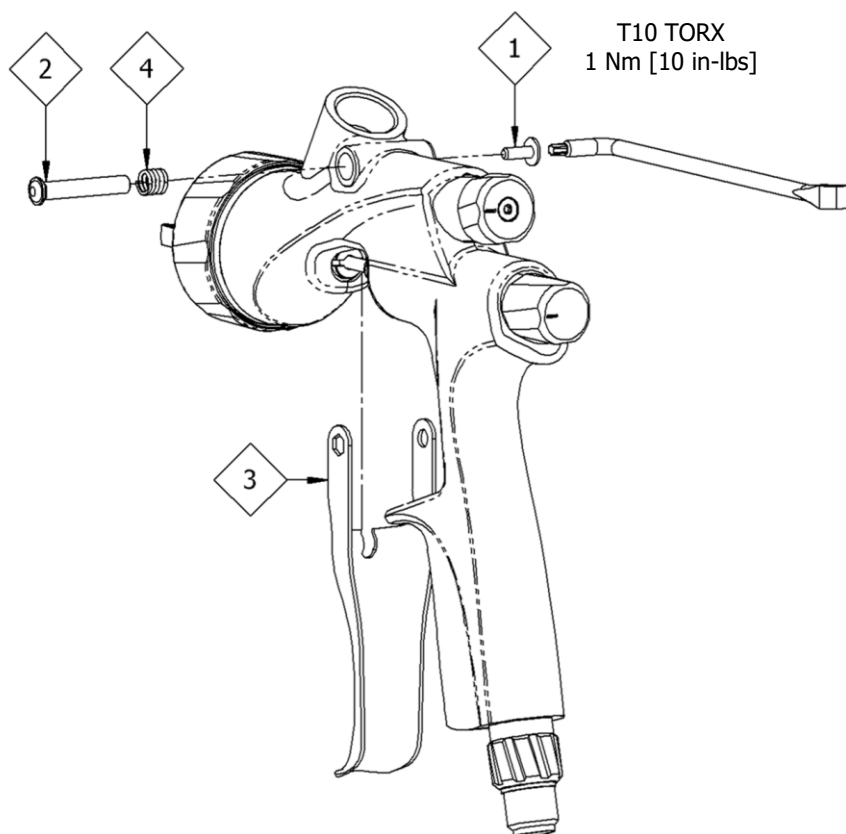
Simply wipe parts clean and reassemble with new or clean air cap.

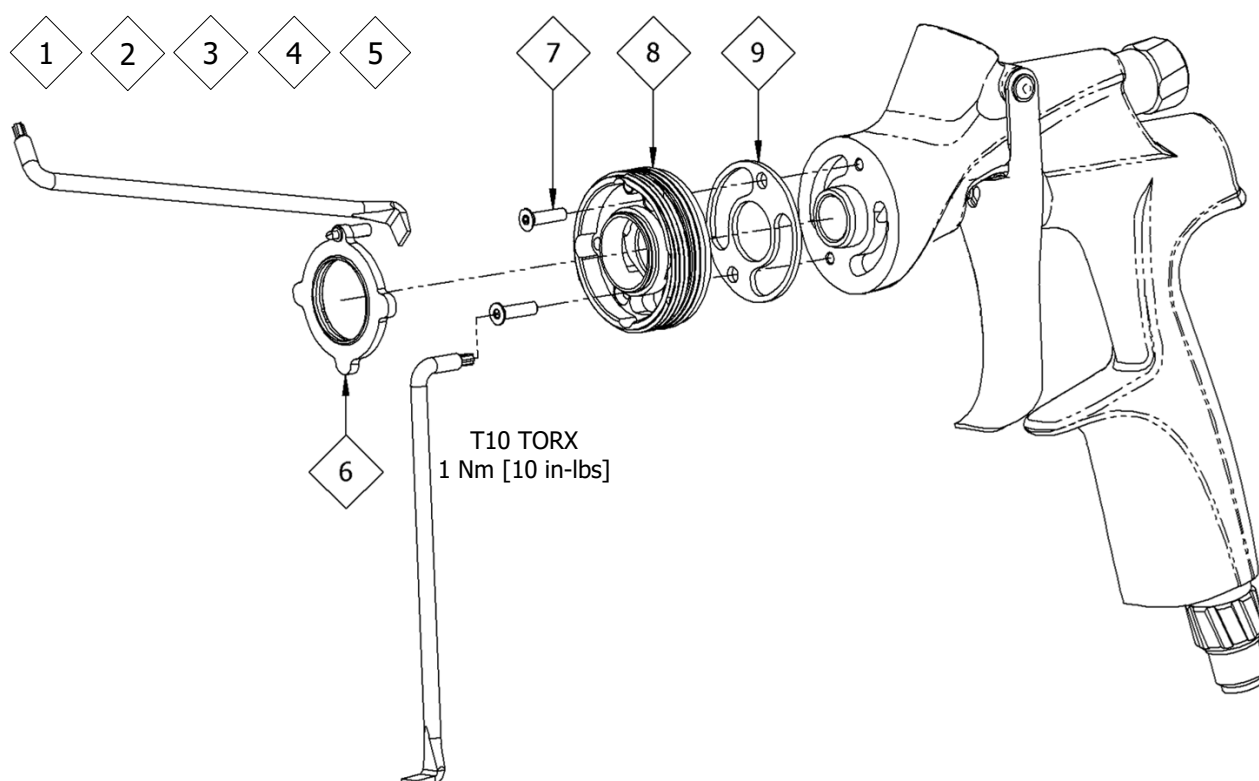
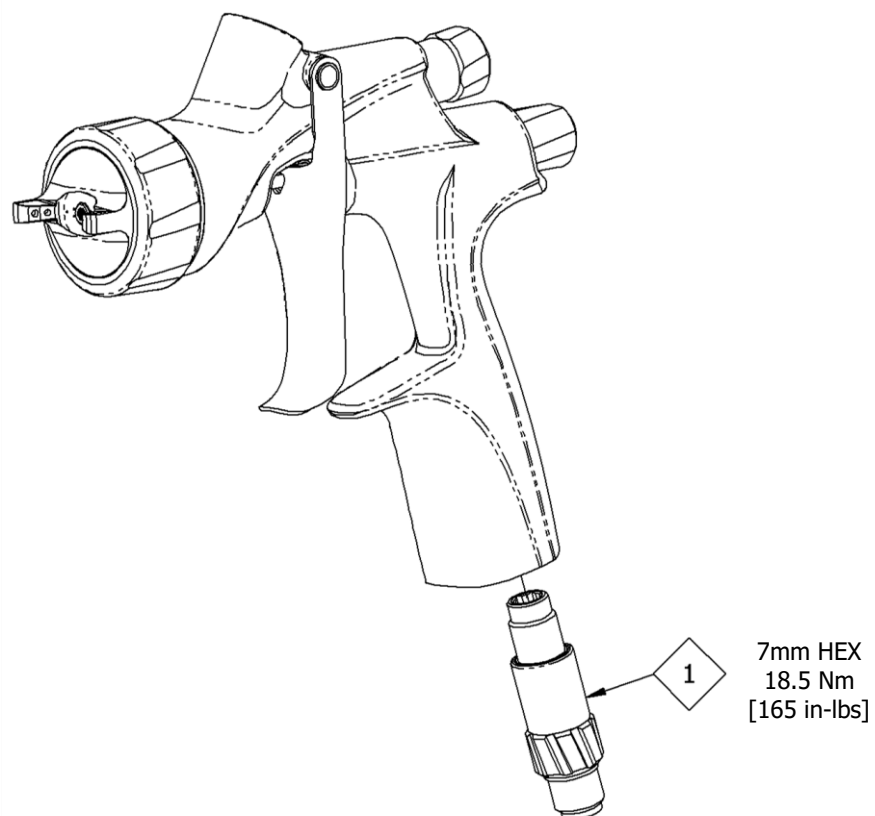
AIR CAP DISASSEMBLY AND ASSEMBLY

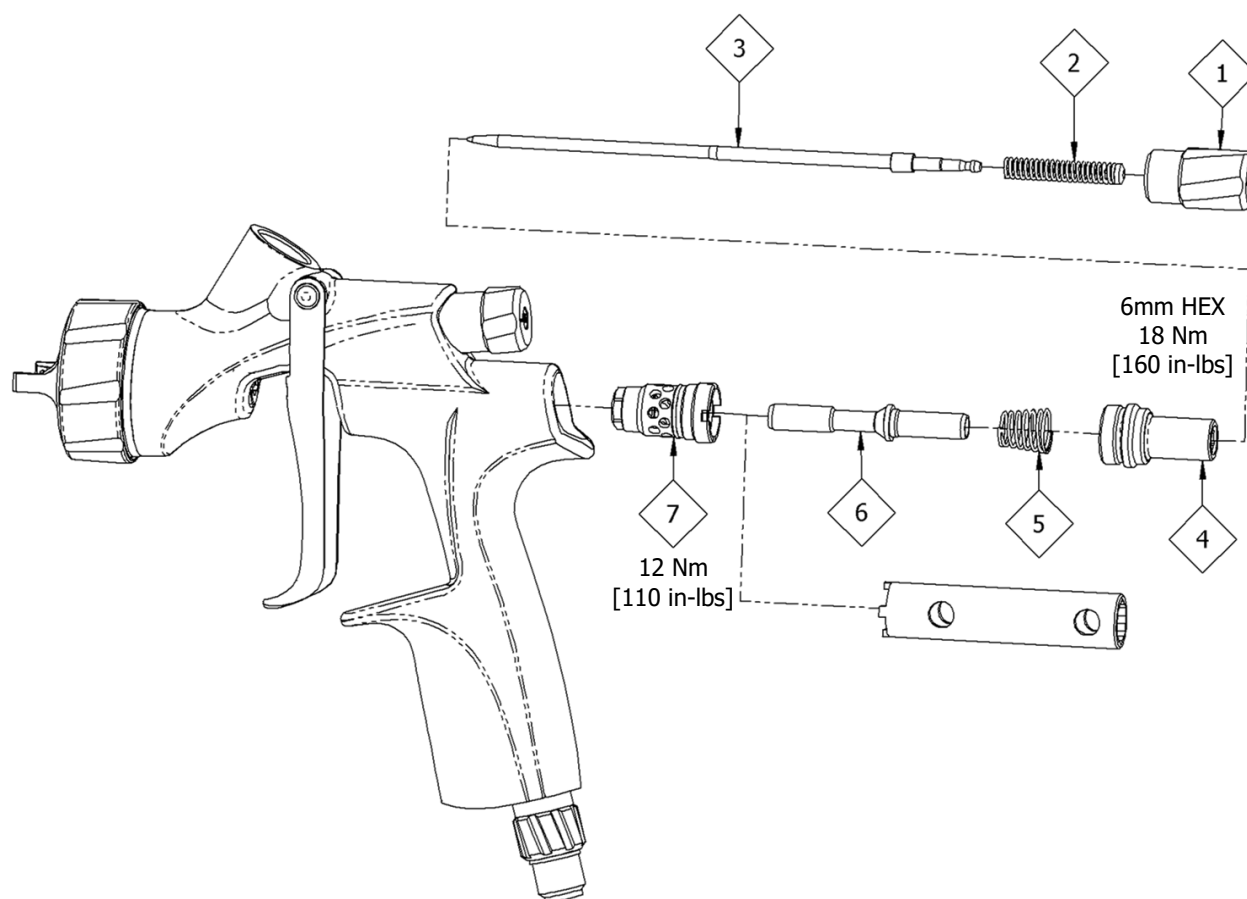
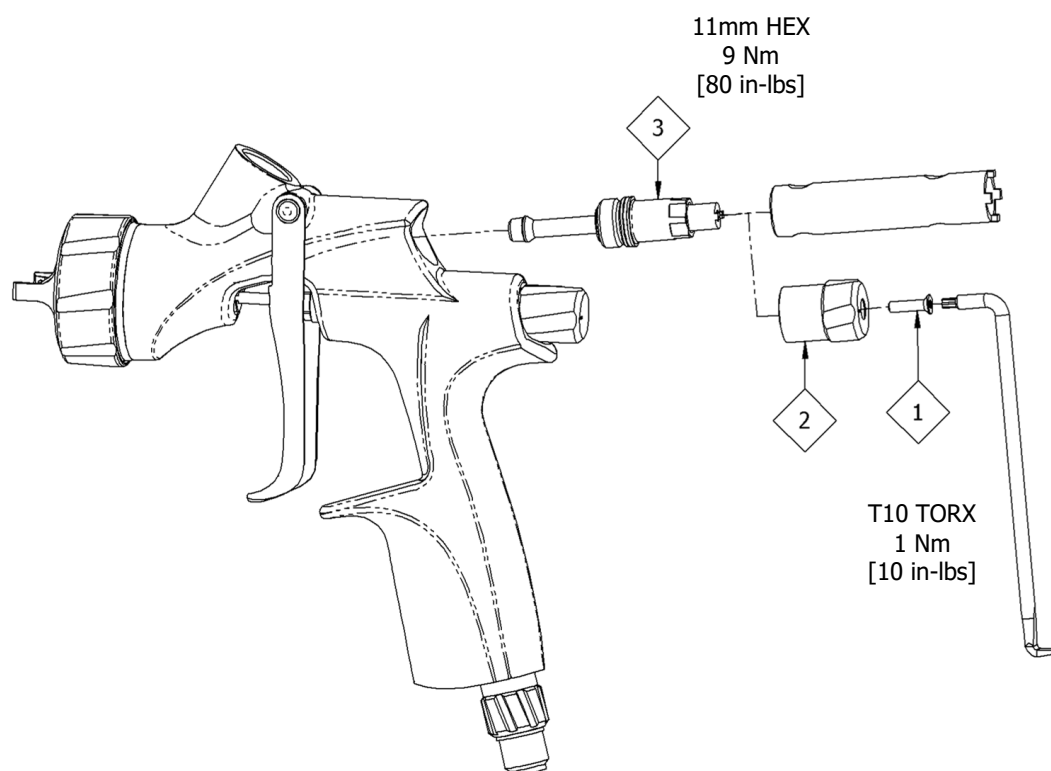


AIR CAP INDEXING



DISASSEMBLY PACKING**DISASSEMBLY TRIGGER**

DISASSEMBLY SPRAYHEAD**DISASSEMBLY FLOW VALVE**

DISASSEMBLY AIR VALVE**SPREADER VALVE REPLACEMENT**

TROUBLESHOOTING MECHANICAL PERFORMANCE

GENERAL FAULTS	CAUSE	CORRECTION
Will not spray.	No air pressure at gun.	Check air supply and hose. Check handle air flow valve is open (if fitted)
	Fluid needle adjustment knob not open enough.	Open fluid needle by rotating needle knob counter-clockwise
Gun spits paint when triggering on and off.	Incorrect needle fitted to gun.	Check fluid nozzle/needle selection chart and fit correct item.
	Excessive needle wear.	Replace with new needle.
	Excessive fluid tip wear.	Replace with new fluid nozzle.
Gun spits paint when triggering on due to paint build-up inside air cap between spraying operations.	Fluid tip not fitted correctly in gun head.	Check nozzle and head sealing surfaces for damage and/or tighten
	Fluid tip/needle leakage.	Check for damage or blockage.
Paint build-up on fluid tip.	Fluid tip not fitted correctly in gun head.	Check nozzle and head sealing surfaces for damage and/or tighten
	Fluid tip/needle leakage.	Check for damage or blockage.
Paint build-up on air cap exterior	Damaged air cap holes.	Replace with new air cap.
	Gradual build-up of bounce-back on gun head.	Thoroughly clean air cap & check booth air flow
Unable to get round spray	Fluid tip or sprayhead incorrectly fitted.	Remove, check components for damage and refit correctly.

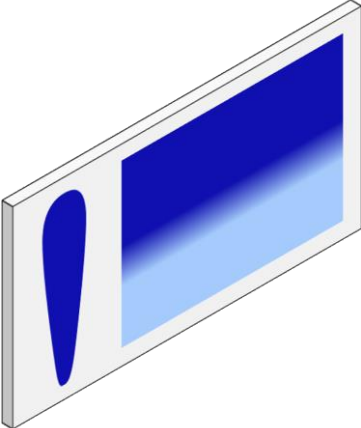
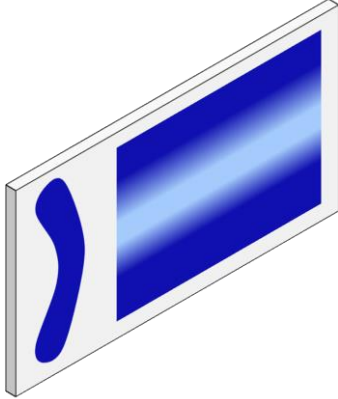
When removing the air cap from the retaining ring, take care not damage any plastic components also inside the ring. Simply wipe parts clean and reassemble with a new or clean air cap.

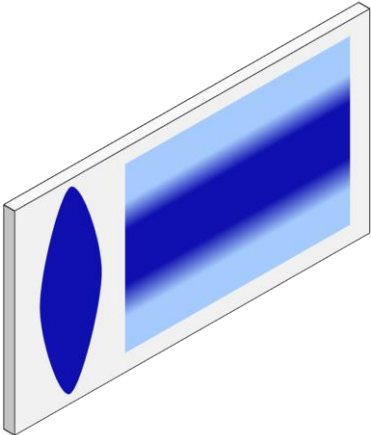
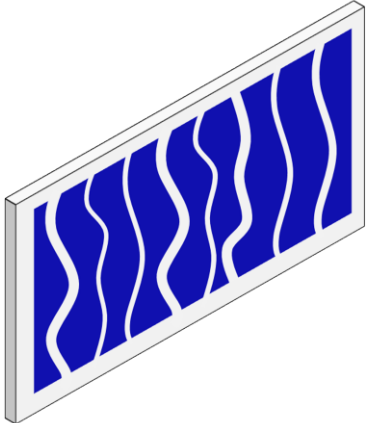
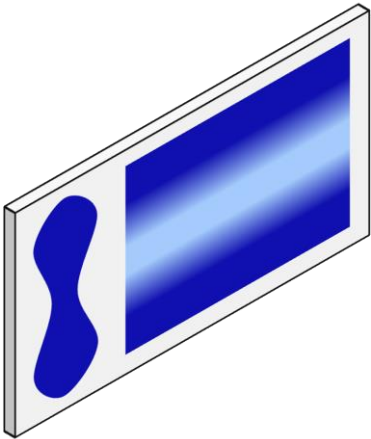
FLUID FAULTS	CAUSE	CORRECTION
Slow fluid leak from fluid nozzle and needle seat.	Fluid nozzle internal seat scored damaged or worn.	Replace.
	Fluid needle external profile damaged or worn.	Replace.
	Contamination on needle or nozzle mating surfaces preventing good seal.	Thoroughly clean.
	Incorrect fluid nozzle for fluid needle fitted to gun.	Check nozzle/needle selection chart and fit correct item.
	Slow needle movement.	Remove and clean or replace Needle Packing. Check Needle spring for damage or breaking.
Major fluid leak or fluid jetting from fluid nozzle and needle seat.	Incorrect fluid nozzle for fluid needle fitted to gun.	Remove nozzle and needle and thoroughly clean.
	Fluid needle packing worn or incorrectly fitted.	Check nozzle/needle selection chart and fit correct item.
Slow fluid leak from needle packing.	Fluid needle packing worn or incorrectly fitted.	Replace.

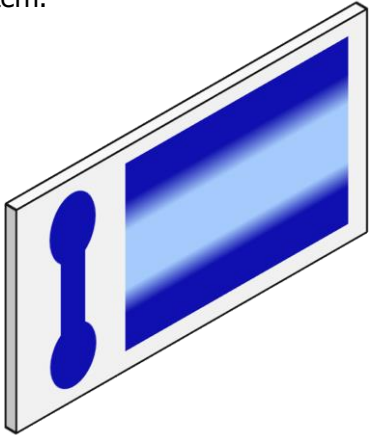
AIR FAULTS	CAUSE	CORRECTION
Small air leak from air cap when gun is not triggered.	Air Valve Stem contaminated and not correctly seating.	Remove Air Valve Stem and thoroughly clean valve shaft and seating surfaces.
	Air Valve Stem seal damaged or missing.	Replace.

CUP FAULTS	CAUSE	CORRECTION
Bubbles in the Cup.	Fluid nozzle not tight in gun head.	Tighten to 18.1 - 20.35 Nm
	Fluid nozzle or gun head sealing surfaces damaged.	Change fluid nozzle or contact CFT Customer Services Department.
Fluid leak from Cup thread area	Cup not sealing into gun inlet correctly	Damaged or contaminated cup & gun sealing surfaces


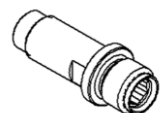
TROUBLESHOOTING SPRAY PERFORMANCE

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

<p>Heavy centre pattern.</p> 	Pattern adjustment valve set too low.	Turn out counter clockwise to achieve correct pattern.
	Too much paint or coating.	Reduce fluid flow by turning fluid needle adjusting screw clockwise. Reduce fluid pressure.
	Paint or coating too thick.	Thin to correct consistency.
	Atomizing air pressure too low.	Increase air pressure.
<p>Intermittent or 'fluttering' spray fan.</p> 	Loose fluid nozzle.	Tighten.
	Fluid nozzle not seated correctly in gun head.	Remove fluid nozzle, clean components, check cone seating on tip and gun for damage or contamination.
	Partially obstructed fluid passage or hose.	Clean or replace.
<p>Split spray pattern</p> 	Not enough paint or coating flow.	Increase fluid flow by changing fluid nozzle 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 quantity used.	Reduce input air pressure.

<p>Ball end heavy pattern.</p> 	Too much fluid flow.	Change fluid nozzle for smaller size or change air cap for different specification air cap.
Excessive bounce-back.	Too much atomization air pressure.	Reduce air pressure.
	Gun too far from surface.	Check distance (normally 150-200mm [6-8"]).
Runs and sags.	Too much fluid flow.	Adjust gun or reduce fluid pressure.
	Paint or coating too thin.	Mix properly or apply light coats/reduce fluid flow.
	Gun tilted at an angle.	Mount gun at right angle to work.
Thin, sandy coarse finish drying before it flows out.	Gun too far from surface.	Check distance.
	Too much air pressure.	Reduce air pressure and check spray pattern.
	Fluid flow too low.	Increase fluid flow by changing fluid nozzle size, supply pressure or turning needle control knob counter clockwise.

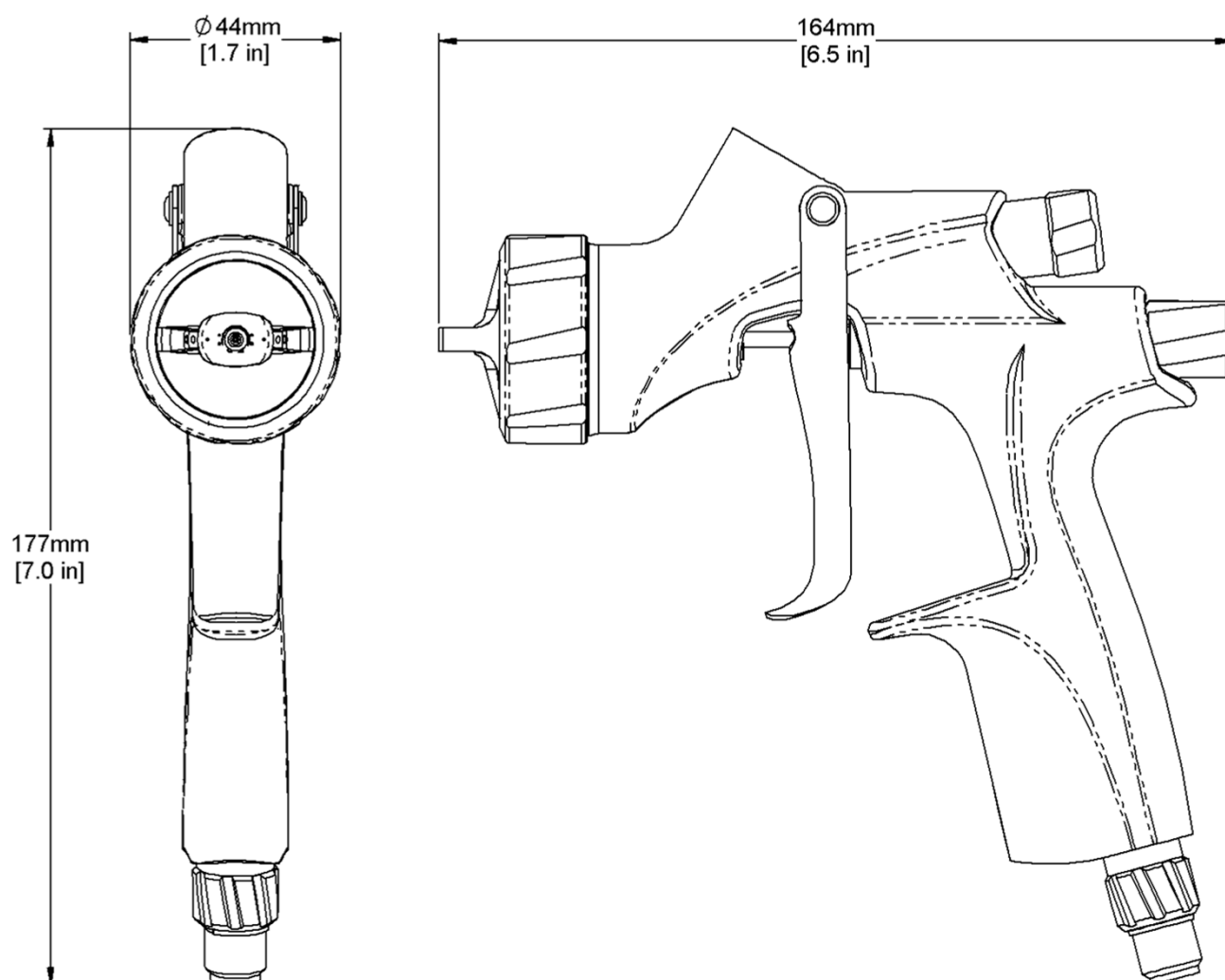
ACCESSORIES

PART No.	DESCRIPTION	
DVXK-410	NON INDEXING BAFFLE PLATE	
DVXK-407	AIR INLET	

AIR CAP TEST KITS				
Part Number	Air Cap & Type		***Recommended Air Inlet Pressure	Atomisation Pressure
DVXK-G1T	G1	HVLP PLUS	2.0 bar [29 psi]	0.69 bar [10 psi]
DVXK-G2T	G2	HVLP PLUS	2.0 bar [29 psi]	0.69 bar [10 psi]

*** (with gun fully triggered)

DIMENSIONS



WARRANTY POLICY

This product is covered by Carlisle Fluid Technologies' materials and workmanship limited warranty. The use of any parts or accessories, from a source other than Carlisle Fluid Technologies, will void all warranties. Failure to reasonably follow any maintenance guidance provided, may invalidate any warranty.

For specific warranty information please contact Carlisle Fluid Technologies.

For technical assistance or to locate an authorised distributor, contact one of our international sales and customer support locations below.

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