

NO  
COMPRESSOR  
REQUIRED

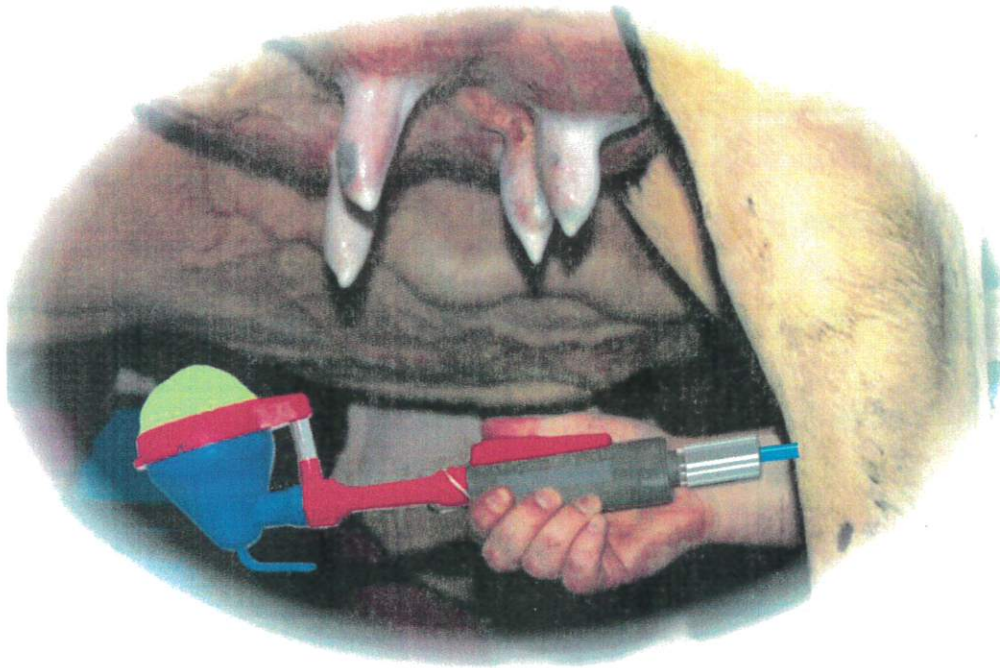
# CID LINES

## PURE FOAMER

PRE-MILKING TEAT FOAMING SYSTEM

CID Lines Part Number 0.9.399.01.000

INSTALLATION INSTRUCTIONS  
USER MAINTENANCE & SERVICING MANUAL  
SPARE PARTS LIST



*PURE FOAMER IS AVAILABLE ONLY FROM:*

**CID LINES N.V.**

Waterpoortstraat 2 - 8900 Ieper - Belgium

T BE +32 (0)57 21 78 77

T (UK) 07801 811766

F +32 (0)57 21 78 79

[info@cidlines.com](mailto:info@cidlines.com)

[www.cidlines.com](http://www.cidlines.com)

PureFoamer Spares are available from Cotswold Dairy Equipment

CE

MADE IN ENGLAND

**VACUUM KIT CONTENTS - IN THE BOX...**

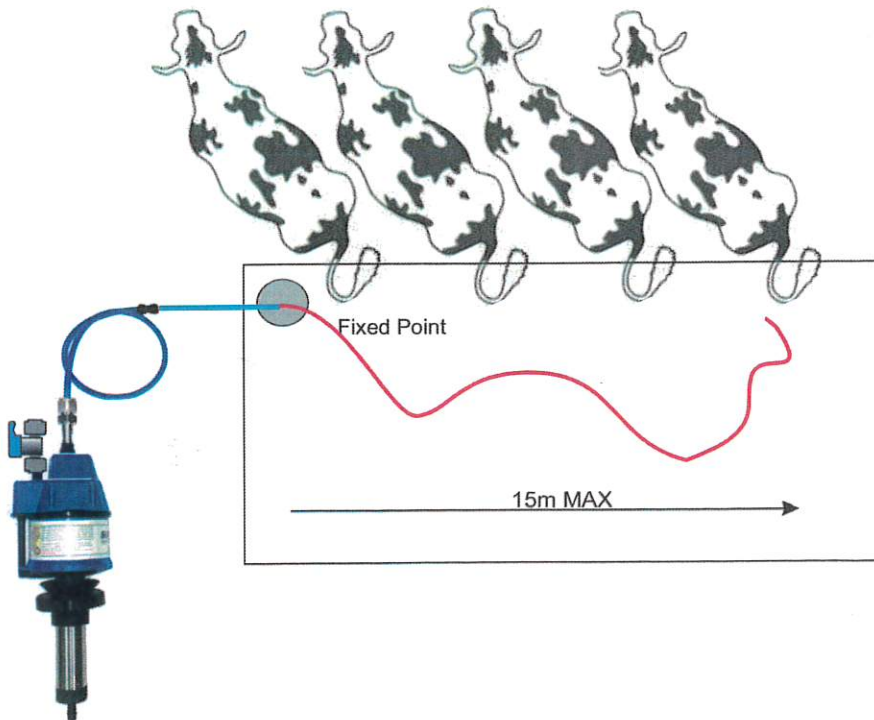
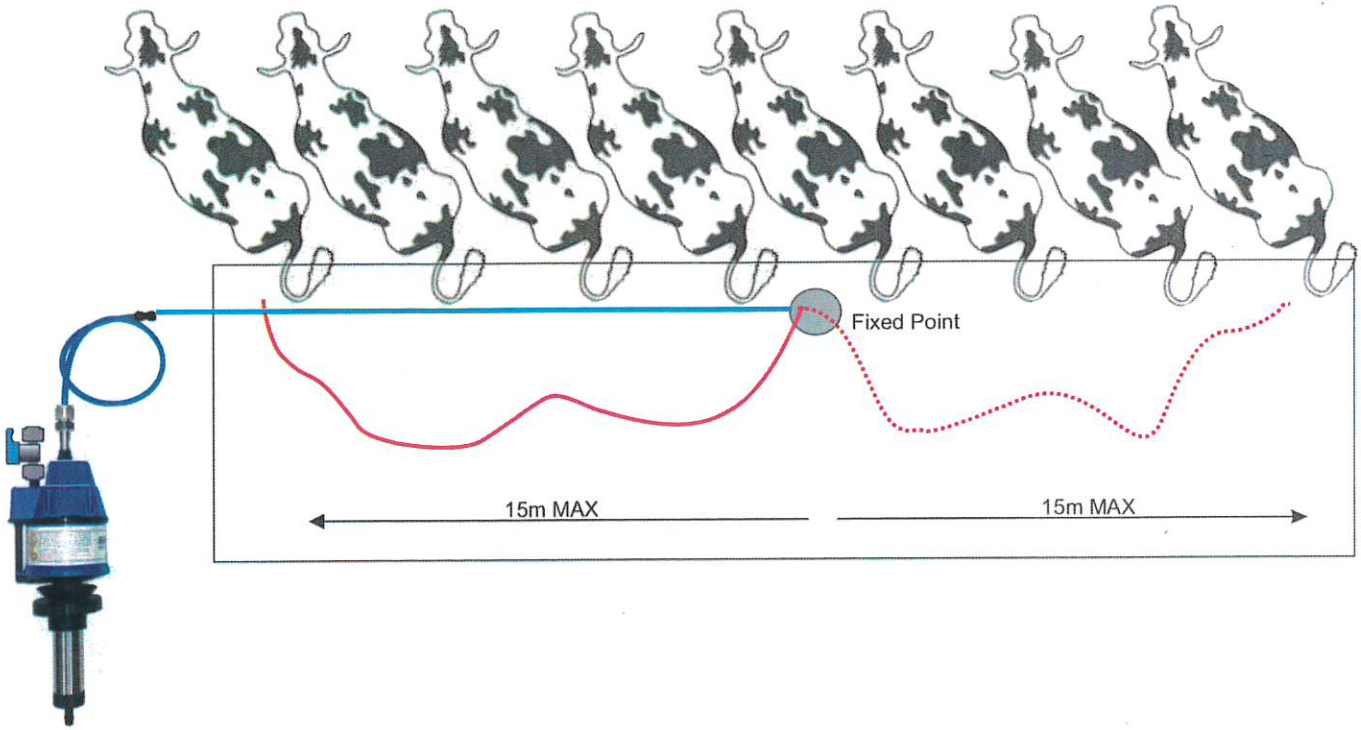
CONTENTS IN BOX	PART NUM	
SupaSpray Vacuum Pump with 12mm Stainless steel outlet	SUPA12	 <p>x 1</p>
Bottom Hose and Filter Assembly	SUP11	 <p>x 1</p>
Vacuum Connector (Grommet Sleeve) 14.2mm	390-302	 <p>x 1</p>
Elbow 12mm Push Fit x 12mm Stem	350-319F	 <p>x 3</p>
Connector 12 x 12 push fit	350-317F	 <p>x 2</p>
Mounting Bracket for Supaspray Hose Clip 35 - 50mm, all stainless	VS501 CF63	 <p>x 1</p>

**FOAMING GUN SYSTEM - IN THE BOX...**

CONTENTS IN BOX	PART NUM	
Foaming Gun Body	FO26BSS	 x 1
Foaming Gun <i>Head</i> Complete including discs and seal	FO27	 x 2
Drag Line 14mm x 15 metres Red	FO21R15	 x 1
Tubing 12mm x 40 metres Ldpe Blue	351-109	 x 1
Tee 12 x 12 x 12mm Push Fit	350-318F	 x 1
Tap 12mm Push Fit	350-315F	 x 2
Connector 8mm x 12mm Push Fit	350-120F	 x 1
Hose Clips 9 - 12mm all stainless	CF53	 x 4
Gun Support Bracket	FOBRKT	 x 2

# RECOMMENDED LAYOUTS

CID LINES  
**PURE FOAMER**

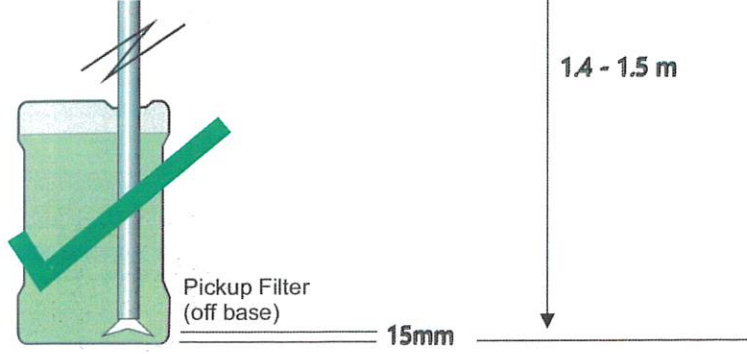
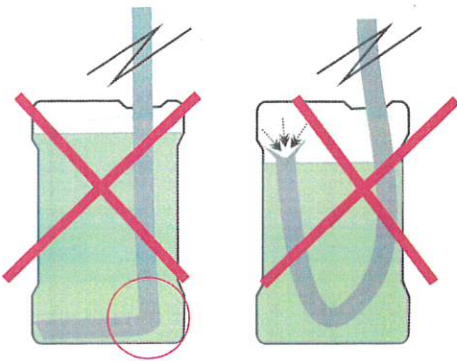


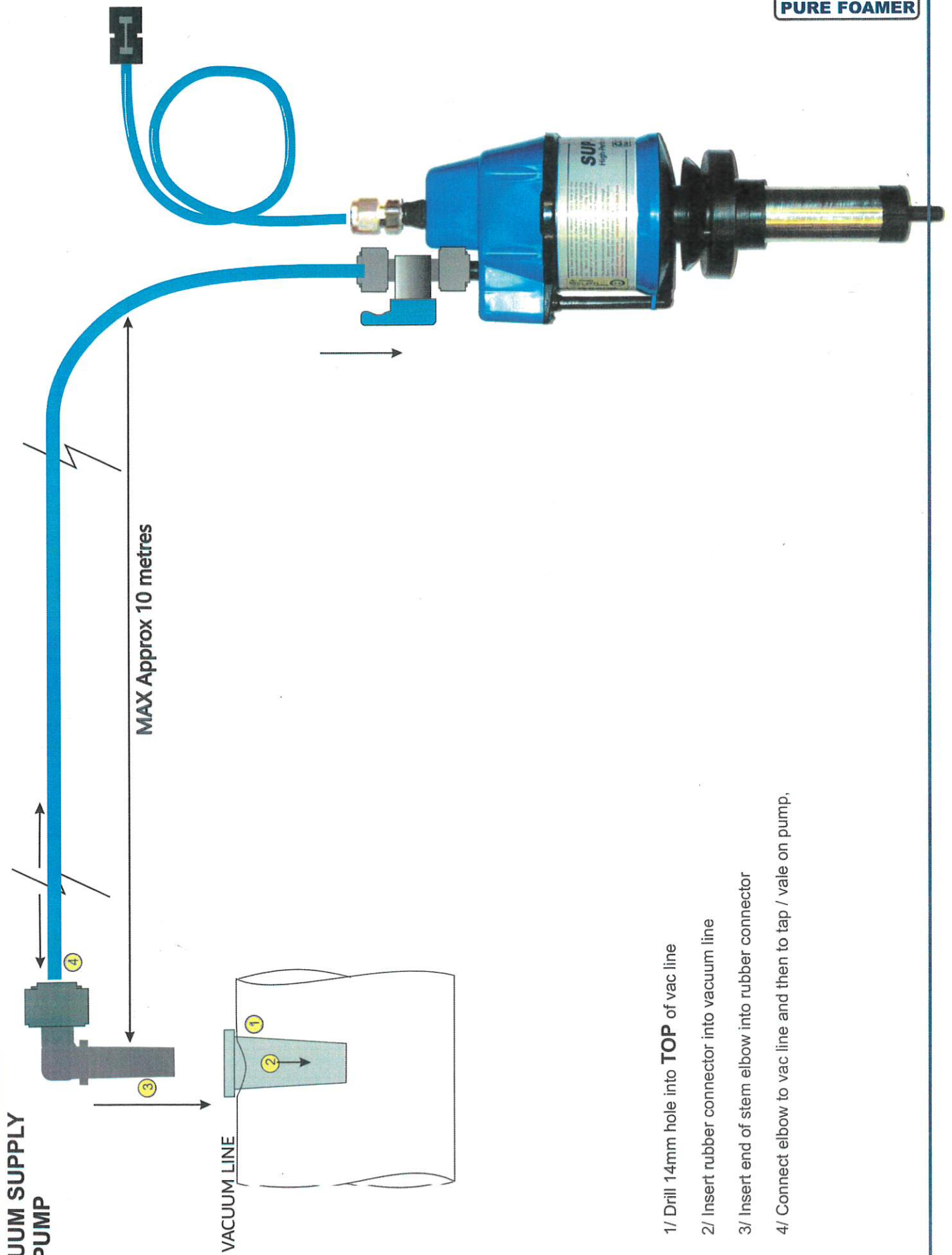
# INSTALLING SUPASPRAY PUMP

CID LINES  
**PURE FOAMER**



SEE SUPASPRAY MANUAL  
FOR ADDITIONAL  
INFORMATION





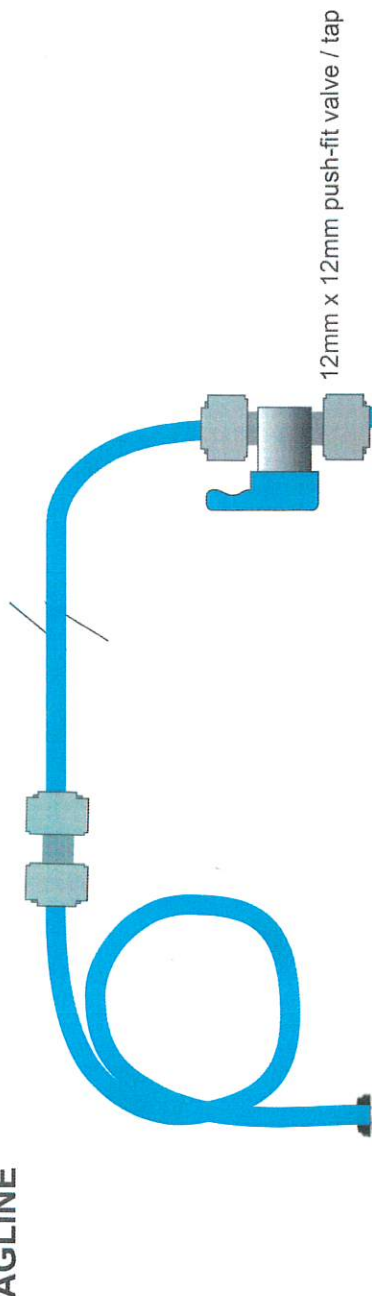
- 1/ Drill 14mm hole into **TOP** of vac line
- 2/ Insert rubber connector into vacuum line
- 3/ Insert end of stem elbow into rubber connector
- 4/ Connect elbow to vac line and then to tap / vale on pump.

**VACUUM SUPPLY  
 TO PUMP**

**VACUUM LINE**

**MAX Approx 10 metres**

SUPPLY PUMP  
TO DRAGLINE



CID LINES  
**PURE FOAMER**





## CHEMICAL USE

CID LINES  
**PURE FOAMER**

The CID Lines Pure foamer is a pre-milking foaming system for use on cows' teats in the milking parlour.

For best results only CID Lines Keno Pure should be used.

Correct Mixing of Keno Pure is essential

**40% chemical to 60% tap water**

**( 1 x chemical : 1½ x water )**



### TECHNICAL SPECIFICATION

Name	Product identifier	%	Classification according to Directive 67/548/EEC
Lactic acid	(CAS No)79-33-4 (EC no)201-196-2 (REACH-no)01-2119474164-39	< 10	Xi; R41 Xi; R38

- Only use products suitable for pre-milking dipping and foaming on cows' teats in the milking parlour
- Use products that will not damage teat condition
- Use clean potable tapwater for mixing
- PH of the mixed solution should be 4 - 6

### SAFETY FIRST

Always read and follow the chemical manufacturer's safety advice on their label  
Wear safety glasses and protective gloves when handling or using any agricultural chemical.

### **Starting the system for the first time:**

- 1.) Check all connections are tight
- 2.) Mix the correct chemical in the drum
- 3.) The foaming gun is shut off
- 4.) Switch on the vacuum to the pump
- 5.) The pump should pump rapidly and stop when it reaches pressure
- 6.) If the pump fails to stop there is a leak somewhere
- 7.) When the pump is stopped

Take off the foaming head from the gun

Activate the gun to pump chemical into a container

When all the air is out of the system, refit the foaming head, making sure the small disc and seals are in place

Press the trigger until a good foam is produced

A good foam will remain in the cup for 4 - 5 secs when the cup is turned upside down

### **Operating instructions for best Performance:**

- 1.) Always use the foamer in such a way as to stop the foam turning to liquid
- 2.) Get teats down to the bottom of the foam cup to use the wetter foam
- 3.) Make sure the foaming cup is as empty as possible before hanging up between rows of cows.
- 4.) To foam press the trigger down fully and quickly
- 5.) When you have sufficient foam in the cup, release the trigger fully and quickly
- 6.) Never keep the trigger half open, this will produce a mixture of foam and liquid
- 7.) Never press the trigger with teats in the cup

## FOAMER FAULT

CID LINES  
**PURE FOAMER**

Make sure milking vacuum is 40kpa – 50kp

**Good foam** – Will stay in the upturned foam cup for 5 – 10 second

**Poor foam** -- Will be wet and fallout of upturned foam cup

### **Good Foam Turns to liquid:**

The Foamer is not being used correctly.

Correct use:

Get teats into the bottom of the cup to use the wetter foam

Make sure the foaming cup is almost empty before hanging up between rows of cows.

To foam press the trigger down fully and quickly

When you have enough foam in the cup, release the trigger fully and quickly

Do not keep the trigger half open

Don't press the trigger with teats in the cup

### **Poor Foam:**

Check the chemical mix

Check the chemical mix

Check the chemical mix

### **The Foamer will not produce good foam if there is air in the system.**

Air will get into the system:

During installation – bleed the system after installation.

If the Chemical runs out – bleed the system after refilling the chemical.

Servicing the pump or guns – bleed the system after maintenance.

### How to bleed air from the system:

Make sure the milking parlour is at milking vacuum

Remove the foaming head from the gun – be careful not to lose the seal and disc from the head.

Press the gun trigger, discharge chemical into container – (this chemical can be used again).

You will see bubbles come out with the chemical.

There should be a good pressure when the gun is activated.

The chemical should run clear – you may need to run it a long time on a big system.

Run plenty of chemical out - it can be used again.

When chemical runs very clear at good pressure and good flow - attach the foaming head. Make sure the jet disc and the seal are correctly fitted.

The gun should produce good foam.

Try both the red and brown discs - use the disc which produces the best foam.

### **Chemical running clear at good pressure and good flow but poor foam**

Strip Foamer head, clean and try again

Try a new Foamer head

### **Chemical not running clear, poor flowrate or poor pressure**

Check vacuum line connection must have 14mm hole.

Vacuum supply line needs to be max 10m. Longer pipe needs bigger diameter pipe.

Look for leaks or restrictions in the vacuum supply line.

Check suck up pipe for holes, leaks or restrictions.

Check for air leaks at bottom of pump.

Rubbish blocking filter in chemical drum

Check for chemical leaks or restrictions between the pump and the gun







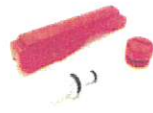
Make sure air can get into chemical drum but not dirt.

Pump needs servicing – try new pump to check











**KITS TO BE ORDERED FROM CID LINES**

Part No	DESCRIPTION	
<b>0.9.399.01.000</b>	<b>Foamer kit</b>	
<b>0.9.553.01.000</b>	<b>Dipper Kit</b>	
<b>0.9.554.01.000</b>	<b>Sprayer kit</b>	

**PARTS TO BE ORDERED FROM CID LINES**


<b>Pumps</b>		
0.9.465.01.000	SupaSpray pump kit 12mm	
<b>Gun Bodies</b>		
0.9.456.01.000	Gun body with Stainless Steel fitting	
<b>Gun Heads</b>		
0.9.457.01.000	Foaming head complete	
0.9.459.01.000	Dipping head complete	
0.9.458.01.000	Flushing gun head only complete	
<b>Service Parts</b>		
0.9.466.01.000	Supaspray pump service kit	
0.9.467.01.000	Supaspray gun service kit	

**PARTS TO BE ORDERED FROM COTSWOLD DAIRY EQUIPMENT:**



Part No	Description	
<b>Pumps</b>		
Supa 12	SupaSpraY pump kit 12mm	
<b>Foamer Parts</b>		
FO26SS	Foaming Gun complete stainless steel fitting	
FO26	Foaming Gun complete push fit fitting	
FO27	Foaming head complete	
FO27A3	Foaming Gauze	
FO27B6	Red Disc	
FO27B7	Brown Disc	
FO27B8	Foam Lance Washer	
<b>Dipper Parts</b>		
DP26	Dipping gun complete	
DP27	Dipping head complete	
DP27C	Dipping head Gasket and Washer kit	

**PARTS TO BE ORDERED FROM COTSWOLD DAIRY EQUIPMENT:**




**Flushing Parts**

VS/26BF	Flushing gun complete push fit	
V26BFSS	Flushing gun complete stainless steel fitting	
VS27BF	Flushing gun head only complete	
VS/27C	Supaspray gun nozzle only stainless steel	
VS/28B	Supaspray gun lance flat washer 3mm	

**Gun Bodies**


VS/26B	Gun body with Push fitting	
VS26BSS	Gun body with Stainless Steel fitting	

**Gun Connectors**

VS/RED	Gun Connector plastic red	
VS7PF	Gun Connector 8mm push fit x 1/8" bsp male	
VS/7ST	Gun connector 1/4" BSP stainless steel	

**PARTS TO BE ORDERED FROM COTSWOLD DAIRY EQUIPMENT:**

**Straight Connectors**

VS/7APF	Connector 8mm push fit x 8mm push fit	
350-317F	Connector 12mm push fit x 12mm push fit	
350-120F	Connector 8mm push fit x 12mm push fit	
VS/29SC	Connector 8mm push fit x 10mm stem	
VS1210B	Connector 12mm stem x 10mm stem barbed	


**Elbows**

VS/6PF	Elbow 8mm pushfit x 8mm Pushfit	
350-130F	Elbow 12mm push fit x 12mm Push fit	
350-319F	Elbow 12mm push fit x 12mm stem	

**Tees**

VS/5PF	Tee 8mm x 8mm x 8mm pushfit	
350-318F	Tee 12mm x 12mm x 12mm push fit	

**Plugs**

VS/5C	Blanking Plug 8mm Male push fit	
VS/13	Blanking plug 12mm male push fit	

**PARTS TO BE ORDERED FROM COTSWOLD DAIRY EQUIPMENT:**

**Taps / Valves**

VS/65B	Tap 8mm push fit	
350-315F	Tap 12mm push fit	
VS/29V	Tap 12mm barbed inline Valve	
VS/30	Tap 1/2" BSP x 10mm Barb	

**Hose/Pipe**

FO21R15	Drag line 14mm x 15m Red	
VS/21	Tubing 8mm x 20m nylon blue	
VS/21B	Tubing 8mm x 30m nylon blue	
FO129	Tubing 12mm x 10m Lpde Blue	
351-109	Tubing 12mm x 40m lpde blue	



**PARTS TO BE ORDERED FROM COTSWOLD DAIRY EQUIPMENT:**

**Hose Clips**

CF53	Hose clip 9 - 12mm all stainless	
CF63	Hose Clip 35-50mm All Stainless	
CF64	Hose Clip 68-85mm All Stainless	

**Service Parts**

SUP22	Supaspray pump service kit	
VS32	Supaspray gun service kit	
VS37	Supaspray gun service spindles valves x 6	

# SUPASPRAY PUMP REPLACEMENT PARTS

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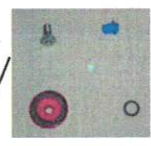
**SUP4**  
Cover Assembly



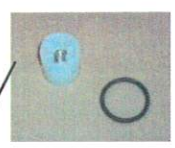
**SUP3**  
Stainless Steel  
Circlip (pack 2)



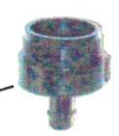
**SUP8**  
Upper Magnetic  
Valve Assembly



Chemical Seal Kit  
and Upper Non  
Return Valve

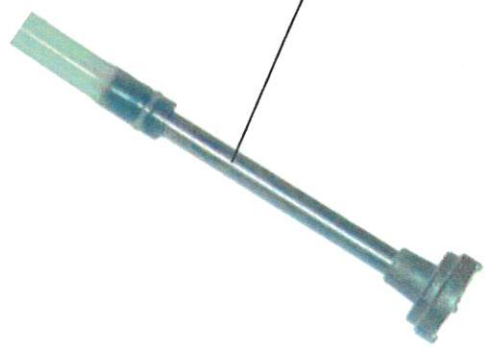


Non-Return  
Valve assembly



**SUP10**  
Bottom Hose Tail

**SUP11**  
Bottom Hose &  
Foot Filter Assembly



**SUP22**  
SUPA Service Kit

**SUPASPRAY FAST FAULT FINDER**

**Before you start, ensure that there is chemical in the drum!**

<b>PROBLEM</b>	<b>SOLUTION</b>
<b>The Pump Stops Moving</b>	
1/ Vacuum Supply may be blocked or restricted	Clear the blockage or restriction, ensure correct diameter vacuum supply tube is used
2/ The Magnetic Switch may be dirty or has failed	Clean the magnets or replace the mechanism (Sup 8). Always use a new circlip (Sup 3).
3/ The Circlip may be broken	Replace Circlip (Sup 3)
4/ The Vacuum Piston may be sticking	Remove the "L" Tube at the side of the body, and spray lubricant (eg Vacuum Oil) into the vacuum cylinder. Then work the lubricant into the system by manually operating the pump a couple of times.
<b>Pump is Moving but Not Spraying</b>	
1/ No chemical in the drum	Check the drum and if necessary re-fill it.
2/ Filters Blocked	Clean the filters on the suck-up tube (top & bottom).
3/ Bottom non-return-valve faulty	Unscrew the hose-tail, clean or replace the ball valve. (Sup22).
4/ Red piston seal may be damaged or worn	Replace the Red Piston Seal (Sup 22)
5/ Suck-Up Tube may be restricted or blocked	Clear the tube or replace it (Sup 11). The suck-up tube may be kinked inside the drum.
6/ Upper non-return-valve may be dirty	Unscrew the stainless screw from the end of the shaft – wash out or replace (Sup 2 2). Don't lose the little ball!
7/ Spray Guns may be blocked	Strip and clean
<b>Guns Spitting and Foaming</b>	
1/ There may be air in the system	Bleed the system as described.
2/ The Suck-up tube may be restricted	Clear or replace the Suck-Up tube (Sup 11). Ensure the Suck-Up tube is not kinked or restricted in the chemical drum.
3/ Red Piston Seal may be damaged or worn	Service. (Sup 22).
4/ Upper Non-Return-Valve may be dirty	Unscrew stainless piston from the end of the central shaft. Wash out or replace (Sup 22) Don't lose the ball !
5/ May be a hole in Chemical Lift Tube	Replace lift-tube assembly (Sup 11).

## **PARTS and SUPPORT**

To obtain Cotswold parts  
or for technical support,  
contact Cotswold...

**Cotswold Dairy Equipment  
Avenue 3  
Station Lane  
Witney  
Oxford  
OX28 4BP  
UK**

**(Office): +44 (0)1993 774567**

**or**

**(Steve) +44 (0) 7725 24138**

**[sales@cotswold-dairy.co.uk](mailto:sales@cotswold-dairy.co.uk)**

**[www.cotswold-dairy.co.uk](http://www.cotswold-dairy.co.uk)**