

# **CLUSTER-FLUSH**

## Milking Cluster Disinfection System ROTARY PARLOUR



# **Installation Manual**

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> **CE** MADE IN ENGLAND

AIR SUPPLY





CHEMICAL ENTRAINMENT (option)



FLEXIBLE PIPE RUN



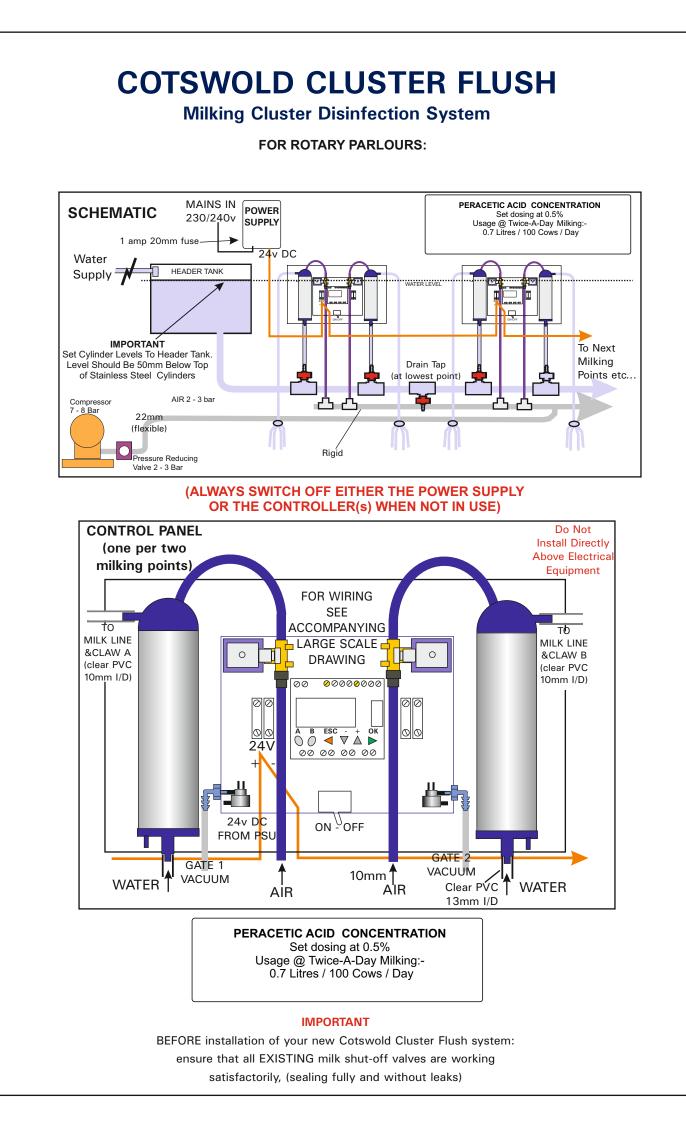
WATER INLET SYSTEM



HEADER TANK (Note: Level With Cylinders)



CONNECTION TO MILK LINE (Y Piece)



#### **INSTALLATION NOTES**

#### **ORDER OF INSTALLATION**

For ease of installation we recommend the following installation sequence:-

- 1/ Header Tank(s)
- 2/ Water / Plumbing
- 3/ Set Up Water Cylinders
- 4/ Install Airlines
- 5/ Controllers and Electrical

#### WATER / CHEMICAL

Site the Header Tank at the same level as the cylinders. Ensure that the water level in the cylinders is set 50mm (2 inches) below the top of the stainless tube, (see drawing opposite).

Run 2 inch (50mm) water tube from header tank along the centre of the parlour, connecting to every cylinder using tees, taps and 10x16mm i/d tube. Terminate this tube with a reversed (upside-down) tee/tap so that it can be used as a drain point if required.

#### **Chemical Dosing**

We can supply Dosatron high accuracy dosing units if required. When dealing with chemicals, do take <u>all</u> recommended precautions. Before commissioning the system, ensure all unions are tight and the clusters hang correctly

# AIR 2 - 3 bar, (pressure reducer may be required)

Use 22mm Flexible Tubing between the compressor (clean air filters should be fitted) and the first 22x22x10mm tee located adjacent to the first controller. Continue to following controllers using *rigid* tubing. Terminate the air line in a blanking cap.

#### Anti Syphon Valves

fit one value either side of the Tee connection of air line, at the mid-point of each half (see schematics)

#### Pressure Reducer

We can supply a suitable pressure reducing valve if required.

#### ELECTRICAL

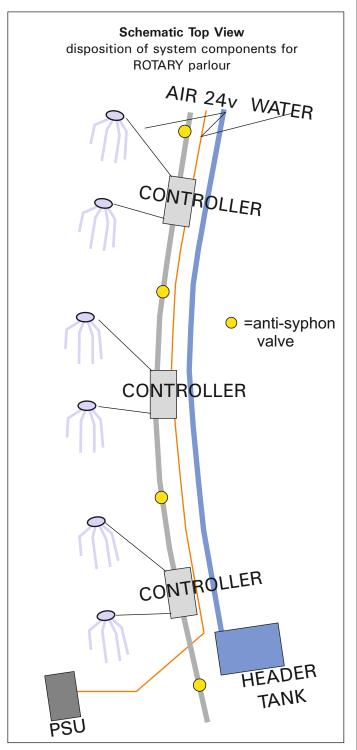
Locate Power Supply Unit (PSU) in a safe dry location, run 24v supply to first controller, and then daisy-chain the supply from controller to controller.

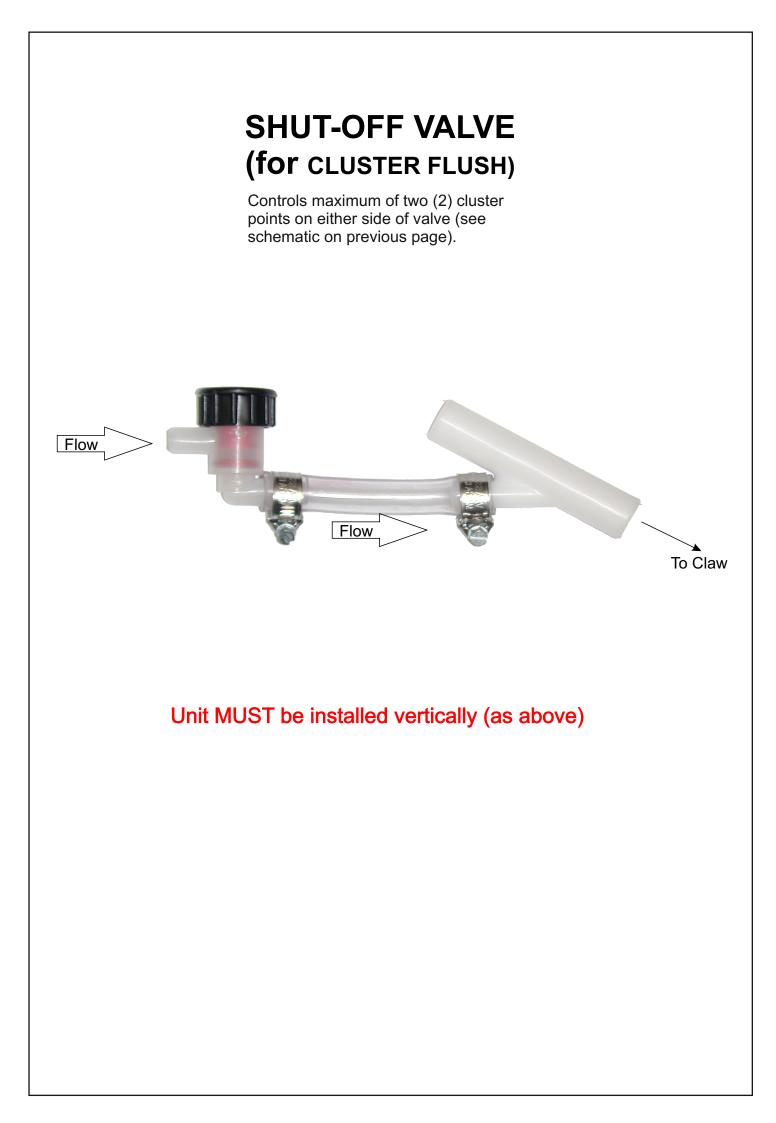
Each controller controls two milking points simultaneously.

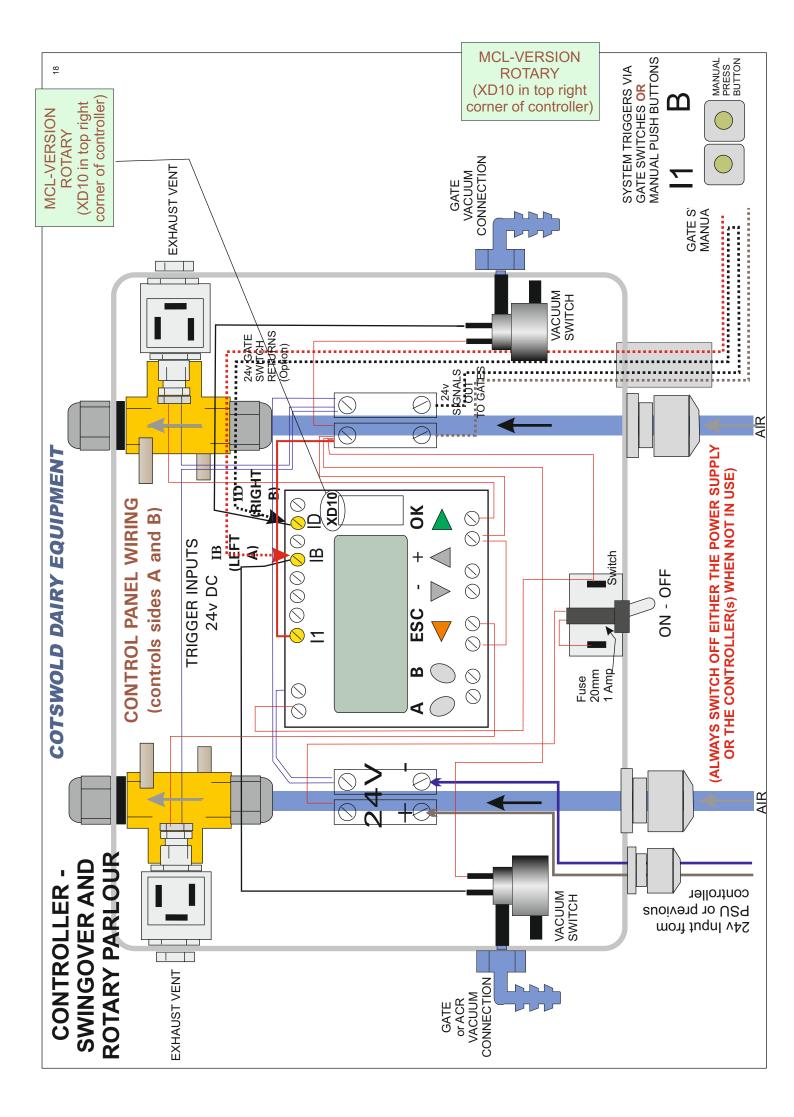
Arrange a convenient switch to turn off the system when not in use. Always switch off system when washing the parlour

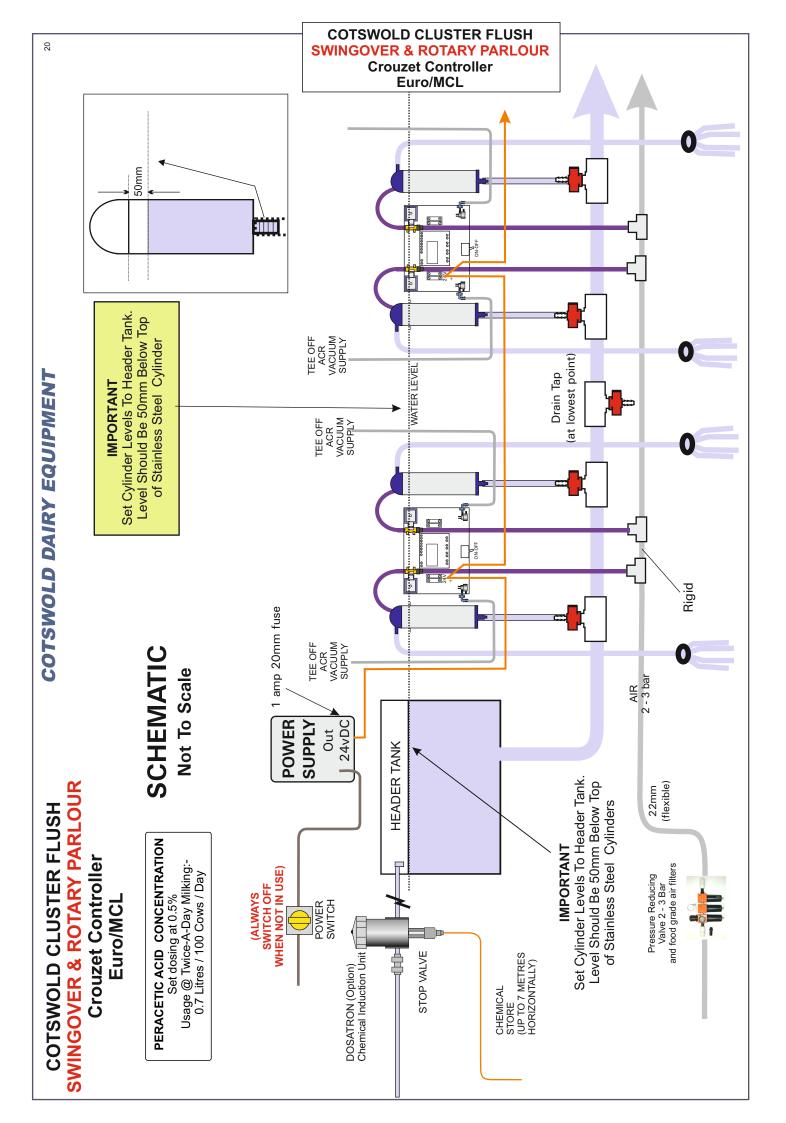
#### CONNECTION TO MILK LINE

Cut into the milk line and and fit the "Y" piece moulding using 13mm pvc tubing connecting to upper horizontal outlet of stainless steel cylinder.









## ACCESSING TIMING PARAMETERS MCL CONTROLLER (XD10)

(If interrupted, this version will continue from where it was interrupted and complete the cycle. Inputs I2 and IC).

To open main screen, press the "-" (minus) button twice.

To access any sub-menu Press OK Then A then either "+" or "-" to move between sub-menus

#### 2. Sub Menu 1 = Milk Sweep Setup

2a. When finished, press esc

#### 3 Timer Setup - Maintenance

(Change Timings)

(a) Initial DelayMilk SweepFlush DelayFirst FlushFill TimeSecond Flush

#### 3. Maintenance Help

Shows "A" Solenoid Function

#### 4. Help - Version (call dealer)

#### 5. Software Version

No. eg: R5-4-M5













Manuals/BackFlush/MASTERFILES-SwitchControllerSetup-Crouzet-MCL.pdf



#### Other parts you may find useful to have with you when servicing a cluster Flush system.

10 mm i/d x 16mm o/d hose (30m) 10mm i/d x 20mm o/d hose (30m) 13mm i/d Hose (30m) Herbi Clips 16mm Herbi Clips 20mm 10 MM Jubilee clips Brackets for pressure vessels Brackets for pressure vessels	151-127 . 151-118 154-153B 154-154C 154-159A CF 38A
Brackets for pressure vessels Brackets for swing over control box	
Taps	

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### Service interval:

#### 3 Years

At 3 years, the following service parts should be fitted (in addition to Annual Servicing)

Service Part: Cylinder Service Kit: Part No CF 99 (See picture below) CF 99 - Replaces all the internal parts of the pressure vessel. Order one Service Part per Milking Point: example: 10 x 20 order 10, or 20 x 20 order 20

#### Replacing the complete vessel assembly is:

Assured:Complete assembly factory-tested before dispatch.Quick:Internal parts exchanged in-place without moving vessels.Simple:No small parts to take apart. No leaky re-assembly.Warranty:We will give 3 years warranty on serviced assembly.

#### \*\* See video of service procedure on our Website\*\*

**Additional Non-Return Valve:** You will also need to replace the external nonreturn valve, which is included in the service kit.

You may want to change flexible tubes during the service

30 Metres 10mm tube - 151-102B

30 Metres 13mm tube – 151-118

30 metres 20mm tube - 151-127

Thoroughly rinse out header tanks and pipe work with alkaline cleaner.

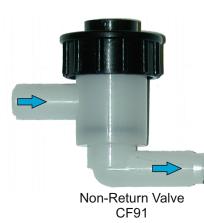
Check water levels: (See picture)

- o Water level must be level with or just below top label on the vessels.
- o Important water levels above this level risk contamination of milk.

Best way to set water levels:

- o Set the water in the header tanks level with the overflow
- o Set the top label of the vessels level with the overflow
- This way if the water level rises it only overflows the header tank

Prevent dust and dirt getting into the header tank.







Pressure Vessel Service Kit CF99