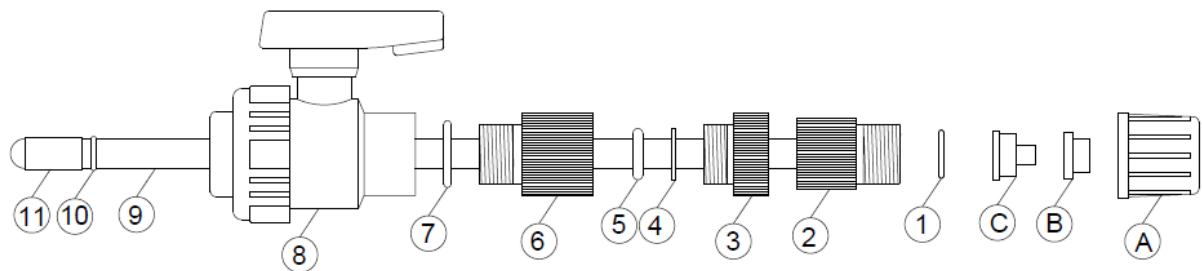




SMITH METAL FABRICATIONS
& AEP PRECISION ENGINEERING

SMF Chemical Injector



Component Parts List	
Item	Description
1	Chemical Boss 'O' Ring
2	Chemical Boss
3	Locking Nut
4	Locking Nut Washer
5	Locking Nut 'O' Ring
6	Connection Boss
7	Connection Boss 'O' Ring
8	$\frac{1}{2}$ " BSP PVC Ball Valve
9	Injection Shaft and Cap
10	Injection Shaft 'O' Ring
11	Silicone Tube

LMI $\frac{3}{8}$ " Coupling Kit	
Item	Description
A	Locking Nut
B	Ferrule
C	Tube Cone

Introduction

The SMF chemical injector is designed to inject chemical into the pool water circulation pipework by means of a dosing pump.

The silicone sleeve prevents water from the pump getting into the dosing line but allows the chemical to be ejected through the dosing holes in the injection shaft below.

The silicone sleeve also protects the chemical from the pool water and therefore reduces the build-up of scale deposits which can block the injector.

The chemical injector with removable sleeve ensures that cleaning and maintenance is simplified and rather than having to buy a whole injector assembly, replacement shafts, silicone sleeves and other component parts can be purchased separately.

Unlike conventional sprung injectors, there are no metal component parts to fail, making maintenance easier.

Maintenance

Maintenance of the chemical injector should only be carried out by trained personnel. Before carrying out any maintenance, ensure that appropriate Personal Protective Equipment (PPE) is worn, and suitable provision has been made in the event of spillage.

Switch off the chemical dosing pump and relieve the pressure in the discharge hose, following the pump manufacturer's instructions. Remember to turn off any potential back pressures on the injectors as well, such as the main circulatory pumps.

Loosen the locking nut (item 3) which will allow the injection shaft (item 9) to withdraw. The injection shaft O ring will prevent it from being withdrawn completely.

Once the injection tube is withdrawn, close the ½" ballvalve.

Unscrew the connection boss (item 6) and withdraw the injection tube completely.

Wash the injection tube with warm water and replace the silicone sleeve if required.

Place the injection tube back into the ½" ballvalve and tighten the connection boss (item 6).

Insert the injection tube, tighten the locking nut (item 3) and put back into service.

Force the pump to run and check for any leaks on the chemical dosing lines prior to leaving the system to run in any automatic mode. It is also recommended to record the levels in the relevant tanks and to monitor these, along with the relevant chemical readings in the forthcoming days to ensure the chemical continues to be pumped correctly.

Check for any back syphoning up the dosing line which will be indicated by the tank level rising.

If any leaks are detected during the maintenance process, repeat the procedure, checking for any damaged O-rings.

Once complete, wash down and replace PPE as required.