CHEMICAL DOSING POT

Size in Litres	Product Code	A	B	C	D	Max working pressure	Tested to
3.5	DP 3.5	265	275	730	165	14 bar	21 bar
5	DP 5	265	355	810	165	14 bar	21 bar
6	DP 6	265	395	860	165	14 bar	21 bar
10	DP 10	320	395	865	220	10 bar	21 bar
11	DP 11	320	395	865	220	10 bar	21 bar
13.5	DP 13.5	320	490	920	220	10 bar	21 bar
15	DP 15	320	570	1022	220	10 bar	21 bar
16	DP 16	320	570	1022	220	10 bar	21 bar
18	DP 18	320	685	1142	220	10 bar	21 bar
20	DP 20	320	685	1142	220	10 bar	21 bar
25	DP 25	377	585	1040	275	8 bar	21 bar

CHEMICAL DOSING POT

Introduction

Dosing pots are required in order to feed liquid chemicals such as corrosion inhibitors into closed systems.
The dosing pots consist of a stainless steel vessel with inlet (return) and outlet (flow) valves, a drain valve and a filling valve.
A stainless steel tundish, air release valve, wall mounting brackets and a non-return valve.

Installation

It is important that the dosing pots are fitted correctly in to the system to allow rapid chemical feed. This is best achieved by connecting across the main flow and return pipe work. Ideally the flow connection should be made on to the bottom of the dosing pot (valve C), and the return the top (valve B).
The dosing pot is designed for the conditions stated on the name plate, the system into which the dosing pot is installed should have adequate protection to ensure the dosing pot is operated within these limits at all times.

Operation

- Isolate pot: close all valves
- Drain pot: open valves A and D
- Charge pot: close valve D and introduce solution via valve A (tundish)
- Expel air: open air vent until solution appears
- Inject treatment: close valve A fully and open valves B and C.
- The dosing pot may reach temperatures up to 120 degrees centigrade.
- Protection or warnings should be applied to ensure that personnel do not come into contact with the pot so as to avoid burns.
- A check valve is installed to prevent accidental scolding and chemical saturation (blow back) of personnel operating the dosing pot.

CHEMICAL DOSING POT

Maintenance

After long-term use the valves may require replacement. No corrosion is allowed for due to the stainless steel construction.

CDM (ACOP L54) Q.P NO. 41/1-02

"Managing Construction Health and Safety" page 1 of 1

Specification

- Stainless Steel Shell
- Valve size 25mm BSP female for all dosing pots
- Welded to BS EN 287
- All dosing pots that are designed to PD 5500:2009 category 3 (C E marked) have the following Max. Working pressures:
- 14 bar-3.5 litres to 6 litres inclusive
- 10 bar- 10 litre to 20 litres inclusive
- 8 bar-25 litres
- Dosing pots that are not designed to the above are available which have maximum working pressure of 14 bar throughout the range (3.5 litre to 25 litre).
- Matt Stainless Steel finish

CHEMICAL DOSING POT

Heating (and) or Cooling System Dosing Pot

Notes to building owners and operators

- The heating (or cooling) system in this building has a chemical dosing pot installed.
- This appliance is by way of manually injecting chemicals into the system.
- Post hand over risks.
- Ensuring the drain valve is closed prior to filling with chemicals.
- Records of commissioning.
- Operation and Maintenance Hazards are attached.
- Planned Maintenance
- Turn handles on valves once a year
- Visually inspect for corrosion
- Operation and Maintenance labour resources.
- Only use suitably qualified persons who have read the operating and maintenance instructions.
- Mothballing the plant and start-up afterwards.
- Drain the dosing pot, open the drain valve and close all other valves.
- Start up, flush with clean water.
- Hazardous information
- The awareness of the chemicals used in dosing the appliance

Connecting the Dosing Pot to the System