Data Sheet 35 – Chemical Dosing Pots (High Pressure)

CHEMICAL DOSING POT

.

Size in Litres	Product Code	A	B	C	D	E	F	G	Max Pressure
3.5	SS.DP3.5-HP	860	170	105	400	300	160	168	25 Bar
5	SS.DP5-HP	940	250	105	400	380	160	168	25 Bar
6	SS.DP6-HP	990	300	105	400	430	160	168	25 Bar
10	SS.DP10-HP	920	200	105	400	360	160	219	25 Bar
11	SS.DP11-HP	920	200	105	400	360	160	219	25 Bar
13.5	SS.DP13.5-HP	1000	280	105	400	440	160	219	25 Bar
15	SS.DP15-HP	1080	360	105	400	520	160	219	25 Bar
16	SS.DP16-HP	1080	360	105	400	520	160	219	25 Bar
18	SS.DP18-HP	1200	480	105	400	640	160	219	25 Bar
20	SS.DP20-HP	1200	480	105	400	640	160	219	25 Bar
25	SS.DP25-HP	982	210	105	400	422	160	324	25 Bar
30	SS.DP30-HP	1052	280	105	400	492	160	324	25 Bar
50	SS.DP50-HP	1332	560	105	400	772	160	324	25 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 110 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.

Maintenance

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

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Specification

- Stainless Steel Shell
- Valve size 25mm BSP female for all dosing pots
- All dosing pots are designed to PED 2014/68/EU have the following Max. Temperature of 110 degrees centigrade
- Dosing pots that are designed to the above have maximum working pressure of 25 bar throughout the range (3.5 litre to 100 litre).
- Electro-Polished 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