# Fabricated Products (UK) Ltd

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## Dosing Pots

**INTRODUCTION**

Dosing pots are required in order to feed liquid chemicals such as corrosion inhibitors into closed systems

The dosing pots consist of a mild steel vessel with inlet (return) and outlet (flow) valves, a drain valve and a filling valve. A 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 pipework. 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;**

1) Isolate pot: close all valves
2) Drain pot: open valves A and D
3) Charge pot: close valve D and introduce solution via valve A (tundish)
4) Expel air :open air vent until solution appears
5) Inject treatment: close valve A fully and open valves B and C.
6) The dosing pot may reach temperatures up to 120 degrees centigrade.
8) Protection or warnings should be applied to ensure that personnel do not come into contact with the pot so as to avoid burns.
9) 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. Periodic inspection should be conducted on the dosing pot in particular checking for corrosion wear. 1mm corrosion allowance is provided for in the design. If corrosion is found to be greater than 1mm the dosing pot should be taken out of use.

Specification:

Mild steel shell to BS 1387 (up to 150mm, schedule 20 used on 200mm and above)
Welded to BS EN 287
All dosing pots that are designed to PD 5500:2000 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 max. working pressure of 14 bar throughout the range (3.5 litre to 25 litre).

Powder coated paint finish (Red Ral no. 3002)

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

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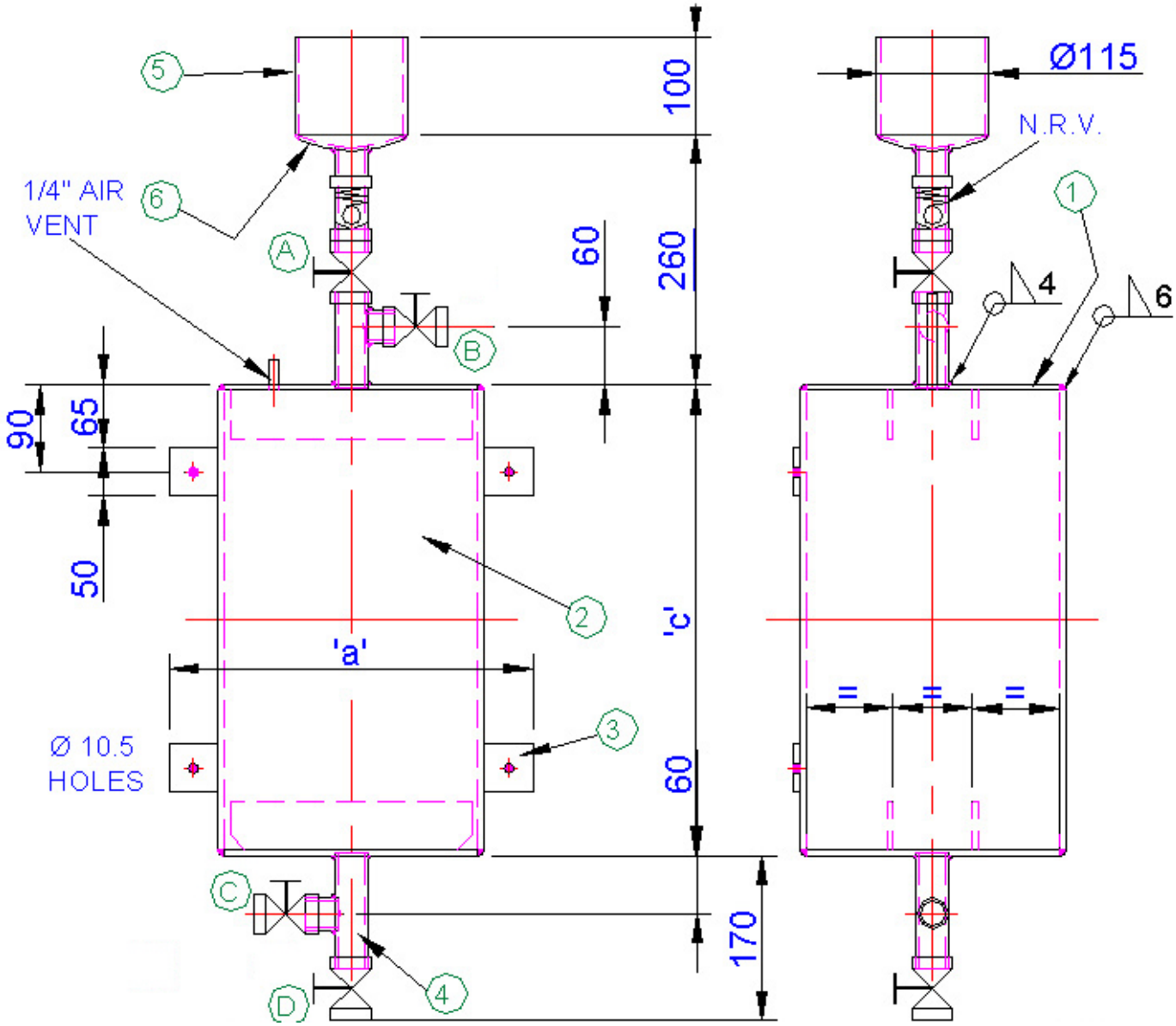
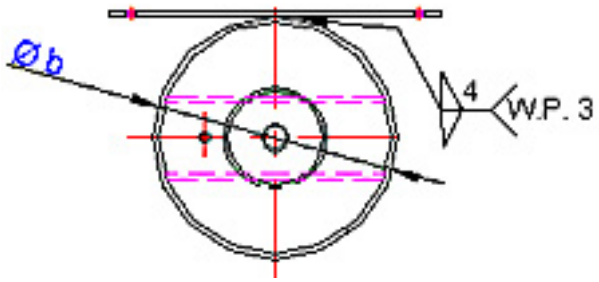
HEATING (AND) OR COOLING SYSTEM DOSING POT

Notes to building owners and operators

1.1 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.
1.2 Post hand over risks.
a) Ensuring the drain valve is closed prior to filling with chemicals.
2.1 Records of commissioning.
N/A
2.2
N/A
3.1 Operation and Maintenance Hazards are attached.
4.1 Planed Maintenance
a) Turn handles on valves once a year
b) Visually inspect for corrosion
5.1 Operation and Maintenance labour resources.
Only use suitably qualified persons who have read the operating and maintenance instructions.
6.1 Mothballing the plant and start-up afterwards.
a) Drain the dosing pot, open the drain valve and close all other valves.
b) Start up, flush with clean water.
7.1 Cleaning
N/A
8.1 Hazardous information
a) The awareness of the chemicals used in dosing the appliance




| Size | "a" | Ø "b" | "c" | H | Shell | Max Wk'G | Test |
|---|---|---|---|---|---|---|---|
| Litres | | | | Hight | Spec | Press | Press |
| 3.5 | 265 | 165 | 175 | 705 | Typ.X | 14 Bar | 21 Bar |
| 5 | 265 | 165 | 250 | 780 | Typ.X | 14 Bar | 21 Bar |
| 6 | 265 | 165 | 305 | 835 | Typ.X | 14 Bar | 21 Bar |
| 10 | 315 | 220 | 285 | 815 | Typ.Y | 10 Bar | 15 Bar |
| 11 | 315 | 220 | 310 | 840 | Typ.Y | 10 Bar | 15 Bar |
| 13.5 | 315 | 220 | 385 | 915 | Typ.Y | 10 Bar | 15 Bar |
| 15 | 315 | 220 | 435 | 965 | Typ.Y | 10 Bar | 15 Bar |
| 16 | 315 | 220 | 460 | 990 | Typ.Y | 10 Bar | 15 Bar |
| 18 | 315 | 220 | 535 | 1065 | Typ.Y | 10 Bar | 15 Bar |
| 20 | 315 | 220 | 580 | 1110 | Typ.Y | 10 Bar | 15 Bar |
| 25 | 375 | 275 | 485 | 1015 | Typ.Y | 8 Bar | 12 Bar |

# Connecting the Dosing Pot to the System