Chemical Dosing Pots
Overview & Sizing

Introduction

The Dutypoint range of dosing pots provides a safe, controlled method of dosing chemicals into heating and chilled water systems with no interruption to the system operation.

Dutypoint dosing pots are supplied as a complete package with all valves and tundish fitted to minimise time on site for installation. These cost effective, easy to install units facilitate simple, regular on-going maintenance of your heating or chilled water system. Dutypoint dosing pots feature a top-mounted, manual air vent that can be opened during the filling operation to minimise air ingress into the system.

For your safety, each Dutypoint dosing pot is fitted with an integral safety valve that prevents fluid escaping under pressure if the top entry valve is opened before the flow and return valves are closed. Also, for your peace of mind, each unit is individually hydrostatically tested to 16 bar prior to despatch.

To cover all your requirements, the standard Dutypoint range includes 6 different sized units: 3.5 litres, 5 litres, 10 litres, 15 litres, 20 litres and 25 litres.

Specification	
Vessel	Mild Steel
Tundish	Mild Steel
Flow/Return Isolation Valves	1" BSP, Brass (plated)
Drain Valve	1" BSP, Brass (plated)
Air Vent	Brass (plated)
Finish	Powder Coated
Operating Parameters	
Maximum Working Pressure	10 Bar
Maximum System Temperature	110°C
Hydrostatic Test Pressure	16 Bar
Approvals	
Designed and manufactured in accordance with the Pressure Equipment Directive 97/23/EC	

Sizing

The size of dosing pot installed in a system is not critical as multiple doses of chemicals can be put in to the system to reach the correct concentration. The benefits of using a smaller unit is that it is easier to physically handle and also allows for more accurate dosing. However, the time on site for performing multiple doses has to be considered; this factor should influence your decision when selecting dosing pots.

Note: Chilled water systems often require large volumes of glycol to be dosed in to the system; a larger dosing pot may be required for chilled water systems.

The formula below can be used as a guide to help you in your selection:

Boiler Power (kW) x 12 Litres/kW x 0.01 (based on 1% concentration*) = Volume of chemical required

Example: Boiler Power 250kW x 12kW x 0.01 = 30 litres of chemical.

You could use any of the following dosing pots for this installation:

- 5 litre - dose 6 times
- 10 litre - dose 3 times
- 15 litre - dose 2 times

**Confirm the required concentration level for the chemical being used*

SIZE (Capacity Litres)	PRODUCT CODE	LIST PRICE	WEIGHT
3.5	DP3.5	£226	9kgs
5	DP5	£234	11.5kgs
10	DP10	£257	16.5kgs
15	DP15	£295	23.5kgs
20	DP20	£368	29.5kgs
25	DP25	£385	40.5kgs

Installation & Operation

INSTALLATION

To ensure a fast, but safe dispersal of the chemical dose, it is important that the unit is installed correctly.

Install the unit between the flow and return pipework at the point with the highest differential pressure.

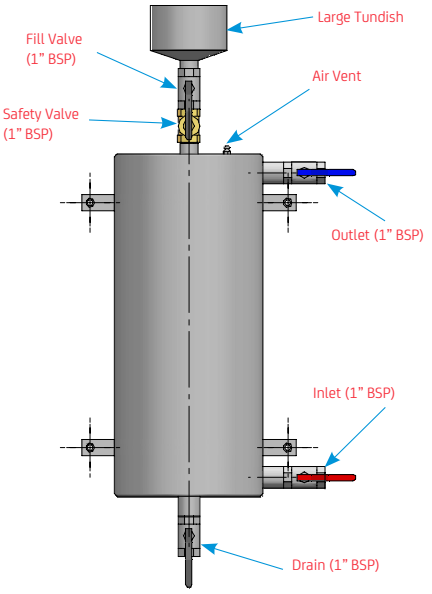
Ensure the unit is securely fixed to a wall using the integral wall mounting brackets.

Make certain that the drainage point is either piped to waste or that there is suitable space beneath the unit for collection of discharged fluid.

OPERATION

For correct operation of the unit follow the instructions and diagram below. Where multiple dosing is required, repeat the steps as necessary until correct system concentration is achieved.

- **ISOLATE THE UNIT** Close all Valves.
- **DRAIN THE UNIT**
  Open the drain valve first, followed by the fill valve.
- **FILL THE UNIT**
  Close the drain valve and pour dosing chemical in to the unit through the tundish.
- **VENT THE UNIT**
  Open the air vent until air has been purged out. Close all opened valves.
- **BEGIN DOSING**
  Fully open the inlet and outlet valves slowly.
- **COMPLETE DOSING**
  Close all valves when dosing has completed. Repeat the above steps if necessary.



Drawings & Dimensions

SIZE (Capacity - Litres)	CODE	DIMENSIONS (mm)						
		A	B	C	D	E	F	G
3.5	DP3.5	732	350	255	285	170	280	165
5	DP5	817	435	255	285	255	365	165
10	DP10	842	460	309	339	280	390	219
15	DP15	992	610	309	339	430	540	219
20	DP20	1142	760	309	339	580	690	219
25	DP25	1012	630	363	393	450	560	273