



STAINLESS STEEL DOSING POTS



GENERAL INFORMATION

The BOSS™ Dosing Pot is a high quality stainless steel vessel which is fatigue resistant as a result of its design.

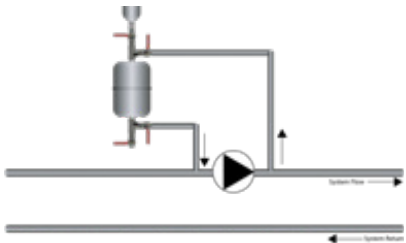
The unit is supplied with all components loose so connections can be fitted in an orientation best suited to the system.

This product is fully compliant with the latest BSRIA BG50/2021 recommendations regarding avoiding dead legs, as well as Pressure Equipment Directive 2014/68/EU Cat SEP and Pressure Equipment (Safety) Regulations 2016.

The BOSS™ Dosing Pot has a 5 year (60 months) repair or replacement warranty to cover any manufacturing defects.

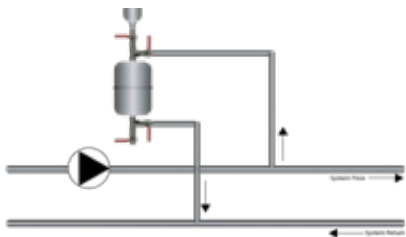
RECOMMENDED INSTALLATION

- ✓ ACCEPTABLE
- ✓ ADVISABLE
- ✓ MAINTAINED THROUGH-FLOW
- ✓ BSRIA COMPLAINT



NOT RECOMMENDED BUT ACCEPTABLE

- ✓ ACCEPTABLE
- ✗ ADVISABLE
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SPECIFICATION

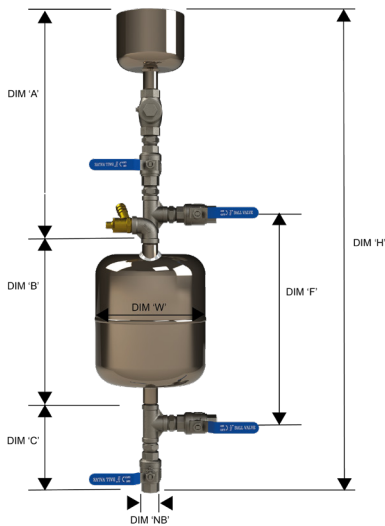
RANGE NAME	OPERATING CONDITIONS
BOSS™ Stainless Steel Dosing Pot	1. Maximum Working Temperature 110°C 2. Maximum Working Pressure 3.5L, 6L, 11L & - 10Bar 18L & 25L – 7Bar
SIZES	PRESSURE EQUIPMENT DIRECTIVE
3.5L, 6L, 11L, 18L and 25L	All BOSS Stainless Steel Dosing Pots are designed and manufactured in accordance with PED 2014/68/EU under SEP
PARTS AND MATERIALS	Dosing Pots are designed to be installed internally within a building and to avoid risk of freezing and component damage. If installing externally, the unit should be mounted within a weatherproof enclosure and insulated to avoid freezing, otherwise the warranty will be
1. Stainless Steel fatigue resistant curved vessel 2. Stainless Steel fittings and tundish 3. Stainless Steel Ball valves ½” BSPP 4. Polished Stainless Steel finish to vessel 5. Brass Air Vent	



DIMENSIONAL DETAILS

Use the size and weight chart below to choose the correct BOSS™ Dosing Pot

1. The wall structure, fixings & bolts should carry the weight of a filled vessel.
2. Ensure sufficient space available above the tundish to add chemicals.
3. Ensure sufficient space below the drain for a collection vessel.



PART No	SIZE	CON Size	DIM A (mm)	DIM B (mm)	DIM C (mm)	DIM W (mm)	DIM H (mm)	DIM F (mm)	Weight (Full)	Working Pressure	Max Temp
52213067	3.5L	1/2"	285	260	130	162	675	310	9kgs	10Bar	110°C
52213078	6L	1/2"	285	260	130	215	675	310	14kgs	10Bar	110°C
52213089	11L	1/2"	285	410	130	215	825	460	21kgs	10Bar	110°C
52213108	18L	1/2"	285	460	130	260	875	510	30kgs	7Bar	110°C
52213119	25L	1/2"	285	590	130	260	1005	640	40kgs	7Bar	110°C

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.

Chilled water systems generally require higher concentrations of dosing chemical, usually glycol, to be dosed into the system. A larger dosing pot may be required for chilled water systems.

The formula below can be used as a guide when using BOSS™ Commercial Inhibitor at 0.4% dilution (see page 4) to help you in your selection:

Boiler Power (kW) x 12 Litres/kW x 0.4% = Volume of chemical required.

For example:

Boiler Power 250kW x 12 Litres x 0.4% = 12 litres of chemical.

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

6 litre dose 2 times

18 litre dose 1 time

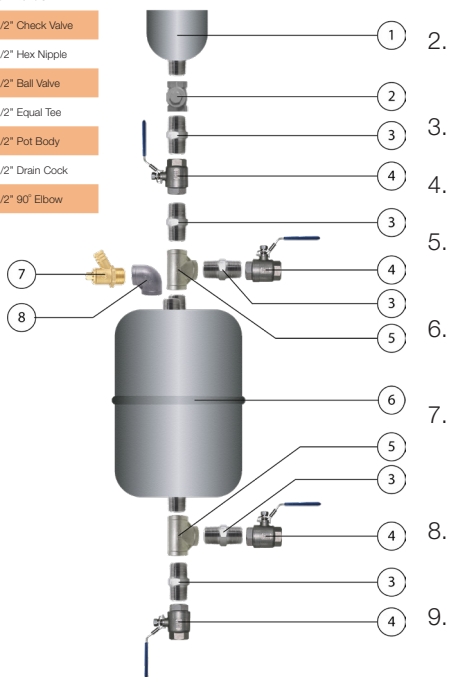
* Confirm the required concentration level for the chemical being used before calculating your dosage amount.

ASSEMBLY & INSTALLATION

(To Be Performed by Qualified Personnel)

Item Description

1	1/2" Tundish
2	1/2" Check Valve
3	1/2" Hex Nipple
4	1/2" Ball Valve
5	1/2" Equal Tee
6	1/2" Pot Body
7	1/2" Drain Cock
8	1/2" 90° Elbow



1. Protect the Dosing Pot from adverse environmental conditions, protect from frost.
2. This equipment will form part of the main system's maintenance regime, do not obstruct access.
3. The equipment must be installed generally as the diagram to the left.
4. System inlet and outlet can be configured to the left or right to suit site conditions.
5. All accessories are supplied loose for site assembly, and should be fitted to unit using suitable thread locking methods.
6. For ease of use it is essential to have sufficient access clearance above the tundish to allow filling.
7. When installing the unit, please take into account the weight of the unit when full. Fixings are provided with the unit, but it is the responsibility on the installer to ensure the appropriate fixings are used for the installation.
8. Flexible or fixed pipework should be installed to enable dirty water to be drained to a convenient safe place.
9. It is recommended that flexible pipe be fitted to the manual air vent to safely vent air and any liquid overflow to a drain and away from any personnel working in the area.

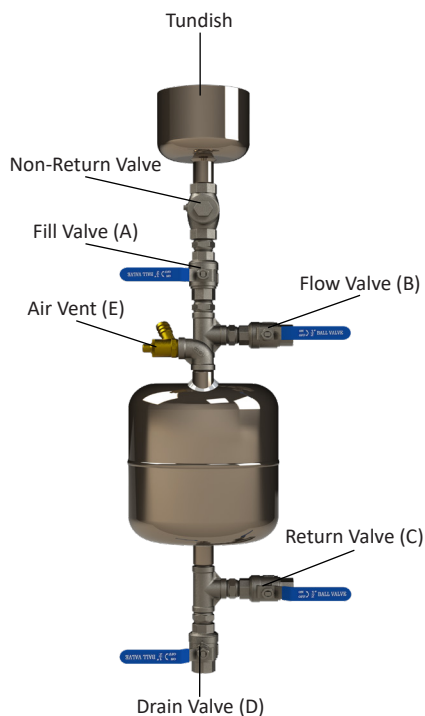
OPERATION

(To Be Performed by Qualified Personnel)

For correct operation of the unit follow the instructions 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 (D) first, followed by the Fill Valve (A). Any fluid within the dosing pot will drain through the Drain Valve (D).
FILL THE UNIT	Close the Drain Valve (D), Open the Air Vent (E) and pour the dosing chemical into the unit via the tundish.
VENT THE UNIT	Any air within the dosing pot will be purged through the Open Air Vent (E) as the chemical fills the pot. When full, Close the Air Vent (E) and the Fill Valve (A). All valves should now be closed.
BEGIN DOSING	Fully open the Flow Valve (B) and Return Valve (C) slowly to commence the dosing of the system.
COMPLETE DOSING	Close all valves when dosing has completed. Repeat the above steps "if necessary."



MAINTENANCE

After long term use the valves may require replacement.

The dosing pot should be checked annually for damage and deterioration.

Any significant damage or deterioration should require the dosing pot to be replaced.

Decommissioning & Removal

1. To remove the Dosing Pot from the system first isolate the unit.
2. Allow the unit to cool if used on hot water systems.
3. Discharge the system fluid through the drain valve.
4. When the unit is empty, and only when safe to do so, withdraw the equipment.

Environmental Considerations

Observe local legislation and regulations when disposing of the Dosing Pot.

Warranty

5 Years from date of purchase – proof of purchase required.

The information contained within this document was correct at date of issue. Dimensions are provided as guide only. Some variation may occur due to manufacturing tolerances. We pursue a policy of continuing improvement in design and performance of products and so reserve the right to change specifications without prior notice.

Version number 1

ASSOCIATED EQUIPMENT



10L DOSES

2500L



5L Drum	Commercial Inhibitor	16920130
10L Drum	Commercial Inhibitor	16920141
20L Drum	Commercial Inhibitor	16920152
1000L IBC	Commercial Inhibitor	16920163

Commercial Inhibitor

Premium corrosion protection BOSS™ Commercial Inhibitor prevents both system corrosion and limescale deposition, helping to maintain boiler and system efficiency and preventing the formation of sludge and scale, contributing to a longer system life and greater system efficiencies.

- High performance heating, chilled and condenser water protection
- Super concentrate formula
- Treats system volume at 0.4% dosage rate
- Increases and maintains system performance
- Superior protection in hard and soft water areas
- Compatible with all common system materials
- Lowers CO2 emissions
- Environmentally friendly, non-toxic formula

BOSS™

OVER
100 YEARS
OF QUALITY
