Core values, quality products

Stainless Steel Dosing Pot

Stainless Steel Dosing Pots

Operating & Maintenance Instructions
Sizing | Installation | Operation | Maintenance

Dosing pots are generally installed in closed systems to enable water treatments and other chemicals to be added to the system without the need to shut a system down or part thereof.

The Exco Dosing Pot is a high-quality stainless steel vessel that is fatigue resistant due to its design. The unit is supplied with loose components so connections can be fitted in an orientation best suited to the system.

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

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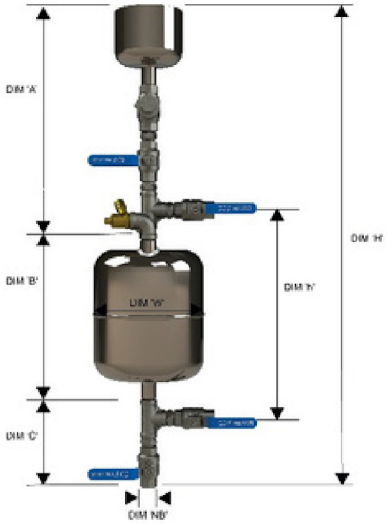
Dimensional Information



PLEASE NOTE:
ALL DIMENSIONS ARE FOR GUIDANCE ONLY

PRODUCT CODE	SIZE	CON Size	DIM A	DIM B	DIM C	DIM W	DIM H	DIM h	Weight (Full)	Working Pressure	Max Temp
DPSS035C	3.5L	1/2"	285mm	260mm	130mm	162mm	675mm	310mm	9kgs	10Bar	110°C
DPSS06C	6L	1/2"	285mm	260mm	130mm	215mm	675mm	310mm	14kgs	10Bar	110°C
DPSS11C	11L	1/2"	285mm	410mm	130mm	215mm	825mm	460mm	21kgs	10Bar	110°C
DPSS18C	18L	1/2"	285mm	460mm	130mm	260mm	875mm	510mm	30kgs	7Bar	110°C
DPSS25C	25L	1/2"	285mm	590mm	130mm	260mm	1005mm	640mm	40kgs	7Bar	110°C

Sizing

The size of the dosing pot installed in a system is not critical, as multiple doses of chemicals can be put into the system to reach the correct concentration.

The benefit of using a smaller unit is that it is easier to handle physically and 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 chemicals, usually glycol, to be dosed into the system. A larger dosing pot may be needed for chilled water systems.

DOSING ADVICE FOR ALL CHEMICALS EXCEPT GLYCOL

1. Take the combined kW output of the Boilers/Chillers.
2. For a heating system, multiply the kW output by 12 to give an estimated system volume in litres, e.g. for a 500kW heating system: Multiply 500 x 12 = 6,000 litres; then multiply by 0.40% = 24. ADD 24 litres of CORE Inhibitor.
3. For a chilled/cooling system, multiply the kW output by 15 to give an estimated system volume in litres, e.g. for a 250kW chilled system: Multiply 250 x 15 = 3,750 litres; then multiply by 0.40% = 15. ADD 15 litres of CORE Inhibitor.

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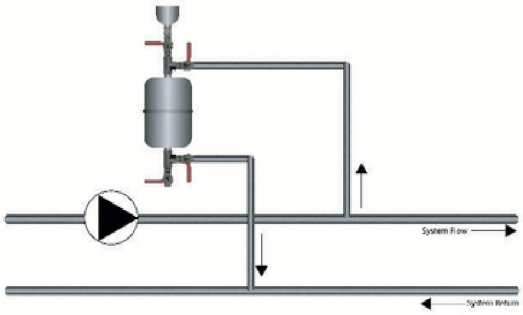
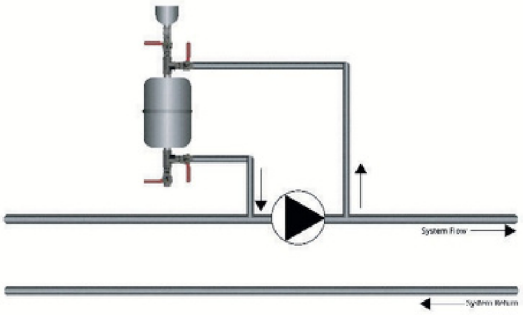
Location

Make sure that there is suitable space beneath the unit to collect any discharged fluid.

Not BSRIA Compliant if installed in this configuration - But Acceptable

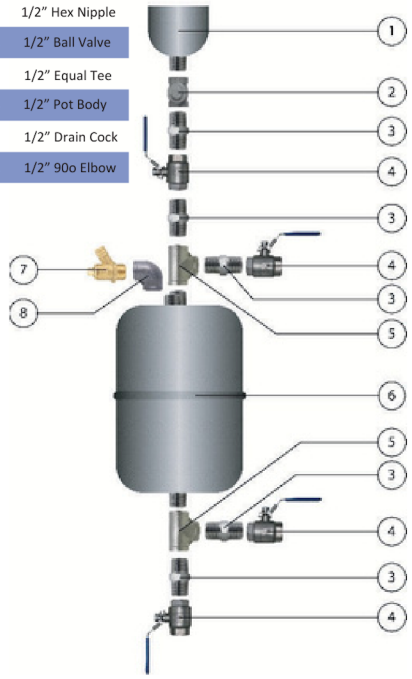


BSRIA Compliant if installed in this configuration



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" 90o Elbow



1. Protect the Dosing Pot from adverse environmental conditions, and protect from frost.
2. This equipment will form part of the main system's maintenance regime and do not obstruct access.
3. The equipment must be installed generally as shown in 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 the 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. Fixings are provided with the unit, but the installer's responsible for ensuring the appropriate fixings are used for the installation.
8. Flexible or fixed pipework should be installed to drain dirty water 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 away from any personnel working in the area.

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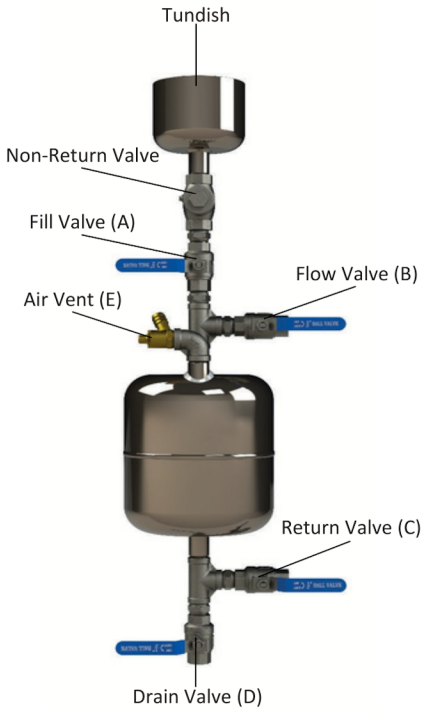
Operation *(To Be Performed by Qualified Personnel)*

For the 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 been 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 Warranty

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

2 Years from date of purchase – proof of purchase required

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