

Chemical Dosing Pots

Overview & Sizing

The Vira 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.

Vira 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.

For your safety, each Vira 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 Vira range includes all sizes as 5 litres, 10 litres, 15 litres, 20 litres, 25 litres, 50 liters and bigger sizes.

Specification	
Vessel	Stainless Steel
Tundish	Stainless Steel
Flow/ Return Isolation Valves	1" BSP, S.Steel
Drain Valve	1" BSP, S.Steel
Finish	Power Coated
Operating Parameters	
Maximum Working Pressure	10 Bar
Maximum System Temp.	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

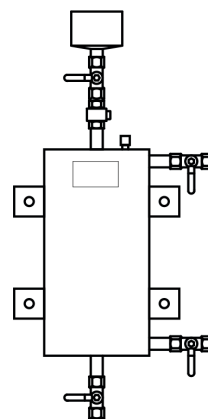
Confirm the required concentration level for the chemical being used

Size (Litres)	Product Code	Weight KG
5	VDK 5	12,0
10	VDK 10	17,0
15	VDK 15	24,0
20	VDK 20	30,0
25	VDK 25	41,0

Installation & Operation

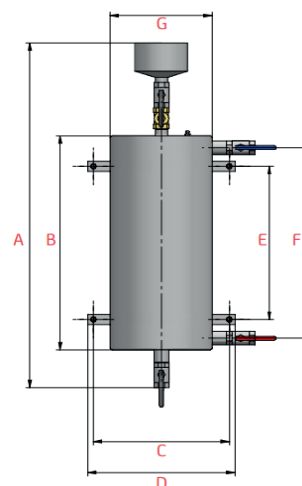
INSTALLATION

<p>To ensure a fast, but safe dispersal of chemical dose, it is important that the unit is installed correctly.</p> <p>Install the unit between the flow and return pipework at the point with the highest differential pressure.</p> <p>Ensure the unit is securely fixed to a wall using the integral wall mounting brackets.</p> <p>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.</p>	<p>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.</p> <p>*ISOLATE THE UNIT Close all Valves</p> <p>*DRAIN THE UNIT Open the drain valve first, followed by the fill valve.</p> <p>*FILL THE UNIT Close the drain valve and pour dosing chemical in to the unit through the tundish.</p> <p>*BEGIN DOSING Fully open the inlet and outlet valves slowly.</p> <p>*COMPLETE DOSING Close all valves when dosing has completed. Repeat the above steps if necessary.</p>
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Drawings & Dimensions

Size	Code	DIMENSIONS (mm)						
		A	B	C	D	E	F	G
5	VDK 5	734	300	230	280	100	200	180
10	VDK 10	884	450	230	280	250	350	180
15	VDK 15	1084	650	230	280	450	550	180
20	VDK 20	1034	600	270	319	400	500	219
25	VDK 25	1134	700	270	319	500	600	219



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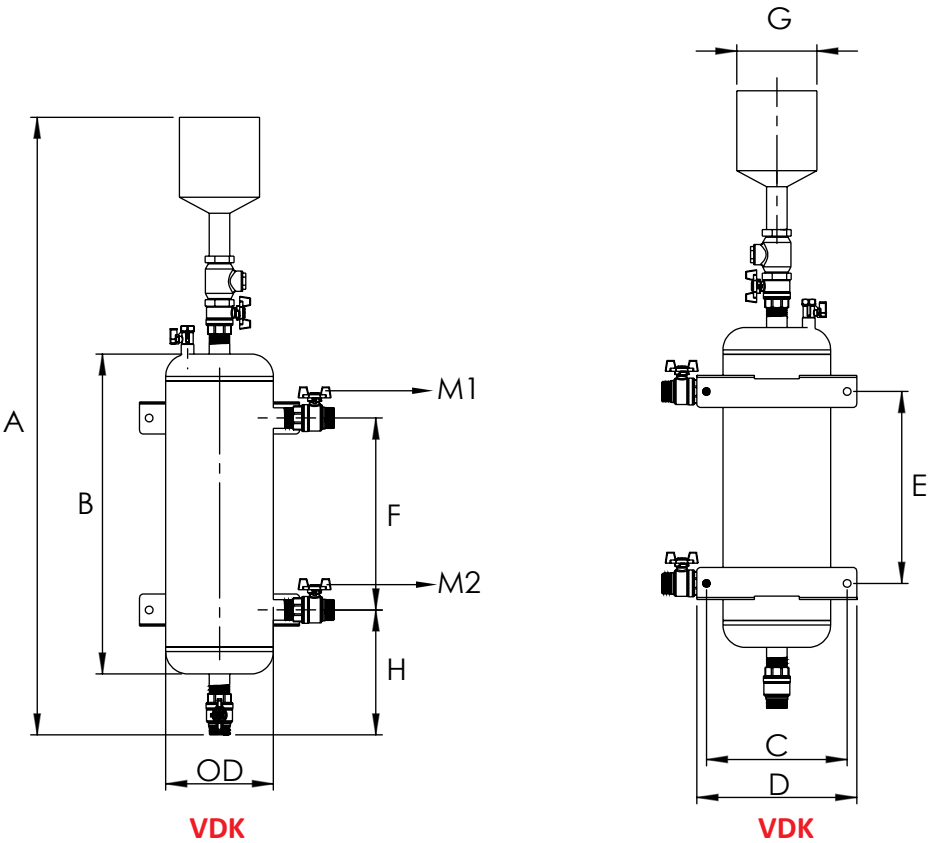
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- 5 liter - dose 6 times
- 10 liter - dose 3 times
- 15 liter - dose 2 times

Confirm the required concentration level for the chemical being used.



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DIMENSIONS (mm)

	CAPACITY (lt)	Connection OD (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	M1	M2
VDK	5	168,3	847,9	324	220	250	180	180	125	168	1"	1"
VDK	10	168,3	965,5	500	220	250	300	300	125	195	1"	1"
VDK	15	219,1	923,9	450	350	400	250	250	125	195	1"	1"
VDK	20	219,1	1073,9	600	350	400	400	400	125	195	1"	1"
VDK	25	219,1	1173,9	700	350	400	500	500	125	195	1"	1"
VDK	35	273	1125,9	652	400	450	392	392	125	225	1"	1"
VDK	50	323,9	1279,2	800	450	500	550	550	125	221	1"	1"