

## STUART

### Stainless Steel Dosing Pots (10 Bar)

#### Introduction

The Stuart range of dosing pots are designed to insert liquid chemicals, usually corrosion inhibitor or anti-freeze solutions, into closed heating or chilled water systems.

For concentration levels of these chemicals please always consult the specific chemical manufacturer's recommendations.

Stuart dosing pots are supplied as a kit of components which will need to be assembled as per the **Configuration** section of this documentation, detailed opposite.

Please note that PTFE tape or a thread sealant compound should be used when assembling the joints.

For assistance with product selection, please contact our sales department on **01491 572 655**.

#### Components

The dosing pot kit consists of:

- A** FABRICATED VESSEL WITH WELDED CONSTRUCTION
- B** 2 x WALL BRACKET (INTEGRAL WITH VESSEL)
- C** MANUAL AIR VENT VALVE (3/8" BSP)
- D** TUNDISH
- E** 4 x ISOLATION VALVE (1" BSP)
- F** 4 x PIPE NIPPLE (1" BSP)
- G** 2 x TEE PIECE (1" BSP)

#### Installation

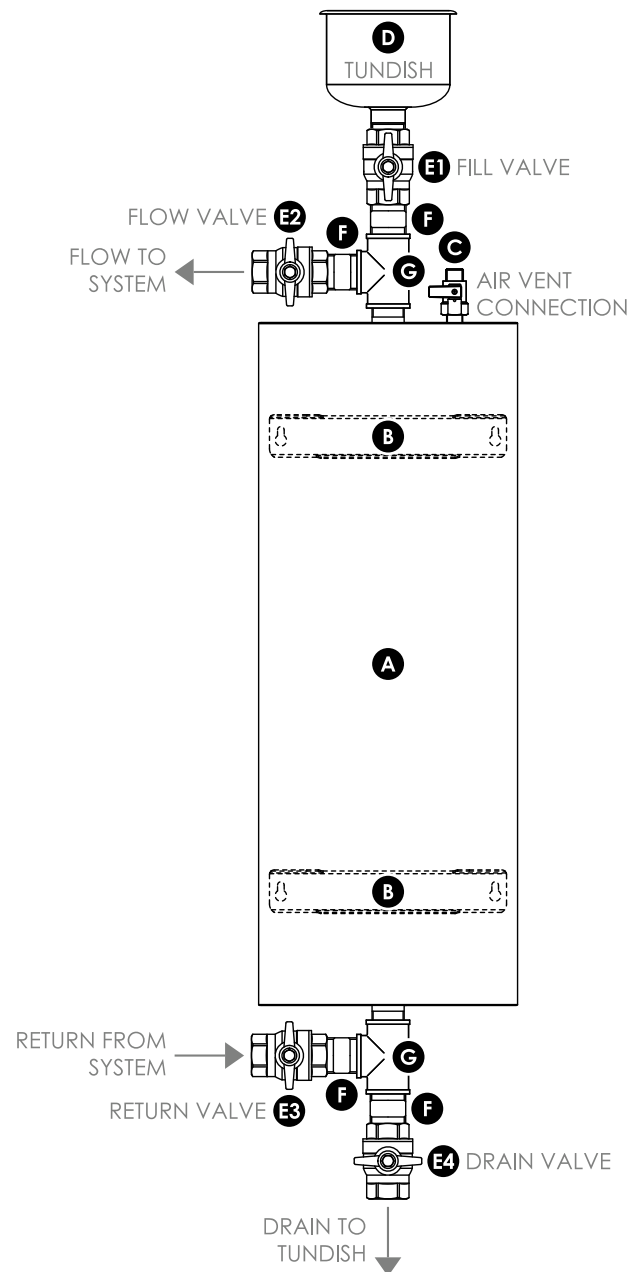
The dosing pot vessel has two integral **WALL BRACKETS (B)** that should be used to securely fix the assembly to a wall or similar rigid structure.

The vessel should be connected to the system via the **FLOW VALVE (E2)** and **RETURN VALVE (E3)**, and should be drained through the **DRAIN VALVE (E4)** via a tundish to a suitable drain.

To avoid contact with chemicals when adding them to the system, and to prevent burns or scalding if the system is hot, personal protective clothing and equipment should be worn.

Chemical manufacturers guidance should also be adhered to.

#### Configuration



## Filling Procedure

To perform a filling procedure, all dosing pot valves should be opened and closed in the following order:

**STEP 01:** Isolate the vessel by closing all valves.

**STEP 02:** Open **FILL VALVE (E1)** and **DRAIN VALVE (E4)** to drain the vessel.

**STEP 03:** Close **DRAIN VALVE (E4)**, then introduce chemicals via the **TUNDISH (D)** and **FILL VALVE (E1)**.

**STEP 04:** Open the **MANUAL AIR VENT VALVE (C)** to expel any air that is still trapped in the vessel. Once solution begins to appear, close it immediately.

**STEP 05:** Isolate the vessel again by closing all valves and reaffirming that the **MANUAL AIR VENT VALVE (C)** is completely closed.

**STEP 06:** To add the chemicals to the system, open **FLOW VALVE (E2)** and **RETURN VALVE (E3)** then allow the chemicals to circuit.

**STEP 07:** If necessary, repeat the above procedure until the correct concentration of chemical to system water volume has been achieved.

**STEP 08:** Now close **FLOW VALVE (E2)** and **RETURN VALVE (E3)** to again isolate the dosing pot from the system.

## Technical Specification

Maximum Working Pressure: **10 bar**

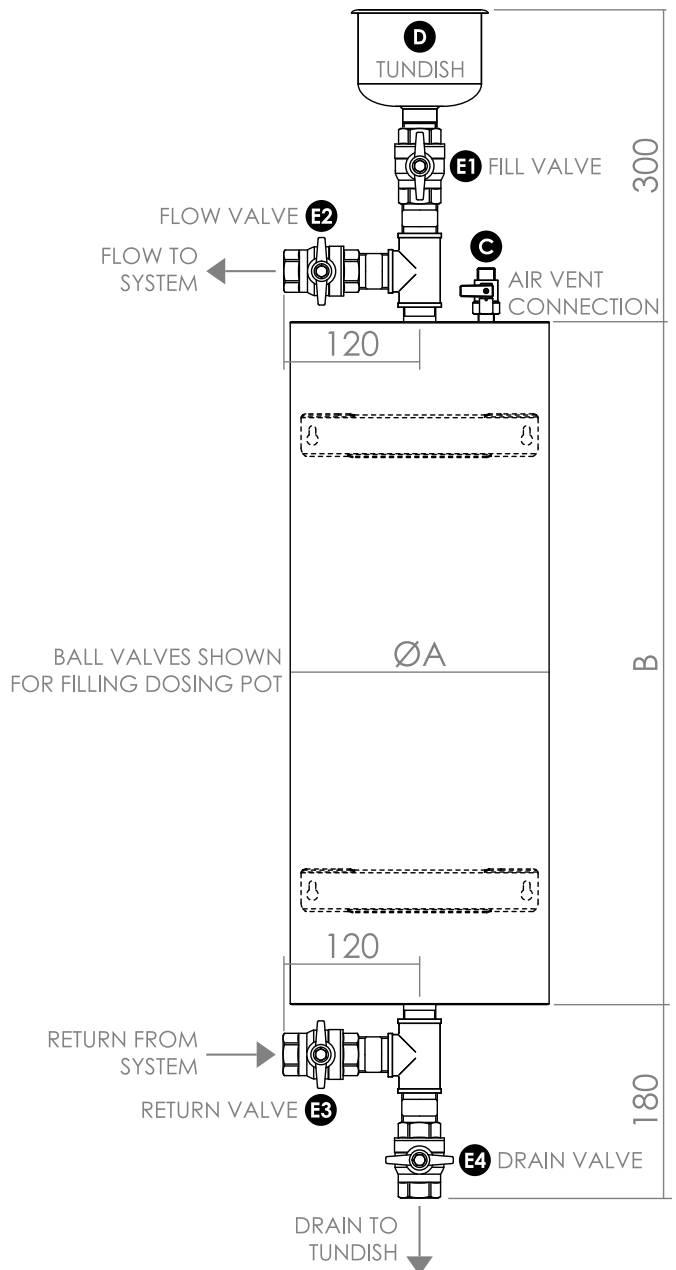
Maximum Operating Temperature: **90°C**

Size Range: **3.5 – 50 Litres**

Complies with the **Pressure Equipment Directive (PED) 2014/68/EU**



## Dimensions



Part Code	Litre	A	B
47449	3.5	114	375
47450	6	114	640
47451	11	168	535
47452	18	219	500
47453	25	219	710
47454	35	273	630
47455	40	273	720
47456	50	273	900

All dimensions are in millimetres unless otherwise specified.