



**INSTALLATION, OPERATION AND MAINTENANCE INSTRUCTIONS FOR THE WORLD HEAT VH RANGE OF VENT HEADS**

**1.0 DESCRIPTION**

World Heat VH Vent Head range are designed for use on vertical open-ended steam vent pipes, such as those found on Blowdown Vessels, Boiler Feed Tanks, De-Aerator Heads, Condensate Vessels, etc. The Vent Heads purpose is to remove entrained water from discharged steam in order to safely discharge dry steam to the atmosphere. The VH range of vent heads covers vent sizes from DN50 to DN300.

**Warning: Vent Heads must not be used for safety valve discharge pipes.**

**1.1 MATERIALS OF CONSTRUCTION**

Body: Stainless Steel  
Flanged Connections: Flanged EN 1092 PN16, Scotchkote 206N Green Fusion Bonded Epoxy Coated Mild Steel Backing Flange  
Collar: Metric Bore Pressed Collar  
Pipe: Metric Bore Welded Pipe  
Finish: Metallic Heat Resistant Paint

**1.2 STANDARD RANGE**

Product Code	Size	Inlet Connection	Weight (kg)
<b>VH2</b>	DN50	Flanged EN 1092 PN16	4.9
<b>VH2.5</b>	DN65	Flanged EN 1092 PN16	6.4
<b>VH3</b>	DN80	Flanged EN 1092 PN16	7.8
<b>VH4</b>	DN100	Flanged EN 1092 PN16	9.5
<b>VH6</b>	DN150	Flanged EN 1092 PN16	17.8
<b>VH8</b>	DN200	Flanged EN 1092 PN16	24.0
<b>VH10</b>	DN250	Flanged EN 1092 PN16	32.1
<b>VH12</b>	DN300	Flanged EN 1092 PN16	41.7

**2.0 PED INFORMATION**

The standard range of Vent Heads is designed in accordance with Commercial Standards. The Vent Head itself is open vented and should not be subjected to any pressures.

It is the responsibility of the user and/or installer to ensure that the unit is installed and operated safely, and in accordance with the instructions detailed within this document.

**3.0 COSHH**

Research has suggested that there are no specific items to highlight during normal operating conditions. However, during our manufacturing process, dye-penetrant may be used as part of our pre-inspection process of testing welds. It is therefore essential that adequate flushing and sterilization is carried out.



#### **4.0 INSTALLATION**

Refer to the General Assembly drawing, Product Information Sheet and IOM, to check that the product is suitable for the intended use.

Care should be taken when handling the unit to prevent damage to the unit itself and to those moving the unit. Ensure appropriate lifting techniques are used according to the weight of the unit.

Firstly determine the correct installation position and the direction of flow. The Vent Head must be fitted to a vertical open-ended steam vent pipe. The termination of the pipe, and resultant position of the Vent Head, must be in a location which will not present a risk to people or property. The

The Vent Head should be sized as the same nominal size of the vent pipe to be installed on.

The VH Vent Head range is complete with a flanged connection as standard. Therefore, the unit should be bolted to a mating flange with a suitable full-face gasket. Bolts should be tightened to the recommended torque detailed by the bolt manufacturer.

Ensure that the Vent Head is adequately supported, with additional supports if necessary, for the specific installation.

#### **5.0 COMMISSIONING**

Once installed, ensure that the system is fully functioning.

#### **6.0 OPERATION**

Steam enters the Vent Head through the Inlet Connection and is directed toward the internal baffle. The baffle causes entrained water droplets to collect on the internal surfaces of the Vent Head. Due to gravitational forces, the entrained water coalesces and collects at the bottom of the unit, making its way out of the Vent Head through the Inlet Connection. The internal drain allows the recovery of condensate to be fed back into the system hence increasing energy efficiency.

The VH Range of Vent Heads has no operational/moving parts.

#### **7.0 MAINTENANCE**

We recommend that the unit is periodically inspected (at a minimum bi-annually) to ensure that no debris is restricting the outlet and to check the general condition of the unit is good.

**Please Note:** The World Heat VH Range of Vent Heads contain no maintainable parts.



**WORLD HEAT**  
C Y L I N D E R S

## WH-IOM-017

### Installation, Operation & Maintenance Instructions

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#### **8.0 RECYCLING**

The General Assembly Drawing/Product Information Sheet for the unit should be consulted for information pertaining to the materials of construction.

Ensure that all materials are disposed of responsibly and in line with national and local regulations.

#### **9.0 SPARES**

There are no spares available for the VH Range of Vent Heads.