

## P SERIES – UNPROTECTED ORIFICE

MODEL: OFCP450

### OVERVIEW

Low discharge rates, particularly from new housing developments is becoming commonplace and regularly stipulated by the Local Lead Flood Authorities (LLFA's). For this reason the requirement for a proven method of reducing flows from new housing sites, individual housing plots and new builds are becoming a significant part of SuDS design and overall flood management.

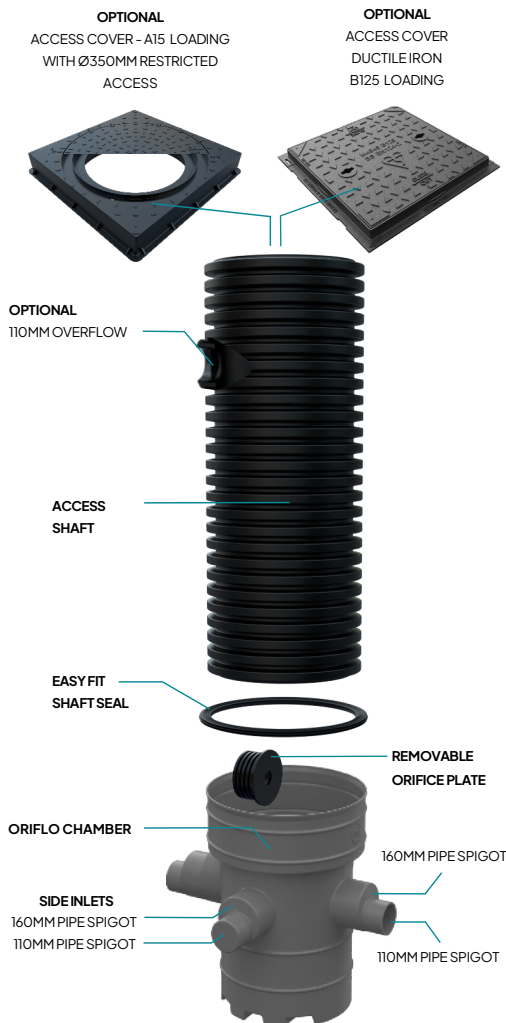
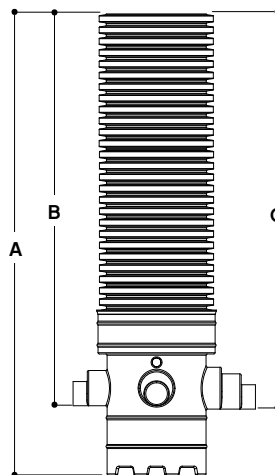
The ORIFLO OFCP450 is classed as an unprotected orifice plate – flow control chamber, designed to support SuDS management and the sewer infrastructure as part of a designed attenuation system helping prevent flooding by controlling the flow into the main sewer. The strategic use of smaller flow control units has been proven to support SuDS, in regards to the overall storage and land requirement on site and from various storage systems, like smaller modular/crate attenuation systems and permeable paving. **SPECIFICATION**

450mm diameter, single piece – factory built units, delivered to site ready to install. Featuring a robust, impact resistant, rota moulded base with four moulded pipe spigots with the option of either 110mm and 160mm BSEN1401 connections. The outlet will be supplied cut ready for connection. Units can be supplied with either A15 or B125 loading. The A15 cover has a 350mm diameter restricted access to meet with DCG Guidance.

Designed to facilitate such discharge flows from 0.5 to 30 litres per second with a design head of between 250mm and 2425mm.

### GUIDANCE DOCUMENTS

- BS 8582 9.6
- CIRIA75310.2, 20.5 Compliance
- Design & Construction Guidance – April 2020. Section C7.12 – Flow Control Device



| Product Code | Inlets Ø (mm) | Outlet Ø (mm) | Overall Depth A (mm) | Inlet Invert B (mm) | Outlet Invert C (mm) | Approx. Weight (kg) |
|--------------|---------------|---------------|----------------------|---------------------|----------------------|---------------------|
| OFCP450/1.5  | 110 -160      | 110 -160      | 1495                 | 1175                | 1195                 | 19.5                |
| OFCP450/2    | 110 -160      | 110 -160      | 1950                 | 1630                | 1650                 | 24.5                |
| OFCP450/2.4  | 110 -160      | 110 -160      | 2410                 | 2090                | 2110                 | 29                  |
| OFCP450/3    | 110 -160      | 110 -160      | 3025                 | 2705                | 2725                 | 34.5                |

### TECHNICAL DATA

|                                               |          |
|-----------------------------------------------|----------|
| Minimum restricted discharge achievable:      | 0.5l/p/s |
| Maximum restricted discharge achievable:      | 30l/p/s  |
| Minimum design head:                          | 250mm    |
| Maximum design head:                          | 2425mm   |
| Recommended minimum orifice Ø (Adoptable):    | 50mm     |
| Recommended minimum orifice Ø (NonAdoptable): | 20mm     |



What information do we need to design your ORIFLO chamber?

- The Design Flow – Maximum Discharge
- The Design Head – Invert to Top Water Level
- Pipework sizes and configurations
- Invert Depths

Or just click below to use the flow rate calculator on our website:

[www.turtleenviro.co.uk/oriflo](http://www.turtleenviro.co.uk/oriflo)

