TECHNICAL DATASHEET

# WRAS APPROVED FLANGED Y-STRAINER



HOME CREATOR

Item No.: HC-91201

## 1 CERTIFICATION INFORMATION

**Declaration of conformity:** WRAS approved Flanged Y Strainer. Confirmation of the approval can be obtained from the WRAS Approvals Directory (www.wras.co.uk/directory)

**Approval Number:** 260115014

## 2 PRODUCT BASICS

**Product Name: FLANGED Y STRAINER**

**Purpose:** A **Flanged Y-Strainer** is a filtration device installed in piping systems to mechanically remove solids and debris from flowing liquids or gases using a perforated or mesh straining element.

**Manufacturer (supplier):** HOME CREATOR GROUP LTD

## 3 MAIN TECHNICAL DATA AND CHARACTERISTICS

### 3.1 SPECIFICATIONS

Table 1

| Connection thread, inch | Properties |
|---|---|
| Size | DN40–DN300 |
| Temperature Range | 0-120°C |
| Class | PN16 |
| Design | HG/T 21637-2009 |
| Face To Face | DIN 3202-F1 |
| End Flange | 1092-2 |
| Test | EN 12266 |
| a) Hydrostatic Body Test | 24 BAR |
| b) Hydraulic Seat Test | 17.6 BAR |
| c) Pneumatic Body Test | 6 BAR |
| d) Pneumatic Seat Test | 6 BAR |

### 3.2 MATERIAL OF MANUFACTURE AND CONSTRUCTION FLANGED Y STRAINER SERIES

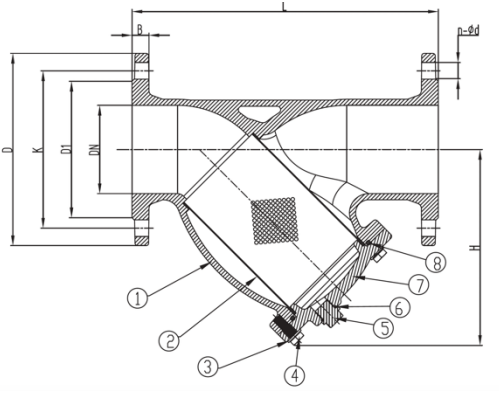



Table 2

| N0 | Name | Material |
|---|---|---|
| 1 | Body | GGG50 |
| 2 | Screen | Stainless Steel |
| 3 | Flat Washer | Stainless Steel |
| 4 | Bolts | Stainless Steel |
| 5 | Plug | Stainless Steel |
| 6 | O-Ring | EPDM |
| 7 | Bonnet | Ducitile Iron |
| 8 | O-Ring | EPDM |

### 3.4 FLANGED Y STRAINER



### 3.5 CROSS SECTION

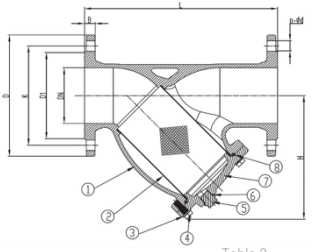



Table 3

| Item | DN | OUTLINE mm | | Flange Dimension(EN1092-2,BS4504)PN16 | | | | |
|---|---|---|---|---|---|---|---|---|
| | | L | DIN3202-F1 | | | | | |
| | | | H | D | K | n-d | D1 | B |
| HC-91201 | 40 | 200 | 120 | 150 | 110 | 4- Φ 19 | Φ84 | 19 |
| HC-91201 | 50 | 230 | 140 | 165 | 125 | 4- Φ 19 | Φ99 | 19 |
| HC-91201 | 65 | 290 | 175 | 185 | 145 | 4- Φ 19 | Φ118 | 19 |
| HC-91201 | 80 | 310 | 200 | 200 | 160 | 8- Φ 19 | Φ132 | 19 |
| HC-91201 | 100 | 350 | 225 | 220 | 180 | 8- Φ 19 | Φ156 | 19 |
| HC-91201 | 125 | 400 | 260 | 250 | 210 | 8- Φ 19 | Φ184 | 19 |
| HC-91201 | 150 | 480 | 310 | 285 | 240 | 8- Φ 23 | Φ211 | 19 |
| HC-91201 | 200 | 600 | 390 | 340 | 295 | 12- Φ 23 | Φ266 | 20 |
| HC-91201 | 250 | 730 | 480 | 405 | 355 | 12- Φ 28 | Φ319 | 22 |
| HC-91201 | 300 | 850 | 560 | 460 | 410 | 12- Φ 28 | Φ370 | 25 |

## 4 INSTALLATION AND OPERATION

4.1 Installation of the Flanged Y Strainer PN16 should be carried out by qualified personnel in accordance with applicable installation standards and relevant water regulations.
4.2 For optimal performance, HC-91201 strainer valves should be installed horizontally with the strainer located below the pipeline. However, vertical installation is also acceptable provided that the flow direction is observed, and the arrow marked on the valve body points upward."
4.3 Flanged connections must be assembled using suitable gaskets and compatible fasteners in accordance with EN1092-2 or equivalent flange standards.
4.4 The strainer must not be subjected to external stresses from the pipeline system such as bending, torsion, vibration, or misalignment.
4.5 After installation, the pipeline system should be pressure tested to verify sealing integrity and operational performance.
4.6 The strainer must be operated within the specified pressure and temperature limits (PN16 and 0°C to 80°C).
4.7 During installation, ensure proper alignment of the flanges and use appropriate tools to prevent damage to the body and cover.
4.8 Bolts must be tightened evenly using a cross-tightening method to ensure uniform sealing and prevent leakage.
4.9 Care must be taken to ensure that no debris, sealing materials, or contaminants enter the internal chamber during installation.
4.10 The Y Strainer is designed for continuous filtration of the working medium and does not require manual operation.
4.11 In systems with high levels of debris, regular inspection and cleaning of the strainer element is recommended to maintain performance.

## 5 DESCRIPTION AND WORK

The Flanged Y Strainer PN16 is designed to remove solid particles and impurities from pipeline systems, protecting downstream equipment such as valves, pumps, and meters. The strainer operates by directing the flow through an internal mesh screen, which captures debris while allowing clean fluid to pass through. Accumulated particles are collected in the strainer chamber and can be removed during maintenance.
The unit is suitable for use with water, sewage, and air systems within the specified temperature range of 0°C to 80°C. The strainer is manufactured in accordance with HG/T21637 design standards, with face-to-face dimensions complying with with BS2080 and flange connections meeting EN1092-2 and related international standards.

## 6 MAINTENANCE

6.1 The strainer must be operated within the specified pressure and temperature limits to ensure safe and efficient performance.
6.2 Regular inspection and cleaning of the internal mesh screen is recommended, especially in systems with high levels of contaminants.
6.3 The frequency of maintenance depends on system conditions and the level of debris present in the pipeline.

6.4 Before performing maintenance, the system must be fully depressurized, drained, and cooled to ambient temperature.
6.5 Only appropriate tools should be used when removing the cover to prevent damage to the sealing surfaces and components.

## 7 STORAGE AND TRANSPORTATION CONDITIONS

Products must be transported in the manufacturer's original packaging in accordance with applicable transportation regulations.
The strainer should be stored in a clean, dry indoor environment, protected from moisture, dust, and mechanical damage.
Protective end covers must remain in place until installation. Periodic inspection is recommended during long-term storage to ensure product integrity..

## 8 RESOURCES, LIFETIMES AND MANUFACTURER'S (SUPPLIER'S) WARRANTIES

8.1 Average full service life of a Flanged Y Strainer: 3 years.
8.2 The manufacturer (supplier) guarantees the operability and compliance with the safety requirements of the product if the consumer complies with this technical passport HC-91201.
8.3 Warranty period: 12 Months from the date of sale to the end user / from the date of commissioning of the object. The warranty covers all defects caused by the manufacturer.
8.4 When making claims about the quality of the goods, the buyer provides the following documents:
8.4.1 An application in any form, which indicates:
a) Name of the organization or F. And. About. buyer, actual address, contact phone number;
b) The name and address of the organization that carried out the installation of the product; c) a brief description of the malfunction of the product.
8.4.2 A document confirming the purchase of the product (cash/sales receipt, waybill, receipt, etc.).
8.4.3 Photos of the product confirming its malfunction, or the product itself.
8.4.4 Act of hydraulic testing of the system in which the product was mounted.
8.4.5 Completed warranty card.
8.5 The warranty does not cover defects arising from:
8.5.1 Violations of the passport regimes of storage, transportation, installation and operation of the product.
8.5.2 The presence of traces of extraneous interference in the design of the product.
8.5.3 Effects of substances aggressive to the materials of the product.
8.5.4 Effects on the product of excessive force.

8.5.5 Impact on the product of fire, natural disasters and other force majeure circumstances.
8.6 The warranty also does not apply in cases where the manufacturer's markings are partially or completely changed erased, removed or illegibly visible.
8.7 In case of unreasonableness of the claim, the costs of diagnostics and examination of the product are paid by the buyer.
8.8 Manufacturer HOME CREATOR GROUP. LTD reserves the right to make changes to the design of the product that do not affect the declared technical characteristics.
8.9 Claims for the quality of the goods can be made during the warranty period at the address of the manufacturer HOME CREATOR GROUP. LTD.

## 9 CERTIFICATE OF ACCEPTANCE AND PACKAGING

9.1 Flanged Y Strainers packed by the manufacturer.
9.2 Packaging ensures the safety of products subject to compliance with clause 7.
9.3 The materials and substances used for packaging are safe for people and the environment.
9.4 The batch of Flanged Y Strainers is recognized as suitable for operation and is accepted with 100% = 2.5 * PW.

| | | | |
|---|---|---|---|
| Date of manufacture | | QUALITY Mark | |

10 **NOTE**

WARRANTY CARD No _____

Name: WRAS APPROVED FLANGED Y STRAINER

Article: HC-91201 Quantity: _____

Name and Address of the trading organization: _____

Date of Sale: _____ Seller's full name / Seller's signature, Stamp / seal of the trading organization: _____

I agree with the terms of the warrant: _____

Product Return Mark: _____

Buyer's signature: _____

Date / Signature: _____

View your passport online:

**WARRANTY PERIOD: 12 MONTHS**

Warranty is provided.
according to paragraph 8 of the technical passport HC-91201

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