TECHNICAL DATASHEET
WRAS APPROVED Y PATTERN STRAINER



HOME CREATOR

Item No.: HC-30822, HC-30822DR

1 CERTIFICATION INFORMATION

Declaration of conformity: WRAS approved Y pattern strainer. Confirmation of the approval can be obtained from the WRAS Approvals Directory (www.wras.co.uk/directory)
Approval Number: 250804010

2 PRODUCT BASICS

Product Name: **WRAS APPROVED Y PATTERN STRAINER (FXF series)**
Purpose: It is used for preliminary cleaning of mechanical impurities in domestic and drinking systems of hot and cold water supply, compressed air, oil and liquid hydrocarbons.
Manufacturer (supplier): HOME CREATOR GROUP LTD.

3 MAIN TECHNICAL DATA AND CHARACTERISTICS

3.1 SPECIFICATIONS

Table 1

Connection thread, inch	1/2"	3/4"	1"	11/4"	11/2"	2"
Nominal diameter DN, mm	15	20	25	32	40	50
Nominal pressure PN, bar	20	20	20	20	20	20
Operating temperature range, ºC	From 20 to +120					
Throughput factorclean filter, m3 /h	3.4	6.1	8.7		20.8	24.3
Connection thread (ISO 228)	Parallel					
Average full-service life	20 years					

3.2 MATERIAL OF MANUFACTURE AND CONSTRUCTION

Female-Female thread (FxF)

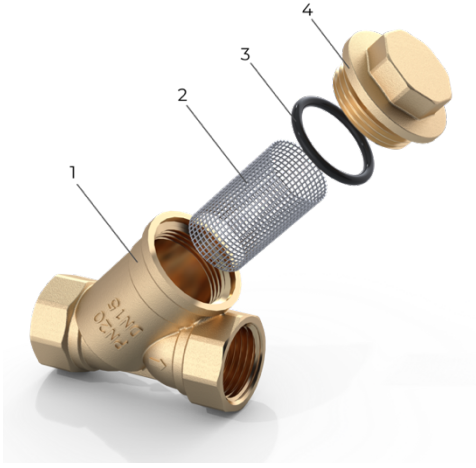


Table 2

Name	Material
Body (1)	Brass CW617N
Filter (2)	Stainless Steel
Washer (3)	EPDM
Cap (4)	Brass CW617N

1. HOME CREATOR brass products are made by hot stamping of brass grade CW617N as per the European standard EN12165.
2. The Rubber Mat are made of EP8018F EPDM according to European standards.
3. We can also provide this item in DZR brass upon customer request.

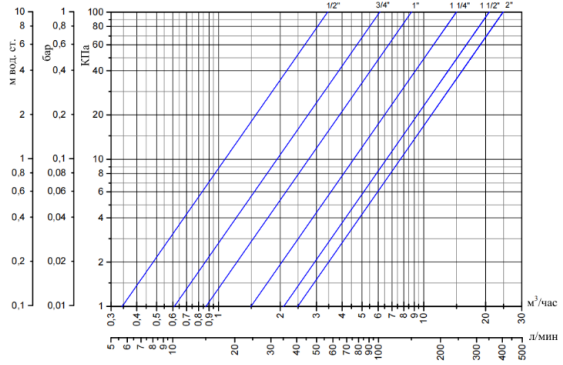
3.3 FLOW-DIFFERENCE CHARACTERISTIC OF A CLEANING FILTER

Table 3

Size, Inch	Size, Inch	Cv	Kv
HC-30822	1/2"	3.9	3.4
HC-30822	3/4"	7.1	6.1
HC-30822	1"	10.1	8.7
HC-30822	11/4"	16.70	14.4
HC-30822	11/2"	24.13	20.8
HC-30822	2"	28.19	24.3

47

-Cv: flow rate in US GPM at a pressure drop of 1 psi.
-Kv: flow rate in m3 per hour at pressure drop of 1 bar.



3.4 Y PATTERN STRAINER LEAVER HANDLE

Female-Female thread (FxF)



3.5 CROSS SECTION

Female-Female thread (FxF)

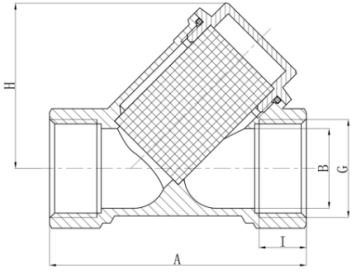


Table 4

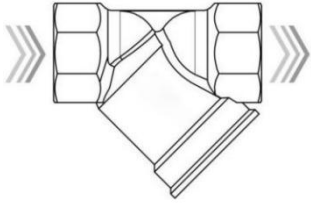
Item	DN	Size	Weight (g)	Overall dimensions, mm			
				A	I	B	H
HC-30822	15	1/2"	138	58	11	17	40
HC-30822	20	3/4"	204	70	15.50	22.50	48
HC-30822	25	1"	375	87	17.50	27.50	56
HC-30822	32	1 1/4"	554	96	18.50	34.50	66.50
HC-30822	40	1 1/2"	801	106	19	41.50	75
HC-30822	50	2"	1094	126	20.50	55	89.50

4 INSTALLATION AND OPERATION

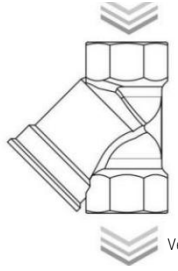
4.1 With the Installation Requirement Notes (IRNs) "WRAS water regulation approval schedule".The filter can be installed both horizontally and vertically, while the filter plug should be directed downwards, and the arrow on the body should coincide with the direction offlow of the filtered medium.

4.2 For filters with pipe thread connections, the valve cover should always be downward when installed and tightened. The pipe should be clean and free of sediment and rust, and the sealing material such as raw material tape should be clean and clean.

4.3 The filter can be installed both horizontally and vertically, while the filter plug should be directed downwards, and the arrow on the body should coincide with the direction offlow of the filtered medium.



Horizontal installation



Vertical installation

4.4 The pipe thread is connected to the filter. When installing and tightening, the pipe should be perpendicular to the end face of the valve body. Use a wrench on the hexagonal or octagonal part on the same side of the thread instead of the hexagonal or octagonal part on the other end. The tightening torque of should not be greater than as per table 5, to avoid deformation of the valve body. Picture 1

Size, inch	1/2"	3/4"	1"	11/4"	11/2"	2"
Maximum torque, N·m	30	40	60	80	80	110





4.5 When both ends of the filter are internally threaded, the length of the external thread at the pipe end must be controlled to prevent the pipe end from pressing against the internal threaded end surface of the filter when the pipe end thread is screwed in, causing deformation of the sealing surface of the valve body and affecting product performance and life. as shown in picture 2.



Picture 2

4.6 When installing the filter, the pipes at both ends must be in the same straight line as the valve to avoid bending and misalignment. The direction of the product arrow is the same as the direction of the water flow.



Picture 3

4.7 The product installation location should leave enough space for the filter cap to be opened and withdrawn for filter cleaning.
4.8 The filter should not experience loads from the pipeline (bending, compression, tension, torsion,distortions, vibration, uneven tightening of fasteners, etc.).
4.9 Upon completion of installation work, individual leak tests should be carried out for the installed equipment usinga hydraulic or pneumatic method, drawing up act of standards.

5 DESCRIPTION AND WORK

5.1 In the inner part of the filter housing, under the plug (3), there is a filter element (2), made in the form of a fine-mesh stainless steel cylinder. In the process of passing flow corresponding to the direction of the arrow on the filter marking from the inlet pipe, small particles in the flow remain onthe walls of the cylindrical filter element, thereby preventing them from entering the outlet pipe.
5.2 When choosing a filter, you need to take into account the technical characteristics specified in clause 3 and clause 4.
5.3 To select a filter, its hydraulic resistance can be calculatedusing the formula:
$\Delta P=(Q/Kvs)2$, Where: ΔP=Pressure drop across the filter (bar), Q=Calculated flow rate passing through the filter (m3/h), Kvs=Clean filter throughput coefficient (m3/h).
5.4 For ease of installation of the filter with metering devices, the plug is provided with an eyelet for sealing.

6 MAINTENANCE

6.1 Products must be operated within the limits specified in clause 3 (Table No. 1) of this technical data sheet.
6.2 If the filter is used in pipeline systems with a high content of mechanical impurities, it is recommended to regularly clean the filter, the need for which may be indicated by a pressure drop across the filter of more than 50 kPa.
6.3 To clean the filter, you need to close the shut-off element installed in front of the filter. Unscrew the plug, remove the filter element and rinse it with water. After mounting the element back into the pipe, screwing it with a plug, after checking the integrity of the fluoroplastic seal of the plug.

6.4 When using filter elements from other manufacturers, the manufacturer is not responsible for the quality of the filter.

7 STORAGE AND TRANSPORTATION CONDITIONS

Products are transported in the packaging of the manufacturer in accordance with the rules operating on the mode of transport used.

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

8.1 Average full service life of a Y pattern strainer: 20 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-30822, HC-30822DR.
8.3 Warranty period: 5 years 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 Y pattern strainer 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 Y pattern strainer is in the open position.
9.5 The batch of Y pattern strainer is recognized as suitable for operation and is accepted with 100% control at Pnp = 1.5* Py.

Date of manufacture		QUALITY Mark	

10 NOTE

WARRANTY CARD No _____

Name: WRAS APPROVED Y PATTERN STRAINER

Article: HC-30822, HC-30822DR 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: 5 YEARS

Warranty is provided.
according to paragraph 8 of the technical passport HC-30822, HC-30822DR

HOME CREATOR GROUP LTD | LONDON, UK
Add: 167-169 Great Portland Street, London,
W1W 5PF, United Kingdom
Web: www.homecreatorgroup.com
Tel: +971 558432055