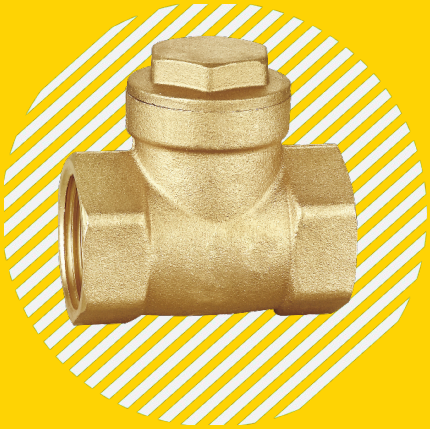
TECHNICAL DATASHEET
SWING CHECK VALVE

HOME CREATOR



Item No.: HC-04033, HC-04033DR

1 CERTIFICATION INFORMATION

Declaration of conformity: According to market normsand complies with established standards.

2 PRODUCT BASICS

Product Name: **SWING CHECK VALVE (FXF series)**

Purpose: Check valves are mostly used in fire protection systems, water treatment systems, household water systems, air conditioning and heating systems and water supply and drainage systems in cities. Some of the risks they can stop are water metres turning over and stopping, and sewage backflowing into main pipes.

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					
Connection thread (ISO 228)	Parallel					
Average full-service life	20 years					

3.2 MATERIAL OF MANUFACTURE AND CONSTRUCTION

Female-Female thread (FxF)

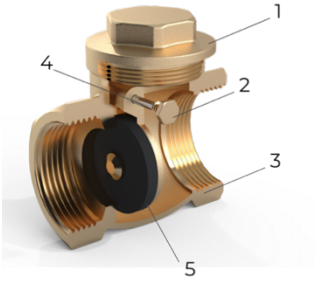


Table 2

Name	Material
Bonnet (1)	Brass CW617N
Blacking Cap (2)	Brass
Body (3)	Brass CW617N
Plug (4)	304
Flat Washer (5)	EPDM

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

Table 3

Item	Size, Inch	Cv	Kv
HC-04033	1/2"	3.9	3.4
HC-04033	3/4"	7.1	6.1
HC-04033	1"	10.1	8.7
HC-04033	11/4"	16.70	14.4
HC-04033	11/2"	24.13	20.8
HC-04033	2"	28.19	24.3

-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 SWING CHECK VALVE

Female-Female thread (FxF)



3.5 CROSS SECTION

Female-Female thread (FxF)

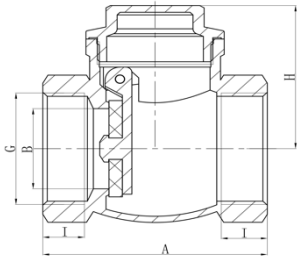


Table 4

Item	DN	Size	Weight (g)	Overall dimensions, mm			
				A	I	B	H
HC-04033	15	1/2"	149	49	11.50	14.50	32.50
HC-04033	20	3/4"	210	53.50	12	18	37
HC-04033	25	1"	350	69	14	23	43.50
HC-04033	32	1 1/4"	574	75.50	14	30	53.50
HC-04033	40	1 1/2"	857	85	15	35.50	62
HC-04033	50	2"	1216	93.50	15	44	70

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 The pipe thread is connected to the check valve. The pipe should be clean and free of sediment and rust. The sealing material such as raw material tape should be clean and clean.

4.3 When the pipe thread is connected to the check valve, the pipe should be perpendicular to the end face of the valve body when tightening it. 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 installation torque of DN15 and DN20 should not be greater than 50N • m, and the installation torque of DN25 should not be greater than 70N • m, so as not to cause deformation of the valve body or affect the opening.

4.4 When both ends of the check valve are internally threaded, the length of the external thread at the pipe end must be controlled to prevent the pipe end thread from pressing against the internal threaded end surface of the check valve when the pipe end thread is screwed in, causing deformation of the sealing surface of the valve body and affecting the sealing performance as shown in Picture 1.



Picture 1

4.5 When installing the check valve, the pipes at both ends must be in the same straight line as the valve to avoid bending and misalignment up and down, as shown in Picture 2.



Picture 2

4.6 Ensure that the direction of the arrow on the valve body is consistent with the flow direction of the medium in the pipeline.
4.7 The product installation location should leave enough space for the cap to be opened and withdrawn for the cleaning.
4.8 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 Check valves are mainly used on pipelines with one-way flow of media. They can automatically prevent the fluid (medium) from flowing back and only allow the medium to flow in one direction.
5.2 The structure is simple. The valve body and valve disc are processed and formed by professional CNC turning machines and diamond knives. The sealing surface smoothness is 0.8, and the manufacturing precision is high to ensure the sealing performance.
5.3 The copper parts are hot forged using national standard brass CW617N. The material has high density, smooth surface, and no blisters, inclusions and other defects. After forging, it is annealed and shot blasted to eliminate the internal stress during processing and improve the toughness of the valve body. Good, strong pressure resistance, not easy to crack, no surface leakage.
5.4 Stainless steel pins are used to resist friction and increase the service life of the valve.
5.5 The thread protective sleeve not only protects the threads but also prevents the baffle from being damaged during transportation and affecting the sealing performance.

6 MAINTENANCE

6.1 Articles must be operated within the values specified in para. 3, para. 4 of this technical passport.
6.2 To extend the service life of sealing elements, it is recommended to open / close the HOME CREATOR check valve at least 1 time in 6 months.

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 swing check valve: 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-04033,HC-04033DR.
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 Swing check valve 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 swing check valve is in the open position.
9.5 The batch of swing check valve 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: SWING CHECK VALVE

Article: HC-04033, HC-04033DR

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-04033, HC-04033DR

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