TECHNICAL DATASHEET

WRAS APPROVED WAFER CHECK VALVE

HOME CREATOR



Item No.: HC-90901

1 CERTIFICATION INFORMATION

Declaration of conformity: WRAS approved Wafer Check valve. Confirmation of the approval can be obtained from the WRAS Approvals Directory (www.wras.co.uk/directory)

Approval Number: 260115708

2 PRODUCT BASICS

Product Name: WRAS APPROVED WAFER CHECK VALVE

Purpose: This Wafer Check Valve PN16 features a spring-assisted dual plate design with cast iron body and fusion bonded epoxy coating for reliable back flow prevention and durable pipeline performance.

Manufacturer (supplier): HOME CREATOR GROUP LTD.

3 MAIN TECHNICAL DATA AND CHARACTERISTICS

3.1 SPECIFICATIONS

Table 1

Connection Thread, Inch	Properties
Size	DN50-DN300
Temperature Range	0-80ºc
Class	PN16
Design	BS EN 593 :2004
Face to Face	EN 558-1
End Flange	1092-2
Test	EN 12334
a) Hydrostatic Body Test	24 Bar
b) Hydrostatic Seat Test	17.6 Bar
c) Pneumatic Body Test	6 Bar
d) Pneumatic Seat Test	6 Bar

3.2 MATERIAL OF MANUFACTURE AND CONSTRUCTION WAFER CHECK VALVE SERIES

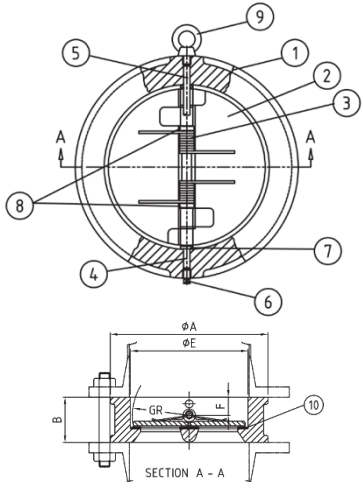


Table 2

N0	Name	Material
1	Body	DI
2	Plate	CF8
3	Spring	SS304
4	Hinge PIN	SS420
5	Stop PIN	SS420
6	Plug	Carbon Steel
7	Body Bearing	PTFE
8	Spring Bearing	PTFE
9	Bolt	Carbon Steel
10	Body Seat	EPDM

1. The HC-90901 Wafer Check Valve PN16 features a cast iron body with fusion bonded epoxy coating for durability and corrosion protection.
2. The valve is designed with dual plate wafer pattern and spring-assisted self-acting closure for reliable flow control performance.
3. Face-to-face dimensions comply with BS EN 558-1, flanged connections comply with EN 1092-2, and pressure testing is carried out according to EN 12334 standards.

3.4 WAFER CHECK VALVE



3.5 CROSS SECTION

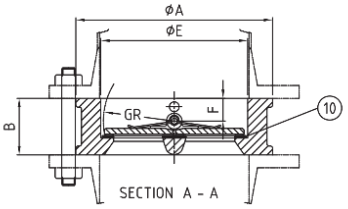


Table 3

Item	Size DN	A	E	B	GR	F
HC-90901	DN50/2"	107	65	43	28.8	19
HC-90901	DN65/2.5"	127	80	46	36.1	20
HC-90901	DN80/3"	142	94	64	43.4	28
HC-90901	DN100/4"	162	117	64	52.8	27
HC-90901	DN125/5"	192	145	70	65.7	30
HC-90901	DN150/6"	218	170	76	78.6	31
HC-90901	DN200/8"	273	224	89	104.4	33
HC-90901	DN250/10"	328	265	114	127	50
HC-90901	DN300/12"	382	310	114	148.3	43
HC-90901	DN350/14"	442	360	127	172.4	45
HC-90901	DN400/16"	495	410	140	197.4	52
HC-90901	DN450/18"	555	450	152	217.8	58
HC-90901	DN500/20"	617	505	152	241	58
HC-90901	DN600/24"	734	624	178	295.4	73

4 INSTALLATION AND OPERATION

4.1 Installation of a Wafer Check valve should be carried out by a specialist or a specialized organization in accordance with the Installation Requirement Notes (IRNs) "WRAS water regulation approval schedule".
4.2 The Wafer Check valve can be installed in any mounting position, both horizontal and vertical. Any direction of the working medium is allowed.
4.3 Sealing of threaded connections should be carried out using standard sealing materials.
4.4 The Wafer Check valve should not experience loads from the pipeline (when bending, compressing, stretching, torsion, braiding, vibration, uneven tightening of the fasteners, etc.)
4.5 Upon completion of the installation work, it is necessary to carry out individual tests of the equipment with the preparation of the act.
4.6 The Wafer Check valves shall be operated in accordance with the characteristics specified in paragraph 3. of this technical passport.
4.7 When installing a valve, in order to prevent the formation of cracks and chips on the coupling ends of the valve, as well as deformation of the valve body or depressurization of the connection point of the semi-hulls, it is recommended to use standard carob Keys.
4.8 During installation, when tightening the valve, the key must be captured by the hexagon of the housing closest to the connection thread. It is not allowed to exceed the tightening moments indicated in the table below
4.9 To exclude possible contaminants associated with the installation of the valve (excess sealing material, paste, etc.) into the internal cavities of the tap, the valve should be mounted in a fully open position.
4.10 The Wafer Check valve has only two operating positions: fully open or fully closed. It is not allowed to use HOME CREATOR Wafer Check valves as control valves, this can lead to a reduction in service life.
4.11 In the case of using the valve in pipeline systems with a high content of mechanical impurities, it is recommended to additionally mount a U-shaped filter for cleaning HOME CREATOR.

5 DESCRIPTION AND WORK

This Wafer Check Valve PN16 is designed to prevent reverse flow in pipeline systems automatically. The valve features a spring-assisted dual plate mechanism for fast and reliable closure, reducing water hammer and backflow risks. Its cast iron body with fusion bonded epoxy coating provides durability and corrosion resistance for long-term operation. The valve is suitable for water supply, HVAC, industrial and general pipeline applications.

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 Wafer 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 Wafer Check valve: 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-90901.
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 Wafer Check valves 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 Wafer Check valve is in the open position.
9.5 The batch of Wafer Check valves is recognized as suitable for operation and is accepted with 100% control at RPR = 2.5 * PW.

Date of manufacture		QUALITY Mark	

10 **NOTE**

WARRANTY CARD No _____

Name: WRAS APPROVED WAFER CHECK VALVE

Article: HC-90901 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-90901

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