TECHNICAL DATASHEET
PRESSURE REDUCING VALVE

HOME CREATOR



Item No.: HC- 50902, HC- 50902DR

1 CERTIFICATION INFORMATION

Declarationofconformity: WRAS Approved pressure reducing valve, confirmation of the approval can be obtained from WRAS approvals directory. (www.wras.co.uk/directory).

Approval Number: 250102721

2 PRODUCT BASICS

Product Name: WRAS APPROVED PRESSURE REDUCING VALVE

Purpose: Pressure reducing valves lower and stabilize upstream pressure to downstream pressure. Under high and unpredictable public mains pressure, a pressure reduction valve adjusts downstream pressure to an adjusted level.

Manufacture (supplier): HOME CREATOR GROUP LTD.

3 MAIN TECHNICAL DATA AND CHARACTERISTICS

3.1 SPECIFICATIONS

Table 1

Connection thread, inch	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Nominal diameter DN, mm	15	20	25	32	40	50
Nominal pressure PN, Bar	25	25	25	25	25	25
Outlet Pressure	1 & 5.5 bars			1& 6 bars		
Operating temperature range, °C	0 to +80					
Maximum inlet pressure	25 bars					
Factory Preadjustment	3 bars					
Outlet pressure gauage	Connection 1/4" on both sides.					
Connection thread (ISO 228)	Parallel					

3.2 MATERIAL OF MANUFACTURE AND CONSTRUCTION OF PRESSURE REDUCING VALVE

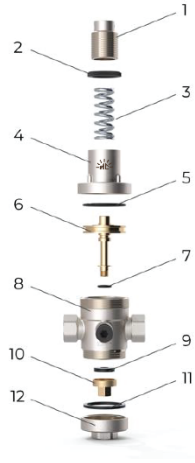
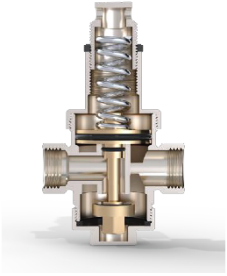


Table 2

NO	Name	Material
1	Adjustable Nut	Brass CW617N
2	O-Ring	EPDM
3	Spring	AISI 304
4	Bonnet	Brass CW617N
5	O-Ring	EPDM
6	Screw Rod	BRASS
7	O-Ring	EPDM
8	Body	Brass CW617N
9	Gasket	EPDM
10	Plug	BRASS
11	Gasket	EPDM
12	End Cap	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 reauest.

3.3 PRESSURE REDUCING VALVE



3.4 CROSS SECTION

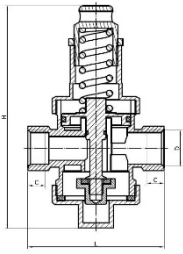
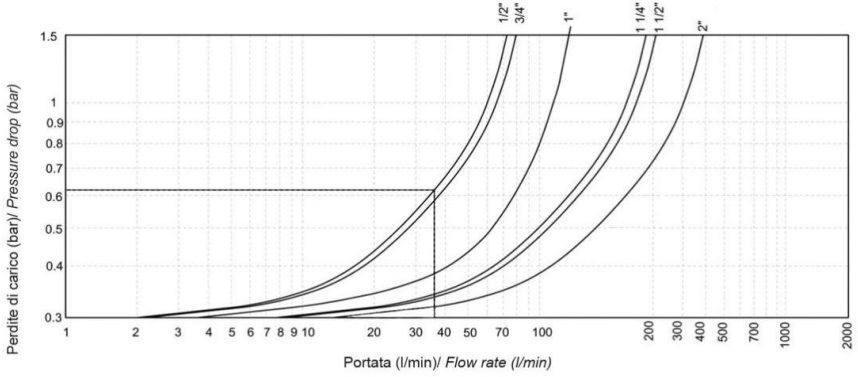


Table 3

Item	DN	Adapter Size	Weight, g		Overall dimensions, mm			
				Kg/cm2 bar	D	C	L	H
HC-50902	15	1/2"	586	25	G1/2"	14.5	70	121
HC-50902	20	3/4"	637	25	G3/4"	14.5	80	121
HC-50902	25	1"	893	25	G1"	15	85	141
HC-50902	32	1 ¼"	1503	25	G 1 1/4"	17	105	159
HC-50902	40	1 ½"	1578	25	G1 1/2"	18.5	115	159
HC-50902	50	2"	2101	25	G2"	22	120	175

3.4 MAXIMUM PRESSURE CONDITIONS

Size	Max Pressure (bar)	Min/Max Temperature (℃)	Test Pressure		Max Pressure (psi)	Min/Max Temperature (℉)	Test Pressure	
			Shell (bar)	Seat (bar)			Shell (psi)	Seat (psi)
1/2" to 2"	25	-10℃ to +85℃	37.5	27.5	362.5	14℉ to 185℉	543.9	398.9



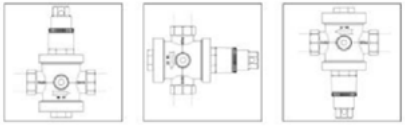
4 INSTALLATION AND OPERATION

4.1 The pressure reducing valve must be installed and maintained by a specialist or specialized organization.
4.2 Open all the exits to flush the system and get rid of any air that might be in the pipes before you put in the pressure reducing valve.
4.3 Put shut-off valves upstream and downstream to make maintenance work easier.
4.4 Use the arrow stamped on the body to go in a right-hand direction.
4.5 Pressure-lowering valve can be put in pipes that are either vertical or horizontal. It can also be put together backwards.
4.6 It has a threaded link that can be used with a pressure gauge. The plug can be unscrewed so that a 1/4" pressure gauge can be put in. The pressure gauge will show the pressure after the lowering valve when it is in this position.
4.7 A downstream pressure of 3 bar is used to test and set the whole range of pressure reducing valves. The adjusting device can be used to change the pressure further downward.
4.8 When you make the last change to the pressure-lowering valve, your private water system must be full and all of its outlets must be closed. The pressure upstream must be at least 1 bar higher than the pressure that has been changed. Setting the pressure lowering valve to a different downstream pressure than the 3 bar pressure that was already set: To make changes, close the downstream shut-off valve and unscrew the nylon nut (Fig. 4.1). On the top of the device, use a tool or a screwdriver to make the changes (Fig. 4.2). Turn the nut anticlockwise to raise the pressure downstream and anticlockwise to lower it; - Open the private water system's outlets to make sure the new pressure stays stable; - Set the new pressure downstream with all the outlets closed and the water at room temperature; - Tighten the nylon nut (Fig. 4.3). 4 7











4.9 The PTFE can only be used as a sealant at the points where water pipes meet pressure-reducing valves.
4.10 The right scheme of installation is shown in Fig. 5.2.

5 DESCRIPTION AND WORK

5.1 Maintenance of the pressure reducing valve during operation is reduced to periodic inspections.
5.2 The pressure reducing valve must be operated under the conditions specified in the technical characteristics table; temperature and pressure must not exceed the given values.
5.3 Every 12 months of operation of the pressure reducing valve, it is necessary to carry out maintenance of the device. If there is no pressure in the system, check the5 Fig.5.2 condition of the connections and seals, and also remove accumulated dirt from the housing and the air valve.
5.4 When servicing the device, during dismantling and installing the housing cover, you should be especially careful with the spool part of the locking mechanism, especially its spring part. This unit is not subject to disassembly and reconfiguration. When reassembling the housing cover, after removing sludge and contaminants from the housing glass, it is necessary to restore the connection between the spool spring bracket and the float.
5.5 To extend the service life of sealing elements, it is recommended to open / close the HOME CREATOR pressure reducing valve at least 1 time in 6 months

6 MAINTENANCE

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

7 STORAGE AND TRANSPORTATION CONDITIONS

7.1 Average full service life of a pressure reducing valve: 30 years.
7.2 The manufacturer (supplier) guarantees the operability and compliance with the safety requirements of the product if the consumer complies with this technical passport HC -50902, HC-50902DR.
7.3 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.
7.4 When making claims about the quality of the goods, the buyer provides the following documents:
7.4.1 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.
7.4.2 A document confirming the purchase of the product (cash/sales receipt, waybill, receipt, etc.).
7.4.3 Photos of the product confirming its malfunction, or the product itself.
7.4.4 Act of hydraulic testing of the system in which the product was mounted.
7.4.5 Completed warranty card. 7.5
7.5 The warranty does not cover defects arising from:

7.5.1 Violations of the passport regimes of storage, transportation, installation and operation of the product.
7.5.2 The presence of traces of extraneous interference in the design of the product.
7.5.3 Effects of substances aggressive to the materials of the product.
7.5.4 Effects on the product of excessive force.
7.5.5 Impact on the product of fire, natural disasters and other force majeure circumstances.

7.6 The warranty also does not apply in cases where the manufacturer markings are partially or completely changed erased, removed or illegibly visible.

7.7 In case of unreasonableness of the claim, the costs of diagnostics and examination of the product are paid by the buyer.

7.8 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.

7.9 Claims for the quality of the goods can be made during the warranty period at the address of the manufacturer HOME CREATOR GROUP LTD.

8 CERTIFICATE OF ACCEPTANCE AND PACKAGING

9.1 Pressure reducing valve packedby 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 pressure reducing valve is in the open position.

9.5 The batch of f pressure reducing valve is recognized as suitable for operation and is accepted 100% control at RPR = 2.5 * PW.

Date of manufacture		QUALITY Mark	

10 **NOTE**

WARRANTY CARD No _____

Name: PRESSURE REDUCING VALVE

Article: HC-50902, HC-50902DR 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-50902, HC-50902DR

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