Stainless Steel Air Vent Valves Series W-PQ21X-16P

Installation manual



Watts.eu



This installation instruction is available in the official languages of the EC on our web site or by requesting our sales department

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Οι παρούσες οδηγίες εγκατάστασης διατίθενται στις επίσημες γλώσσες της Ευρωπαϊκής Κοινότητας στον ιστότοπό μας η μέσω απλής αίτησης από το τμήμα πωλήσεων μας.:

Introduction

The Series W-PQ21X-16P Automatic Air Vent Valves provide automatic air venting for hot or cold water distribution systems. These vents purge air that may be in the water system. The vent valve utilizes a float to actuate the valve plug which is located at the top of the valve. Once the air is displaced and the system pressure is sustained, the valve plug seals and prevents any water from escaping from the system. The float vent can also operate as an anti-vacuum device since it will permit air to enter the system when it must be drained. It can also be installed to permit the separation and dispersal of air while fluid is actually circulating in the system.

Suitable media: Water and water/glycol mixtures containing up to 50% glycol. Not suitable for aggressive media, steam or gases. Only use in combination with suitable pipes and seals. WATTS cannot be held responsible for malfunction, damage or injury resulting from failure to comply with these instructions.

European Directives

Our check valves subject to directives are the object of statements of conformity available from our sales department.

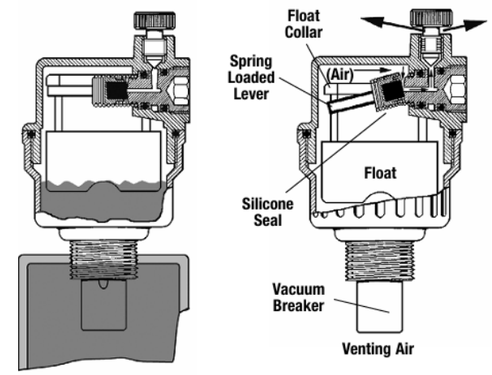
Directive 2014/68/UE (Equipment under Pressure)

Our W5000 strainers DN15-DN100 (1 to 4") are compliant with Equipment Under Pressure Directive 2014/68/EU according to Article 4.3 without CE marking.

Pressure - Temperature

Maximum working pressure: 16 bar

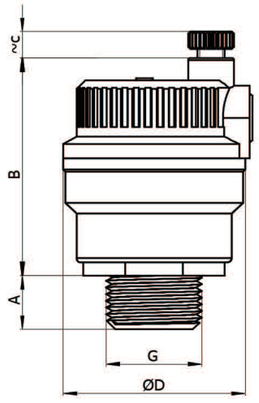
Temperature Range: -20°C to 110°C



Specification

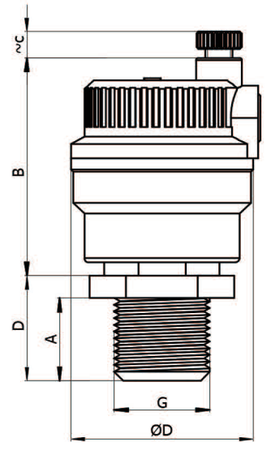
Air vent shall have stainless steel body & cover and silicone rubber seal. Float shall be constructed of high temperature resistant polypropylene and shall be for use with glycol systems. Air vent shall be Watts Series W-PQ21X-16P

Installation Dimensions



DN10–15

Figure 2: W-PQ21X-16P
SS Air Vent – DN10-15



DN20–25

Figure 3: W-PQ21X-16P
SS Air Vent - DN20-25

W-PQ21X-16P

DN	G	A	B	C	D	φD
10	3/8"	10	49	7	/	40
15	1/2"	12	49	7	/	40
20	3/4"	18.5	49	7	23.5	40
25	1"	18.5	49	7	23.5	40

Transport and storage

Transport: Protect from mechanical damage, use suitable packaging. Storage: Store indoors in clean, dry premises protected from UV light at temperatures between -10°C and +40°C. Keep product in original packaging until installation.

Installation

Before installation, depressurize and drain the pipeline. Inspect damage, debris, or contamination. Verify materials compatibility with process media and cleaning agents. Ensure all connections, gaskets, and ferrules are clean and undamaged.

Fig. 1

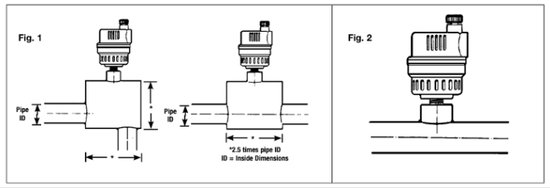
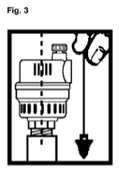


Fig. 2

Fig. 3



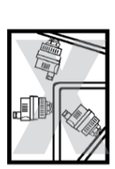


Fig. 4





Figure 1 shows the installation of the W-PQ21X-16P for the venting of air while the fluid is circulating in the system. The figure shows the required increase in pipe size in order to obtain proper separation of air from water. Watts Series AS Air Scoop which is designed for efficient separation of air from water in hydronic heating systems can also be installed. Figure 2 When the W-PQ21X-16P is installed as shown, the air will not be vented while the fluid is circulating in the system, but it can vent when the system is shut off. The W-PQ21X-16P should be mounted only in a vertical position as its operation is based on the vertical movement of the float (see Fig. 3).

Notice: In order to get the best results in venting air from risers, use connecting pipes of at least 1⁄2” diameter between the “Float Vent” valves and the installation.

Maintenance

Corrosive water conditions, and/or unauthorized adjustments or repair could render the product ineffective for the service intended. Regular checking and cleaning of the product’s internal components helps assure maximum life and proper function. When the W-PQ21X-16P is disassembled for inspection or cleaning, it is important that when re-assembling to ensure that the spring loaded lever properly engages under the float collar (see reverse side)

Operation

Important: After installing the W-PQ21X-16P, back off the small vent cap two turns (see Fig. 4). This is the proper operating setting which will allow air to be vented from the system. It is advisable to leave the cap on to prevent impurities from entering the valve.

Disassembly and Cleaning

Isolate and depressurize the system before disassembling.

Safety

Personnel carrying out installation, operation or maintenance must be qualified. Always release pressure before dismantling. Wear suitable PPE when handling hot media. Prevent unauthorized operation. Verify there is no leakage after installation.

As well as the indications given in the preceding paragraphs of this notice, it is imperative that the following instructions be followed:

- This notice must be available on site where W-PQ21X-16P air vent valves are installed.
- Personnel carrying out any intervention on the valve (installation, setting, reparation, maintenance) must be qualified for the task.

It is the responsibility of the user to check after the installation of the valve that there is no leakage.

- Internal rules and legislation current in the country concerned with respect to health and safety at work must be applied and respected.
- The valve and its control must not undergo any modification without prior approval from our advisory service.

WATTS is not responsible for any damage which may be caused by the use of parts or accessories which are not genuine Socla

⚠ Danger due to pressure: Always release the pressure completely before dismantling or maintenance..

⚠ Risk of burns and injury: Wear suitable protective equipment when handling hot media.

⚠ Prevent unauthorised operation: Only trained personnel may install and operate the valves

Note the type plate: It contains important information such as nominal pressure, material, connection size and manufacturer.

Technical Data

Technical data is available on our website www.watts.eu

Disposal

Dispose of valves in accordance with local regulations for metal and sealing materials.

The descriptions and photographs contained in this product specification sheet are supplied by way of information only and are not binding.
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