Stainless Steel Air Vent Valve

Series: H-PQ21X-16P **Size: DN10-DN25**

The Series H-PQ21X-16P is used in all traditional plumbing and HVAC systems for discharging air. The air vent valves allow the air to be discharged at the points of the system where it accumulates (distribution manifolds, tops of the risers or directly in the boiler).

KEY FEATURES

- Lever-type sealing mechanism
- Compact, lightweight, simple and reliable structure
- Higher pressure range
- Optional top or side vent function
- Optional automatic sealed shut-off valve

OPERATING PRINCIPLES

The automatic operation of the air vent valves is based on a float system ensuring tight seal: valve opening and closing is determined by the float movement (up-down).

When there is air in the valve, the force of the float weight acts on the lever which is integral with the plug, thus causing it to move down. In such situation the seat is free and allows the air to be vented outside. When filling the system with water, the air entrapped in the water circuit is pushed towards the outside via the valves. As soon as all the entrapped air is discharged, the water entering the valve body, pushes the float up. Consequently, the lever moves the plug to press against the seat thus ensuring tight sealing of the system, thus preventing the fluid from flowing out.

PRODUCT CODES

H-PQ21X-10-16P	10mm SS Air Vent Valve
H-PQ21X-15-16P	15mm SS Air Vent Valve
H-PQ21X-20-16P	20mm SS Air Vent Valve
H-PQ21X-25-16P	25mm SS Air Vent Valve

TECHNICAL DATA

Minimum Operating Temperature	-20°C
Maximum Operating Temperature	110°C
Nominal Pressure	PN16
Connection Standard	GB/T 7307 Thread
Test Standard	GB/T 13927
Medium	Water, ≤50% ethylene glycol/propylene glycol solution
Body Material	Stainless Steel
Bonnet	Stainless Steel
Sealing	EPDM/FKM
Float	PP

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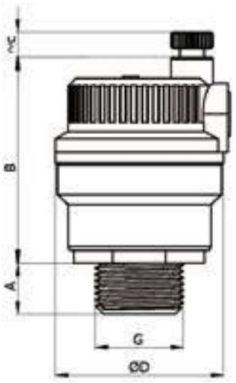
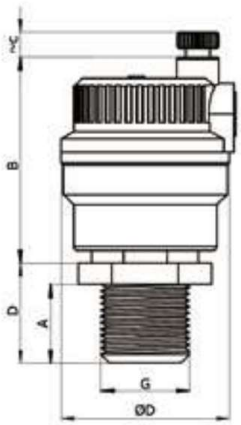
DIMENSION DATA

DN	G	A	B	C	D	ϕ D
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



DN10-15



DN20-25

INSTALLATION AND OPERATION INSTRUCTIONS

1. Compare the rated parameters required by the equipment with the product parameters to ensure that the product meets the required requirements.
2. Installers shall be subject to training and with experience to ensure that the installation is completed successfully.
3. The air vent valve should be installed at the top of the system or where air accumulates, to ensure maximum air vent efficiency.
4. The air vent valve should be installed vertically so as not to affect the vent function.
5. It is recommended to install it together with the isolation valve for easy maintenance.
6. Use standard-compliant interfaces for connection.
7. After installation, unscrewing the end cap by at least 2 turns ensures the vent characteristics.