



Danfoss IPS8 Highly  
Intelligent Purging  
System



# Danfoss IPS8 Highly Intelligent Purging System Installation Guide

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## Danfoss IPS8 Highly Intelligent Purging System



## Product Information

### Specifications:

- Model: 023R8017
- Product Name: Bubbler for IPS – 084H5070
- Water Pressure Handling: Maximum 16 bar (230 psig)
- Purging Air Hose Length: 50 cm (1.5 ft)

## Product Usage Instructions

### Step 1: Anchor Installation

Use a hammer to place anchors inside the holes provided.

### Step 2: Installation of Pipe Clamps

1. Place the pipe clamps with a nut in the thread of the anchors.
2. Rotate clockwise till the full thread of the nut and tighten securely.

### Step 3: Water Line Connections

**Note:** It is recommended to use softened or treated water to prevent mineral deposits in the bubbler. Check every three months for foreign deposits and clean as needed. Ensure correct installation of check valve with push-to-connect feature for a maximum pressure of 16 bar.

### Step 4: IPS NCG Purge Line Connections

1. Connect male thread M16x1.5 with gasket to IPS8 purging line.
2. Install a check valve with push-to-connect feature for a maximum pressure of 16 bar.
3. Avoid installing the bubbler above IPS vertical level.

## Principle of Operation

1. Non-condensable gases from IPS8 heat exchanger trigger air purging solenoid valve and water solenoid valve.
2. Ammonia concentration is absorbed into water as gases flow through the water bubbler.
3. The water with absorbed ammonia flows to a drain line. Ensure no liquid traps by avoiding bends along the drain line piping.

## Frequently Asked Questions (FAQ)

- **Q: Is the water solenoid valve included in the package?**

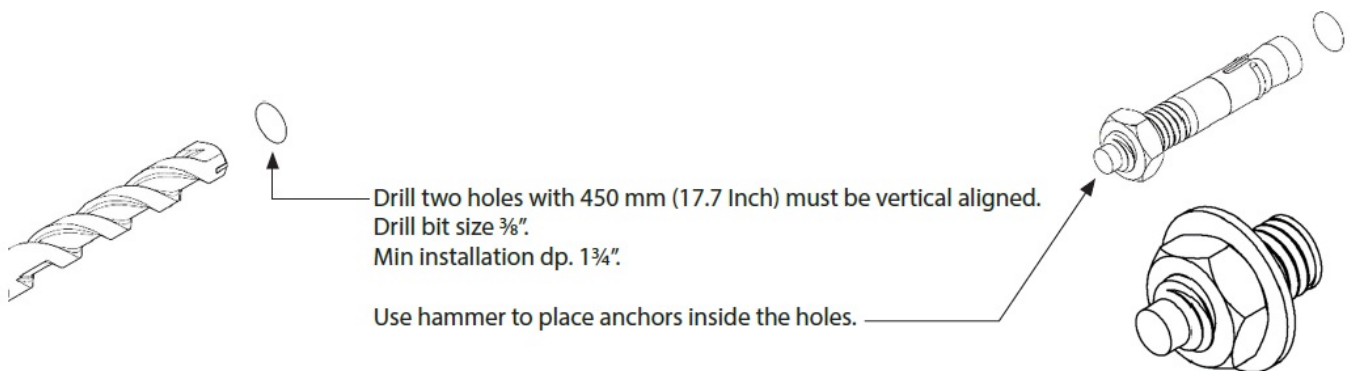
A: No, the water solenoid valve is not included. It needs to be purchased separately and connected to Digital Output, DO15.

- **Q: What is the recommended water valve for this product?**

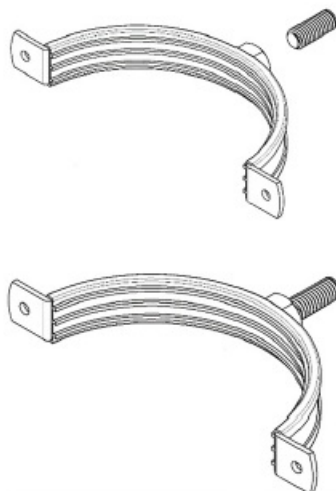
A: Danfoss Water Valve EV220B is suggested for optimal performance.

## Step 1 Installation Steel Stud Anchors for Concrete

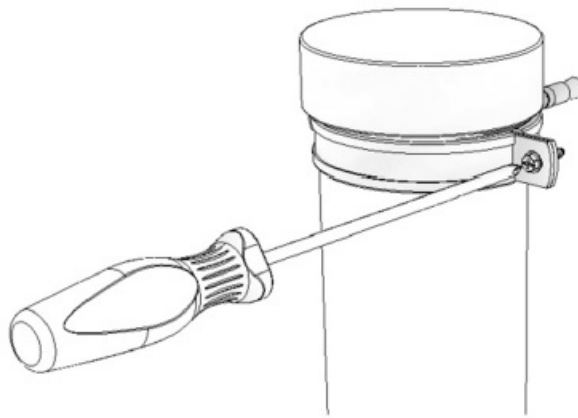
Recommended steel stud anchors for concrete.  
(Included in two sizes 3" inch and 2¼" long).  
Thread size 3/8"-16.



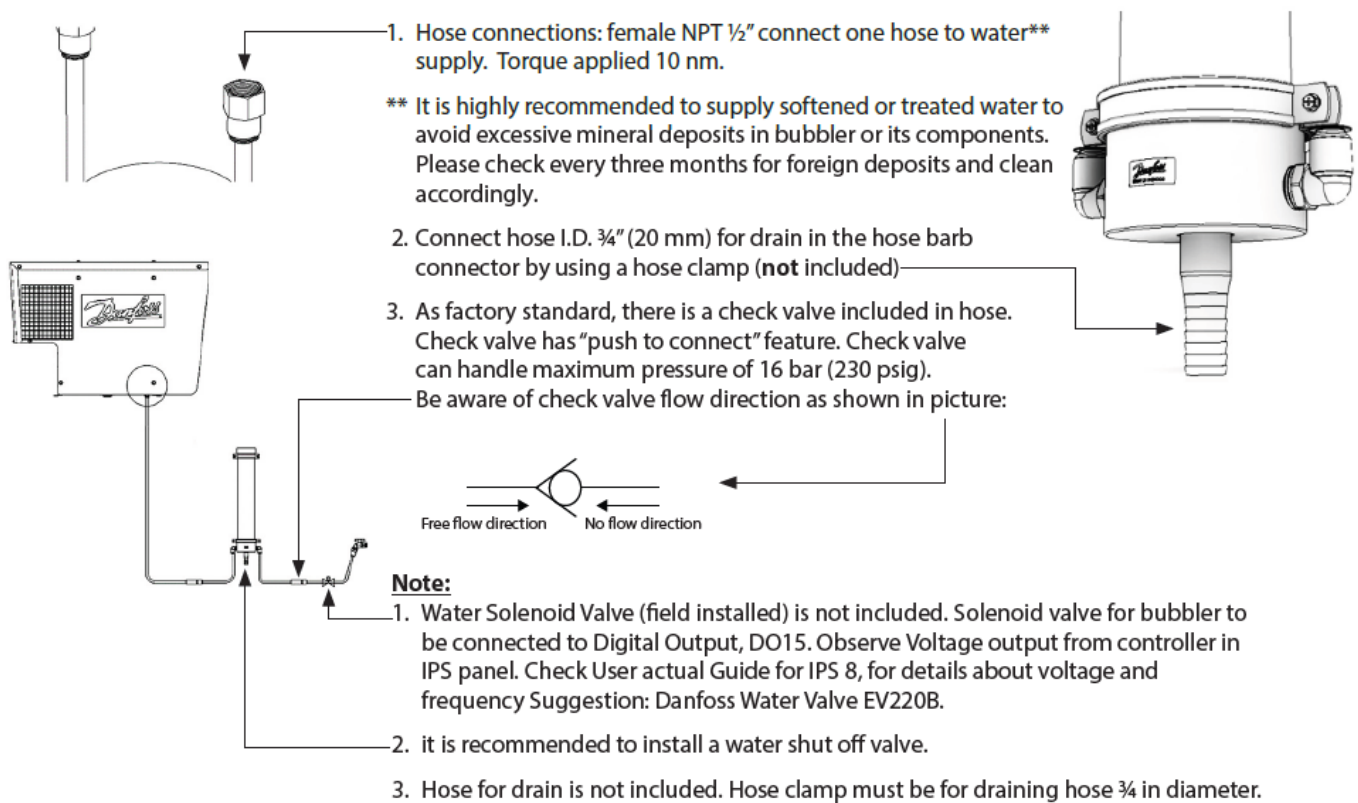
## Step 2: Installation Pipe Clamps



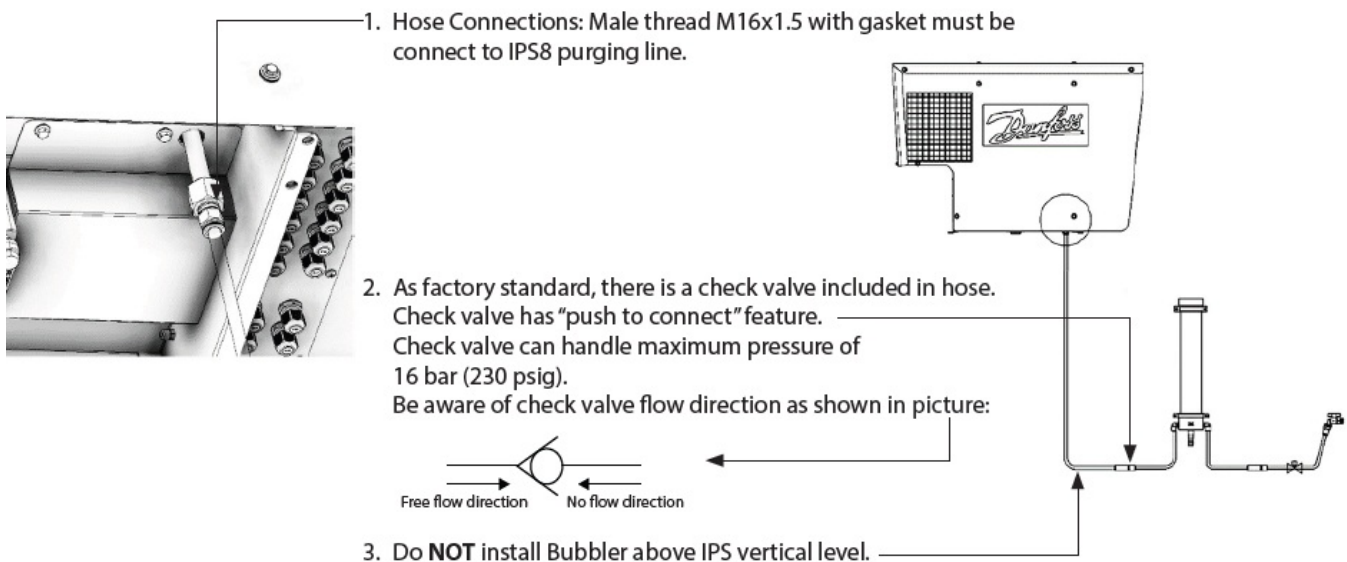
1. Place the Pipe clamps with a nut in the thread of the anchors and rotate clockwise till full thread of nut and tighten.



### Step 3 Connections (Water Line)

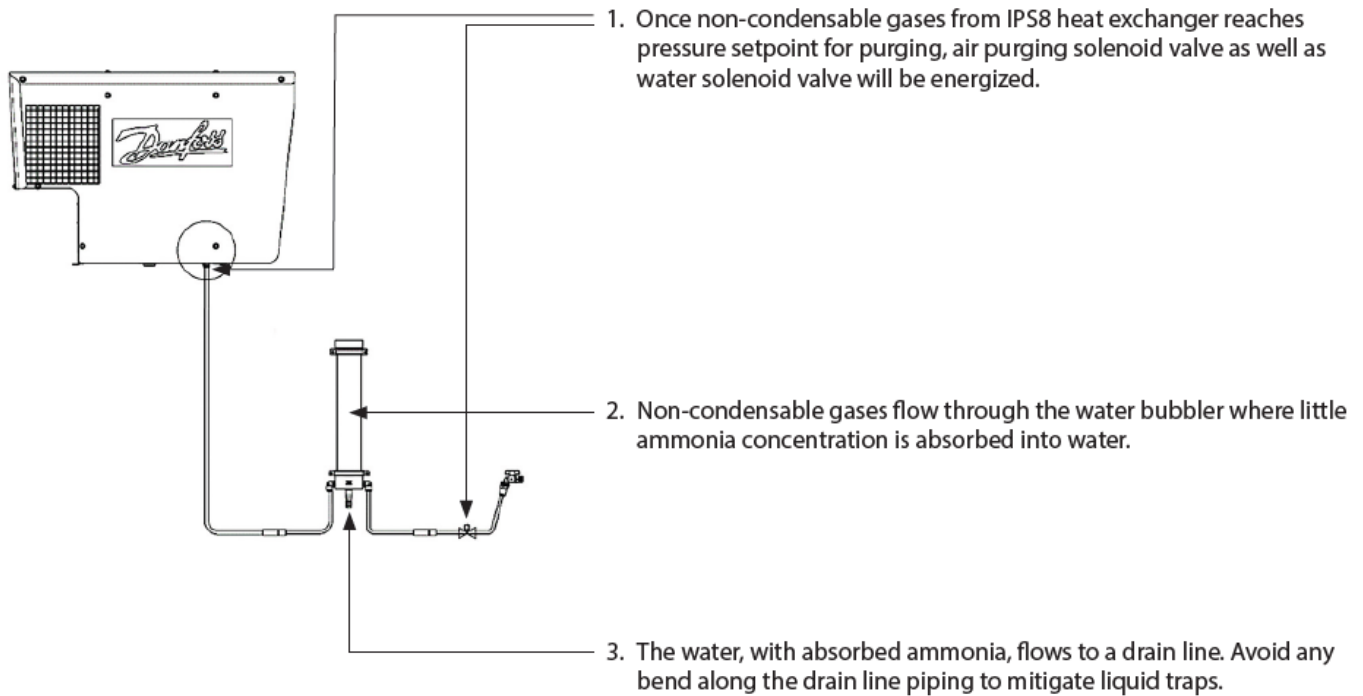


### Step 4: Connections (IPS NCG Purge Line)



As factory standard configuration, purging air hose length is 50 cm (1.5 ft).

## Principle of operation



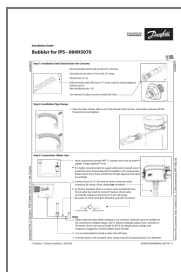
## Danfoss A/S

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## Documents / Resources



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084H5070, IPS8, IPS8 Highly Intelligent Purging System, IPS8, Highly Intelligent Purging System, Intelligent Purging System, Purging System

## References

- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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