Power Drain Trap – Float+Ball Valve

Power Drain Trap

[WRDT – 1000, 2000]

Advantages

- Bigger size outlet valve (15A BALL VALVE)
- High reliable working
- Manual discharge is available
- No loss of compressed air
- Optimum determination of float location
- Easy maintenance
- Visible working status
- No need electric connection
- Higher capacity of condensed water
- A heater for antifreezing is available(WRDT–2000 OPTION)

Applications

- Easy clog area by scale and sludge

  Air Receiver Tank, After Cooler
- High condensed water formed area

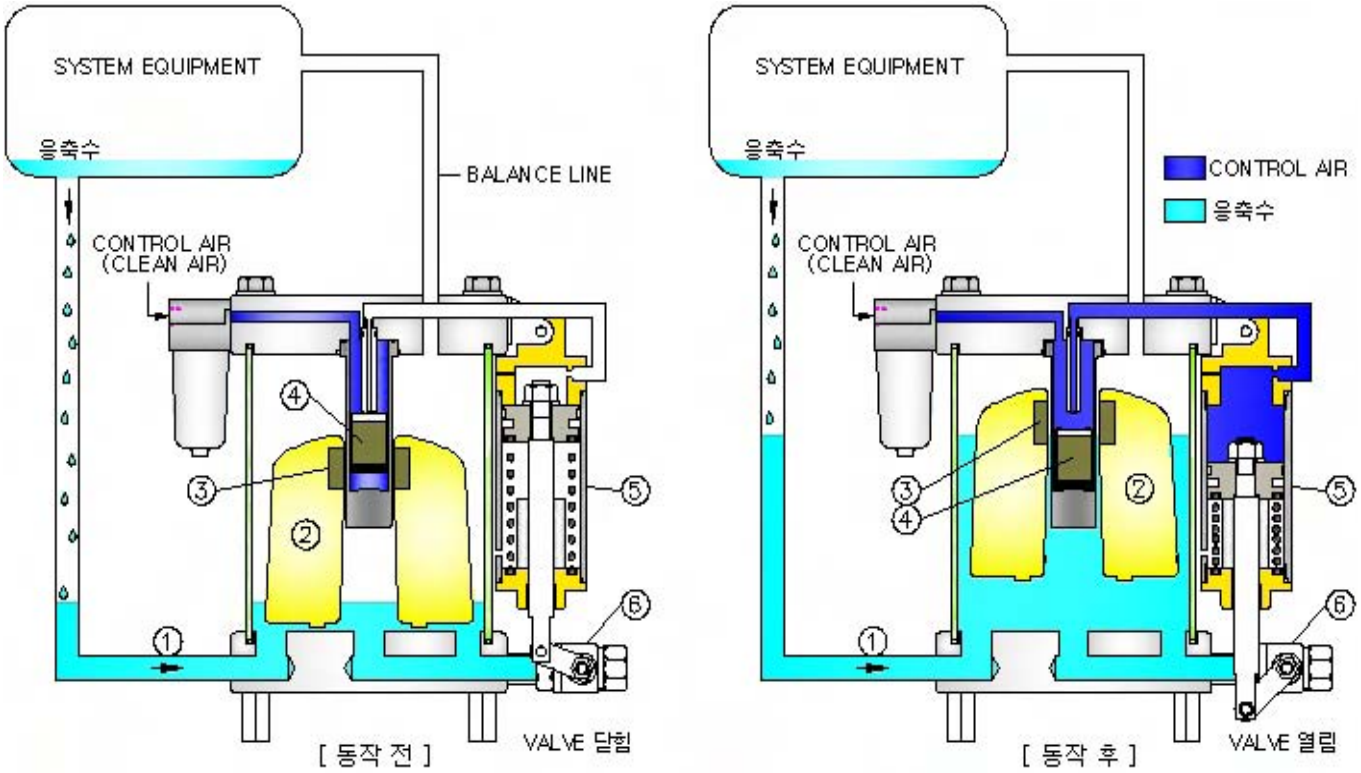
  Inter Cooler, Separator
- Frequent trouble trap by oil flowing

  Air Pre Filter, Refrigerated Air Dryer
- Open ball valve used area

  Air Compressor, Air Pocket
- Equipment of compressed air in blast resistance zone

Operating Principle of WRDT-1000, 2000

1. Operating & Feature



Condensed water is flowed into the trap through **Inlet①** (Refer to *How to install)*

Condensed water reach a certain level(about 2/3), **Float②** is up by buoyancy.

At that time, the external **Magnet③** sticked to **Float②** get down the internal **Magnet④**.

The external **Magnet③** & internal **Magnet④** are assembled with the same pole and they never sticked each other.

When the internal **Magnet④** get down, Control air is flowed to **air cylinder⑤** and the cylinder get down and make **ball valve(Φ15)⑥** open and then condensed water in trap is discharged.

The condensed water remains about 1/4, **Float②** get down and **Magnet④** move up and shut control air supplying to **air cylinder⑤**. **Air cylinder⑤** discharge the balance air through the hole in cover and return by spring and ball valve is closed.

It is done within 2~3sec. to discharge the condensed water by cylinder and shut again.

And there is no loss of compressed air because of remaining condensed water in bottom.

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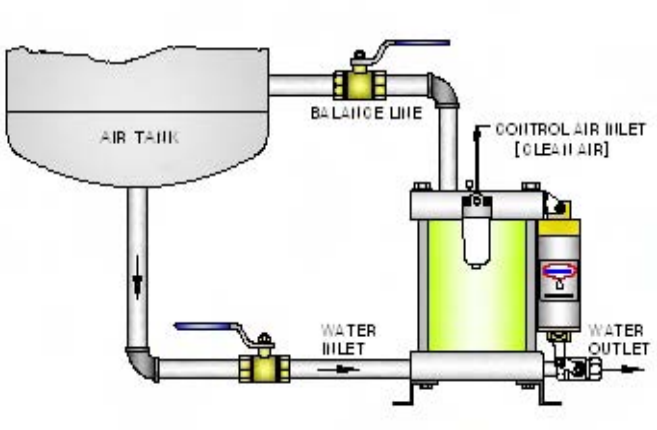
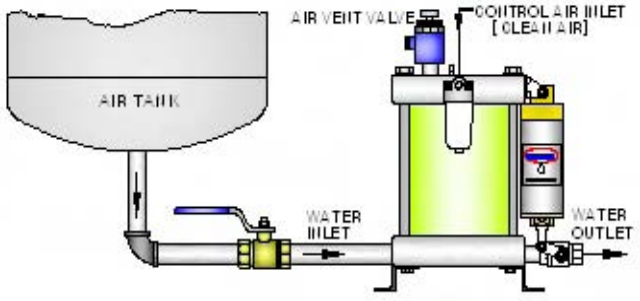
[WRDT – 1000, 2000 Installation]

Installation 1]



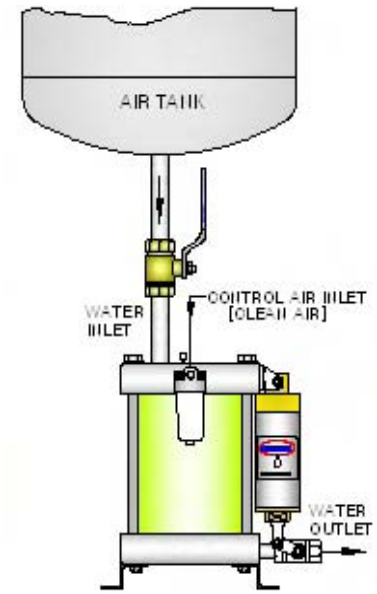
1. Connect inlet and outlet of condensed water pipe
2. Connect Control air line.
   [Use the clean dry air]
3. Connect the balance line as the picture.
   [The pipe of balance line should be over 15A]
4. Connecting should be separate for repairing.
5. Installation1) is the best connection.
6. Caution : Do not join the balance line to the water inlet.

Installation 2]



1. Connect inlet and outlet of condensed water pipe
2. Connect Control air line.
   [Use the clean dry air]
3. If the Balance line is not connected, open slightly Speed control v/v.
4. There is a loss of air in the case of Installation 2)

Installation 3]



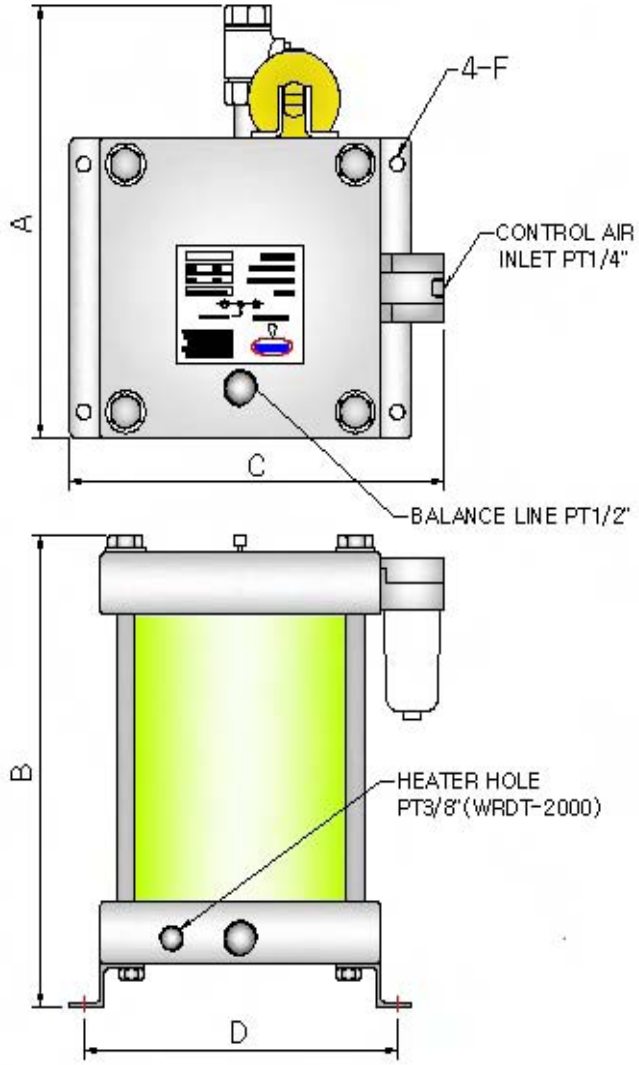
1. If the condensed water outlet is higher than the trap, use the balance line hole with the condensed water inlet
2. Stop up the inet at the bottom with plug or valve.
3. Connect the control air line with clean dry air.
4. Check the condensed water is flowed.
5. Discharge the early condensed water manually.

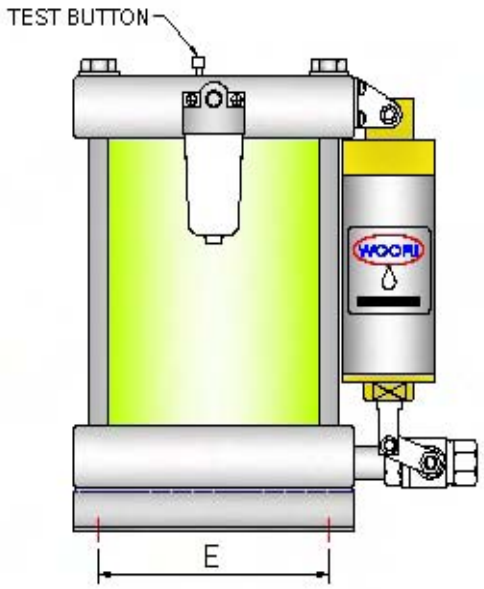
** Notice

1. Shut the compressed air before installation.
2. Check the leakage of trap and pipe after installation.
3. Check the inflow to the trap.
4. Push test button and check how it works.
5. Connecting should be separate for repairing.

WRDT-1000, 2000 Dimensions / Spec.

1. Dimensions and Specifications





	SPECIFICATIONS			DIMENSIONS		
	WRDT-1000	WRDT-2000	Unit		WRDT-1000	WRDT-2000
Working Temp.	2 ~ 70		℃	A	187	256
Working Press.	0 ~ 9.9		kgf/㎠	B	117	278
Control Press.	2.5 ~ 9.9	2.8 ~ 9.9	kgf/㎠	C	178	238
One capacity	0.15	0.80	Liter/1cycle	D	138	199
Capacity (Max)	250	660	Liter/hr	E	94	100
Air compressor	400	2000	HP	F	Φ11	Φ9
Inlet con.	PT1/2" Up & Down		2 point			
Outlet con.	PT3/8"(Φ10)	PT1/2"(Φ15)	Ball valve			
Option	NONE	For 20 kgf/㎠				

** The optimum working is one time per 5~15minute.