

Automatic drain DT3000-W/DT4000-W Series

Lightweight and compact automatic drain discharger. Compatible compressor: 0.75 kW to 75 kW



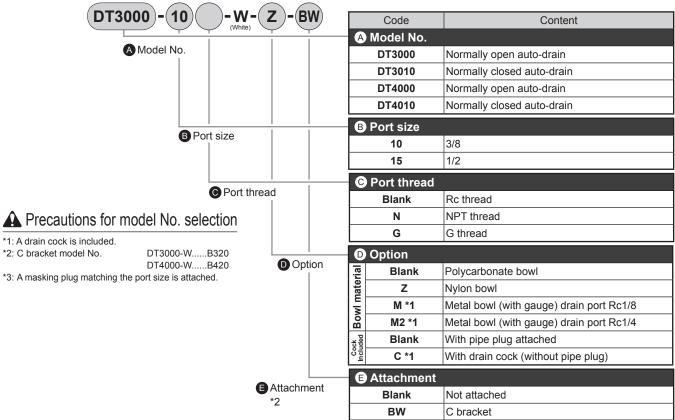


Specifications

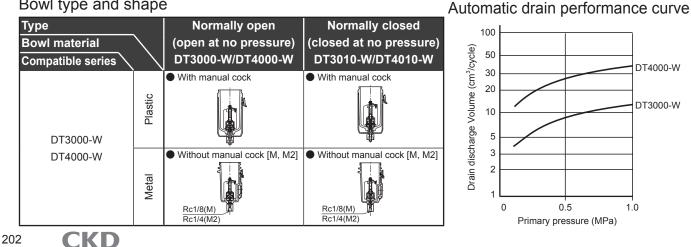
Descriptions		DT3000-W	DT4000-W	DT3010-W	DT4010-W			
Туре		Normally open (*1)		Normally closed				
Working fluid		Drain contained in the compressed air (water or oil)						
Proof pressure	MPa	1.5						
Working pressure range MPa		0.1 to 1		0.15 to 1				
Operating ambient temperature range °C		5 to 60						
Port size	Rc,NPT,G	3/8, 1/2						
Drain outlet		Barbed nipple (soft nylon tube of φ 5.7 to φ 6 bore size can be connected directly)						
Weight	kg	0.3	0.45	0.3	0.45			

*1: If capacity of the air compressor used is less than 0.75 kW (0.09 m3/min or less air supply rate), use the NC.

How to order



Bowl type and shape

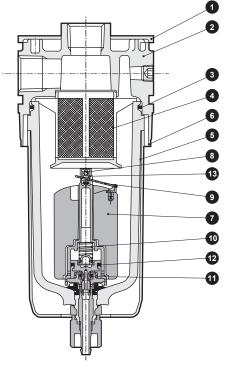


DT3000-W/DT4000-W Series

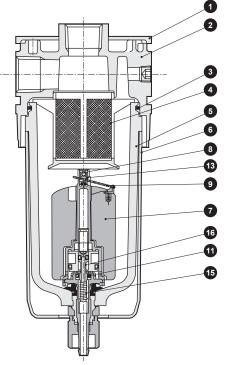
Internal structure and parts list

Internal structure and parts list

 Normally open (open at no pressure) DT3000-W/DT4000-W



 Normally closed (closed at no pressure) DT3010-W/DT4010-W



When pressure is not applied inside the bowl, the **1** spring pushes down the **1** valve, keeping it away from the **1** stem packing. When 0.1 MPa or higher pressure is applied inside the bowl, the pressure applied to the **1** valve becomes larger than the force of the **1** spring and pushes up the **1** valve, sealing it with the **1** stem packing.

When drain accumulates in the bowl, the **⑦** float moves up and the **⑨** float level arm pushes up the **⑲** orifice spring.

Then the ③ orifice spring snaps open the ③ orifice seat assembly and leads the compressed air into the upper chamber of the ④ valve, making it pressurized. When the ④ valve is pushed down apart from the ④ stem packing, drain is discharged to air. After drain is discharged, the ④ float moves down and the ④ float level arm closes the ③ orifice seat assembly. The compressed air that has kept the upper chamber of the ④ valve pressurized passes through the orifice of the ④ valve to be discharged to air. Then the pressure applied to the ④ valve from below becomes larger than the force of the ④ spring and pushes up the ④ valve, sealing it with the ④ stem packing.

When pressure is not applied inside the bowl, the () spring pushes

When 0.15 MPa or higher pressure is applied inside the bowl and

drain accumulates, the 7 float moves up and the 9 float level arm

Then the (B) orifice spring snaps open the (B) orifice seat assembly

and leads the compressed air into the upper chamber of the (

apart from the **①** stem packing, drain is discharged to air. After drain is discharged, the **⑦** float moves down and the **⑨** float level arm closes the **③** orifice seat assembly. The compressed air

valve, making it pressurized. When the () valve is pushed down

that has kept the upper chamber of the **(b**) valve pressurized passes through the orifice of the **(b**) valve to be discharged to air. Then the

force of the () spring pushes up the () valve from below, sealing it

up the () valve, keeping it sealed with the () stem packing.

pushes up the () orifice spring.

with the f stem packing.

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Precautions

Dryer system list

No	Part name	Material	Model No.				
No.	Part liallie		DT3000-W	DT3010-W	DT4000-W	DT4010-W	
1	Plate cover	ABS resin	-	-	-	-	
2	Body	Aluminum alloy die-casting	-	-	-	-	
3	O-ring	Special nitrile rubber	F3000-ORING	F3000-ORING	F4000-ORING	F4000-ORING	
4	Screen	Polyacetal resin, polyester	DT3000-SCREEN	DT3000-SCREEN	DT4000-SCREEN	DT4000-SCREEN	
5	Bowl assembly (including O-ring)	-	DT3000-W-BOWL	DT3010-W-BOWL	DT4000-W-BOWL	DT4010-W-BOWL	
6	Bowl guard	Polyamide resin steel	DT3000-W-BOWI -GUARD	DT3000-W-BOWI -GUARD	DT4000-W-BOWI -GUARD	DT4000-W-BOWI -GUARD	

CKD

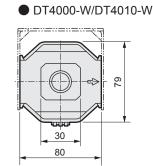
DT3000-W/DT4000-W Series

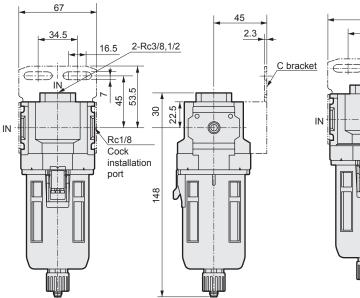
Dimensions

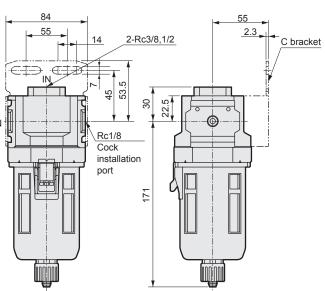




CAD



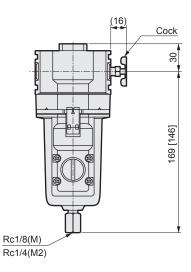




Note: A soft nylon tube of ϕ 5.7 to ϕ 6 bore size can be directly connected to the drain outlet. Note: Keep 60 mm and over space below the bowl for maintenance.

Metal bowl specifications

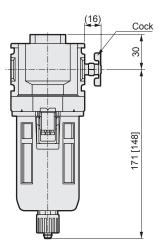
• Option [M, M2]



Note: Dimensions shown in [] are for DT3000-W.

Cock specifications

Option [C]



Note: Dimensions shown in [] are for DT3000-W.

